

Pneumatic Catalogue

Quick Coupling Systems for Pneumatic and Fluid Handling

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker

ENGINEERING YOUR SUCCESS.

THE RIGHT SOLUTION FOR EVERY SECTOR.



Whether under water, in aerospace, on the high seas, on the street, or in industry – our quick connect coupling systems are at home in many domains and represent the right solution in numerous technical applications.

The modular structure of our series allows you to benefit from a wide standard range, which includes a suitable system for most applications – just-in-time goes without saying.







Structure of Part Numbers

Hose Connection
TF = Hose Barb
TH = Hose Barb 45°
TR = Hose Barb 90°
TZ = Straight shaft parallel
TP = for Parker plug-in Hose
TS = Panel Mount with Hose Barb
TD = Hose Barb DIN EN 560
TE = Front Panel Installation, Hose Barb Panel Mount

Plastic Tube Connection
KO = with Hose Nut, without spring guard
KR = 90° KO - connection
KS = Panel mounted, without spring guard
KK = with spring guard
KE = Front panel installation with KO - connection
KP = Plastic tube connection
(hard plastic hoses, only for RECTUCHEM)

Other Connections
KL = Insert for plug-in connection
PV = Fixing connection for PVC hoses
DS = Double plug-in nippel
PH = Parker 45°

Male Thread
AW = Whitworth pipe thread ISO 228 parallel
AM = Metric thread DIN 13
AK = Whitworth pipe thread DIN 2999 tapered
AN = NPT thread ANSI B 1.20.1 tapered
AD = Metric thread DIN 2353 (ISO 8434-1)
WP = Whitworth pipe thread ISO 228 Serto Plan
MP = Metric thread DIN 13 Serto Plan
SW = Panel mount Whitworth pipe thread ISO 228 Serto Plan
SM = Panel mount metric thread DIN 13 Serto Plan
AL = Whitworth pipe thread ISO 228 parallel left
AR = 90° Whitworth pipe thread DIN 2999 tapered
AE = Front Panel Installation with Whitworth pipe thread ISO 228 parallel
AJ = UNF thread (JIC) with 37° cone by SAE J 514

Female Thread
IW = Whitworth pipe thread ISO 228 parallel
IM = Metric thread DIN 13
IK = Whitworth pipe thread ISO 7 corresponding DIN 2999 tapered
IN = NPSF-thread ANSI B 1.20.3
IT = NPT thread tapered ANSI B 1.20.1
IF = UNF-thread
IL = Whitworth pipe thread ISO 228 parallel left

Adding 1
S = Marking for special version
0 = RECTUKey round
3 = RECTUKey triangle
6 = RECTUKey hexagon
8 = RECTUKey octagon

21	KA	AW	13	M	P	X	X	X

Series No:

Couplings
KA = Single Shut-Off
KB = Double Shut-Off
KF = Straight-Through
KL = Dry-Break (double shut-off)
KE = Self-Venting System
KS = Safety (single shut-off)
KD = Safety (double shut-off)
KR = Safety (straight through)

Plugs
SF = Straight-Through
SB = Double Shut-Off
SL = Dry-Break (double shut-off)
SS = Safety (straight-through)
SD = Safety (double shut-off)
SR = Recoil Eliminator

Metric Thread
05 = M 5
10 = M 10 x 1
12 = M 12 x 1,5
14 = M 14 x 1,5
16 = M 16 x 1,5
18 = M 18 x 1,5

Thread Sizes
10 = 1/8”
13 = 1/4”
17 = 3/8”
21 = 1/2”
26 = 3/4”
33 = 1”
38 = 1 1/8”
42 = 1 1/4”
48 = 1 1/2”
54 = 1 3/4”
60 = 2”

Hose Connection
03 = for 3 mm LW (1/8”)
04 = for 4 mm LW (3/16”)
06 = for 5 mm LW (1/4”)
08 = for 8 mm LW (5/16”)
09 = for 9 mm LW (3/8”)
13 = for 13 mm LW (1/2”)
19 = for 19 mm LW (3/4”)
25 = for 25 mm LW (1”)

Plastic Hose
04 = for 3 x 4 mm
05 = for 3 x 5 mm
36 = for 3 x 6,3 mm
06 = for 4 x 6 mm
46 = for 4 x 6,3 mm
08 = for 6 x 8 mm
10 = for 8 x 10 mm
12 = for 9 x 12 mm
16 = for 13 x 16 mm

Material
M = Brass CuZn39Pb3 2.0401 (except sleeve)
B = Brass CuZn39Pb3 2.0401 (completely)
S = Steel 9SMnPb28K 1.0718
R = Stainless Steel AISI 303
H = Stainless Steel AISI 316 LMO
E = Stainless Steel AISI 316 L
K = Thermoplastics
D = POM (Delrin)
F = PVDF

Seal
X = without seal
P = Perbunan NBR
V = FKM/FPM
E = Ethylene-Propylene EPDM
S = Silicone
K = FFKM

Surface
X = without surface treatment
N = Nickel plated
C = Chrome plated
Z = Zinc plated
D = Durnicoated (chemic. zinc plated)
B = Browning (steel black)
G = Zinc plated and yellow chromated
P = Passivated
P = Pressure springs made of PEEK (only for RECTUCHEM+)
F = chemically nickel plated and chrome plated (Flashchrome)
S = zinc plated and black chromated

Adding 2 Color coding for plastic
B = Blue
G = Green
R = Red
Y = Yellow

Key to Symbols in Application Area


Machinery Construction


Electrical Engineering


Medical Technology


Mobile Hydraulics


Food Technology


Aeronautics


Safety Technology


Trade


Chemical Technology


Automotive

Important Notes:

- Please note that the technical data, specifications and drawings in the catalogue are not binding. This information is subject to change without notice in the interest of improvement.
- We reserve the right to make technical modifications for the purposes of improvement.
- June 2013: With the actual catalogue the older versions are no longer valid.
- The interchangeability is guaranteed under the assumption that the manufacturer of the relevant product has not changed any functional part in the meantime.
- You will find important safety instructions on pages 12 and 13.

Structure of the Pneumatic Catalogue

Brass / Steel

DN	Series	KF	KA	KB	KL
1,5	Series 02		15		
2,5	Series 50		19		
2,7	Series 20		21	23	
4	Series 204				27
5	Series 17		29		
5	Series 21		31	35	39
5,5	Series 1100		43	44	
5,5	Series 14		47		
5,5	Series 18		51		
5,5	Series 19		53		
5,5	Series 22		55		
5,5	Series 23		59		
5,5	Series 1400		63		
5,5	Series 1423		67		
5,5	Series 24		71		
6	Series 206				75
6	Series 51		77	77	
6	Series 52		81	81	
7,2	Series 26		85	89	
7,4	Series 1300		93	94	
7,5	Series 13		97		
7,8	Series 25		99	101	104
7,8	Series 1600		107		
7,8	Series 1625		109		
8	Series 33		111		
8	Series 84		113		
8,1	Series 93	115			115
8,1	Series 08	119			120
8,5	Series 45	123			
8,5	Series 30		125		
9	Series 209				127
9	Series 40		129		
10	Series 27		131	132	
10	Series 1700		135	136	
10	Series 1727		139		
10	Series 1800		141	142	
10	Series 34		147		
10	Series 41	149			
11	Series 42	151			
11	Series 37		153		
12	Series 57		157	157	
12,4	Series 1900		161	161	
13	Series 29		165		
15	Series 38		167	167	
19	Series 39		171	171	173
4,3–20	Series 70			175	
22	Series 2100		177		

Stainless Steel

DN	Series	KF	KA	KB	KL
2,7	Series 20		181	183	
3	Series 303			187	
4	Series 204				191
5	Series 21		193	196	198
6	Series 206				201
7,2	Series 26		203		
7,4	Series 1300		205	205	
7,4	Series 25		209	211	213
9	Series 209				215
10	Series 27		217	218	
10	Series 1800		221	222	
4,3–20	Series 70			225	

Thermoplastic

Standard

DN	Series	KF	KA	KB	KL
5	Series 21		233	233	
7	Series 48		241	241	
4,3–30	Series 70			247	
Components					

Medical Technology

DN	Series	KF	KA	KB	KL
2,7	Series NP	251			
3	Series PPM	253	253	253	
5	Series MD		257	257	
6	Series PPL	265	265	265	
7	Series BT	269			

Safety

Standard

DN	Series	KF	KA	KB	KL
5	Series 21		271	273	
7,8	Series 25		275	277	
10,5	Series 28		279		

Breathing Air

DN	Series	KF	KA	KB	KL
7,4	Series 95		281		
7,4	Series 96		283		

Self-Venting

DN	Series	KF	KA	KB	KL
5,5	Series 14		285		
5,5	Series 18		287		
5,5	Series 1400		289		
5,5	Series 24		291		
7,4	Series 26		293		
7,8	Series 1600		295		
10	Series 1700		297		

Coded Systemes

DN	Series	KF	KA	KB	KL
5	Series 21		299		
7,8	Series 25		303		
7,4	Series 65-67		307		

Acces-sories

Components
Blow Guns

Hoses & Tubing

Rectulastic
Rectuflex
Rectuflex with straight extension
Superbraid
Ultra-Lite
Rectusoft
Zubehör

ARE YOU HOPING TO FIND WITHOUT LOOKING? THEN WE HAVE JUST THE THING FOR YOU.

Brass/Steel

Here, you will find a broad range of standard coupling systems in brass and/or steel with various valve types (single, double, leak-free) for compressed air and water as well as applications with liquid and gaseous media.

Page 14 – 179

Stainless Steel

The coupling systems in this chapter have been designed in V2A (AISI 303) or V4A stainless steel (AISI 316 L) specifically for liquid and/or aggressive media and impress with their high corrosion resistance and great strength.

Page 180 – 225

Thermoplastic / Medical Technology

Various materials in POM and PVDF and a broad range of coupling systems allow a wide spectrum of possible applications, e.g. in medical technology and in the pharmaceutical sector.

Page 226 – 269

Safety

Systems with safety locking protect against unintentional uncoupling. Venting systems reliably prevent the whiplash effect and thus improve safety in the workplace. Special couplings for respiratory protection applications are optimised for use even in extreme situations.

Page 270 – 297

Coded Systems

These systems are the right choice wherever there is a risk of mixing up different circuits. Depending on the design with mechanical and/or color coding, they reliably impede or prevent incorrect coupling.

Page 298 – 307

Accessoires

A broad range of brass, stainless steel and aluminium fittings as well as plastic and aluminium blow guns is the ideal addition to our comprehensive couplings range.

Page 308 – 333

Hoses and Tubing

Here, you will find a large selection of hoses in various materials (nylon 12, polyurethane, PVC) and shapes (straight, spiral) with or without fabric lining and bonding as well as reusable hoses to round off the mix.

Page 334 – 357

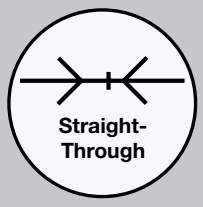
COUPLING QUICKLY AND SAFELY WITH ONE HAND.



The development of the single-hand quick connect coupling made a decisive contribution to improving work safety and functionality. In order to create a connection, the plug is simply pushed into the coupling. This causes the sleeve to spring forward and lock automatically. When uncoupling, the sleeve is pushed back with one hand and the connection is disengaged with no problem whatsoever. The following four valve designs are available for selection for different applications:

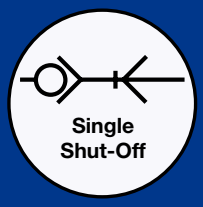
Straight-Through

These coupling systems work with no shut-off valve and therefore achieve the greatest possible flow. Furthermore, turbulence which can occur with integrated valves is completely eradicated. Straight-through couplings are ideally suited to liquid media – e.g. water applications. Before unlocking, the flow must be stopped.



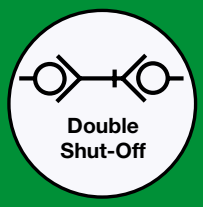
Single Shut-Off

On our single shut-off systems, the plug is designed straight-through – although the coupling shuts off immediately when the connection is broken. Appearance of on-flow media in the line is effectively prevented. An ideal solution for operating compressed air tools.



Double Shut-Off

On our double shut-off systems, after disconnection, the flow stops both in the coupling and in the plug. The medium remains in the hose in both connecting lines, the pressure is held constant and not released.



Leak-Free Design

On the coupling and plug, our leak-free coupling systems have valves that build up no dead-space volume. As such, when the connection is broken, no drops of the medium being channelled are able to escape. This variant is especially suitable for transporting aggressive media or in sensitive environments – e.g. in cleanrooms.





THE DIFFERENCE LIES IN THE VALVE.

The valve design is the linchpin of any coupling system and it is essentially responsible for the flow / pressure loss on a coupling. Depending on the medium and application, the use of a system with optimised valve technology can save a great deal of energy, e.g. in the supply to compressed air tools.



Standard-Valve

For decades, the tried and tested valve technology with its robust and compact design has served reliably in many applications. This valve design can be found e.g. in our 26KA series. At nominal diameter 7.4, a flow of approx. 1,000 l/min (air) is therefore possible.



UltraFlo-Valve

Due to less turbulence, this streamlined valve structure can increase flow by up to 80 % compared with conventional systems. This valve design can be found e.g. in our 25KA series. At nominal diameter 7.4, a flow of approx. 1,800 l/min (air) is therefore possible.



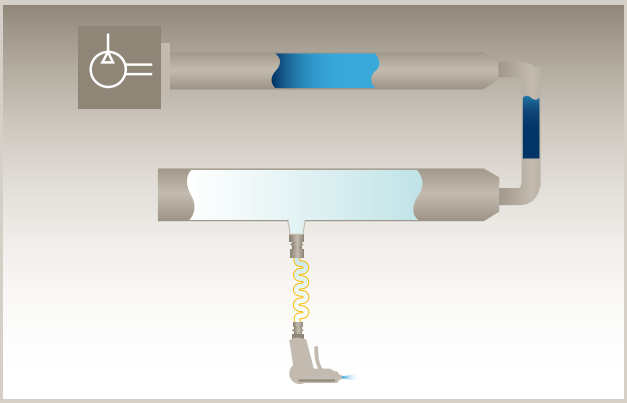
Ultra HighFlow-Valve

This extremely streamlined pipe valve optimises flow due to minimal turbulence on the extremely smooth insides and a reduced geometric change in the media flow with a constant nominal diameter and compact design. The valve springs are also separate from the flow medium and optimise the energy efficiency due to low coupling forces. This high-end valve design can be found e.g. in our 1600KA series. At nominal diameter 7.4, a flow of approx. 2,100 l/min (air) is therefore possible.

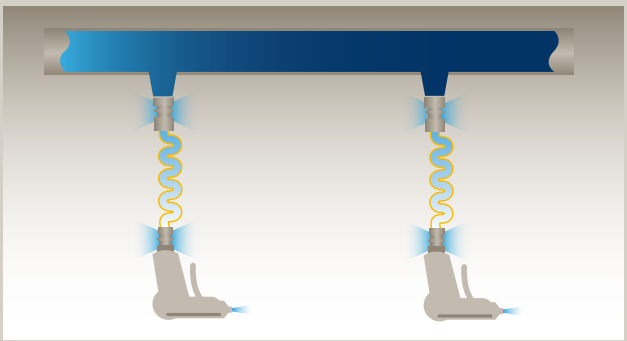
KNOW-HOW THAT SAVES HARD CASH.

In the age of rationalisation even in compressed air technology, the optimisation of systems is an important tool to improve energy efficiency. Correctly designed, complete systems from the compressor to the tool and a correctly dimensioned conduit system with no leaks save hard cash here. For over six decades now, we have devoted ourselves to the industrial handling of compressed air with professional systems and we are therefore intimately acquainted with the weak points of compressed air systems.

When planning a compressed air system, certain parameters must be kept in mind. As such, the hoses used should always be as short as possible and have the right diameter and as few coils as possible, as every metre of hose causes pressure losses. Even essentially correct, self-venting couplings sometimes differ considerably in terms of pressure loss. As such, modern systems reduce the pressure loss by at least a third, to approx. 0.2 bar, and therefore pay for themselves within a minimal period.



Incompatible Overall System
The objective evaluation of an existing system requires analysis of the actual condition of the system. The relevant parameters for this, such as volume flow, flow pressure and compressed air quality, can be recorded using professional measuring technology. Large cross-section tolerances, more couplings than necessary, too many nozzles and an incorrect hose diameter cost a huge amount of energy here. An appropriate assembly therefore always pays off, as efficient operation of the overall system is possible only if all components are in harmony.



Leaks in the Connecting Elements
The detection of possible leaks in the network can be calculated either by back-feeding during down time or, if this is not possible, from the measured pressure curves during operation. Sensitive points here particularly include the connection to the ring line and to the tool. There is a possibility of optimisation for example with the use of quick connect couplings with a valve to prevent pressure loss when uncoupling and venting the system.

YOU KNOW YOUR APPLICATIONS, WE KNOW THE RIGHT COUPLING SYSTEM!

Industrial Sectors/ Application Areas	Straight-Through KF	Single Shut-Off KA	Double Shut-Off KB	Leak-Free Design KL	Thermoplastic Couplings POM/PVDF	Stainless Steel Couplings	Safety Couplings
Compressed Air	●	●	○	○	○	○	●
Air	●	●	○	○	○	○	○
Breathing Air	○	●	●	○	○	○	●
Gases	○	●	●	●	○	○	●
Liquid Gases	○	○	●	●	○	○	●
Water*	●	●	●	●	○	○	○
Liquid Media*	○	●	●	●	●	○	●
Aggressive Media	○	○	●	●	●	●	●
Chemicals	○	○	●	●	●	●	●
Machinery/Systems Manufacturing	○	●	○	●	○	○	●
Welding	○	●	○	○	○	○	○
Molding	●	●	●	○	○	○	○
Automation	○	●	○	○	○	○	○
Robotics	○	●	●	●	○	○	○
Textile Industry	○	●	○	○	○	○	○
Medical Equipment	●	●	●	●	●	●	●
Food and Beverage Industry	○	○	○	○	●	●	○
Chemical Industry	○	○	●	●	●	●	●
Pharmaceutical Industry	○	○	●	●	●	●	●
Laboratory	○	●	●	●	●	●	●
Analysis Technology	○	○	●	●	●	●	○
Steel Manufacturing	○	●	○	○	○	○	●
Rafineries	○	○	●	●	○	●	●
Paper Production	○	●	●	○	○	●	○
Rescue and Safety	○	●	●	●	○	●	●
Aerospace Technology	○	○	○	○	○	●	●
Shipyards	○	●	●	○	○	●	○
Semiconductor Technology	○	○	●	●	●	●	○
Laser Technology	○	○	●	●	○	●	○
Nuclear Power	○	○	●	○	○	●	●

* only systems with valve and sleeve made of brass

SEALING AND ACCURACY.

A coupling system is always as good as its sealing components. That is why we only use top quality, proven standards, which have been tried and tested time and again.

For special applications, please also ask our specialist advisers, as an important criterium for functionality of an O-ring is the type of medium in relation to its temperature.

The most important sealants

Sealing-Material	Brand	Temperature-Range	Features
NBR Acrylonitrile-Butadiene Rubber	Buna N	-20°C - +100°C	Can be used for compressed air. Resistant to heat and many liquids, e.g. mineral oils, fuel (no environmental diesel), water glycol and grease.
EPDM Ethylene Propylene Diene Rubber		-40°C - +150°C	Heat resistant and specially suited to hot water and steam. Good resistance to brake oils, glycol and fire-resistant oils. Not suitable for mineral-based oils and petrol.
FKM Fluorocarbon Rubber	Viton® [1]	-15°C - +200°C	Very high resistance to heat and liquids inc. petrol, oils, environmental diesel, grease and aromatic oils.
FFKM Perfluoro Rubber	Kalrez® [2]	-25°C - +240°C	Universal chemical resistance, good for aggressive media, high thermal resistance. Lowest source values for all media.

[1] Viton® is a registered trademark of DuPont Dow Elastomers.
[2] Kalrez® is a registered trademark of DuPont Dow Elastomers.



RectuLoc

This innovative sealing method is available for all standard shut-off products with a tapered external thread. It consists of a sealant applied directly to the thread. The connection is simply merely screwed in and can be readjusted with no leakage even after several hours. It reliably seals against gases as well as aqueous and non-aqueous liquids up to 150 bar and temperatures up to 120 °C and it is moreover also resistant to aggressive media.



Captive Washer

This permanently fixed sealing ring in robust polymer is available for all standard shut-off products with a cylindrical external thread. The connection is screwed as usual and reliably sealed by the ring, even in the case of readjustment. The seal is suitable for gaseous as well as aqueous and non-aqueous media up to a pressure of 150 bar and up to a temperature of 120 °C as well as being resistant to aggressive media.

ALWAYS A SUITABLE PLUG.



Plug Profil: ISO 6150 B
Standard-Series

Self-Venting Series

23SF
23KA/24KA
1400KA/1423KA
24KE/1400KE

30SF
30KA

37SF
37KA



Plug Profile: ISO C
Standard-Series
Self-Venting Series

303SB
303KB

18SF
18KA
18KE

84SF
84KA



Plug Profile: Europe
Standard-Series

Self-Venting Series

20SF
20KA

21SF
21KA

25SF*/26SF**
25KA/26KA/1600KA
1625KA
25KE/26KE/1600KE

27SF
27KA/1700KA
1727KA
1700KE

* Steel zinc plated
** Brass



Plug Profile: Walther
Standard-Series

50SF
50KA

51SF
51KA

52SF
52KA

57SF
57KA



Plug Profile: Scandinavia
Standard-Series

1100SF
1100KA

1300SF
1300KA

1800SF
1800KA

1900SF
1900KA

2100SF
2100KA



Plug Profile: Asia
Standard-Series

13SF
13KA

Plug Profile: Atlas Copco
Standard-Series

33SF
33KA

34SF
34KA



Plug Profile: Aro
Standard-Series
Self-Venting Series

22SF
14KA/22KA
14KE

Plug Profile: UK
Standard-Series

17SF
17KA

19SF
19KA

Pictures are smaller than actual products.

WE SET STANDARDS IN QUALITY AND SAFETY.

Around the world, highly qualified specialists work every day to guarantee and optimise the quality of our products. Nothing will deter them from the high demands they set themselves – as all employees know, we can retain our top international position only through constant top performance. With the aid of controlled manufacturing processes and the latest precision technology, it is the person – as a creative and experienced technician, seller and customer adviser – who is responsible for this. All stages of production are subject to tried and tested, comprehensive quality management. The certificates and test reports from the principal independent institutions also confirm our outstanding functionality and production quality. For our customers, this means: greater safety and reliability – even under extreme conditions.

DIN EN ISO 9001:2000
Reg.Nr. 1070
Qualitätsmanagementsystem

BIA

GASWÄRME-INSTITUT E.V. ESSEN
GWI



FROM STANDARD PRODUCT TO BESPOKE SOLUTION.

Our standard catalogue range offers the right coupling system for most application areas. Many of these standard items come from previous special solutions, which we have subsequently integrated into series production. Developing special solutions for particular tasks is one of our strengths – and an advantage that you can use at any time. Our competent specialists will be happy to visit you to establish your specific requirements and wishes. We will then recommend adaptation of one of our standard products or the new design of a bespoke, individual solution for you. Ultimately, we will provide you with a functional system that is exactly suited to your requirements – both technologically and economically. Talk to us! We will be happy to advise you in detail.



Standard

From nominal diameters 1.5 mm to 30 mm – from brass through stainless steel to plastic – various valve and seal types – sophisticated safety systems. Over the decades, we have developed one of the broadest ranges of standard coupling systems, which offer a solution for almost any application and can all be found in this catalogue.



Customised

Moreover, we develop systems designed very specifically for customer requirements. To this end, our experienced designers compile extensive requirement profiles and a functional specification together with the customer, in order to be able to develop the optimum solution. Simply talk to us about it!

SAFETY GUIDE FOR SELECTING AND USING QUICK CONNECT COUPLINGS AND RELATED ACCESSORIES

DANGER: failure or improper selection or improper use of quick connect couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of quick connect couplings or related accessories include but are not limited to:

- Couplings or parts thrown off at high speed
- High velocity fluid discharge
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid
- Dangerously whipping hose
- Explosion or burning of the conveyed fluid
- Contact with conveyed fluids that may be hot, cold, toxic, or otherwise injurious
- Sparking or explosion while paint or flammable liquid spraying

Before selecting or using any Parker RectusTema quick connect couplings or related accessories, it is important that you read and follow the following instructions.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: this catalogue provides instructions for selecting and using (including installing connecting, disconnecting, and maintaining) quick connect couplings and related accessories (including caps, plugs, hoses, blow guns). This safety instruction is a supplement to and is to be used with the specific Parker publications for the specific quick connect couplings and related accessories that are being considered for use.

1.2 Fail-Safe: quick connect couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the quick connect coupling or hose will not endanger persons or property.

1.3 Distribution: provide a copy of this safety guide to each person who is responsible for selecting or using quick connect coupling products. Do not select or use quick connect couplings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User responsibility: due to the wide variety of operating conditions and uses for quick connect couplings, Parker RectusTema and its distributors do not represent or warrant that any particular coupling system is suitable for any specific end use system. This safety instructions do not analyse all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the quick connect couplings.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the quick connect couplings are used.

1.5 Additional questions: call the appropriate Parker customer service department if you have any questions or require any additional information. For the telephone numbers of the appropriate customer service department, see the Parker publication for the product being considered or used.

2.0 SELECTION INSTRUCTIONS

2.1 Pressure: quick connect couplings selection must be made so that the published rated pressure of the coupling is equal to or greater than the maximum system pressure. Pressure surges in the system higher than the rated pressure of the coupling will shorten the quick connect coupling's life. Do not confuse burst pressure or other pressure values with rated pressure and do not use burst pressure or other pressure values for this purpose.

2.2 Fluid compatibility: quick connect couplings selection must assure compatibility of the body and seal materials with the fluid media used. See the fluid compatibility chart.

2.3 Temperature: be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick connect couplings. Use caution and hand protection when connecting or disconnecting quick connect couplings that are heated or cooled by the media they are conducting or by their environment.

2.4 Size: transmission or power by means of pressurised liquid varies with pressure and rate of flow. The size of the quick connect couplings and other components of the system must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.5 Pressurised connection or disconnection: if connecting or disconnecting under pressure is a requirement, use only quick connect couplings designed for that purpose. The rated operating pressure of a quick connect coupling may not be the pressure at which it may be safely connected or disconnected.

2.6 Environment: care must be taken to ensure that quick connect couplings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.



2.7 Locking means: ball locking quick connect couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnection. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnection and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.
2.8 Mechanical loads: external forces can significantly reduce quick connect couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads and vibration. Unusual applications may require special testing prior to quick connect couplings selection.
2.9 Specifications and standards: when selecting quick connect couplings, government, industry and Parker specifications must be reviewed and followed as applicable.
2.10 Vacuum: not all quick connect couplings are suitable or recommended for vacuum service. Quick connect couplings used for vacuum applications must be selected to ensure that the quick connect couplings will withstand the vacuum and pressure of the system.
2.11 Fire resistant fluids: some fire resistant fluids require seals other than the standard NBR (nitrile) used in many coupling systems.
2.12 Radiant heat: quick connect couplings can be heated to destruction or loss of sealing without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick connect couplings.
2.13 Welding and brazing: heating of plated parts, including quick connect couplings and port adapters, above 450 °F (232 °C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

3.0 INSTALLATION INSTRUCTIONS
3.1 Pre-installation inspection: before installing a quick connect coupling, visually inspect it and check for correct style, body material, seal material, and catalogue number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.
3.2 Quick connect coupling halves from other manufacturers: if a quick connect coupling assembly is made up of one Parker RectusTema half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.
3.3 Fitting installation: use a thread sealant, when assembling taper pipe thread joints in quick connect couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick connect coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or a removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.
3.4 Caps and plugs: use dust caps and plugs when quick connect couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.
3.5 Coupling location: locate quick connect couplings where they can be reached for connection or disconnection without exposing the operator to slipping, falling, getting sprayed or coming in contact with hot or moving parts.
3.6 Hose whips: use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.

4.0 MAINTENANCE INSTRUCTIONS
4.1 Even with proper selection and installation, quick connect coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:
4.2 Visual inspection of quick connect couplings: any of the following conditions require immediate shut down and replacement of the quick connect coupling:
• Cracked, damaged, or corroded quick connect couplings parts.
• Leaks at the fitting, valve or mating seal.
• Broken coupling mounting hardware, especially breakaway clamps.
4.3 Visual inspection all other:
• Leaking seals or port connections.
• Excess dirt build-up on the coupling locking means or on the interface area of either coupling half.
• Defective clamps, guards, and shields.
• System fluid level, fluid type and any entrapment.
4.4 Functional test: operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.
4.5 Replacement intervals: specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.

Nominal Diameter

1,5 = 1,8 mm²

Rectus Series

02



Technical Description
Smallest mini industrial coupling for air and gas applications. Primarily in medicine, didactics and model building. Specific application for liquids due to size. Coupling system with single-hand operation. Extremely small dimensions.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

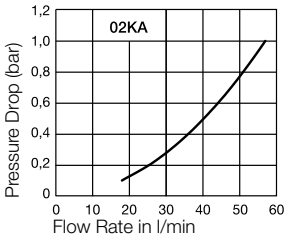
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Brass
Seals: NBR

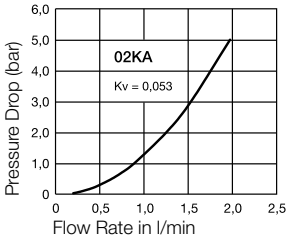
Interchangeability
- Rectus Design

Flow diagrams

Air

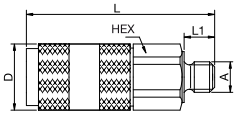
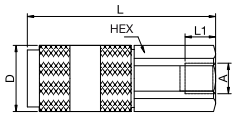
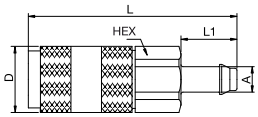
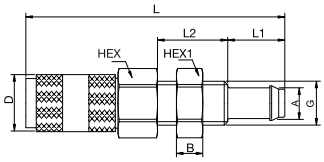


Water



Couplings – with valve

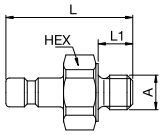
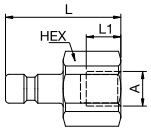
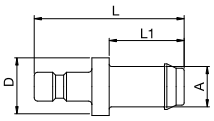
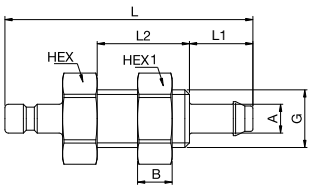
Series 02KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 3	6		19	3		6,5			blank	02KAAM03MPX
	M 3	6		19	3		6,5			nickel plated	02KAAM03MPN
 Female Thread	M 3	6		19	3		6,5			blank	02KAIM03MPX
	M 3	6		19	3		6,5			nickel plated	02KAIM03MPN
 Hose Barb	2 mm	6		21	5,5		6,5			blank	02KATF02MPX
	2 mm	6		21	5,5		6,5			nickel plated	02KATF02MPN
	3 mm	6		22	5,5		6,5			blank	02KATF03MPX
	3 mm	6		22	5,5		6,5			nickel plated	02KATF03MPN
 Panel Mount with Hose Barb	2 mm	7	7	29	5,5	8	6,5	3	M 5	blank	02KATS02MPX
	2 mm	7	7	29	5,5	8	6,5	3	M 5	nickel plated	02KATS02MPN
	3 mm	7	7	30	6,5	8	6,5	3	M 5	blank	02KATS03MPX
	3 mm	7	7	30	6,5	8	6,5	3	M 5	nickel plated	02KATS03MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 02KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 3	6		11	3					blank	02SFAM03MXX
	M 3	6		11	3					nickel plated	02SFAM03MXN
 Female Thread	M 3	6		10	3					blank	02SFIM03MXX
	M 3	6		10	3					nickel plated	02SFIM03MXN
 Hose Barb	2 mm			12	5,5		4			blank	02SFTF02MXX
	2 mm			12	5,5		4			nickel plated	02SFTF02MXN
 Panel Mount with Hose Barb	2 mm	7	7	22	5,5	8		3	M 5	blank	02SFTS02MXX
	2 mm	7	7	22	5,5	8		3	M 5	nickel plated	02SFTS02MXN
	3 mm	7	7	23	6,5	8		3	M 5	blank	02SFTS03MXX
	3 mm	7	7	23	6,5	8		3	M 5	nickel plated	02SFTS03MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

2,5 = 5 mm²

Rectus Series

50



Technical Description
Mini industrial coupling, can be used with various media.
Coupling system with single-hand operation. This system is extremely easy to operate and stands out for its small installation dimensions.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

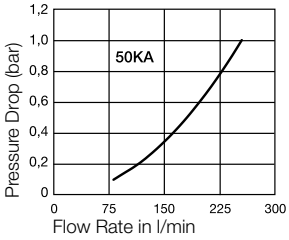
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Brass
Seals: NBR

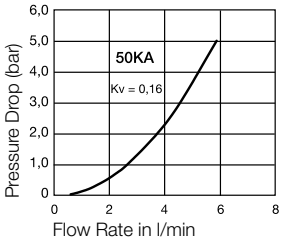
Interchangeability
- Walther LP002

Flow diagrams

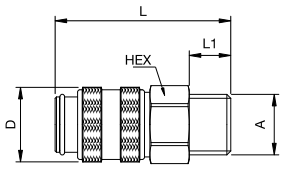
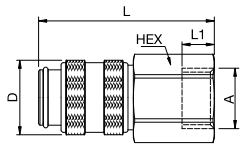
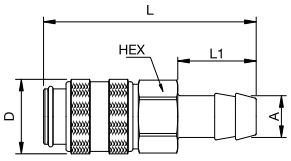
Air



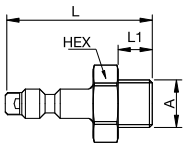
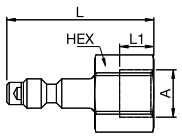
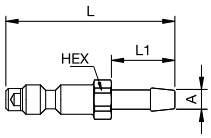
Water



Couplings – with valve — Series 50KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			blank	50KAAW10MPXS
	G 1/8	14		36	7		16			nickel plated	50KAAW10MPNS
	G 1/4	17		38	9		16			blank	50KAAW13MPXS
	G 1/4	17		38	9		16			nickel plated	50KAAW13MPNS
 Female Thread	G 1/8	14		36	9		16			blank	50KAIW10MPXS
	G 1/8	14		36	9		16			nickel plated	50KAIW10MPNS
	G 1/4	17		38	9		16			blank	50KAIW13MPXS
	G 1/4	17		38	9		16			nickel plated	50KAIW13MPNS
 Hose Barb	4 mm	14		46	17		16			blank	50KATF04MPXS
	4 mm	14		46	17		16			nickel plated	50KATF04MPNS
	6 mm	14		46	17		16			blank	50KATF06MPXS
	6 mm	14		46	17		16			nickel plated	50KATF06MPNS

Plugs – without valve — Series 50KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		30	7					blank	50SFAW10MXX
	G 1/8	14		30	7					nickel plated	50SFAW10MXN
 Female Thread	G 1/8	14		30	7					blank	50SFIW10MXX
	G 1/8	14		30	7					nickel plated	50SFIW10MXN
 Hose Barb	4 mm	7		35	13					blank	50SFTF04MXX
	4 mm	7		35	13					nickel plated	50SFTF04MXN
	6 mm	7		35	13					blank	50SFTF06MXX
	6 mm	7		35	13					nickel plated	50SFTF06MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter
2,7 = 6 mm²

Rectus Series
20



Other designs in series 20
The following other designs can be found from page:

➤ Stainless Steel P. 180
➤ Medical Technology (NP) P. 250

Technical Description
Mini industrial coupling with internationally used profile. Frequent use in medical technology and chemistry/pharmacy.
Coupling system with single-hand operation. High flow despite small dimensions plus many applications with a variety of media.

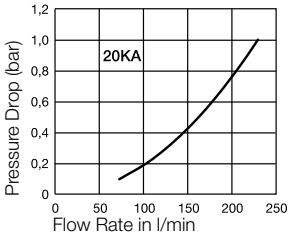
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

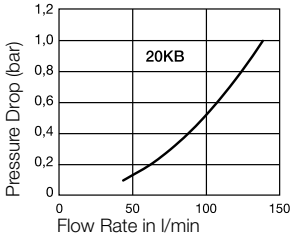
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Features	
	• Low pressure drop
Material	
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR
Interchangeability	
• Walther 06-003	

Flow diagrams

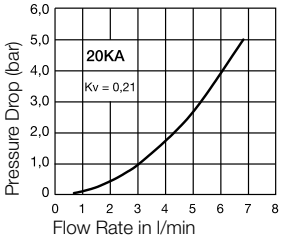
Air



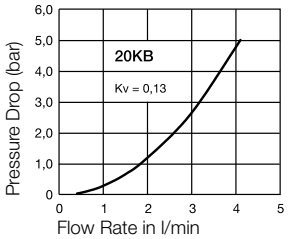
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Water

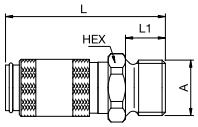
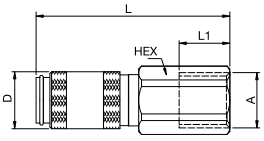
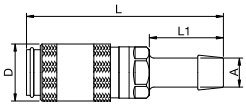
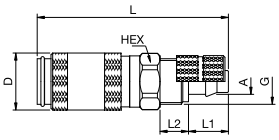
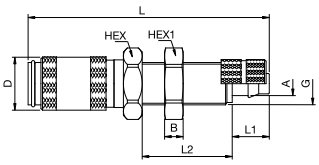
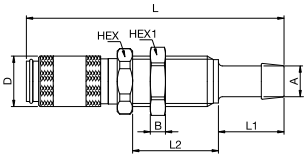
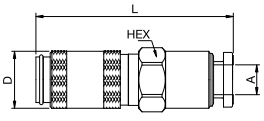


Water



Couplings – with valve

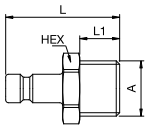
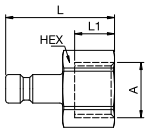
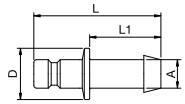
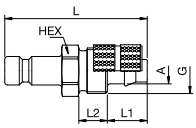
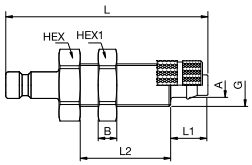
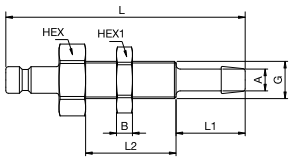
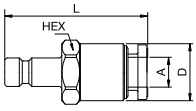
Series 20KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		26	5		10			blank	20KAAM05MPX
	M 5	9		26	5		10			nickel plated	20KAAM05MPN
	G 1/8	11		28	7		10			blank	20KAAW10MPX
	G 1/8	11		28	7		10			nickel plated	20KAAW10MPN
 Female Thread	M 5	9		26	5		10			blank	20KAIM05MPX
	M 5	9		26	5		10			nickel plated	20KAIM05MPN
	G 1/8	12		28	7		10			blank	20KAIW10MPX
	G 1/8	12		28	7		10			nickel plated	20KAIW10MPN
 Hose Barb	3 mm			35	13		10			blank	20KATF03MPX
	3 mm			35	13		10			nickel plated	20KATF03MPN
	4 mm			35	13		10			blank	20KATF04MPX
	4 mm			35	13		10			nickel plated	20KATF04MPN
	5 mm			34	13		10			blank	20KATF05MPX
	5 mm			34	13		10			nickel plated	20KATF05MPN
 with Plastic Hose Connection	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	blank	20KAKO04MPX
	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	nickel plated	20KAKO04MPN
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	blank	20KAKO05MPX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	nickel plated	20KAKO05MPN
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	blank	20KAKO06MPX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	nickel plated	20KAKO06MPN
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	blank	20KAKS04MPX
	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	nickel plated	20KAKS04MPN
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	blank	20KAKS05MPX
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	nickel plated	20KAKS05MPN
	4 x 6 mm	12	11	45	7	12	10	3	M 8 x 0,5	blank	20KAKS06MPX
	4 x 6 mm	12	11	45	7	12	10	3	M 8 x 0,5	nickel plated	20KAKS06MPN
 Panel Mount with Hose Barb	3 mm	12	11	51	13	17	10	3	M 7 x 0,5	blank	20KATS03MPX
	3 mm	12	11	51	13	17	10	3	M 7 x 0,5	nickel plated	20KATS03MPN
	4 mm	12	11	51	13	17	10	3	M 7 x 0,5	blank	20KATS04MPX
	4 mm	12	11	51	13	17	10	3	M 7 x 0,5	nickel plated	20KATS04MPN
	6 mm	12	12	51	13	17	10	3	M 10 x 1	blank	20KATS06MPX
	6 mm	12	12	51	13	17	10	3	M 10 x 1	nickel plated	20KATS06MPN
 Push-In	4 mm	10		35			10			nickel plated	20KARP04MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

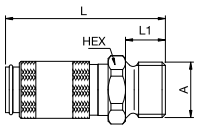
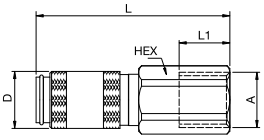
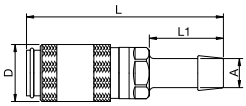
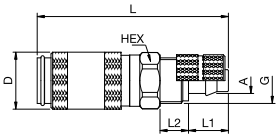
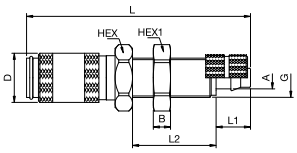
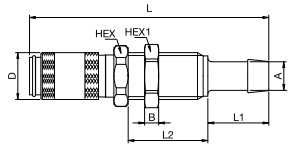
Plugs – without valve

Series 20KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	7		18	5					blank	20SFAM05MXX
	M 5	7		18	5					nickel plated	20SFAM05MXN
	G 1/8	11		20	7					blank	20SFAW10MXX
	G 1/8	11		20	7					nickel plated	20SFAW10MXN
 Female Thread	M 5	7		17	5					blank	20SFIM05MXX
	M 5	7		17	5					nickel plated	20SFIM05MXN
	G 1/8	12		19	7					blank	20SFIW10MXX
	G 1/8	12		19	7					nickel plated	20SFIW10MXN
 Hose Barb	3 mm			24	13		7			blank	20SFTF03MXX
	3 mm			24	13		7			nickel plated	20SFTF03MXN
	4 mm			24	13		7			blank	20SFTF04MXX
	4 mm			24	13		7			nickel plated	20SFTF04MXN
	5 mm			22	13		9			blank	20SFTF05MXX
	5 mm			22	13		9			nickel plated	20SFTF05MXN
 with Plastic Hose Connection	3 x 4 mm	7		25	7	5			M 7 x 0,5	blank	20SFKO04MXX
	3 x 4 mm	7		25	7	5			M 7 x 0,5	nickel plated	20SFKO04MXN
	3 x 5 mm	7		25	7	5			M 7 x 0,5	blank	20SFKO05MXX
	3 x 5 mm	7		25	7	5			M 7 x 0,5	nickel plated	20SFKO05MXN
	4 x 6 mm	8		25	7	5			M 8 x 0,5	blank	20SFKO06MXX
	4 x 6 mm	8		25	7	5			M 8 x 0,5	nickel plated	20SFKO06MXN
 Panel Mount with Plastic Hose Connection	3 x 4 mm	11	11	38	7	17		3	M 7 x 0,5	blank	20SFKS04MXX
	3 x 4 mm	11	11	38	7	17		3	M 7 x 0,5	nickel plated	20SFKS04MXN
	3 x 5 mm	11	11	38	7	17		3	M 7 x 0,5	blank	20SFKS05MXX
	3 x 5 mm	11	11	38	7	17		3	M 7 x 0,5	nickel plated	20SFKS05MXN
	4 x 6 mm	12	12	38	7	17		3	M 8 x 0,5	blank	20SFKS06MXX
	4 x 6 mm	12	12	38	7	17		3	M 8 x 0,5	nickel plated	20SFKS06MXN
 Panel Mount with Hose Barb	3 mm	12	11	45	13	18		3,5	M 7 x 0,5	blank	20SFTS03MXX
	3 mm	12	11	45	13	18		3,5	M 7 x 0,5	nickel plated	20SFTS03MXN
	4 mm	12	11	45	13	17		3	M 7 x 0,5	blank	20SFTS04MXX
	4 mm	12	11	45	13	17		3	M 7 x 0,5	nickel plated	20SFTS04MXN
 Push-In	4 mm	10		35			10			nickel plated	20SFRP04MPN

Couplings – with valve

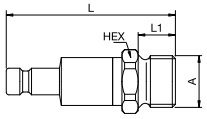
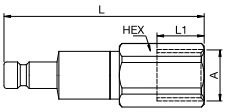
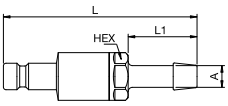
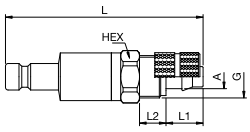
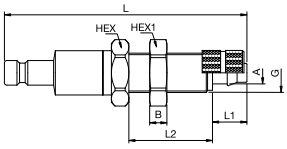
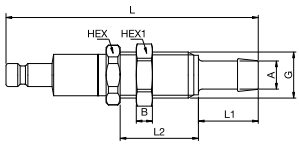
Series 20KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		26	5		10			blank	20KBAM05MPX
	M 5	9		26	5		10			nickel plated	20KBAM05MPN
	G 1/8	11		28	7		10			blank	20KBAW10MPX
	G 1/8	11		28	7		10			nickel plated	20KBAW10MPN
 Female Thread	M 5	9		26	5		10			blank	20KBIM05MPX
	M 5	9		26	5		10			nickel plated	20KBIM05MPN
	G 1/8	12		28	7		10			blank	20KBIW10MPX
	G 1/8	12		28	7		10			nickel plated	20KBIW10MPN
 Hose Barb	3 mm			35	13		10			blank	20KBTF03MPX
	3 mm			35	13		10			nickel plated	20KBTF03MPN
	4 mm			35	13		10			blank	20KBTF04MPX
	4 mm			35	13		10			nickel plated	20KBTF04MPN
	5 mm			34	13		10			blank	20KBTF05MPX
	5 mm			34	13		10			nickel plated	20KBTF05MPN
 with Plastic Hose Connection	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	blank	20KBKO04MPX
	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	nickel plated	20KBKO04MPN
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	blank	20KBKO05MPX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	nickel plated	20KBKO05MPN
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	blank	20KBKO06MPX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	nickel plated	20KBKO06MPN
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	blank	20KBKS04MPX
	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	nickel plated	20KBKS04MPN
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	blank	20KBKS05MPX
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	nickel plated	20KBKS05MPN
	4 x 6 mm	12	12	45	7	17	10	3,5	M 8 x 0,5	blank	20KBKS06MPX
	4 x 6 mm	12	12	45	7	17	10	3,5	M 8 x 0,5	nickel plated	20KBKS06MPN
 Panel Mount with Hose Barb	3 mm	12	11	51	13	17	10	3	M 7 x 0,5	blank	20KBTS03MPX
	3 mm	12	11	51	13	17	10	3	M 7 x 0,5	nickel plated	20KBTS03MPN
	4 mm	12	11	51	13	17	10	3	M 7 x 0,5	blank	20KBTS04MPX
	4 mm	12	11	51	13	17	10	3	M 7 x 0,5	nickel plated	20KBTS04MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 20KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		28	5					blank	20SBAM05MPX
	M 5	9		28	5					nickel plated	20SBAM05MPN
	G 1/8	11		30	7					blank	20SBAW10MPX
	G 1/8	11		30	7					nickel plated	20SBAW10MPN
 Female Thread	M 5	9		26	5					blank	20SBIM05MPX
	M 5	9		26	5					nickel plated	20SBIM05MPN
	G 1/8	12		30	7					blank	20SBIW10MPX
	G 1/8	12		30	7					nickel plated	20SBIW10MPN
 Hose Barb	3 mm	8		36	13					blank	20SBTF03MPX
	3 mm	8		36	13					nickel plated	20SBTF03MPN
	4 mm	8		36	13					blank	20SBTF04MPX
	4 mm	8		36	13					nickel plated	20SBTF04MPN
	5 mm	8		36	13					blank	20SBTF05MPX
	5 mm	8		36	13					nickel plated	20SBTF05MPN
 with Plastic Hose Connection	3 x 4 mm	9		30,5	7	5			M 7 x 0,5	blank	20SBKO04MPX
	3 x 4 mm	9		30,5	7	5			M 7 x 0,5	nickel plated	20SBKO04MPN
	3 x 5 mm	9		30,5	7	5			M 7 x 0,5	blank	20SBKO05MPX
	3 x 5 mm	9		30,5	7	5			M 7 x 0,5	nickel plated	20SBKO05MPN
	4 x 6 mm	9		30,5	7	5			M 8 x 0,5	blank	20SBKO06MPX
	4 x 6 mm	9		30,5	7	5			M 8 x 0,5	nickel plated	20SBKO06MPN
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	46,5	7	17		3	M 7 x 0,5	blank	20SBKS04MPX
	3 x 4 mm	12	11	46,5	7	17		3	M 7 x 0,5	nickel plated	20SBKS04MPN
	3 x 5 mm	12	11	46,5	7	17		3	M 7 x 0,5	blank	20SBKS05MPX
	3 x 5 mm	12	11	46,5	7	17		3	M 7 x 0,5	nickel plated	20SBKS05MPN
	4 x 6 mm	12	12	46,5	7	17		3,5	M 8 x 0,5	blank	20SBKS06MPX
	4 x 6 mm	12	12	46,5	7	17		3,5	M 8 x 0,5	nickel plated	20SBKS06MPN
 Panel Mount with Hose Barb	3 mm	12	11	52,5	13	17		3	M 7 x 0,5	blank	20SBTS03MPX
	3 mm	12	11	52,5	13	17		3	M 7 x 0,5	nickel plated	20SBTS03MPN
	4 mm	12	11	52,5	13	17		3	M 7 x 0,5	blank	20SBTS04MPX
	4 mm	12	11	52,5	13	17		3	M 7 x 0,5	nickel plated	20SBTS04MPN
	6 mm	12	12	46,5	13	17		3	M 10 x 1	blank	20SBTS06MPX
	6 mm	12	12	46,5	13	17		3	M 10 x 1	nickel plated	20SBTS06MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

4 = 12,5 mm²

Rectus Series

204



Other designs in series 204
The following other designs can be found from page:

➤ Stainless Steel P. 190

Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling.
Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KL Leak-Free

Working Pressure**

15 bar
** maximum static working pressure with safety factor 4 to 1.

Material

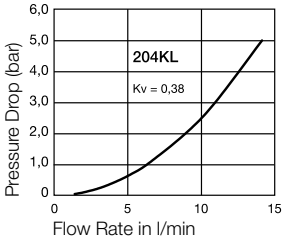
Coupling: Brass nickel plated
Plug: Brass nickel plated
Seals: NBR

Interchangeability

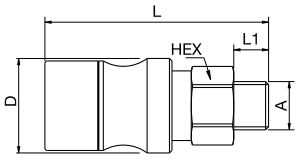
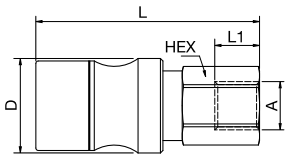
- Rectus Design

Flow diagrams

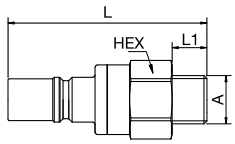
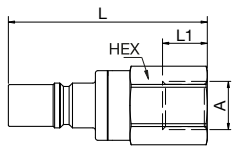
Water



Couplings – flat-sealing — Series 204KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		45	7		19				204KLAW10MPN
	G 1/4	17		47	9		19				204KLAW13MPN
 Female Thread	G 1/8	14		45	9		19				204KLIW10MPN
	G 1/4	17		47	9		19				204KLIW13MPN

Plugs – flat-sealing — Series 204KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		40	7						204SLAW10MPN
	G 1/4	17		42	9						204SLAW13MPN
 Female Thread	G 1/8	14		40	9						204SLIW10MPN
	G 1/4	17		42	7						204SLIW13MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

17



Technical Description
Brass/steel industrial coupling with English profile specifically suited to compressed air applications in industry.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Versatile due to slim design and light weight.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

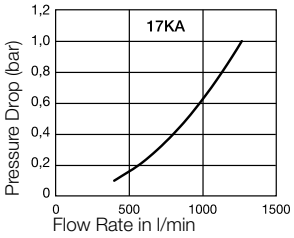
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

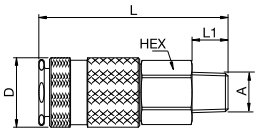
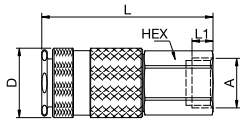
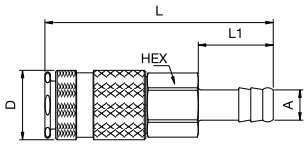
Material
Coupling: Brass nickel plated, Steel zinc plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- Schrader DN 5

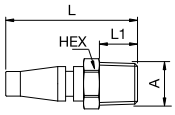
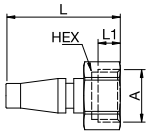
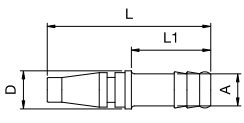
Flow diagrams
Air



Couplings – with valve — Series 17KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		63	12		23				17KAAK13SPN
	R 3/8	19		62	12		23				17KAAK17SPN
	R 1/2	22		63	17		23				17KAAK21SPN
 Female Thread	G 1/4	19		58	9		23				17KAIW13SPN
	G 3/8	19		57	9		23				17KAIW17SPN
	G 1/2	24		60	12		23				17KAIW21SPN
 Hose Barb	6 mm	19		76	25		23				17KATF06SPN
	8 mm	19		76	25		23				17KATF08SPN
	10 mm	19		76	25		23				17KATF10SPN
	13 mm	19		76	25		23				17KATF13SPN

Plugs – without valve — Series 17KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	11		37	9						17SFAK10SXN
	R 1/4	14		42	12						17SFAK13SXN
 Female Thread	G 1/8	14		33	7						17SFIW10SXN
	G 1/4	17		36	9						17SFIW13SXN
 Hose Barb	6 mm			58	25		12				17SFTF06SXN
	8 mm			52	25		12				17SFTF08SXN
	10 mm			52	25		12				17SFTF10SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

21



Technical Description
Mini industrial coupling with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media. Coupling system with single-hand operation. Small dimensions and large band width in materials and valve variants.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK16S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

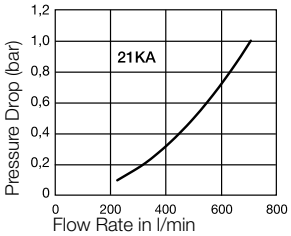
Other designs in series 21
The following other designs can be found from page:

- ➤ Stainless Steel P. 192
- ➤ Thermoplastic P. 232
- ➤ Medical Technology (MD) P. 256
- ➤ Safety P. 270
- ➤ Coded Systems P. 298

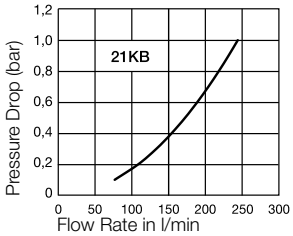
KA Single Shut-Off	KB Double Shut-Off	KL Leak-Free
Working Pressure**		
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar	8 bar
Features		
		• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material		
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR
Interchangeability		
• Rectus 90 • Camozzi • Ewo • Kani		

Flow diagrams

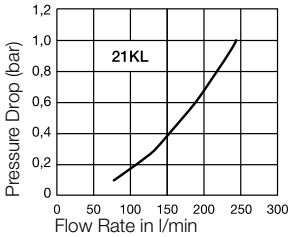
Air



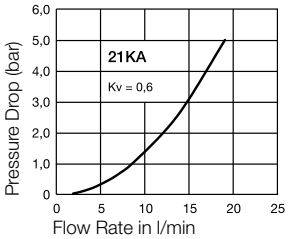
Air



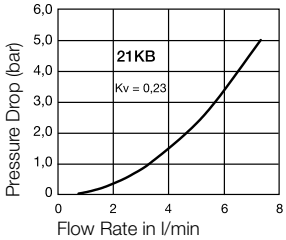
Air



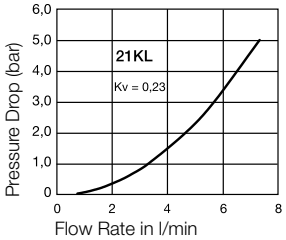
Water



Water

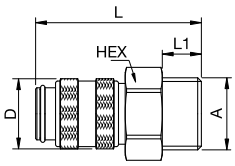
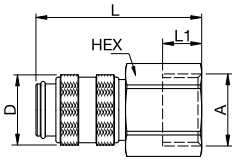
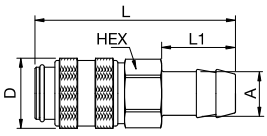
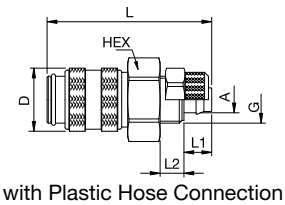


Water



Couplings – with valve

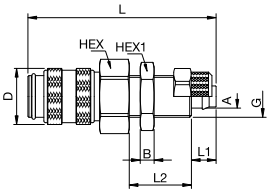
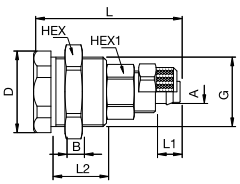
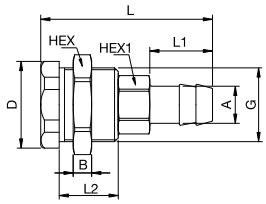
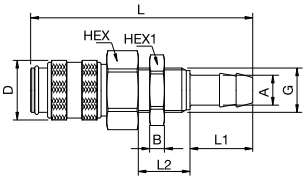
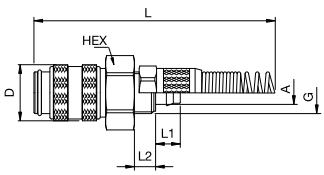
Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			blank	21KAAW10MPX
	G 1/8	14		36	7		16			nickel plated	21KAAW10MPN
	G 1/4	17		38	9		16			blank	21KAAW13MPX
	G 1/4	17		38	9		16			nickel plated	21KAAW13MPN
	G 3/8	19		38	9		16			blank	21KAAW17MPX
	G 3/8	19		38	9		16			nickel plated	21KAAW17MPN
	M 12 x 1,5	17		39	10		16			blank	21KAAD12MPX
	M 12 x 1,5	17		39	10		16			nickel plated	21KAAD12MPN
	M 14 x 1,5	17		39	10		16			blank	21KAAD14MPX
	M 14 x 1,5	17		39	10		16			nickel plated	21KAAD14MPN
 Female Thread	G 1/8	14		36	9		16			blank	21KAIW10MPX
	G 1/8	14		36	9		16			nickel plated	21KAIW10MPN
	G 1/4	17		38	9		16			blank	21KAIW13MPX
	G 1/4	17		38	9		16			nickel plated	21KAIW13MPN
	G 3/8	19		38	9		16			blank	21KAIW17MPX
	G 3/8	19		38	9		16			nickel plated	21KAIW17MPN
	M 12 x 1,5	17		38	6		16			blank	21KAIM12MPX
	M 12 x 1,5	17		38	6		16			nickel plated	21KAIM12MPN
	M 14 x 1,5	17		38	6		16			blank	21KAIM14MPX
	M 14 x 1,5	17		38	6		16			nickel plated	21KAIM14MPN
	4 mm	14		46	17		16			blank	21KATF04MPX
	4 mm	14		46	17		16			nickel plated	21KATF04MPN
	6 mm	14		46	17		16			blank	21KATF06MPX
	6 mm	14		46	17		16			nickel plated	21KATF06MPN
	8 mm	14		46	17		16			blank	21KATF08MPX
	8 mm	14		46	17		16			nickel plated	21KATF08MPN
	9 mm	14		46	17		16			blank	21KATF09MPX
	9 mm	14		46	17		16			nickel plated	21KATF09MPN
	10 mm	14		46	17		16			blank	21KATF10MPX
	10 mm	14		46	17		16			nickel plated	21KATF10MPN
 Hose Barb	6 mm Parker	14		50	20		16			blank	21KATP06MPX
	6 mm Parker	14		50	20		16			nickel plated	21KATP06MPN
	4 x 6 mm	14		42	7	6	16		M 10 x 1	blank	21KAKO06MPX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	nickel plated	21KAKO06MPN
	6 x 8 mm	14		42	7	6	16		M 12 x 1	blank	21KAKO08MPX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	nickel plated	21KAKO08MPN
 with Plastic Hose Connection											

⚠ Please consider our security advices on the pages 12/13 ⚠

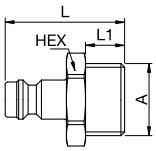
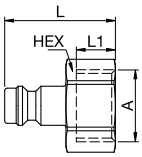
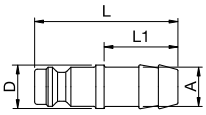
Couplings – with valve

Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	12	54	7	18	16	3	M 10 x 1	blank	21KAKS06MPX
	4 x 6 mm	14	12	54	7	18	16	3	M 10 x 1	nickel plated	21KAKS06MPN
	6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	blank	21KAKS08MPX
	6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	nickel plated	21KAKS08MPN
 Panel Mount for Plastic Hose Connection for Front Panel Installation	4 x 6 mm	22	24	42	7	16	24	5	M 20 x 1	blank	21KAKE06MPX
	4 x 6 mm	22	24	42	7	16	24	5	M 20 x 1	nickel plated	21KAKE06MPN
	6 x 8 mm	22	24	42	7	16	24	5	M 20 x 1	blank	21KAKE08MPX
	6 x 8 mm	22	24	42	7	16	24	5	M 20 x 1	nickel plated	21KAKE08MPN
 Panel Mount for Hose Barb for Front Panel Installation	4 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KATE04MPX
	4 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KATE04MPN
	6 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KATE06MPX
	6 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KATE06MPN
	8 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KATE08MPX
	8 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KATE08MPN
	9 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KATE09MPX
	9 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KATE09MPN
	10 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KATE10MPX
	10 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KATE10MPN
 Panel Mount with Hose Barb	4 mm	12	12	60	17	14	16	4	M 10 x 1	blank	21KATS04MPX
	4 mm	12	12	60	17	14	16	4	M 10 x 1	nickel plated	21KATS04MPN
	5 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KATS05MPX
	5 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KATS05MPN
	6 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KATS06MPX
	6 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KATS06MPN
	8 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KATS08MPX
	8 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KATS08MPN
	9 mm	17	19	60	17	14	16	4	M 14 x 1	blank	21KATS09MPX
	9 mm	17	19	60	17	14	16	4	M 14 x 1	nickel plated	21KATS09MPN
	10 mm	17	19	60	17	14	16	4	M 14 x 1	blank	21KATS10MPX
	10 mm	17	19	60	17	14	16	4	M 14 x 1	nickel plated	21KATS10MPN
 Plastic Hose Connection with Spring Guard	4 x 6 mm	14		125	7	6	16		M 10 x 1	blank	21KAKK06MPX
	4 x 6 mm	14		125	7	6	16		M 10 x 1	nickel plated	21KAKK06MPN
	6 x 8 mm	14		130	7	6	16		M 10 x 1	blank	21KAKK08MPX
	6 x 8 mm	14		130	7	6	16		M 10 x 1	nickel plated	21KAKK08MPN

Plugs – without valve

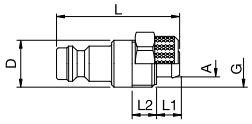
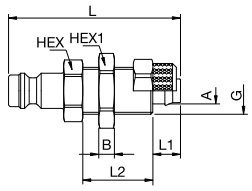
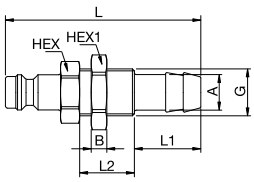
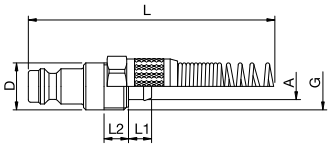
Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		25	7					blank	21SFAW10MXX
	G 1/8	14		25	7					nickel plated	21SFAW10MXN
	G 1/4	17		28	9					blank	21SFAW13MXX
	G 1/4	17		28	9					nickel plated	21SFAW13MXN
	G 3/8	17		28	9					blank	21SFAW17MXX
	G 3/8	17		28	9					nickel plated	21SFAW17MXN
	M 10 x 1	14		26	8					blank	21SFAD10MXX
	M 10 x 1	14		26	8					nickel plated	21SFAD10MXN
	M 12 x 1,5	17		28	10					blank	21SFAD12MXX
	M 12 x 1,5	17		28	10					nickel plated	21SFAD12MXN
	M 14 x 1,5	17		28	10					blank	21SFAD14MXX
	M 14 x 1,5	17		28	10					nickel plated	21SFAD14MXN
 Female Thread	G 1/8	14		25	8					blank	21SFIW10MXX
	G 1/8	14		25	8					nickel plated	21SFIW10MXN
	G 1/4	17		25	9					blank	21SFIW13MXX
	G 1/4	17		25	9					nickel plated	21SFIW13MXN
	G 3/8	19		26	9					blank	21SFIW17MXX
	G 3/8	19		26	9					nickel plated	21SFIW17MXN
	M 10 x 1	14		26	9					blank	21SFIM10MXX
	M 10 x 1	14		26	9					nickel plated	21SFIM10MXN
	M 12 x 1,5	17		27	10					blank	21SFIM12MXX
	M 12 x 1,5	17		27	10					nickel plated	21SFIM12MXN
	M 14 x 1,5	17		27	10					blank	21SFIM14MXX
	M 14 x 1,5	17		27	10					nickel plated	21SFIM14MXN
 Hose Barb	4 mm			32	17		9			blank	21SFTF04MXX
	4 mm			32	17		9			nickel plated	21SFTF04MXN
	5 mm			32	17		9			blank	21SFTF05MXX
	5 mm			32	17		9			nickel plated	21SFTF05MXN
	6 mm			32	17		9			blank	21SFTF06MXX
	6 mm			32	17		9			nickel plated	21SFTF06MXN
	8 mm			32	17		9			blank	21SFTF08MXX
	8 mm			32	17		9			nickel plated	21SFTF08MXN
	9 mm			33	17		10			blank	21SFTF09MXX
	9 mm			33	17		10			nickel plated	21SFTF09MXN
	10 mm			33	17		12			blank	21SFTF10MXX
	10 mm			33	17		12			nickel plated	21SFTF10MXN
	6 mm Parker			36	20		16			blank	21SFTP06MXX
	6 mm Parker			36	20		16			nickel plated	21SFTP06MXN

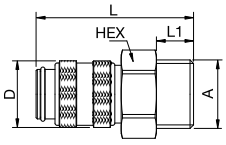
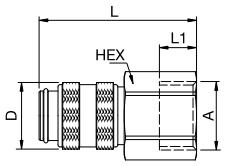
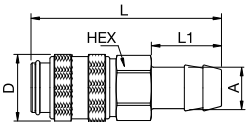
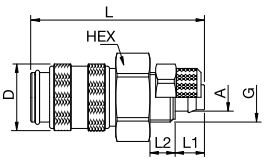
⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 with Plastic Hose Connection	4 x 6 mm			32	6	6	10		M 10 x 1	blank	21SFKO06MXX
	4 x 6 mm			32	6	6	10		M 10 x 1	nickel plated	21SFKO06MXN
	6 x 8 mm			32	6	6	12		M 12 x 1	blank	21SFKO08MXX
	6 x 8 mm			32	6	6	12		M 12 x 1	nickel plated	21SFKO08MXN
	8 x 10 mm	17		36	9	8			M 16 x 1	blank	21SFKO10MXX
	8 x 10 mm	17		36	9	8			M 16 x 1	nickel plated	21SFKO10MXN
	8 x 12 mm	17		36	9	8			M 16 x 1	blank	21SFKO12MXXS
	8 x 12 mm	17		36	9	8			M 16 x 1	nickel plated	21SFKO12MXNS
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	12	43	7	18		3	M 10 x 1	blank	21SFKS06MXX
	4 x 6 mm	14	12	43	7	18		3	M 10 x 1	nickel plated	21SFKS06MXN
	6 x 8 mm	14	17	44	7	18		4	M 12 x 1	blank	21SFKS08MXX
	6 x 8 mm	14	17	44	7	18		4	M 12 x 1	nickel plated	21SFKS08MXN
 Panel Mount with Hose Barb	4 mm	14	14	50	17	14		4	M 10 x 1	blank	21SFTS04MXX
	4 mm	14	14	50	17	14		4	M 10 x 1	nickel plated	21SFTS04MXN
	5 mm	14	17	50	17	14		4	M 12 x 1	blank	21SFTS05MXX
	5 mm	14	17	50	17	14		4	M 12 x 1	nickel plated	21SFTS05MXN
	6 mm	14	17	50	17	14		4	M 12 x 1	blank	21SFTS06MXX
	6 mm	14	17	50	17	14		4	M 12 x 1	nickel plated	21SFTS06MXN
	8 mm	14	17	50	17	14		4	M 12 x 1	blank	21SFTS08MXX
	8 mm	14	17	50	17	14		4	M 12 x 1	nickel plated	21SFTS08MXN
	9 mm	14	17	50	17	14		4	M 12 x 1	blank	21SFTS09MXX
	9 mm	14	17	50	17	14		4	M 12 x 1	nickel plated	21SFTS09MXN
	10 mm	17	19	50	17	14		4	M 14 x 1	blank	21SFTS10MXX
	10 mm	17	19	50	17	14		4	M 14 x 1	nickel plated	21SFTS10MXN
 Plastic Hose Connection with Spring Guard	4 x 6 mm			115	6	6	10		M 10 x 1	blank	21SFKK06MXX
	4 x 6 mm			115	6	6	10		M 10 x 1	nickel plated	21SFKK06MXN
	6 x 8 mm			120	6	6	12		M 12 x 1	blank	21SFKK08MXX
	6 x 8 mm			120	6	6	12		M 12 x 1	nickel plated	21SFKK08MXN

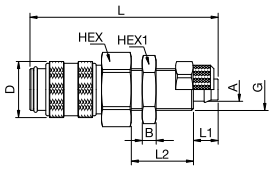
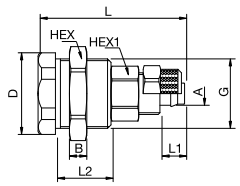
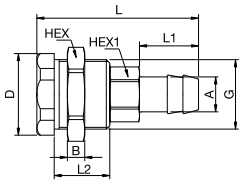
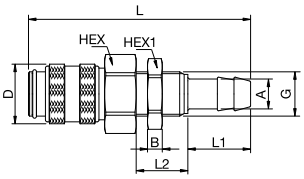
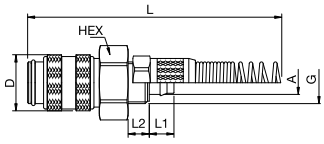
Couplings – with valve

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			blank	21KBAW10MPX
	G 1/8	14		36	7		16			nickel plated	21KBAW10MPN
	G 1/4	17		38	9		16			blank	21KBAW13MPX
	G 1/4	17		38	9		16			nickel plated	21KBAW13MPN
	G 3/8	19		38	9		16			blank	21KBAW17MPX
	G 3/8	19		38	9		16			nickel plated	21KBAW17MPN
	M 10 x 1	14		37	8		16			blank	21KBAD10MPX
	M 10 x 1	14		37	8		16			nickel plated	21KBAD10MPN
	M 12 x 1,5	17		39	10		16			blank	21KBAD12MPX
	M 12 x 1,5	17		39	10		16			nickel plated	21KBAD12MPN
	M 14 x 1,5	17		39	10		16			blank	21KBAD14MPX
	M 14 x 1,5	17		39	10		16			nickel plated	21KBAD14MPN
 Female Thread	G 1/8	14		36	9		16			blank	21KBIW10MPX
	G 1/8	14		36	9		16			nickel plated	21KBIW10MPN
	G 1/4	17		38	9		16			blank	21KBIW13MPX
	G 1/4	17		38	9		16			nickel plated	21KBIW13MPN
	G 3/8	19		38	9		16			blank	21KBIW17MPX
	G 3/8	19		38	9		16			nickel plated	21KBIW17MPN
	M 12 x 1,5	17		38	6		16			blank	21KBIM12MPX
	M 12 x 1,5	17		38	6		16			nickel plated	21KBIM12MPN
 Hose Barb	4 mm	14		46	17		16			blank	21KBTF04MPX
	4 mm	14		46	17		16			nickel plated	21KBTF04MPN
	5 mm	14		46	17		16			blank	21KBTF05MPX
	5 mm	14		46	17		16			nickel plated	21KBTF05MPN
	6 mm	14		46	17		16			blank	21KBTF06MPX
	6 mm	14		46	17		16			nickel plated	21KBTF06MPN
	8 mm	14		46	17		16			blank	21KBTF08MPX
	8 mm	14		46	17		16			nickel plated	21KBTF08MPN
	9 mm	14		46	17		16			blank	21KBTF09MPX
	9 mm	14		46	17		16			nickel plated	21KBTF09MPN
	10 mm	14		46	17		16			blank	21KBTF10MPX
	10 mm	14		46	17		16			nickel plated	21KBTF10MPN
	6 mm Parker	14		46	17		16			blank	21KBTP06MPX
	6 mm Parker	14		46	17		16			nickel plated	21KBTP06MPN
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	blank	21KBKO06MPX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	nickel plated	21KBKO06MPN
	6 x 8 mm	14		42	7	6	16		M 12 x 1	blank	21KBKO08MPX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	nickel plated	21KBKO08MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

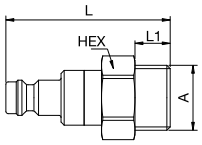
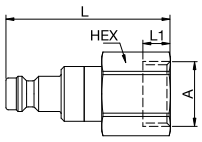
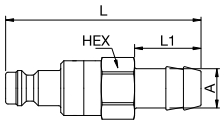
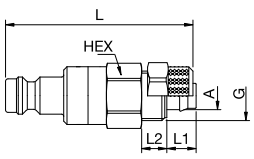
Couplings – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	blank	21KBKS06MPX
	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	nickel plated	21KBKS06MPN
	6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	blank	21KBKS08MPX
	6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	nickel plated	21KBKS08MPN
 Panel Mount for Plastic Hose Connection for Front Panel Installation	4 x 6 mm	22	24	42	7	16	24	5	M 20 x 1	blank	21KBKE06MPX
	4 x 6 mm	22	24	42	7	16	24	5	M 20 x 1	nickel plated	21KBKE06MPN
	6 x 8 mm	22	24	42	7	16	24	5	M 20 x 1	blank	21KBKE08MPX
	6 x 8 mm	22	24	42	7	16	24	5	M 20 x 1	nickel plated	21KBKE08MPN
 Panel Mount for Hose Barb for Front Panel Installation	4 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KBTE04MPX
	4 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KBTE04MPN
	6 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KBTE06MPX
	6 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KBTE06MPN
	9 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KBTE09MPX
	9 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KBTE09MPN
	10 mm	22	24	46	17	16	24	5	M 20 x 1	blank	21KBTE10MPX
	10 mm	22	24	46	17	16	24	5	M 20 x 1	nickel plated	21KBTE10MPN
 Panel Mount with Hose Barb	4 mm	14	14	60	17	14	16	4	M 10 x 1	blank	21KBTS04MPX
	4 mm	14	14	60	17	14	16	4	M 10 x 1	nickel plated	21KBTS04MPN
	5 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KBTS05MPX
	5 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KBTS05MPN
	6 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KBTS06MPX
	6 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KBTS06MPN
	8 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KBTS08MPX
	8 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KBTS08MPN
	9 mm	17	19	60	17	14	16	4	M 12 x 1	blank	21KBTS09MPX
	9 mm	17	19	60	17	14	16	4	M 12 x 1	nickel plated	21KBTS09MPN
 Plastic Hose Connection with Spring Guard	4 x 6 mm	14		125	7	6	16		M 10 x 1	blank	21KBKK06MPX
	4 x 6 mm	14		125	7	6	16		M 10 x 1	nickel plated	21KBKK06MPN
	6 x 8 mm	14		130	7	6	16		M 10 x 1	blank	21KBKK08MPX
	6 x 8 mm	14		130	7	6	16		M 10 x 1	nickel plated	21KBKK08MPN

Plugs – with valve

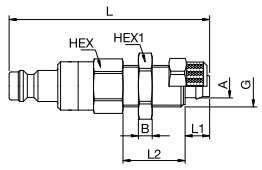
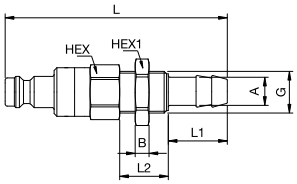
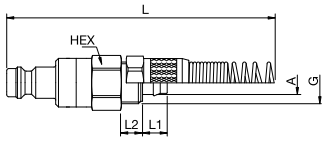
Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		40	7					blank	21SBAW10MPX
	G 1/8	14		40	7					nickel plated	21SBAW10MPN
	G 1/4	17		42	9					blank	21SBAW13MPX
	G 1/4	17		42	9					nickel plated	21SBAW13MPN
	G 3/8	19		42	9					blank	21SBAW17MPX
	G 3/8	19		42	9					nickel plated	21SBAW17MPN
	M 10 x 1	14		41	8					blank	21SBAD10MPX
	M 10 x 1	14		41	8					nickel plated	21SBAD10MPN
	M 12 x 1,5	17		43	10					blank	21SBAD12MPX
	M 12 x 1,5	17		43	10					nickel plated	21SBAD12MPN
	M 14 x 1,5	17		43	10					blank	21SBAD14MPX
	M 14 x 1,5	17		43	10					nickel plated	21SBAD14MPN
 Female Thread	G 1/8	14		40	7					blank	21SBIW10MPX
	G 1/8	14		40	7					nickel plated	21SBIW10MPN
	G 1/4	17		42	7					blank	21SBIW13MPX
	G 1/4	17		42	7					nickel plated	21SBIW13MPN
	G 3/8	19		42	7					blank	21SBIW17MPX
	G 3/8	19		42	7					nickel plated	21SBIW17MPN
	M 12 x 1,5	17		42	7					blank	21SBIM12MPX
	M 12 x 1,5	17		42	7					nickel plated	21SBIM12MPN
	M 14 x 1,5	17		42	7					blank	21SBIM14MPX
	M 14 x 1,5	17		42	7					nickel plated	21SBIM14MPN
 Hose Barb	4 mm	14		50	17					blank	21SBTF04MPX
	4 mm	14		50	17					nickel plated	21SBTF04MPN
	5 mm	14		50	17					blank	21SBTF05MPX
	5 mm	14		50	17					nickel plated	21SBTF05MPN
	6 mm	14		50	17					blank	21SBTF06MPX
	6 mm	14		50	17					nickel plated	21SBTF06MPN
	8 mm	14		50	17					blank	21SBTF08MPX
	8 mm	14		50	17					nickel plated	21SBTF08MPN
	9 mm	14		50	17					blank	21SBTF09MPX
	9 mm	14		50	17					nickel plated	21SBTF09MPN
	10 mm	14		50	17					blank	21SBTF10MPX
	10 mm	14		50	17					nickel plated	21SBTF10MPN
	6 mm Parker	14		54	20					blank	21SBTP06MPX
	6 mm Parker	14		54	20					nickel plated	21SBTP06MPN
 with Plastic Hose Connection	4 x 6 mm	14		46	7	6			M 10 x 1	blank	21SBKO06MPX
	4 x 6 mm	14		46	7	6			M 10 x 1	nickel plated	21SBKO06MPN
	6 x 8 mm	14		46	7	6			M 12 x 1	blank	21SBKO08MPX
	6 x 8 mm	14		46	7	6			M 12 x 1	nickel plated	21SBKO08MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

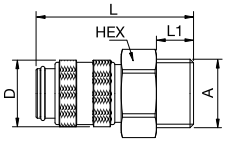
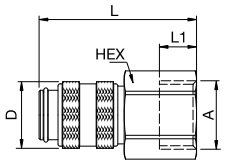
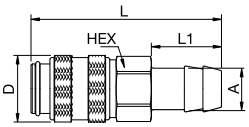
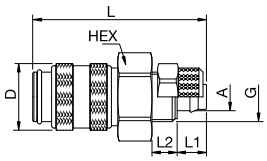
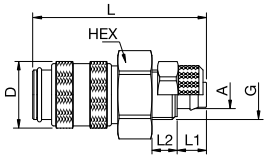
Plugs – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	12	58	7	18		3	M 10 x 1	blank	21SBKS06MPX
	4 x 6 mm	14	12	58	7	18		3	M 10 x 1	nickel plated	21SBKS06MPN
	6 x 8 mm	17	17	58	7	18		4	M 12 x 1	blank	21SBKS08MPX
	6 x 8 mm	17	17	58	7	18		4	M 12 x 1	nickel plated	21SBKS08MPN
 Panel Mount with Hose Barb	4 mm	14	14	64	17	14		4	M 10 x 1	blank	21SBTS04MPX
	4 mm	14	14	64	17	14		4	M 10 x 1	nickel plated	21SBTS04MPN
	6 mm	14	17	64	17	14		4	M 12 x 1	blank	21SBTS06MPX
	6 mm	14	17	64	17	14		4	M 12 x 1	nickel plated	21SBTS06MPN
	8 mm	14	17	64	17	14		4	M 12 x 1	blank	21SBTS08MPX
	8 mm	14	17	64	17	14		4	M 12 x 1	nickel plated	21SBTS08MPN
	10 mm	14	19	64	17	14		4	M 14 x 1	blank	21SBTS10MPX
	10 mm	14	19	64	17	14		4	M 14 x 1	nickel plated	21SBTS10MPN
 Plastic Hose Connection with Spring Guard	4 x 6 mm	14		130	7	6			M 10 x 1	blank	21SBKK06MPX
	4 x 6 mm	14		130	7	6			M 10 x 1	nickel plated	21SBKK06MPN
	6 x 8 mm	14		135	7	6			M 12 x 1	blank	21SBKK08MPX
	6 x 8 mm	14		135	7	6			M 12 x 1	nickel plated	21SBKK08MPN

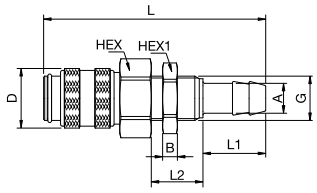
Couplings – flat-sealing

Series 21KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			blank	21KLAW10MPX
	G 1/8	14		36	7		16			nickel plated	21KLAW10MPN
	G 1/4	17		38	9		16			blank	21KLAW13MPX
	G 1/4	17		38	9		16			nickel plated	21KLAW13MPN
	G 3/8	19		38	9		16			blank	21KLAW17MPX
	G 3/8	19		38	9		16			nickel plated	21KLAW17MPN
 Female Thread	G 1/8	14		36	9		16			blank	21KLIW10MPX
	G 1/8	14		36	9		16			nickel plated	21KLIW10MPN
	G 1/4	17		38	9		16			blank	21KLIW13MPX
	G 1/4	17		38	9		16			nickel plated	21KLIW13MPN
	G 3/8	19		38	9		16			blank	21KLIW17MPX
	G 3/8	19		38	9		16			nickel plated	21KLIW17MPN
	M 14 x 1,5	17		38	6		16			blank	21KLIM14MPX
	M 14 x 1,5	17		38	6		16			nickel plated	21KLIM14MPN
 Hose Barb	4 mm	14		46	17		16			blank	21KLTF04MPX
	4 mm	14		46	17		16			nickel plated	21KLTF04MPN
	6 mm	14		46	17		16			blank	21KLTF06MPX
	6 mm	14		46	17		16			nickel plated	21KLTF06MPN
	8 mm	14		46	17		16			blank	21KLTF08MPX
	8 mm	14		46	17		16			nickel plated	21KLTF08MPN
	9 mm	14		46	17		16			blank	21KLTF09MPX
	9 mm	14		46	17		16			nickel plated	21KLTF09MPN
	10 mm	14		46	17		16			blank	21KLTF10MPX
	10 mm	14		46	17		16			nickel plated	21KLTF10MPN
	6 mm Parker	14		46	17		16			blank	21KLTP06MPX
	6 mm Parker	14		46	17		16			nickel plated	21KLTP06MPN
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	blank	21KLKO06MPX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	nickel plated	21KLKO06MPN
	6 x 8 mm	14		42	7	6	16		M 12 x 1	blank	21KLKO08MPX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	nickel plated	21KLKO08MPN
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	54	7	18	16		M 10 x 1	blank	21KLKS06MPX
	4 x 6 mm	14	14	54	7	18	16		M 10 x 1	nickel plated	21KLKS06MPN
	6 x 8 mm	17	17	54	7	18	16		M 12 x 1	blank	21KLKS08MPX
	6 x 8 mm	17	17	54	7	18	16		M 12 x 1	nickel plated	21KLKS08MPN

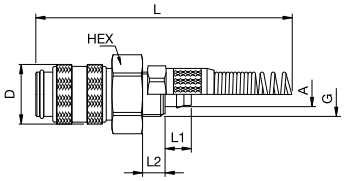
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – flat-sealing — Series 21KL



Panel Mount with Hose Barb

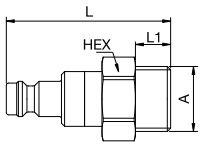
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
4 mm	14	14	60	17	14	16	4	M 10 x 1	blank	21KLTS04MPX
4 mm	14	14	60	17	14	16	4	M 10 x 1	nickel plated	21KLTS04MPN
5 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KLTS05MPX
5 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KLTS05MPN
6 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KLTS06MPX
6 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KLTS06MPN
8 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KLTS08MPX
8 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KLTS08MPN



Plastic Hose Connection with Spring Guard

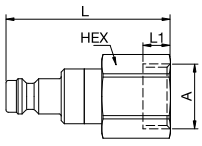
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
4 x 6 mm	14		125	7	6	16		M 10 x 1	blank	21KLKK06MPX
4 x 6 mm	14		125	7	6	16		M 10 x 1	nickel plated	21KLKK06MPN
6 x 8 mm	14		130	7	6	16		M 10 x 1	blank	21KLKK08MPX
6 x 8 mm	14		130	7	6	16		M 10 x 1	nickel plated	21KLKK08MPN

Plugs – flat-sealing — Series 21KL



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		40	7					blank	21SLAW10MPX
G 1/8	14		40	7					nickel plated	21SLAW10MPN
G 1/4	17		42	9					blank	21SLAW13MPX
G 1/4	17		42	9					nickel plated	21SLAW13MPN
M 12 x 1,5	17		43	10					blank	21SLAD12MPX
M 12 x 1,5	17		43	10					nickel plated	21SLAD12MPN

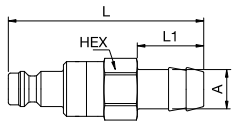
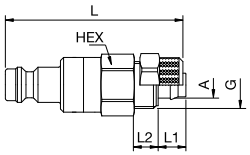
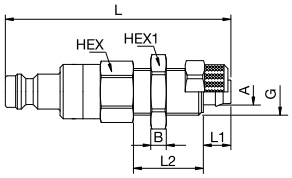
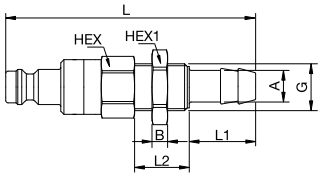
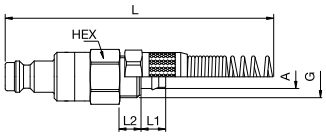


Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		40	7					blank	21SLIW10MPX
G 1/8	14		40	7					nickel plated	21SLIW10MPN
G 1/4	17		42	7					blank	21SLIW13MPX
G 1/4	17		42	7					nickel plated	21SLIW13MPN
G 3/8	19		42	7					blank	21SLIW17MPX
G 3/8	19		42	7					nickel plated	21SLIW17MPN
M 12 x 1,5	17		42	7					blank	21SLIM12MPX
M 12 x 1,5	17		42	7					nickel plated	21SLIM12MPN
M 14 x 1,5	17		42	7					blank	21SLIM14MPX
M 14 x 1,5	17		42	7					nickel plated	21SLIM14MPN

Plugs – flat-sealing

Series 21KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Hose Barb	4 mm	14		50	17					blank	21SLTF04MPX
	4 mm	14		50	17					nickel plated	21SLTF04MPN
	6 mm	14		50	17					blank	21SLTF06MPX
	6 mm	14		50	17					nickel plated	21SLTF06MPN
	8 mm	14		50	17					blank	21SLTF08MPX
	8 mm	14		50	17					nickel plated	21SLTF08MPN
	9 mm	14		50	17					blank	21SLTF09MPX
	9 mm	14		50	17					nickel plated	21SLTF09MPN
	10 mm	14		50	17					blank	21SLTF10MPX
	10 mm	14		50	17					nickel plated	21SLTF10MPN
	6 mm Parker	14		54	20					blank	21SLTP06MPX
	6 mm Parker	14		54	20					nickel plated	21SLTP06MPN
 with Plastic Hose Connection	4 x 6 mm	14		46	7	6			M 10 x 1	blank	21SLKO06MPX
	4 x 6 mm	14		46	7	6			M 10 x 1	nickel plated	21SLKO06MPN
	6 x 8 mm	14		46	7	6			M 12 x 1	blank	21SLKO08MPX
	6 x 8 mm	14		46	7	6			M 12 x 1	nickel plated	21SLKO08MPN
 Panel Mount with Plastic Hose Connection	6 x 8 mm	14	17	58	7	18		4	M 12 x 1	blank	21SLKS08MPX
	6 x 8 mm	14	17	58	7	18		4	M 12 x 1	nickel plated	21SLKS08MPN
 Panel Mount with Hose Barb	4 mm	14	14	64	17	14		4	M 10 x 1	blank	21SLTS04MPX
	4 mm	14	14	64	17	14		4	M 10 x 1	nickel plated	21SLTS04MPN
	5 mm	14	14	64	17	14		4	M 12 x 1	blank	21SLTS05MPX
	5 mm	14	14	64	17	14		4	M 12 x 1	nickel plated	21SLTS05MPN
	6 mm	14	17	64	17	14		4	M 12 x 1	blank	21SLTS06MPX
	6 mm	14	17	64	17	14		4	M 12 x 1	nickel plated	21SLTS06MPN
	10 mm	14	19	64	17	14		4	M 14 x 1	blank	21SLTS10MPX
	10 mm	14	19	64	17	14		4	M 14 x 1	nickel plated	21SLTS10MPN
 Plastic Hose Connection with Spring Guard	4 x 6 mm	14		130	7	6			M 10 x 1	blank	21SLKK06MPX
	4 x 6 mm	14		130	7	6			M 10 x 1	nickel plated	21SLKK06MPN
	6 x 8 mm	14		135	7	6			M 12 x 1	blank	21SLKK08MPX
	6 x 8 mm	14		135	7	6			M 12 x 1	nickel plated	21SLKK08MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 24 mm²

Tema Series

1100



Technical Description
Robust design with small dimensions. Series 1100 is used mainly for applications in the area of compressed air and liquids. Optimally suited to smaller pneumatic systems and to compressed air tools with a consumption of up to 900 litres per minute. Coupling systems with two-hand operation, i.e. both hands are required when connect/disconnect.

Dust Protections **(P. 319)**
for Coupling Part.-No. 2315-QC
for Plug Part.-No. 125-QC

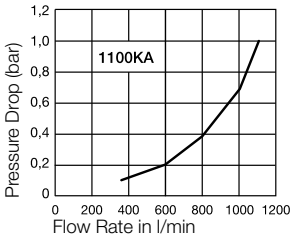
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

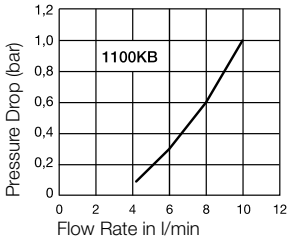
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
30 bar ** maximum static working pressure with safety factor 4 to 1.	20 bar
Material	
Coupling: Brass nickel plated and chrome plated **Plug:** Steel zinc plated **Seals:** NBR	**Coupling:** Brass nickel plated and chrome plated **Plug:** Brass nickel plated and chrome plated **Seals:** NBR
Interchangeability	
• Tema Design	

Flow diagrams

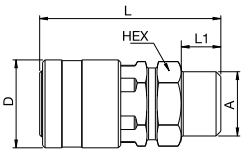
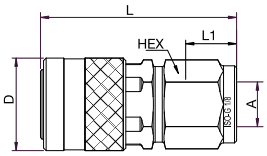
Air



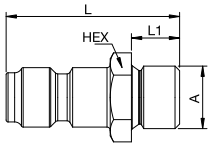
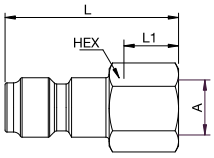
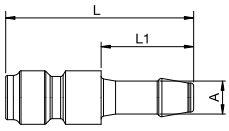
Water



Couplings – with valve — Series 1100KA

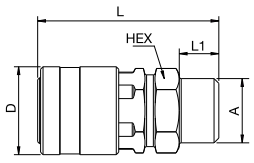
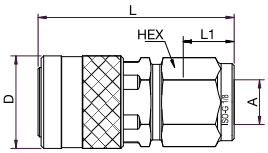
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	15		37	8		18				1100KAAW13MPC
 Female Thread	G 1/8	15		38	8		18				1100KAIW10MPC

Plugs – without valve — Series 1100KA

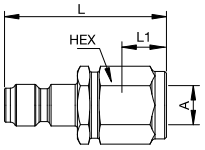
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	12		27	7,5						1100SFAW10SXZ
 Female Thread	G 1/8	12		27	7						1100SFIW10SXZ
 Hose Barb	5 mm			33	16						1100SFTF05SXZ
	6 mm			33	16						1100SFTF06SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 1100KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	15		38	8		18				1100KBAW13MPC
 Female Thread	G 1/8	15		37	8		18				1100KBIW10MPC

Plugs – with valve — Series 1100KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/8	15		36	8						1100SBIW10MPC

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Male Thread	G 1/4	-	1100 A	**1100KAAW13MPC**	43
Female Thread	G 1/8	-	1100	**1100KAIW10MPC**	43
Plugs – without valve					
Male Thread	G 1/8	-	11110-QC	**1100SFAW10SXZ**	43
Female Thread	G 1/8	-	11410	**1100SFIW10SXZ**	43
Hose Barb	5 mm	-	11005-QC	**1100SFTF05SXZ**	43
	6 mm	-	11006-QC	**1100SFTF06SXZ**	43
Couplings – with valve					
Male Thread	G 1/8	-	1100 NA	**1100KBAW13MPC**	44
Female Thread	G 1/8	-	1100 N	**1100KBIW10MPC**	44
Plugs – with valve					
Female Thread	G 1/8	-	11410 MN	**1100SBIW10MPC**	44

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

14



Technical Description
Robust brass coupling with numerous connection options. Preferred application is the compressed air technology. Also particularly suited to use with water due to the brass valve.
Coupling system with single-hand operation. Plug design optimised through greater insert depth.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 14
The following other designs can be found from page:

➤ Safety Self-Venting P. 284

KA Single Shut-Off

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

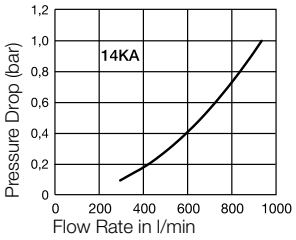
Coupling: Brass
Plug: Steel nickel plated or Brass
Seals: NBR

Interchangeability

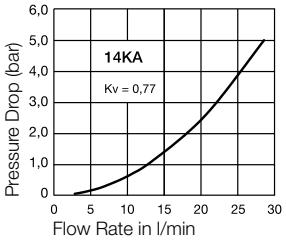
- Rectus 22
- ARO 210
- Cejn 300
- Orion 44510
- JWL 552 + JWL 532
- various Swiss Products

Flow diagrams

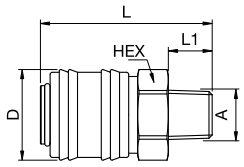
Air



Water

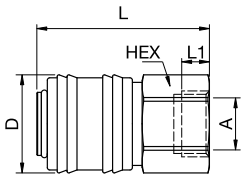


Couplings – with valve — Series 14KA



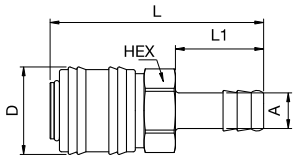
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		43	9		25			blank	14KAAW13MPX
G 1/4	22		43	9		25			nickel plated	14KAAW13MPN
G 3/8	22		43	9		25			blank	14KAAW17MPX
G 3/8	22		43	9		25			nickel plated	14KAAW17MPN
G 1/2	22		46	12		25			blank	14KAAW21MPX
G 1/2	22		46	12		25			nickel plated	14KAAW21MPN



Female Thread

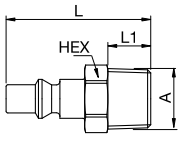
G 1/4	22		43	9		25			blank	14KAIW13MPX
G 1/4	22		43	9		25			nickel plated	14KAIW13MPN
G 3/8	22		43	9		25			blank	14KAIW17MPX
G 3/8	22		43	9		25			nickel plated	14KAIW17MPN
G 1/2	24		46	12		25			blank	14KAIW21MPX
G 1/2	24		46	12		25			nickel plated	14KAIW21MPN



Hose Barb

6 mm	21		60	25		25			blank	14KATF06MPX
6 mm	21		60	25		25			nickel plated	14KATF06MPN
8 mm	21		60	25		25			blank	14KATF08MPX
8 mm	21		60	25		25			nickel plated	14KATF08MPN
9 mm	21		60	25		25			blank	14KATF09MPX
9 mm	21		60	25		25			nickel plated	14KATF09MPN
10 mm	21		60	25		25			blank	14KATF10MPX
10 mm	21		60	25		25			nickel plated	14KATF10MPN
13 mm	21		60	25		25			blank	14KATF13MPX
13 mm	21		60	25		25			nickel plated	14KATF13MPN

Plugs – without valve — Series 22SF



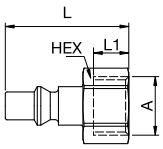
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/8	12		35	9					Steel	22SFAK10SXN
R 1/4	14		41	12					Steel	22SFAK13SXN
R 1/4	14		41	12					Brass	22SFAK13MXX
R 1/4	14		41	12					Brass, nickel pl.	22SFAK13MXN
G 1/4	14		41	12					Brass	22SFAW13MXX
R 3/8	17		41	12					Steel	22SFAK17SXN
G 3/8	17		41	12					Brass	22SFAW17MXX
R 1/2	22		46	17					Steel	22SFAK21SXN
G 1/2	22		46	17					Brass	22SFAW21MXX

⚠ Please consider our security advices on the pages 12/13 ⚠

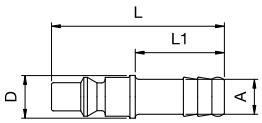
Plugs – without valve

Series 22SF



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	17		35	9					Steel	22SFIW13SXN
G 1/4	17		35	9					Brass	22SFIW13MXX
G 1/4	17		35	9					Brass, nickel pl.	22SFIW13MXN
G 3/8	19		35	10					Steel	22SFIW17SXN
G 3/8	19		35	10					Brass	22SFIW17MXX
G 3/8	19		35	10					Brass, nickel pl.	22SFIW17MXN
G 1/2	24		35	12					Steel	22SFIW21SXN



Hose Barb

6 mm			49	25		12			Steel	22SFTF06SXN
6 mm			49	25		12			Brass	22SFTF06MXX
6 mm			49	25		12			Brass, nickel pl.	22SFTF06MXN
8 mm			49	25		12			Steel	22SFTF08SXN
8 mm			49	25		12			Brass	22SFTF08MXX
8 mm			49	25		12			Brass, nickel pl.	22SFTF08MXN
9 mm			49	25		12			Steel	22SFTF09SXN
10 mm			49	25		12			Steel	22SFTF10SXN
10 mm			49	25		12			Brass	22SFTF10MXX
10 mm			49	25		12			Brass, nickel pl.	22SFTF10MXN
13 mm			49	25		15			Steel	22SFTF13SXN
13 mm			49	25		15			Brass	22SFTF13MXX
13 mm			49	25		15			Brass, nickel pl.	22SFTF13MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

18



Technical Description
Robust industrial coupling according to ISO 6150 C. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The steel sleeve counters oscillating forces. System has limited use for liquids (steel sleeve/zinc die cast valve). The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 18
The following other designs can be found from page:

➤ Safety Self-Venting P. 286

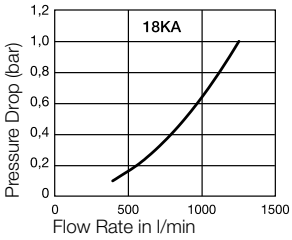
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

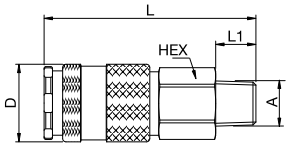
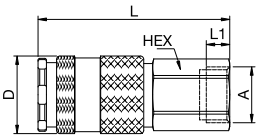
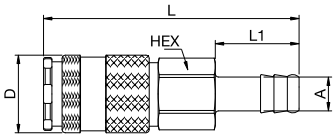
Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- Cejn 291
- Oetiker
- ISO 6150 C

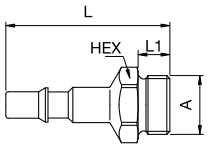
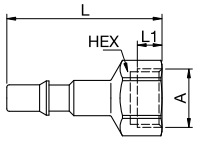
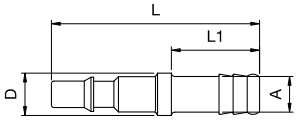
Flow diagrams
Air



Couplings – with valve — Series 18KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		63	12		23				18KAAK13MPN
	R 3/8	19		62	12		23				18KAAK17MPN
	R 1/2	22		63	17		23				18KAAK21MPN
 Female Thread	G 1/4	19		58	9		23				18KAIW13MPN
	G 3/8	19		57	9		23				18KAIW17MPN
	G 1/2	24		60	12		23				18KAIW21MPN
 Hose Barb	6 mm	19		76	25		23				18KATF06MPN
	8 mm	19		76	25		23				18KATF08MPN
	10 mm	19		76	25		23				18KATF10MPN
	13 mm	19		76	25		23				18KATF13MPN

Plugs – without valve — Series 18KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	17		41	9						18SFAW13SXN
	G 3/8	19		41	9						18SFAW17SXN
 Female Thread	G 1/4	17		43	9						18SFIW13SXN
	G 3/8	19		44	9						18SFIW17SXN
 Hose Barb	6 mm			59	25		12				18SFTF06SXN
	8 mm			59	25		12				18SFTF08SXN
	9 mm			59	25		12				18SFTF09SXN
	10 mm			59	25		12				18SFTF10SXN
	13 mm			59	25		16				18SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

19



Technical Description
English industrial profile.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Robust coupling in slim design mainly for pneumatic applications. The steel sleeve counters oscillating forces. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

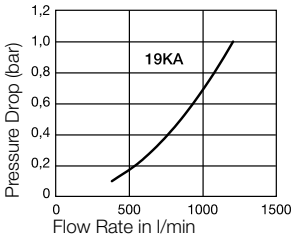
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

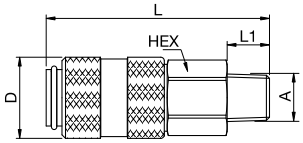
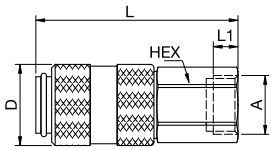
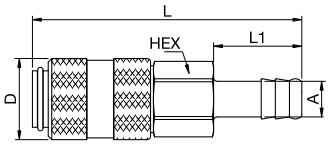
Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- PCL 60 (UK)

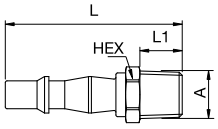
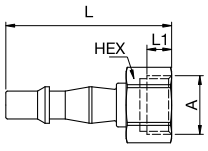
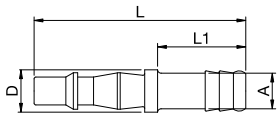
Flow diagrams
Air



Couplings – with valve — Series 19KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		63	12		23				19KAAK13MPN
	R 3/8	19		62	12		23				19KAAK17MPN
	R 1/2	22		68	17		23				19KAAK21MPN
 Female Thread	G 1/4	19		58	9		23				19KAIW13MPN
	G 3/8	19		58	9		23				19KAIW17MPN
	G 1/2	24		60	12		23				19KAIW21MPN
 Hose Barb	6 mm	19		76	25		23				19KATF06MPN
	8 mm	19		76	25		23				19KATF08MPN
	10 mm	19		76	25		23				19KATF10MPN
	13 mm	19		76	25		23				19KATF13MPN

Plugs – without valve — Series 19KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	14		50	12						19SFAK13SXN
	R 3/8	17		50	12						19SFAK17SXN
 Female Thread	G 1/4	17		46	9						19SFIW13SXN
	G 3/8	19		47	9						19SFIW17SXN
 Hose Barb	6 mm			60	25		12				19SFTF06SXN
	8 mm			60	25		12				19SFTF08SXN
	10 mm			60	25		12				19SFTF10SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

22



Technical Description
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Specially suited to use with gaseous media in industry. The steel sleeve counters oscillating forces. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

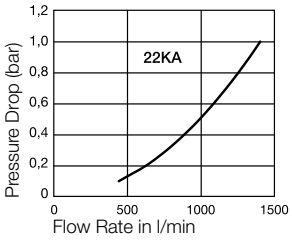
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated or Brass
Seals: NBR

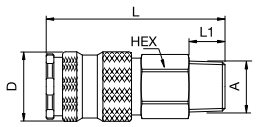
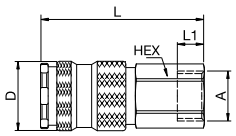
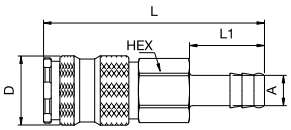
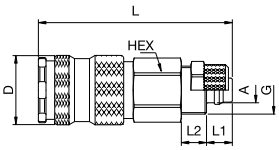
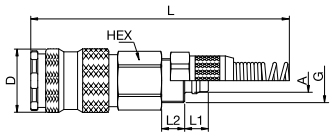
Interchangeability
- Rectus 14
- ARO 210
- Parker 50
- Cejn 300
- Orion 44510
- JWL 522 + JWL 532
- various Swiss Products

Flow diagrams
Air



Couplings – with valve

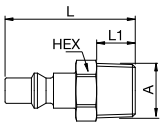
Series 22KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		61	12		23				22KAAK13MPN
	R 3/8	19		60	12		23				22KAAK17MPN
	R 1/2	22		61	17		23				22KAAK21MPN
 Female Thread	G 1/4	19		56	9		23				22KAIW13MPN
	G 3/8	19		55	9		23				22KAIW17MPN
	G 1/2	24		58	9		23				22KAIW21MPN
 Hose Barb	6 mm	19		74	25		23				22KATF06MPN
	8 mm	19		74	25		23				22KATF08MPN
	9 mm	19		74	25		23				22KATF09MPN
	10 mm	19		74	25		23				22KATF10MPN
	13 mm	19		74	25		23				22KATF13MPN
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M 12 x 1		22KAKO08MPN
	8 x 10 mm	19		65	9	8	23		M 16 x 1		22KAKO10MPN
 Plastic Hose Connection with Spring Guard	6 x 8 mm	19		126	7	6	23		M 12 x 1		22KAKK08MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

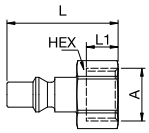
Plugs – without valve

Series 22SF



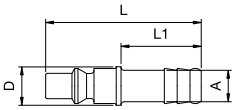
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/8	12		35	9					Steel	22SFAK10SXN
R 1/4	14		41	12					Steel	22SFAK13SXN
R 1/4	14		41	12					Brass	22SFAK13MXX
R 1/4	14		41	12					Brass, nickel pl.	22SFAK13MXN
G 1/4	14		41	12					Brass	22SFAW13MXX
R 3/8	17		41	12					Steel	22SFAK17SXN
G 3/8	17		41	12					Brass	22SFAW17MXX
R 1/2	22		46	17					Steel	22SFAK21SXN
G 1/2	22		46	17					Brass	22SFAW21MXX



Female Thread

G 1/4	17		35	9					Steel	22SFIW13SXN
G 1/4	17		35	9					Brass	22SFIW13MXX
G 1/4	17		35	9					Brass, nickel pl.	22SFIW13MXN
G 3/8	19		35	10					Steel	22SFIW17SXN
G 3/8	19		35	10					Brass	22SFIW17MXX
G 3/8	19		35	10					Brass, nickel pl.	22SFIW17MXN
G 1/2	24		35	12					Steel	22SFIW21SXN



Hose Barb

6 mm			49	25		12			Steel	22SFTF06SXN
6 mm			49	25		12			Brass	22SFTF06MXX
6 mm			49	25		12			Brass, nickel pl.	22SFTF06MXN
8 mm			49	25		12			Steel	22SFTF08SXN
8 mm			49	25		12			Brass	22SFTF08MXX
8 mm			49	25		12			Brass, nickel pl.	22SFTF08MXN
9 mm			49	25		12			Steel	22SFTF09SXN
10 mm			49	25		12			Steel	22SFTF10SXN
10 mm			49	25		12			Brass	22SFTF10MXX
10 mm			49	25		12			Brass, nickel pl.	22SFTF10MXN
13 mm			49	25		15			Steel	22SFTF13SXN
13 mm			49	25		15			Brass	22SFTF13MXX
13 mm			49	25		15			Brass, nickel pl.	22SFTF13MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

23



Technical Description
1/4" industrial coupling according to ISO 6150 B and US MIL-SPEC 4109. Especially suitable for use with gaseous media in industry.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Steel sleeve counters oscillating forces. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

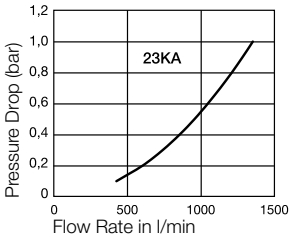
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated or Brass
Seals: NBR

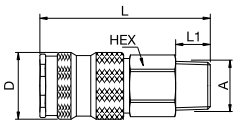
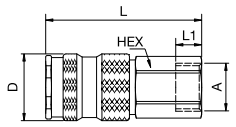
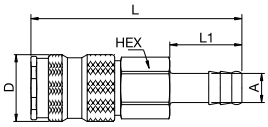
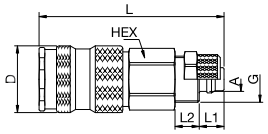
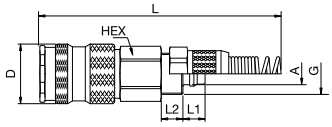
Interchangeability
- Industr. Interchange 1/4"
- US-MIL-SPEC-C-4109
- ISO 6150 B
- Rectus 24, 1400, 1423
- Cejn 310
- Hansen 3000
- Faster
- Gromelle 600
- Parker 20 1/4" + 30 1/4"
- JWL 521 + JWL 531

Flow diagrams
Air



Couplings – with valve

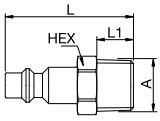
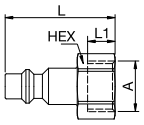
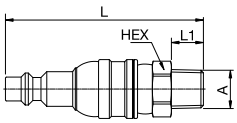
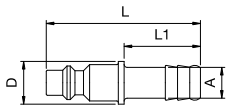
Series 23KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		61	12		23				23KAAK13MPN
	R 3/8	19		60	12		23				23KAAK17MPN
	R 1/2	22		61	17		23				23KAAK21MPN
 Female Thread	G 1/4	19		56	9		23				23KAIW13MPN
	G 3/8	19		54	9		23				23KAIW17MPN
	G 1/2	24		58	9		23				23KAIW21MPN
 Hose Barb	6 mm	19		74	25		23				23KATF06MPN
	8 mm	19		74	25		23				23KATF08MPN
	9 mm	19		74	25		23				23KATF09MPN
	10 mm	19		74	25		23				23KATF10MPN
	13 mm	19		74	25		23				23KATF13MPN
 with Plastic Hose Connection	8 x 10 mm	19		64	9	8	23		M 16 x 1		23KAKO10MPN
 Plastic Hose Connection with Spring Guard	9 x 12 mm	19		163	9	8	23		M 16 x 1		23KAKK12MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 23KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		39	9					Steel	23SFAK10SXN
	R 1/4	14		42	12					Steel	23SFAK13SXN
	G 1/4	14		42	12					Brass	23SFAW13MXX
	R 3/8	17		42	12					Steel	23SFAK17SXN
	G 3/8	17		42	12					Brass	23SFAW17MXX
	R 1/2	22		48	17					Steel	23SFAK21SXN
 Female Thread	G 1/8	14		36	9					Steel	23SFIW10SXN
	G 1/4	17		36	9					Steel	23SFIW13SXN
	G 1/4	17		36	9					Brass	23SFIW13MXX
	G 3/8	19		36	9					Steel	23SFIW17SXN
	G 3/8	19		36	9					Brass	23SFIW17MXX
	G 1/2	24		39	12					Steel	23SFIW21SXN
 Flex Joint, Male Thread	R 1/4	17		68	11					Steel	23FAAK13SPN
 Hose Barb	6 mm			51	25		14			Steel	23SFTF06SXN
	6 mm			51	25		14			Brass	23SFTF06MXX
	8 mm			51	25		14			Steel	23SFTF08SXN
	8 mm			51	25		14			Brass	23SFTF08MXX
	9 mm			51	25		14			Steel	23SFTF09SXN
	9 mm			51	25		14			Brass	23SFTF09MXX
	10 mm			51	25		14			Steel	23SFTF10SXN
	10 mm			51	25		14			Brass	23SFTF10MXX
	13 mm			51	25		14			Steel	23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Tema Series

1400



Other designs in series 1400
The following other designs can be found from page:

➤ Safety Self-Venting P. 288

Technical Description
RectusTema premium industrial coupling 1/4" according to ISO 6150 B. Suitable for compressed air applications with greater than average air consumption. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop.

Dust Protections (P. 319)
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

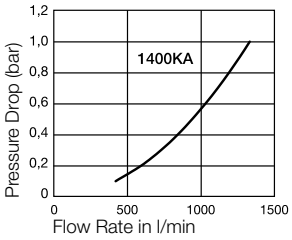
Coupling: Brass nickel plated, Steel QPQ treated
Plug: Steel nickel plated or Brass
Seals: NBR

Interchangeability

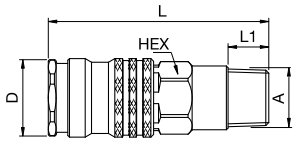
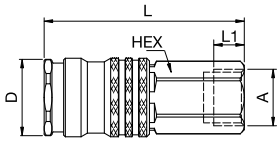
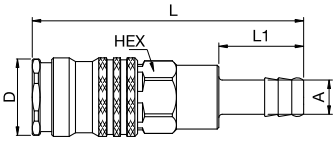
- Rectus 23 + 24
- Rectus 1423
- Industr. Interchange 1/4"
- US-MIL-SPEC-C-4109
- ISO 6150 B
- Cejn 310
- Hansen 3000
- Faster
- Gromelle 600
- JWL 521 + JWL 531

Flow diagrams

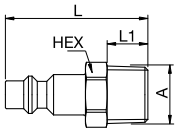
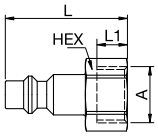
Air



Couplings – with valve — Series 1400KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		65	12		23				1400KAAK13SPN
	R 3/8	19		65	12		23				1400KAAK17SPN
	R 1/2	22		59,5	17		23				1400KAAK21SPN
 Female Thread	G 1/4	19		59	9		23				1400KAIW13SPN
	G 3/8	19		59	9		23				1400KAIW17SPN
	G 1/2	24		62	12		23				1400KAIW21SPN
 Hose Barb	6 mm	19		80	25		23				1400KATF06SPN
	8 mm	19		80	25		23				1400KATF08SPN
	10 mm	19		80	25		23				1400KATF10SPN
	13 mm	19		80	25		23				1400KATF13SPN

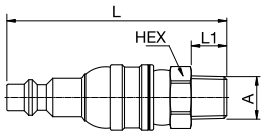
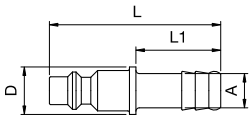
Plugs – without valve — Series 23SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		39	9					Steel	23SFAK10SXN
	R 1/4	14		42	12					Steel	23SFAK13SXN
	G 1/4	14		42	12					Brass	23SFAW13MXX
	R 3/8	17		42	12					Steel	23SFAK17SXN
	G 3/8	17		42	12					Brass	23SFAW17MXX
	R 1/2	22		48	17					Steel	23SFAK21SXN
 Female Thread	G 1/8	14		36	9					Steel	23SFIW10SXN
	G 1/4	17		36	9					Steel	23SFIW13SXN
	G 1/4	17		36	9					Brass	23SFIW13MXX
	G 3/8	19		36	9					Steel	23SFIW17SXN
	G 3/8	19		36	9					Brass	23SFIW17MXX
	G 1/2	24		39	12					Steel	23SFIW21SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 23SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Flex Joint, Male Thread	R 1/4	17		68	11					Steel	23FAAK13SPN
 Hose Barb	6 mm			51	25		14			Steel	23SFTF06SXN
	6 mm			51	25		14			Brass	23SFTF06MXX
	8 mm			51	25		14			Steel	23SFTF08SXN
	8 mm			51	25		14			Brass	23SFTF08MXX
	9 mm			51	25		14			Steel	23SFTF09SXN
	9 mm			51	25		14			Brass	23SFTF09MXX
	10 mm			51	25		14			Steel	23SFTF10SXN
	10 mm			51	25		14			Brass	23SFTF10MXX
	13 mm			51	25		14			Steel	23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

1423



Technical Description
RectusTema premium industrial coupling 1/4" according to ISO 6150 B. Suitable for compressed air applications with greater than average air consumption. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Extremely robust and ergonomically shaped, 2-component plastic sleeve.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +80°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

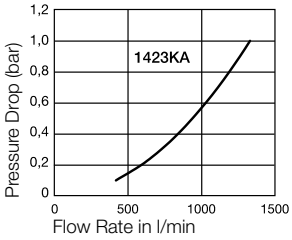
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

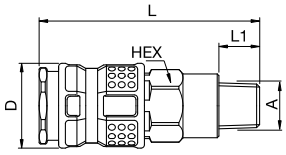
Material
Coupling: Brass nickel plated, Steel QPQ treated, PA6+TPE
Plug: Steel nickel plated or Brass
Seals: NBR

Interchangeability
- Rectus 23 + 24
- Rectus 1400
- Industr. Interchange 1/4"
- US-MIL-SPEC-C-4109
- ISO 6150 B
- Cejn 310
- Hansen 3000
- Faster
- Gromelle 600
- JWL 521 + JWL 531

Flow diagrams
Air

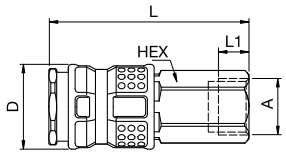


Couplings – with valve — Series 1423KA



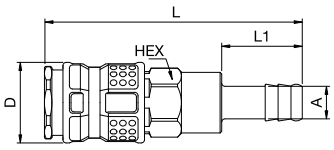
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/4	19		65	12		26				1423KAAK13SPN
R 3/8	19		65	12		26				1423KAAK17SPN
R 1/2	22		59,5	17		26				1423KAAK21SPN



Female Thread

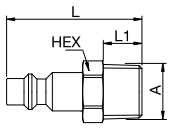
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	19		59	9		26				1423KAIW13SPN
G 3/8	19		59	9		26				1423KAIW17SPN
G 1/2	24		62	12		26				1423KAIW21SPN



Hose Barb

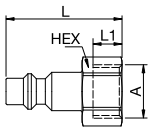
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm	19		80	25		26				1423KATF06SPN
8 mm	19		80	25		26				1423KATF08SPN
9 mm	19		80	25		26				1423KATF09SPN
10 mm	19		80	25		26				1423KATF10SPN
13 mm	19		80	25		26				1423KATF13SPN

Plugs – without valve — Series 23SF



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/8	13		39	9					Steel	23SFAK10SXN
R 1/4	14		42	12					Steel	23SFAK13SXN
G 1/4	14		42	12					Brass	23SFAW13MXX
R 3/8	17		42	12					Steel	23SFAK17SXN
G 3/8	17		42	12					Brass	23SFAW17MXX
R 1/2	22		48	17					Steel	23SFAK21SXN



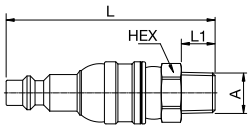
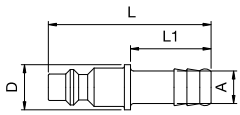
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		36	9					Steel	23SFIW10SXN
G 1/4	17		36	9					Steel	23SFIW13SXN
G 1/4	17		36	9					Brass	23SFIW13MXX
G 3/8	19		36	9					Steel	23SFIW17SXN
G 3/8	19		36	9					Brass	23SFIW17MXX
G 1/2	24		39	12					Steel	23SFIW21SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 23SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Flex Joint, Male Thread	R 1/4	17		68	11					Steel	23FAAK13SPN
 Hose Barb	6 mm			51	25		14			Steel	23SFTF06SXN
	6 mm			51	25		14			Brass	23SFTF06MXX
	8 mm			51	25		14			Steel	23SFTF08SXN
	8 mm			51	25		14			Brass	23SFTF08MXX
	9 mm			51	25		14			Steel	23SFTF09SXN
	9 mm			51	25		14			Brass	23SFTF09MXX
	10 mm			51	25		14			Steel	23SFTF10SXN
	10 mm			51	25		14			Brass	23SFTF10MXX
	13 mm			51	25		14			Steel	23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²



Technical Description
1/4" Industrial brass coupling according to ISO 6150 B and US MIL-SPEC 4109.
Coupling system with single-hand operation, which stands out for its solid brass design and corresponding sleeve design. Hardened steel plug counters vibrations and effects of external forces.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 24
The following other designs can be found from page:

➤ Safety Self-Venting P. 290

KA Single Shut-Off

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

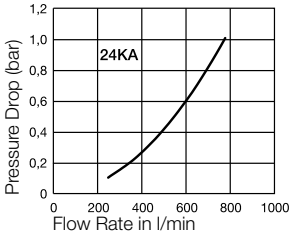
Coupling: Brass
Plug: Steel nickel plated or Brass
Seals: NBR

Interchangeability

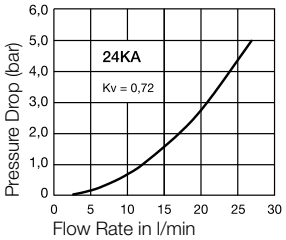
- Rectus 23
- Rectus 1400/1423
- Industr. Interchange 1/4"
- US-MIL-SPEC-C-4109
- ISO 6150 B
- Cejn 310
- Hansen 3000
- Faster
- Gromelle 600
- Parker 20 1/4" + 30 1/4"
- JWL 521 + JWL 531

Flow diagrams

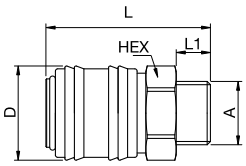
Air



Water

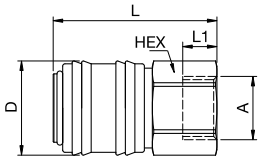


Couplings – with valve — Series 24KA



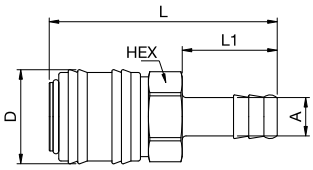
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		43	9		25			blank	24KAAW13MPX
G 1/4	22		43	9		25			nickel plated	24KAAW13MPN
G 3/8	22		43	9		25			blank	24KAAW17MPX
G 3/8	22		43	9		25			nickel plated	24KAAW17MPN
G 1/2	22		46	12		25			blank	24KAAW21MPX
G 1/2	22		46	12		25			nickel plated	24KAAW21MPN



Female Thread

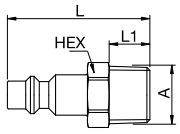
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		43	11		25			blank	24KAIW13MPX
G 1/4	22		43	11		25			nickel plated	24KAIW13MPN
G 3/8	22		43	9		25			blank	24KAIW17MPX
G 3/8	22		43	9		25			nickel plated	24KAIW17MPN
G 1/2	22		46	12		25			blank	24KAIW21MPX
G 1/2	22		46	12		25			nickel plated	24KAIW21MPN



Hose Barb

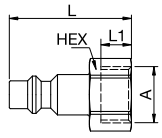
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm	21		60	25		25			blank	24KATF06MPX
8 mm	21		60	25		25			blank	24KATF08MPX
8 mm	21		60	25		25			nickel plated	24KATF08MPN
9 mm	21		60	25		25			blank	24KATF09MPX
10 mm	21		60	25		25			blank	24KATF10MPX
13 mm	21		60	25		25			blank	24KATF13MPX

Plugs - without valve — Series 23SF



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/8	13		39	9					Steel	23SFAK10SXN
R 1/4	14		42	12					Steel	23SFAK13SXN
G 1/4	14		42	12					Brass	23SFAW13MXX
R 3/8	17		42	12					Steel	23SFAK17SXN
G 3/8	17		42	12					Brass	23SFAW17MXX
R 1/2	22		48	17					Steel	23SFAK21SXN



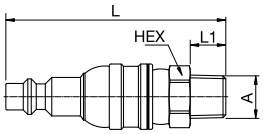
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		36	9					Steel	23SFIW10SXN
G 1/4	17		36	9					Steel	23SFIW13SXN
G 1/4	17		36	9					Brass	23SFIW13MXX
G 3/8	19		36	9					Steel	23SFIW17SXN
G 3/8	19		36	9					Brass	23SFIW17MXX
G 1/2	24		39	12					Steel	23SFIW21SXN

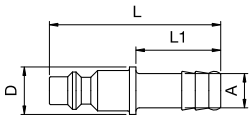
⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 23SF



Flex Joint,
Male Thread



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/4	17		68	11					Steel	23FAAK13SPN
6 mm			51	25		14			Steel	23SFTF06SXN
6 mm			51	25		14			Brass	23SFTF06MXX
8 mm			51	25		14			Steel	23SFTF08SXN
8 mm			51	25		14			Brass	23SFTF08MXX
9 mm			51	25		14			Steel	23SFTF09SXN
9 mm			51	25		14			Brass	23SFTF09MXX
10 mm			51	25		14			Steel	23SFTF10SXN
10 mm			51	25		14			Brass	23SFTF10MXX
13 mm			51	25		14			Steel	23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

6 = 28 mm²

Rectus Series

206



Other designs in series 206
The following other designs can be found from page:

➤ Stainless Steel P. 200

Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling.
Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KL Leak-Free

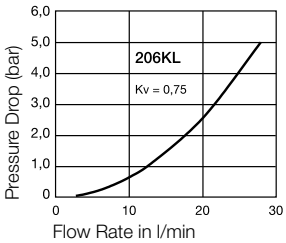
Working Pressure**
15 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass nickel plated
Plug: Brass nickel plated
Seals: NBR

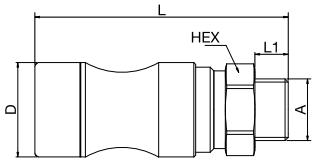
Interchangeability
• Rectus Design

Flow diagrams

Water

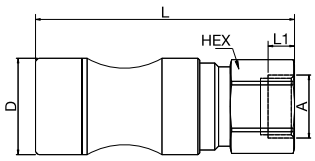


Couplings – flat-sealing — Series 206KL



Male Thread

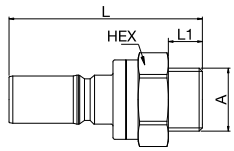
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		68,5	9		25,5				206KLAW17MPN
G 1/2	22		71,5	12		25,5				206KLAW21MPN



Female Thread

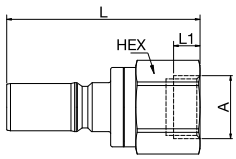
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		68,5	7		25,5				206KLIW17MPN
G 1/2	24		71,5	10		25,5				206KLIW21MPN

Plugs – flat-sealing — Series 206KL



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		51	9						206SLAW17MPN
G 1/2	22		54	12						206SLAW21MPN



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		51	7						206SLIW17MPN
G 1/2	24		54	10						206SLIW21MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

6 = 30 mm²

Rectus Series

51



Technical Description
Coupling system with German industrial profile. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Robust coupling in slim design mainly for pneumatic applications. The steel sleeve counters oscillating forces. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

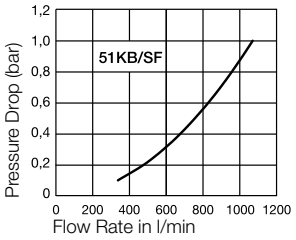
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

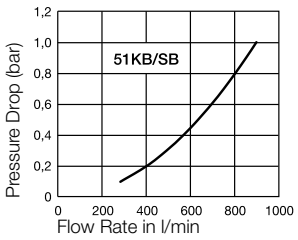
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
50 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Material	
Coupling: Brass / Steel nickel plated **Plug:** Steel nickel plated **Seals:** NBR	**Coupling:** Brass / Steel nickel plated **Plug:** Brass / Steel nickel plated **Seals:** NBR
Interchangeability	
• Walther SP006	

Flow diagrams

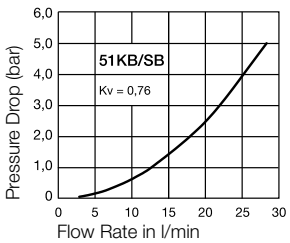
Air



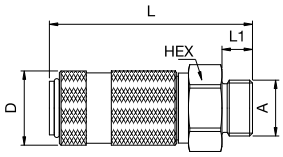
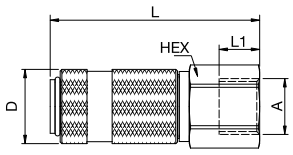
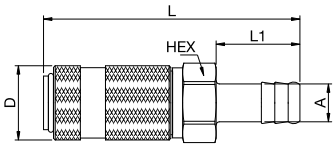
Air



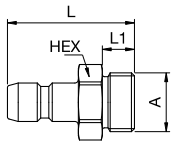
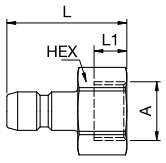
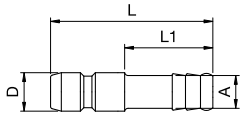
Water



Couplings – with valve — Series 51KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		61	9		22				51KBAW13SPN
	G 3/8	22		61	9		22				51KBAW17SPN
	G 1/2	22		61	12		22				51KBAW21SPN
 Female Thread	G 1/4	22		63	12		22				51KBIW13SPN
	G 3/8	22		63	12		22				51KBIW17SPN
	G 1/2	24		64	13		22				51KBIW21SPN
 Hose Barb	6 mm	21		78	25		22				51KBTF06SPN
	9 mm	21		78	25		22				51KBTF09SPN
	13 mm	21		78	25		22				51KBTF13SPN

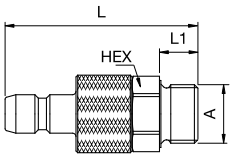
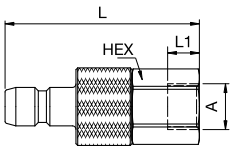
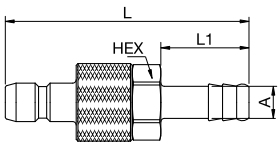
Plugs – without valve — Series 51SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	17		35	9						51SFAW13SXN
	G 3/8	19		36	9						51SFAW17SXN
 Female Thread	G 1/4	17		34	11						51SFIW13SXN
	G 3/8	19		34	11						51SFIW17SXN
 Hose Barb	6 mm			46	25		11				51SFTF06SXN
	9 mm			46	25		11				51SFTF09SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 51SB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		54	8						51SBAW13SPN
	G 3/8	22		49,5	9						51SBAW17SPN
	G 1/2	22		49,5	12						51SBAW21SPN
 Female Thread	G 1/4	22		51,5	12						51SBIW13SPN
	G 3/8	22		51,5	12						51SBIW17SPN
 Hose Barb	6 mm	21		65,5	25						51SBTF06SPN
	9 mm	21		65,5	25						51SBTF09SPN
	13 mm	21		65,5	25						51SBTF13SPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter
6 = 30 mm²



Rectus Series
52



Technical Description
Coupling system with German industrial profile. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Robust coupling in slim design mainly for pneumatic applications. The steel sleeve counters oscillating forces. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

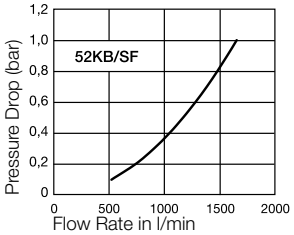
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

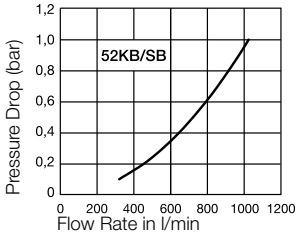
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
50 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Material	
Coupling: Brass / Steel nickel plated **Plug:** Steel nickel plated **Seal:** NBR	**Coupling:** Brass / Steel nickel plated **Plug:** Brass / Steel nickel plated **Seals:** NBR
Interchangeability	
• Walther LP006	

Flow diagrams

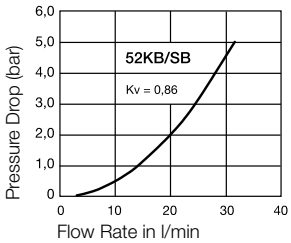
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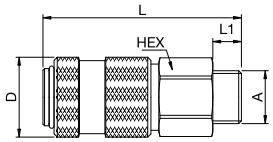
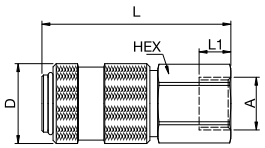
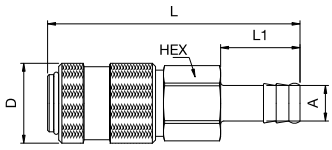
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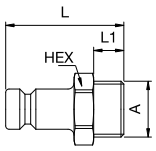
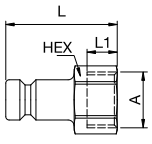
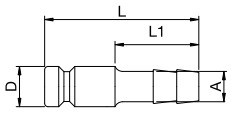
Water



Couplings – with valve — Series 52KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		62	9		25				52KBAW13SPN
	G 3/8	22		62	9		25				52KBAW17SPN
	G 1/2	22		65	12		25				52KBAW21SPN
 Female Thread	G 1/4	22		62	10		25				52KBIW13SPN
	G 3/8	22		60	10		25				52KBIW17SPN
	G 1/2	22		65	13		25				52KBIW21SPN
 Hose Barb	6 mm	21		79	25		25				52KBTF06SPN
	9 mm	21		80	25		25				52KBTF09SPN
	10 mm	21		80	25		25				52KBTF10SPN
	11 mm	21		80	25		25				52KBTF11SPN
	13 mm	21		79	25		25				52KBTF13SPN

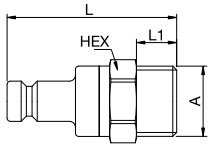
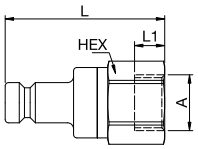
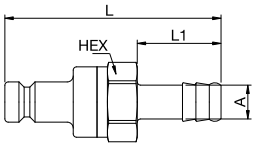
Plugs – without valve — Series 52SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		32	7						52SFAW10SXN
	G 1/4	17		35	9						52SFAW13SXN
	G 3/8	19		35	9						52SFAW17SXN
	G 1/2	24		38	12						52SFAW21SXN
 Female Thread	G 1/8	14		31	7						52SFIW10SXN
	G 1/4	17		33	9						52SFIW13SXN
	G 3/8	19		33	9						52SFIW17SXN
	G 1/2	24		36	12						52SFIW21SXN
 Hose Barb	6 mm			46	25		12				52SFTF06SXN
	9 mm			46	25		12				52SFTF09SXN
	11 mm			53	30		12				52SFTF11SXN
	13 mm			53	30		12				52SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 52SB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		48	9						52SBAW13SPN
	G 3/8	22		48	9						52SBAW17SPN
	G 1/2	22		48	12						52SBAW21SPN
 Female Thread	G 1/4	22		48	9						52SBIW13SPN
	G 3/8	22		48	9						52SBIW17SPN
 Hose Barb	6 mm	21		77,5	25						52SBTF06SPN
	8 mm	21		77,5	25						52SBTF08SPN
	9 mm	21		77,5	25						52SBTF09SPN
	10 mm	21		77,5	25						52SBTF10SPN
	13 mm	21		77,5	25						52SBTF13SPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter
7,2 = 40 mm²

Rectus Series
26



Technical Description
Universal brass coupling with European standard industrial profile.
Coupling system with single-hand operation and standard-valve. Small mass size. The ergonomic sleeve design prevents dirt on the valve body.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

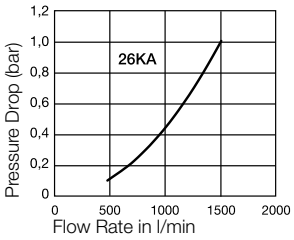
Other designs in series 26
The following other designs can be found from page:

➤ Stainless Steel P. 202
➤ Safety Self-Venting P. 292

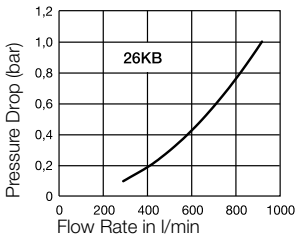
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Features	
• Series 26 plugs in brass • Series 25 steel plugs recommended for oscilating forces	
Material	
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR
Interchangeability	
• Rectus 25 • Rectus 1600/1625 • Cejn 320 • JWL 520 + JWL 530 • various German Products	

Flow diagrams

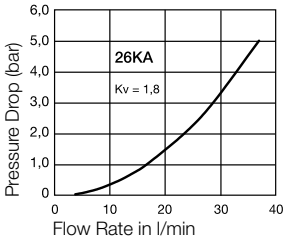
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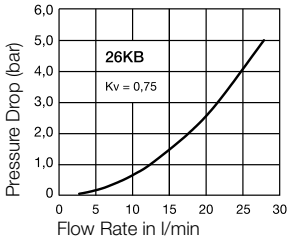
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Water

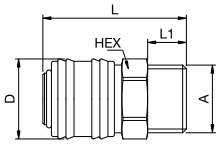


Water



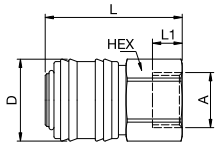
Couplings – with valve

Series 26KA



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	22		43	9		25			blank	26KAAW10MPX
G 1/8	22		43	9		25			nickel plated	26KAAW10MPN
G 1/4	22		39	9		25			blank	26KAAW13MPX
G 1/4	22		39	9		25			nickel plated	26KAAW13MPN
G 3/8	22		41	9		25			blank	26KAAW17MPX
G 3/8	22		41	9		25			nickel plated	26KAAW17MPN
G 1/2	22		44	12		25			blank	26KAAW21MPX
G 1/2	22		44	12		25			nickel plated	26KAAW21MPN
G 1/2	24		44	12		25			blank	26KAAW21MPXS_36
G 1/2	24		44	12		25			nickel plated	26KAAW21MPNS_09
M 14 x 1,5	22		42	10		25			blank	26KAAD14MPX
M 14 x 1,5	22		42	10		25			nickel plated	26KAAD14MPN
M 16 x 1,5	22		43	11		25			blank	26KAAD16MPX
M 16 x 1,5	22		43	11		25			nickel plated	26KAAD16MPN
M 18 x 1,5	22		43	11		25			blank	26KAAD18MPX
M 18 x 1,5	22		43	11		25			nickel plated	26KAAD18MPN



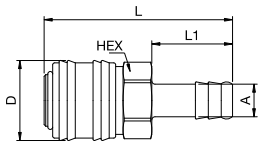
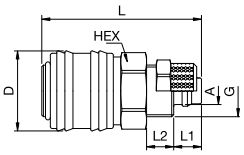
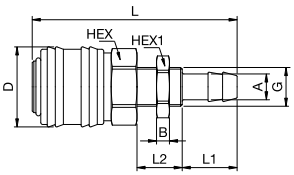
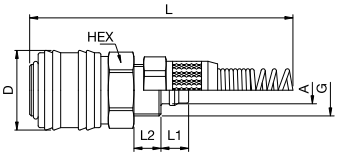
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		41	9		25			blank	26KAIW13MPX
G 1/4	22		41	9		25			nickel plated	26KAIW13MPN
G 3/8	22		41	9		25			blank	26KAIW17MPX
G 3/8	22		41	9		25			nickel plated	26KAIW17MPN
G 1/2	24		44	10		25			blank	26KAIW21MPX
G 1/2	24		44	10		25			nickel plated	26KAIW21MPN
M 14 x 1,5	22		44	9		25			blank	26KAIM14MPX
M 14 x 1,5	22		44	9		25			nickel plated	26KAIM14MPN
M 16 x 1,5	22		44	9		25			blank	26KAIM16MPX
M 16 x 1,5	22		44	9		25			nickel plated	26KAIM16MPN
M 18 x 1,5	22		44	9		25			blank	26KAIM18MPX
M 18 x 1,5	22		44	9		25			nickel plated	26KAIM18MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

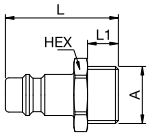
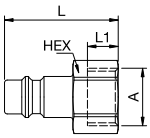
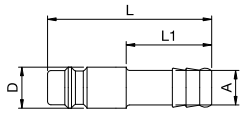
Couplings – with valve

Series 26KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Hose Barb	6 mm	21		58	25		25			blank	26KATF06MPX
	6 mm	21		58	25		25			nickel plated	26KATF06MPN
	8 mm	21		58	25		25			blank	26KATF08MPX
	8 mm	21		58	25		25			nickel plated	26KATF08MPN
	9 mm	21		58	25		25			blank	26KATF09MPX
	9 mm	21		58	25		25			nickel plated	26KATF09MPN
	10 mm	21		58	25		25			blank	26KATF10MPX
	10 mm	21		58	25		25			nickel plated	26KATF10MPN
	13 mm	21		58	25		25			blank	26KATF13MPX
	13 mm	21		58	25		25			nickel plated	26KATF13MPN
	6 mm Parker	21		58	20,5		25			blank	26KATP06MPX
	6 mm Parker	21		58	20,5		25			nickel plated	26KATP06MPN
	10 mm Parker	21		58	24		25			blank	26KATP10MPX
	10 mm Parker	21		58	24		25			nickel plated	26KATP10MPN
	13 mm Parker	21		58	28		25			blank	26KATP13MPX
	13 mm Parker	21		58	28		25			nickel plated	26KATP13MPN
 with Plastic Hose Connection	4 x 6 mm	21		58	7	6	25		M 10 x 1	blank	26KAKO06MPX
	4 x 6 mm	21		58	7	6	25		M 10 x 1	nickel plated	26KAKO06MPN
	6 x 8 mm	21		45	7	6	25		M 12 x 1	blank	26KAKO08MPX
	6 x 8 mm	21		45	7	6	25		M 12 x 1	nickel plated	26KAKO08MPN
	8 x 10 mm	21		49	9	8	25		M 16 x 1	blank	26KAKO10MPX
	8 x 10 mm	21		49	9	8	25		M 16 x 1	nickel plated	26KAKO10MPN
	9 x 12 mm	21		49	9	8	25		M 16 x 1	blank	26KAKO12MPX
	9 x 12 mm	21		49	9	8	25		M 16 x 1	nickel plated	26KAKO12MPN
 Panel Mount with Hose Barb	6 mm	21	17	60	17	10	25	4	M 12 x 1	blank	26KATS06MPX
	6 mm	21	17	60	17	10	25	4	M 12 x 1	nickel plated	26KATS06MPN
	8 mm	21	17	63	17	14	25	4	M 12 x 1	blank	26KATS08MPX
	8 mm	21	17	63	17	14	25	4	M 12 x 1	nickel plated	26KATS08MPN
	10 mm	21	17	72	25	14	25	4	G 1/4	blank	26KATS10MPX
	10 mm	21	17	72	25	14	25	4	G 1/4	nickel plated	26KATS10MPN
 Plastic Hose Connection with Spring Guard	6 x 8 mm	21		132	7	6	25		M 12 x 1	blank	26KAKK08MPX
	6 x 8 mm	21		132	7	6	25		M 12 x 1	nickel plated	26KAKK08MPN
	8 x 10 mm	21		143	9	8	25		M 16 x 1	blank	26KAKK10MPX
	8 x 10 mm	21		143	9	8	25		M 16 x 1	nickel plated	26KAKK10MPN
	9 x 12 mm	21		150	9	8	25		M 16 x 1	blank	26KAKK12MPX
	9 x 12 mm	21		150	9	8	25		M 16 x 1	nickel plated	26KAKK12MPN

Plugs – without valve

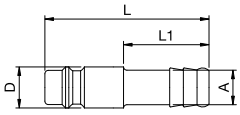
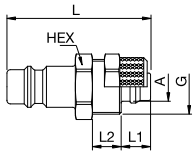
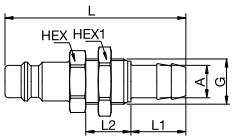
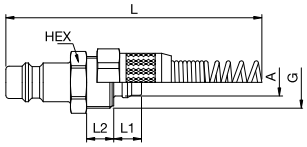
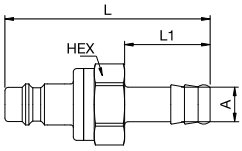
Series 26KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		31	7					blank	26SFAW10MXX
	G 1/8	14		31	7					nickel plated	26SFAW10MXN
	G 1/4	17		33	9					blank	26SFAW13MXX
	G 1/4	17		33	9					nickel plated	26SFAW13MXN
	G 3/8	19		33	9					blank	26SFAW17MXX
	G 3/8	19		33	9					nickel plated	26SFAW17MXN
	G 1/2	24		38	12					blank	26SFAW21MXX
	G 1/2	24		38	12					nickel plated	26SFAW21MXN
	M 14 x 1,5	17		35	10					blank	26SFAD14MXX
	M 14 x 1,5	17		35	10					nickel plated	26SFAD14MXN
	M 16 x 1,5	19		36	11					blank	26SFAD16MXX
	M 16 x 1,5	19		36	11					nickel plated	26SFAD16MXN
	M 18 x 1,5	22		37	11					blank	26SFAD18MXX
	M 18 x 1,5	22		37	11					nickel plated	26SFAD18MXN
 Female Thread	G 1/8	14		30	7					blank	26SFIW10MXX
	G 1/8	14		30	7					nickel plated	26SFIW10MXN
	G 1/4	17		33	10					blank	26SFIW13MXX
	G 1/4	17		33	10					nickel plated	26SFIW13MXN
	G 3/8	19		33	10					blank	26SFIW17MXX
	G 3/8	19		33	10					nickel plated	26SFIW17MXN
	G 1/2	24		35	12					blank	26SFIW21MXX
	G 1/2	24		35	12					nickel plated	26SFIW21MXN
	M 14 x 1,5	17		33	10					blank	26SFIM14MXX
	M 14 x 1,5	17		33	10					nickel plated	26SFIM14MXN
	M 16 x 1,5	19		33	10					blank	26SFIM16MXX
	M 16 x 1,5	19		33	10					nickel plated	26SFIM16MXN
	M 18 x 1,5	22		36	13					blank	26SFIM18MXX
	M 18 x 1,5	22		36	13					nickel plated	26SFIM18MXN
 Hose Barb	4 mm			48	25		12			blank	26SFTF04MXX
	4 mm			48	25		12			nickel plated	26SFTF04MXN
	6 mm			48	25		12			blank	26SFTF06MXX
	6 mm			48	25		12			nickel plated	26SFTF06MXN
	8 mm			48	25		12			blank	26SFTF08MXX
	8 mm			48	25		12			nickel plated	26SFTF08MXN
	9 mm			48	25		12			blank	26SFTF09MXX
	9 mm			48	25		12			nickel plated	26SFTF09MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

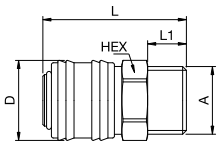
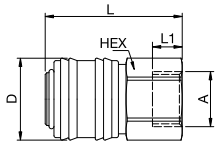
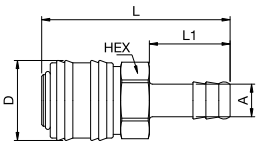
Plugs – without valve

Series 26KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Hose Barb	10 mm			48	25		12			blank	26SFTF10MXX
	10 mm			48	25		12			nickel plated	26SFTF10MXN
	13 mm			48	25		15			blank	26SFTF13MXX
	13 mm			48	25		15			nickel plated	26SFTF13MXN
	6 mm Parker			43	20,5		16			blank	26SFTP06MXX
	6 mm Parker			43	20,5		16			nickel plated	26SFTP06MXN
	10 mm Parker			46	24		22			blank	26SFTP10MXX
	10 mm Parker			46	24		22			nickel plated	26SFTP10MXN
	13 mm Parker			50	28		24			blank	26SFTP13MXX
	13 mm Parker			50	28		24			nickel plated	26SFTP13MXN
 with Plastic Hose Connection	4 x 6 mm			34	7	6	12		M 10 x 1	blank	26SFKO06MXX
	4 x 6 mm			34	7	6	12		M 10 x 1	nickel plated	26SFKO06MXN
	6 x 8 mm			34	7	6	12		M 12 x 1	blank	26SFKO08MXX
	6 x 8 mm			34	7	6	12		M 12 x 1	nickel plated	26SFKO08MXN
	8 x 10 mm	17		42	9	6			M 16 x 1	blank	26SFKO10MXX
	8 x 10 mm	17		42	9	6			M 16 x 1	nickel plated	26SFKO10MXN
	9 x 12 mm	17		42	9	8			M 16 x 1	blank	26SFKO12MXX
	9 x 12 mm	17		42	9	8			M 16 x 1	nickel plated	26SFKO12MXN
 Panel Mount with Hose Barb	6 mm	14	17	56	17	14	4		M 12 x 1	blank	26SFTS06MXX
	6 mm	14	17	56	17	14	4		M 12 x 1	nickel plated	26SFTS06MXN
	8 mm	17	17	56	17	14	4		M 12 x 1	blank	26SFTS08MXX
	8 mm	17	17	56	17	14	4		M 12 x 1	nickel plated	26SFTS08MXN
	10 mm	17	19	56	17	14	4		M 14 x 1	blank	26SFTS10MXX
	10 mm	17	19	56	17	14	4		M 14 x 1	nickel plated	26SFTS10MXN
 Plastic Hose Connection with Spring Guard	4 x 6 mm			120	7	6	12		M 10 x 1	blank	26SFKK06MXX
	4 x 6 mm			120	7	6	12		M 10 x 1	nickel plated	26SFKK06MXN
	6 x 8 mm			127	7	6	12		M 12 x 1	blank	26SFKK08MXX
	6 x 8 mm			127	7	6	12		M 12 x 1	nickel plated	26SFKK08MXN
	8 x 10 mm	17		135	9	8			M 16 x 1	blank	26SFKK10MXX
	8 x 10 mm	17		135	9	8			M 16 x 1	nickel plated	26SFKK10MXN
	9 x 12 mm	17		142	9	8			M 16 x 1	blank	26SFKK12MXX
	9 x 12 mm	17		142	9	8			M 16 x 1	nickel plated	26SFKK12MXN
 Recoil Eliminator with Hose Barb	6 mm	21		60	25					blank	26SRTF06MXX
	6 mm	21		60	25					nickel plated	26SRTF06MXN
	8 mm	21		60	25					blank	26SRTF08MXX
	8 mm	21		60	25					nickel plated	26SRTF08MXN
	9 mm	21		60	25					blank	26SRTF09MXX
	9 mm	21		60	25					nickel plated	26SRTF09MXN
	10 mm	21		60	25					blank	26SRTF10MXX
	10 mm	21		60	25					Nickel Plated	26SRTF10MXN
	13 mm	21		60	25					blank	26SRTF13MXX
	13 mm	21		60	25					nickel plated	26SRTF13MXN

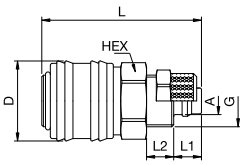
Couplings – with valve

Series 26KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	22		43	9		25			blank	26KBAW10MPX
	G 1/8	22		43	9		25			nickel plated	26KBAW10MPN
	G 1/4	22		39	9		25			blank	26KBAW13MPX
	G 1/4	22		39	9		25			nickel plated	26KBAW13MPN
	G 3/8	22		41	9		25			blank	26KBAW17MPX
	G 3/8	22		41	9		25			nickel plated	26KBAW17MPN
	G 1/2	24		42	10		25			blank	26KBAW21MPX
	G 1/2	24		42	10		25			nickel plated	26KBAW21MPN
	M 16 x 1,5	22		43	11		25			blank	26KBAD16MPX
	M 16 x 1,5	22		43	11		25			nickel plated	26KBAD16MPN
	M 18 x 1,5	22		43	11		25			blank	26KBAD18MPX
	M 18 x 1,5	22		43	11		25			nickel plated	26KBAD18MPN
 Female Thread	G 1/4	22		41	9		25			blank	26KBIW13MPX
	G 1/4	22		41	9		25			nickel plated	26KBIW13MPN
	G 3/8	22		41	9		25			blank	26KBIW17MPX
	G 3/8	22		41	9		25			nickel plated	26KBIW17MPN
	G 1/2	24		44	10		25			blank	26KBIW21MPX
	G 1/2	24		44	10		25			nickel plated	26KBIW21MPN
	M 16 x 1,5	22		44	9		25			blank	26KBIM16MPX
	M 16 x 1,5	22		44	9		25			nickel plated	26KBIM16MPN
	M 18 x 1,5	22		44	9		25			blank	26KBIM18MPX
	M 18 x 1,5	22		44	9		25			nickel plated	26KBIM18MPN
 Hose Barb	6 mm	21		58	25		25			blank	26KBTF06MPX
	6 mm	21		58	25		25			nickel plated	26KBTF06MPN
	8 mm	21		58	25		25			blank	26KBTF08MPX
	8 mm	21		58	25		25			nickel plated	26KBTF08MPN
	9 mm	21		58	25		25			blank	26KBTF09MPX
	9 mm	21		58	25		25			nickel plated	26KBTF09MPN
	10 mm	21		58	25		25			blank	26KBTF10MPX
	10 mm	21		58	25		25			nickel plated	26KBTF10MPN
	13 mm	21		58	25		25			blank	26KBTF13MPX
	13 mm	21		58	25		25			nickel plated	26KBTF13MPN
	6 mm Parker	21		58	25		25			blank	26KBTP06MPX
	6 mm Parker	21		58	25		25			nickel plated	26KBTP06MPN
	10 mm Parker	21		58	24		25			blank	26KBTP10MPX
	10 mm Parker	21		58	24		25			nickel plated	26KBTP10MPN
	13 mm Parker	21		58	28		25			blank	26KBTP13MPX
	13 mm Parker	21		58	28		25			nickel plated	26KBTP13MPN

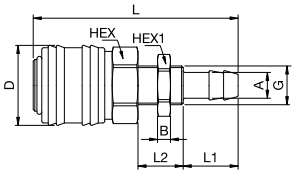
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 26KB



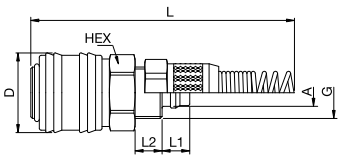
with Plastic Hose Connection

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 x 8 mm	21		45	7	6	25		M 12 x 1	blank	26KBKO08MPX
6 x 8 mm	21		45	7	6	25		M 12 x 1	nickel plated	26KBKO08MPN
8 x 10 mm	21		49	9	8	25		M 16 x 1	blank	26KBKO10MPX
8 x 10 mm	21		49	9	8	25		M 16 x 1	nickel plated	26KBKO10MPN
9 x 12 mm	21		49	9	8	25		M 16 x 1	blank	26KBKO12MPX
9 x 12 mm	21		49	9	8	25		M 16 x 1	nickel plated	26KBKO12MPN



Panel Mount with Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm	21	17	60	17	10	25	4	M 12 x 1	blank	26KBTS06MPX
6 mm	21	17	60	17	10	25	4	M 12 x 1	nickel plated	26KBTS06MPN
8 mm	21	17	63	17	14	25	4	M 12 x 1	blank	26KBTS08MPX
8 mm	21	17	63	17	14	25	4	M 12 x 1	nickel plated	26KBTS08MPN
10 mm	21	17	72	25	14	25	4	G 1/4	blank	26KBTS10MPX
10 mm	21	17	72	25	14	25	4	G 1/4	nickel plated	26KBTS10MPN



Plastic Hose Connection with Spring Guard

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 x 8 mm	21		132	7	6	25		M 12 x 1	blank	26KBKK08MPX
6 x 8 mm	21		132	7	6	25		M 12 x 1	nickel plated	26KBKK08MPN
8 x 10 mm	21		143	9	8	25		M 16 x 1	blank	26KBKK10MPX
8 x 10 mm	21		143	9	8	25		M 16 x 1	nickel plated	26KBKK10MPN
9 x 12 mm	21		150	9	8	25		M 16 x 1	blank	26KBKK12MPX
9 x 12 mm	21		150	9	8	25		M 16 x 1	nickel plated	26KBKK12MPN

Plugs – with valve — Series 26KB

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number

The right plug for series 26KB can be found under series 25KB from page 102.

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 43 mm²

Tema Series

1300



Other designs in series 1300
The following other designs can be found from page:

➤ Stainless Steel P. 204

Technical Description
Series 1300 is used mainly for applications in the area of compressed air and liquids. Optimally suited to smaller to medium-sized pneumatic systems and to compressed air tools. The coupling series stands out for its compact design and high flow rates with the UltraFlo valve. Coupling body made of nitrocarburized steel.

Dust Protections (P. 319)
for Coupling Part.-No. 1315-QC
for Plug Part.-No. 1325-QC

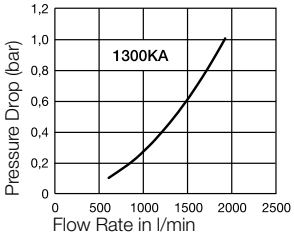
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

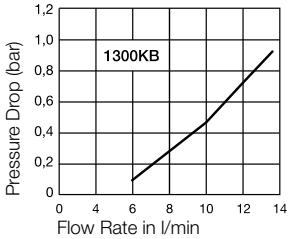
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Features	
• Single-hand operation	• Two-hand operation • Special sealing system in the coupling increases the service life of the coupling
Material	
Coupling: Brass nickel plated and chrome plated **Plug:** Steel zinc plated **Seals:** NBR	**Coupling:** Brass nickel plated and chrome plated **Plug:** Brass nickel plated and chrome plated **Seals:** NBR
Interchangeability	
• Rectus Serie 31 • Cejn 303	

Flow diagrams

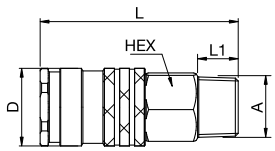
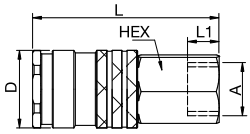
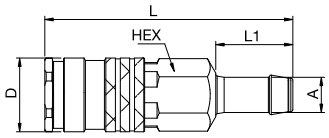
Air



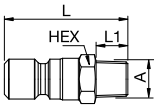
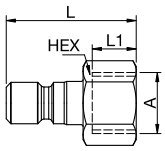
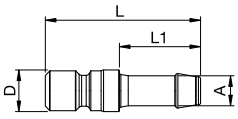
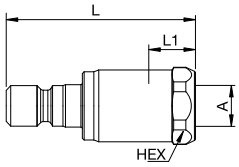
Water



Couplings – with valve — Series 1300KA

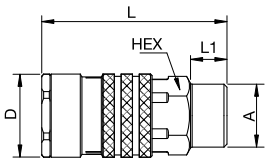
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		58	12		22				1300KAAK13MPN
	R 3/8	19		56	12		22				1300KAAK17MPN
	R 1/2	23		59	14		26				1300KAAK21MPN
 Female Thread	G 1/4	19		55	9		22				1300KAIW13MPN
	G 3/8	20		55	10		22				1300KAIW17MPN
 Hose Barb	6 mm	19		78	23		22				1300KATF06MPN
	8 mm	19		78	23		22				1300KATF08MPN
	10 mm	19		78	23		22				1300KATF10MPN
	13 mm	19		77	24		22				1300KATF13MPN

Plugs – without valve — Series 1300KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
	R 1/8	13		35	9						1300SFAK10SXZ
 Male Thread	R 1/4	14		38	12						1300SFAK13SXZ
	G 1/4	14		35	12						1300SFAW13SXZ
	R 3/8	17		38	12						1300SFAK17SXZ
	R 1/2	22		40	14						1300SFAK21SXZ
 Female Thread	G 1/8	13		32	8,5						1300SFIW10SXZ
	G 1/4	16		36	10						1300SFIW13SXZ
	G 3/8	20		36	10						1300SFIW17SXZ
	G 1/2	25		39	12						1300SFIW21SXZ
	6 mm			44	23		12				1300SFTF06SXZ
 Hose Barb	8 mm			44	23		12				1300SFTF08SXZ
	10 mm			44	24		12				1300SFTF10SXZ
	12 mm			47	23		12				1300SFTF12SXZ
 Recoil Eliminator, with Female Thread	G 1/4	20		53	12						1300SRIW13SXZ

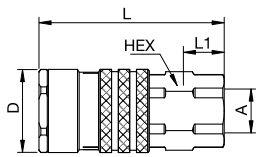
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 1300KB



Male Thread

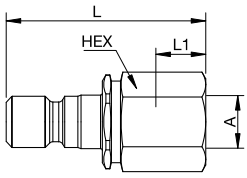
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 3/8	18		49	7,5		22				1300KBAK17MPN



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	18		49	8		22				1300KBIW13MPN
G 3/8	18		50	8		22				1300KBIW17MPN

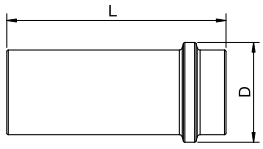
Plugs – with valve — Series 1300KB



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	18		44	9						1300SBIW13MPC

Protective Sleeve — Series 1300KB



Female Thread

Description	L mm	L1 mm	L2 mm	D mm	B mm	Material	Color	Part Number
for Couplings 1300KB	73			33		EBA	blue	1300-351

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Male Thread	R 1/4	31KAAK13SPN	1300 EC	**1300KAAK13MPN**	75
	R 3/8	31KAAK17SPN	1300 EA	**1300KAAK17MPN**	75
	R 1/2	31KAAK21SPN	1300 ED	**1300KAAK21MPN**	75
Female Thread	G 1/4	31KAIW13SPN	1300 E	**1300KAIW13MPN**	75
	G 3/8	31KAIW17SPN	1300 EB	**1300KAIW17MPN**	75
Hose Barb	6 mm	31KATF06SPN	1300 EK06	**1300KATF06MPN**	75
	8 mm	31KATF08SPN	1300 EK08	**1300KATF08MPN**	75
	10 mm	31KATF10SPN	1300 EK10	**1300KATF10MPN**	75
	13 mm	31KATF13SPN	1300 EK12	**1300KATF13MPN**	75
Plugs – without valve					
Male Thread	R 1/8	31SFAK10SXZ	13110-QC	**1300SFAK10SXZ**	75
	R 1/4	31SFAK13SXZ	13210 A	**1300SFAK13SXZ**	75
	G 1/4	31SFAW10SXZ	13210-QC	**1300SFAW13SXZ**	75
	R 3/8	31SFAK17SXZ	13220	**1300SFAK17SXZ**	75
	R 1/2	31SFAK21SXZ	13230	**1300SFAK21SXZ**	75
Female Thread	G 1/8	31SFIW10SXZ	13405	**1300SFIW10SXZ**	75
	G 1/4	31SFIW13SXZ	13410	**1300SFIW13SXZ**	75
	G 3/8	31SFIW17SXZ	13420	**1300SFIW17SXZ**	75
	G 1/2	31SFIW21SXZ	13430-QC	**1300SFIW21SXZ**	75
Hose Barb	6 mm	31SFTF06SXZ	13006	**1300SFTF06SXZ**	75
	8 mm	31SFTF08SXZ	13008-QC	**1300SFTF08SXZ**	75
	10 mm	31SFTF10SXZ	13010-QC	**1300SFTF10SXZ**	75
	12 mm	31SFTF13SXZ	13012-QC	**1300SFTF12SXZ**	75
Recoil Eliminator	G 1/4	-	13410 S	**1300SRIW13SXZ**	75
Couplings – with valve					
Male Thread	R 3/8	-	1300 NA	**1300KBAK17MPN**	76
Female Thread	G 1/4	-	1300 N	**1300KBIW13MPN**	76
	G 3/8	-	1300 NB	**1300KBIW17MPN**	76
Plugs – with valve					
Female Thread	G 1/4	-	13410 MN	**1300SBIW13MPC**	76

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,5 = 45 mm²

Rectus Series

13



Technical Description
Robust brass coupling with Japanese industrial profile.
Coupling system with single-hand operation. Above average flow volumes and structure resistant to the effects of external forces.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

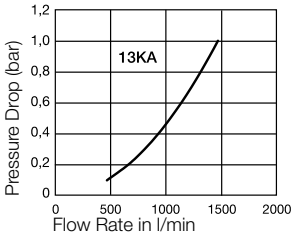
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

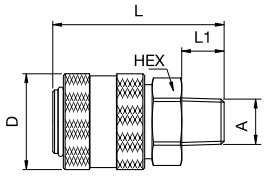
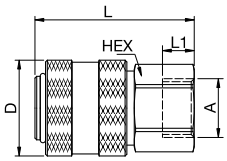
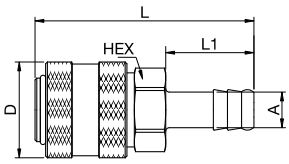
Material
Coupling: Brass nickel plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- Nitto-Kohki 200
- Cejn 314
- Cejn 315

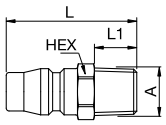
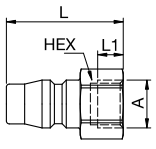
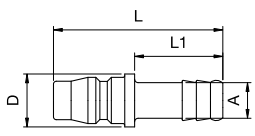
Flow diagrams
Air



Coupling – with valve — Series 13KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	22		49	12		27			blank	13KAAK13MPX
	R 1/4	22		49	12		27			nickel plated	13KAAK13MPN
	R 3/8	22		49	12		27			blank	13KAAK17MPX
	R 3/8	22		49	12		27			nickel plated	13KAAK17MPN
	R 1/2	22		53	17		27			blank	13KAAK21MPX
	R 1/2	22		53	17		27			nickel plated	13KAAK21MPN
 Female Thread	G 1/4	22		45	9		27			blank	13KAIW13MPX
	G 1/4	22		45	9		27			nickel plated	13KAIW13MPN
	G 3/8	22		45	9		27			blank	13KAIW17MPX
	G 3/8	22		45	9		27			nickel plated	13KAIW17MPN
	G 1/2	24		48	12		27			blank	13KAIW21MPX
	G 1/2	24		48	12		27			nickel plated	13KAIW21MPN
 Hose Barb	6 mm	21		62	25		27			blank	13KATF06MPX
	6 mm	21		62	25		27			nickel plated	13KATF06MPN
	8 mm	21		62	25		27			blank	13KATF08MPX
	8 mm	21		62	25		27			nickel plated	13KATF08MPN
	10 mm	21		62	25		27			blank	13KATF10MPX
	10 mm	21		62	25		27			nickel plated	13KATF10MPN
	13 mm	21		62	25		27			blank	13KATF13MPX
	13 mm	21		62	25		27			nickel plated	13KATF13MPN

Plugs – without valve — Series 13KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	14		37	12						13SFAK13SXN
	R 3/8	17		37	12						13SFAK17SXN
	R 1/2	22		44	17						13SFAK21SXN
 Female Thread	G 1/4	17		34	9						13SFIW13SXN
	G 3/8	19		34	9						13SFIW17SXN
 Hose Barb	6 mm			48	25		15				13SFTF06SXN
	8 mm			48	25		15				13SFTF08SXN
	10 mm			48	25		15				13SFTF10SXN
	13 mm			48	25		15				13SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

25



Technical Description
Universal industrial coupling with standard European profile.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The series stands out for its robust design and long service life even with the harshest use.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

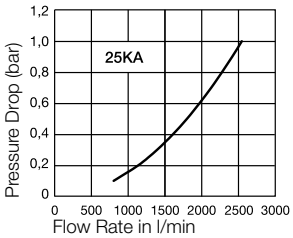
Other designs in series 25
The following other designs can be found from page:

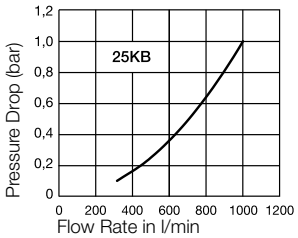
➤ Stainless Steel P. 208
➤ Safety P. 274
➤ Safety Self-Venting P. 294
➤ Coded Systems P. 302

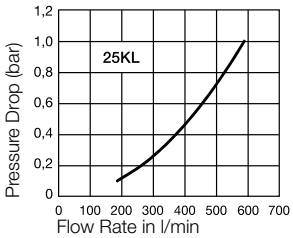
KA Single Shut-Off	KB Double Shut-Off	KL Leak-Free
Working Pressure**		
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar	8 bar
Features		
• Brass coupling and plug for use with water • Robust coupling system with steel sleeve		• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process • Brass valved plug available blank
Material		
Coupling: Brass / Steel nickel plated **Plug:** Steel zinc plated or Brass (Serie 26) **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass nickel plated **Plug:** Brass nickel plated **Seals:** NBR
Interchangeability		
• Rectus 26 • Rectus 1600/1625 • Cejn 320 • JWL 520 + JWL 530 • various German Products		

Flow diagrams

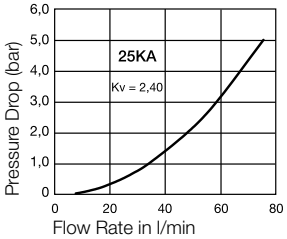
Air

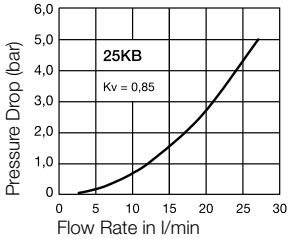


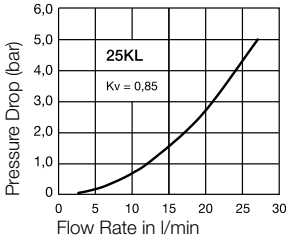




Water

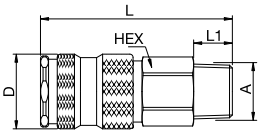
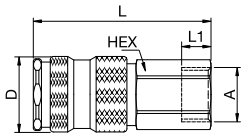
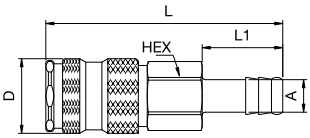
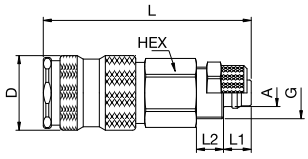
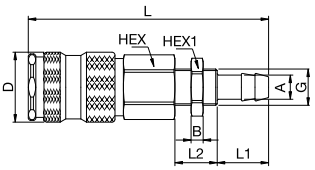
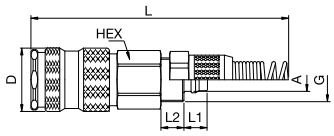






Coupling – with valve

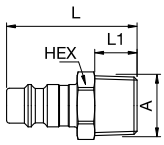
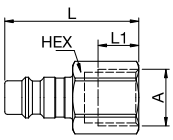
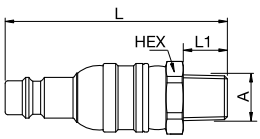
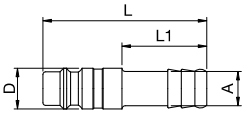
Series 25KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		23				25KAAK13MPN
	R 3/8	19		60	12		23				25KAAK17MPN
	R 1/2	22		61	17		23				25KAAK21MPN
	M 14 x 1,5	19		59	10		23				25KAAD14MPN
	M 16 x 1,5	19		60	11		23				25KAAD16MPN
	M 18 x 1,5	19		60	11		23				25KAAD18MPN
 Female Thread	G 1/4	19		56	10		23				25KAIW13MPN
	G 3/8	19		55	9		23				25KAIW17MPN
	G 1/2	24		58	12		23				25KAIW21MPN
	M 14 x 1,5	19		55	9		23				25KAIM14MPN
	M 16 x 1,5	19		55	9		23				25KAIM16MPN
	M 18 x 1,5	22		56	9		23				25KAIM18MPN
 Hose Barb	6 mm	19		74	25		23				25KATF06MPN
	8 mm	19		74	25		23				25KATF08MPN
	9 mm	19		74	25		23				25KATF09MPN
	10 mm	19		74	25		23				25KATF10MPN
	13 mm	19		74	25		23				25KATF13MPN
	6 mm Parker	19		69	20		23				25KATP06MPN
	10 mm Parker	19		73	24		23				25KATP10MPN
	13 mm Parker	19		76	28		23				25KATP13MPN
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M 12 x 1		25KAKO08MPN
	8 x 10 mm	19		65	9	8	23		M 16 x 1		25KAKO10MPN
	9 x 12 mm	19		65	9	8	23		M 16 x 1		25KAKO12MPN
 Panel Mount with Hose Barb	6 mm	19	17	76	17	10	23	4	M 12 x 1		25KATS06MPN
	8 mm	19	17	80	17	14	23	4	M 12 x 1		25KATS08MPN
	10 mm	19	17	87	25	14	23	4	G 1/4		25KATS10MPN
 Plastic Hose Connection with Spring Guard	6 x 8 mm	19		144	7	6	23		M 12 x 1		25KAKK08MPN
	8 x 10 mm	19		155	9	8	23		M 16 x 1		25KAKK10MPN
	9 x 12 mm	19		162	9	8	23		M 16 x 1		25KAKK12MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

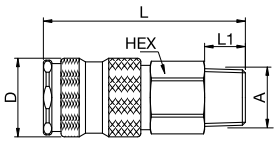
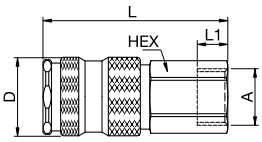
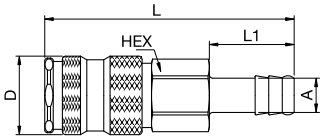
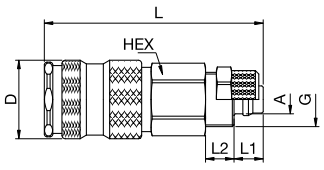
Series 25KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9						25SFAK10SXZ
	R 1/4	14		36,5	12						25SFAK13SXZ
	R 3/8	17		37	12						25SFAK17SXZ
	R 1/2	22		43	17						25SFAK21SXZ
	M 14 x 1,5	17		35	10						25SFAD14SXZ
	M 16 x 1,5	19		36	11						25SFAD16SXZ
	M 18 x 1,5	22		37	11						25SFAD18SXZ
 Female Thread	G 1/8	14		30	5						25SFIW10SXZ
	G 1/4	17		38,5	12						25SFIW13SXZ
	G 3/8	19		39,5	12						25SFIW17SXZ
	G 1/2	24		44	14						25SFIW21SXZ
	M 14 x 1,5	17		33	8						25SFIM14SXZ
	M 16 x 1,5	19		33	10						25SFIM16SXZ
	M 18 x 1,5	22		36	13						25SFIM18SXZ
 Flex Joint, Male Thread	R 1/4	17		64	11					nickel plated	25FAAK13SPN
 Hose Barb	6 mm			48	25		12				25SFTF06SXZ
	8 mm			48	25		12				25SFTF08SXZ
	9 mm			48	25		12				25SFTF09SXZ
	10 mm			48	25		12				25SFTF10SXZ
	13 mm			48	25		15				25SFTF13SXZ

The right plug in brass design can be found under series 26 from page 87.

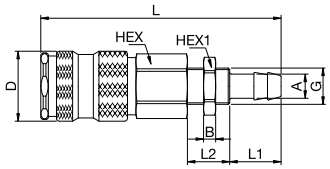
Coupling – with valve

Series 25KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		23			blank	25KBAK13BPX
	R 1/4	19		60	12		23			nickel plated	25KBAK13BPN
	R 3/8	19		59	10,5		23			blank	25KBAK17BPX
	R 3/8	19		59	10,5		23			nickel plated	25KBAK17BPN
	R 1/2	22		57,5	9		23			blank	25KBAK21BPX
	R 1/2	22		57,5	9		23			nickel plated	25KBAK21BPN
	M 14 x 1,5	19		59	10		23			blank	25KBAD14BPX
	M 14 x 1,5	19		59	10		23			nickel plated	25KBAD14BPN
	M 16 x 1,5	19		60	11		23			blank	25KBAD16BPX
	M 16 x 1,5	19		60	11		23			nickel plated	25KBAD16BPN
	M 18 x 1,5	19		60	11		23			blank	25KBAD18BPX
	M 18 x 1,5	19		60	11		23			nickel plated	25KBAD18BPN
 Female Thread	G 1/4	19		56	10		23			blank	25KBIW13BPX
	G 1/4	19		56	10		23			nickel plated	25KBIW13BPN
	G 3/8	19		55	9		23			blank	25KBIW17BPX
	G 3/8	19		55	9		23			nickel plated	25KBIW17BPN
	G 1/2	24		58	12		23			blank	25KBIW21BPX
	G 1/2	24		58	12		23			nickel plated	25KBIW21BPN
	M 16 x 1,5	19		55	9		23			blank	25KBIM16BPX
	M 16 x 1,5	19		55	9		23			nickel plated	25KBIM16BPN
	M 18 x 1,5	22		56	9		23			blank	25KBIM18BPX
	M 18 x 1,5	22		56	9		23			nickel plated	25KBIM18BPN
 Hose Barb	6 mm	19		74	25		23			blank	25KBTF06BPX
	6 mm	19		74	25		23			nickel plated	25KBTF06BPN
	8 mm	19		74	25		23			blank	25KBTF08BPX
	8 mm	19		74	25		23			nickel plated	25KBTF08BPN
	9 mm	19		74	25		23			blank	25KBTF09BPX
	9 mm	19		74	25		23			nickel plated	25KBTF09BPN
	10 mm	19		74	25		23			blank	25KBTF10BPX
	10 mm	19		74	25		23			nickel plated	25KBTF10BPN
	13 mm	19		74	25		23			blank	25KBTF13BPX
	13 mm	19		74	25		23			nickel plated	25KBTF13BPN
	10 mm Parker	19		73	24		23			blank	25KBTP10BPX
	10 mm Parker	19		73	24		23			nickel plated	25KBTP10BPN
	13 mm Parker	19		76	28		23			blank	25KBTP13BPX
	13 mm Parker	19		76	28		23			nickel plated	25KBTP13BPN
 with Plastic Hose Connection	8 x 10 mm	19		65	9	8	23		M 16 x 1	blank	25KBKO10BPX
	8 x 10 mm	19		65	9	8	23		M 16 x 1	nickel plated	25KBKO10BPN
	9 x 12 mm	19		65	9	8	23		M 16 x 1	blank	25KBKO12BPX
	9 x 12 mm	19		65	9	8	23		M 16 x 1	nickel plated	25KBKO12BPN

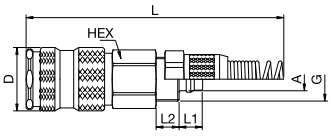
⚠ Please consider our security advices on the pages 12/13 ⚠

Coupling – with valve — Series 25KB



Panel Mount with Hose Barb

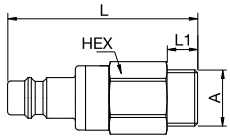
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm	19	17	76	17	10	23	4	M 12 x 1	blank	25KBTS06BPX
6 mm	19	17	76	17	10	23	4	M 12 x 1	nickel plated	25KBTS06BPN
8 mm	19	17	80	17	14	23	4	M 12 x 1	blank	25KBTS08BPX
8 mm	19	17	80	17	14	23	4	M 12 x 1	nickel plated	25KBTS08BPN
10 mm	19	17	76	17	10	23	4	M 12 x 1	blank	25KBTS10BPX
10 mm	19	17	76	17	10	23	4	M 12 x 1	nickel plated	25KBTS10BPN



Plastic Hose Connection with Spring Guard

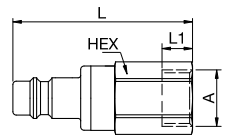
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 x 8 mm	19		144	7	6	23		M 12 x 1	blank	25KBKK08BPX
6 x 8 mm	19		144	7	6	23		M 12 x 1	nickel plated	25KBKK08BPN
9 x 12 mm	19		162	9	8	23		M 16 x 1	blank	25KBKK12BPX
9 x 12 mm	19		162	9	8	23		M 16 x 1	nickel plated	25KBKK12BPN

Plugs – with valve — Series 25KB



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	22		44,5	9					blank	25SBAW10MPX
G 1/8	22		44,5	9					nickel plated	25SBAW10MPN
G 1/4	22		43	9					blank	25SBAW13MPX
G 1/4	22		43	9					nickel plated	25SBAW13MPN
G 3/8	22		43	9					blank	25SBAW17MPX
G 3/8	22		43	9					nickel plated	25SBAW17MPN
G 1/2	22		46	12					blank	25SBAW21MPX
G 1/2	22		46	12					nickel plated	25SBAW21MPN
M 14 x 1,5	22		44	10					blank	25SBAD14MPX
M 14 x 1,5	22		44	10					nickel plated	25SBAD14MPN
M 16 x 1,5	22		45	11					blank	25SBAD16MPX
M 16 x 1,5	22		45	11					nickel plated	25SBAD16MPN
M 18 x 1,5	22		45	11					blank	25SBAD18MPX
M 18 x 1,5	22		45	11					nickel plated	25SBAD18MPN

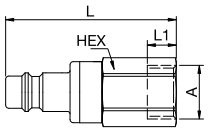
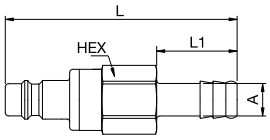
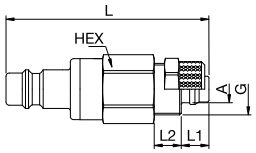
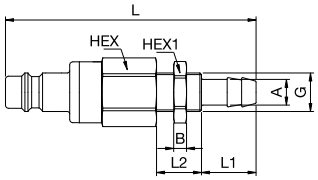
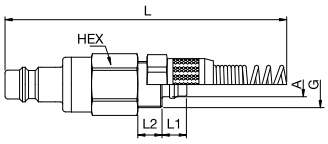


Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		43	10					blank	25SBIW13MPX
G 1/4	22		43	10					nickel plated	25SBIW13MPN
G 3/8	22		43	9					blank	25SBIW17MPX
G 3/8	22		43	9					nickel plated	25SBIW17MPN
G 1/2	24		46	9					blank	25SBIW21MPX
G 1/2	24		46	9					nickel plated	25SBIW21MPN
M 14 x 1,5	22		43	9					blank	25SBIM14MPX
M 14 x 1,5	22		43	9					nickel plated	25SBIM14MPN

Plugs – with valve

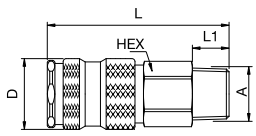
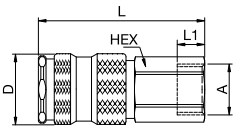
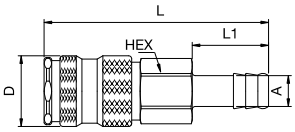
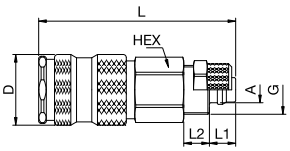
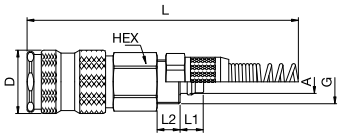
Series 25KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	M 16 x 1,5	22		43	9					blank	25SBIM16MPX
	M 16 x 1,5	22		43	9					nickel plated	25SBIM16MPN
	M 18 x 1,5	22		43	9					blank	25SBIM18MPX
	M 18 x 1,5	22		43	9					nickel plated	25SBIM18MPN
 Hose Barb	6 mm	21		60	25					blank	25SBTF06MPX
	6 mm	21		60	25					nickel plated	25SBTF06MPN
	8 mm	21		60	25					blank	25SBTF08MPX
	8 mm	21		60	25					nickel plated	25SBTF08MPN
	9 mm	21		60	25					blank	25SBTF09MPX
	9 mm	21		60	25					nickel plated	25SBTF09MPN
	10 mm	21		60	25					blank	25SBTF10MPX
	10 mm	21		60	25					nickel plated	25SBTF10MPN
	13 mm	21		60	25					blank	25SBTF13MPX
	13 mm	21		60	25					nickel plated	25SBTF13MPN
	6 mm Parker	19		67,5	20,5					blank	25SBTP06MPX
	6 mm Parker	19		67,5	20,5					nickel plated	25SBTP06MPN
	10 mm Parker	19		71	24					blank	25SBTP10MPX
	10 mm Parker	19		71	24					nickel plated	25SBTP10MPN
	13 mm Parker	19		83	28					blank	25SBTP13MPX
	13 mm Parker	19		83	28					nickel plated	25SBTP13MPN
 with Plastic Hose Connection	4 x 6 mm	21		47	7	6			M 10 x 1	blank	25SBKO06MPX
	4 x 6 mm	21		47	7	6			M 10 x 1	nickel plated	25SBKO06MPN
	6 x 8 mm	21		47	7	6			M 12 x 1	blank	25SBKO08MPX
	6 x 8 mm	21		47	7	6			M 12 x 1	nickel plated	25SBKO08MPN
	8 x 10 mm	21		51	8,5	8,5			M 16 x 1	blank	25SBKO10MPX
	8 x 10 mm	21		51	8,5	8,5			M 16 x 1	nickel plated	25SBKO10MPN
	9 x 12 mm	21		51	8,5	8,5			M 16 x 1	blank	25SBKO12MPX
	9 x 12 mm	21		51	8,5	8,5			M 16 x 1	nickel plated	25SBKO12MPN
 Panel Mount with Hose Barb	6 mm	21	17	62	17	10		4	M 12 x 1	blank	25SBTS06MPX
	6 mm	21	17	62	17	10		4	M 12 x 1	nickel plated	25SBTS06MPN
	8 mm	21	17	65	17	14		4	M 12 x 1	blank	25SBTS08MPX
	8 mm	21	17	65	17	14		4	M 12 x 1	nickel plated	25SBTS08MPN
	10 mm	21	17	74	25	14		3,5	G 1/4	blank	25SBTS10MPX
	10 mm	21	17	74	25	14		3,5	G 1/4	nickel plated	25SBTS10MPN
 Plastic Hose Connection with Spring Guard	4 x 6 mm	19		120	7	6			M 10 x 1	blank	25SBKK06MPX
	4 x 6 mm	19		120	7	6			M 10 x 1	nickel plated	25SBKK06MPN
	6 x 8 mm	19		135	7	6			M 12 x 1	blank	25SBKK08MPX
	6 x 8 mm	19		135	7	6			M 12 x 1	nickel plated	25SBKK08MPN
	8 x 10 mm	19		145	8,5	8,5			M 16 x 1	blank	25SBKK10MPX
	8 x 10 mm	19		145	8,5	8,5			M 16 x 1	nickel plated	25SBKK10MPN
	9 x 12 mm	19		150	8,5	8,5			M 16 x 1	blank	25SBKK12MPX
	9 x 12 mm	19		150	8,5	8,5			M 16 x 1	nickel plated	25SBKK12MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

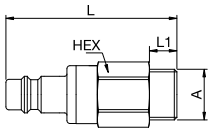
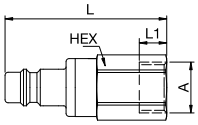
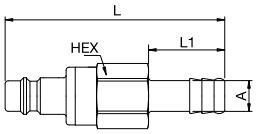
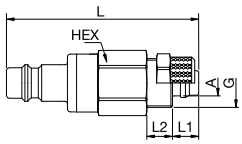
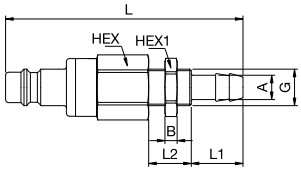
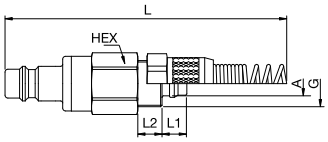
Coupling – flat-sealing

Series 25KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		23				25KLAK13BPN
	R 3/8	19		60	12		23				25KLAK17BPN
	R 1/2	22		61	17		23				25KLAK21BPN
 Female Thread	G 1/4	19		56	10		23				25KLIW13BPN
	G 3/8	19		55	9		23				25KLIW17BPN
	G 1/2	24		58	12		23				25KLIW21BPN
	M 14 x 1,5	19		55	9		23				25KLIM14BPN
	M 16 x 1,5	19		55	9		23				25KLIM16BPN
	M 18 x 1,5	22		56	9		23				25KLIM18BPN
 Hose Barb	6 mm	19		74	25		23				25KLTF06BPN
	8 mm	19		74	25		23				25KLTF08BPN
	9 mm	19		74	25		23				25KLTF09BPN
	10 mm	19		74	25		23				25KLTF10BPN
	13 mm	19		74	25		23				25KLTF13BPN
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M 12 x 1		25KLKO08BPN
	8 x 10 mm	19		64,5	9	8	23		M 16 x 1		25KLKO10BPN
	9 x 12 mm	19		64,5	9	8	23		M 16 x 1		25KLKO12BPN
 Plastic Hose Connection with Spring Guard	6 x 8 mm	19		144	7	6	23		M 12 x 1		25KLKK08BPN
	8 x 10 mm	19		155	9	8	23		M 16 x 1		25KLKK10BPN
	9 x 12 mm	19		162	9	8	23		M 16 x 1		25KLKK12BPN

Plugs – flat-sealing

Series 25KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		43	9						25SLAW13MPN
	G 3/8	22		43	9						25SLAW17MPN
	G 1/2	22		46	12						25SLAW21MPN
	M 14 x 1,5	22		44	10						25SLAD14MPN
	M 16 x 1,5	22		45	11						25SLAD16MPN
	M 18 x 1,5	22		45	11						25SLAD18MPN
 Female Thread	G 1/4	22		43	10						25SLIW13MPN
	G 3/8	22		43	9						25SLIW17MPN
	G 1/2	24		46	12						25SLIW21MPN
	M 14 x 1,5	22		43	9						25SLIM14MPN
	M 16 x 1,5	22		43	9						25SLIM16MPN
	M 18 x 1,5	22		43	9						25SLIM18MPN
 Hose Barb	9 mm	21		60	25						25SLTF09MPN
	10 mm	21		60	25						25SLTF10MPN
	13 mm	21		60	25						25SLTF13MPN
 with Plastic Hose Connection	6 x 8 mm	21		47	7	6			M 12 x 1		25SLKO08MPN
	8 x 10 mm	21		51	8,5	8,5			M 16 x 1		25SLKO10MPN
	9 x 12 mm	21		51	8,5	8,5			M 16 x 1		25SLKO12MPN
 Panel Mount with Hose Barb	6 mm	21	17	62	17	10		4	M 12 x 1		25SLTS06MPN
	10 mm	21	7	74	25	14		3,5	G 1/4		25SLTS10MPN
 Plastic Hose Connection with Spring Guard	6 x 8 mm	19		135	7	6			M 12 x 1		25SLKK08MPN
	8 x 10 mm	19		145	8,5	8,5			M 16 x 1		25SLKK10MPN
	9 x 12 mm	19		150	8,5	8,5			M 16 x 1		25SLKK12MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

1600



Other designs in series 1600
The following other designs can be found from page:

➤ Safety Self-Venting P. 294

Technical Description
Rectus Tema premium industrial coupling 3/8" with European standard profile. Suitable for compressed air applications with greater than average air consumption.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop.

Dust Protections (P. 319)
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

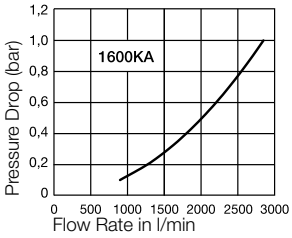
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

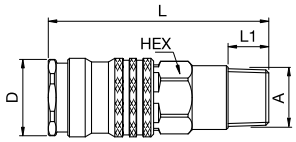
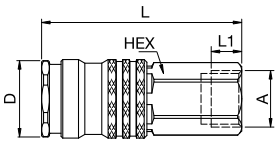
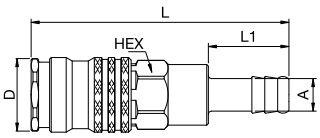
Material
Coupling: Brass nickel plated, Steel QPQ treated
Plug: Steel zinc plated
Seals: NBR

Interchangeability
- Rectus 25 + 26
- Rectus 1625
- Cejn 320
- JWL 520 + JWL 530
- various German Products

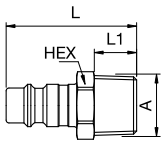
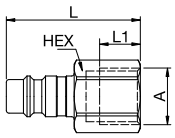
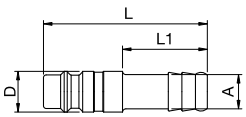
Flow diagrams
Air



Coupling – with valve — Series 1600KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		65	12		23				1600KAAK13SPN
	R 3/8	19		65	12		23				1600KAAK17SPN
	R 1/2	22		59,5	17		23				1600KAAK21SPN
 Female Thread	G 1/4	19		59	9		23				1600KAIW13SPN
	G 3/8	19		59	9		23				1600KAIW17SPN
	G 1/2	24		62	12		23				1600KAIW21SPN
 Hose Barb	6 mm	19		80	25		23				1600KATF06SPN
	8 mm	19		80	25		23				1600KATF08SPN
	9 mm	19		80	25		23				1600KATF09SPN
	10 mm	19		80	25		23				1600KATF10SPN
	13 mm	19		80	25		23				1600KATF13SPN

Plugs – without valve — Series 25SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9						25SFAK10SXZ
	R 1/4	14		37	12						25SFAK13SXZ
	R 3/8	17		37	12						25SFAK17SXZ
	R 1/2	22		43	17						25SFAK21SXZ
 Female Thread	G 1/8	14		30	7						25SFIW10SXZ
	G 1/4	17		38,5	9						25SFIW13SXZ
	G 3/8	19		39,5	9						25SFIW17SXZ
	G 1/2	24		44	12						25SFIW21SXZ
 Hose Barb	6 mm			48	25		12				25SFTF06SXZ
	8 mm			48	25		12				25SFTF08SXZ
	9 mm			48	25		12				25SFTF09SXZ
	10 mm			48	25		12				25SFTF10SXZ
	13 mm			48	25		15				25SFTF13SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

1625



Technical Description
Rectus Tema premium industrial coupling 3/8" with European standard profile. Suitable for compressed air applications with greater than average air consumption.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Extremely robust and ergonomically shaped, 2-component plastic sleeve.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +40°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +40°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

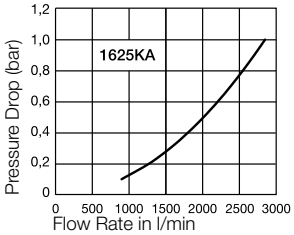
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

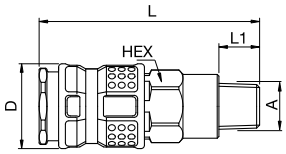
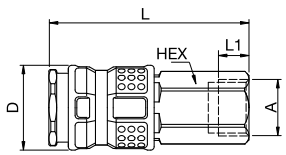
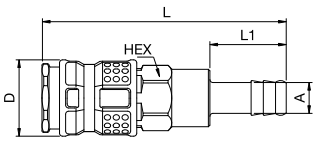
Material
Coupling: Brass nickel plated, Steel QPQ treated, PA6+TPE
Plug: Steel zinc plated
Seals: NBR

Interchangeability
- Rectus 25 + 26
- Rectus 1600
- Cejn 320
- JWL 520 + JWL 530
- various German Products

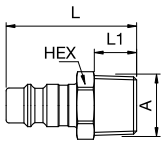
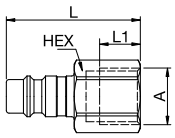
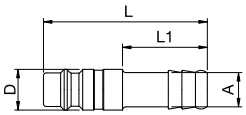
Flow diagrams
Air



Coupling – with valve — Series 1625KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		65	12		26				1625KAAK13SPN
	R 3/8	19		65	12		26				1625KAAK17SPN
	R 1/2	22		59,5	17		26				1625KAAK21SPN
 Female Thread	G 1/4	19		59	9		26				1625KAIW13SPN
	G 3/8	19		59	9		26				1625KAIW17SPN
	G 1/2	24		62	12		26				1625KAIW21SPN
 Hose Barb	6 mm	19		80	25		26				1625KATF06SPN
	8 mm	19		80	25		26				1625KATF08SPN
	9 mm	19		80	25		26				1625KATF09SPN
	10 mm	19		80	25		26				1625KATF10SPN
	13 mm	19		80	25		26				1625KATF13SPN

Plugs – without valve — Series 25SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9						25SFAK10SXZ
	R 1/4	14		37	12						25SFAK13SXZ
	R 3/8	17		37	12						25SFAK17SXZ
	R 1/2	22		43	17						25SFAK21SXZ
 Female Thread	G 1/8	14		30	7						25SFIW10SXZ
	G 1/4	17		38,5	9						25SFIW13SXZ
	G 3/8	19		39,5	9						25SFIW17SXZ
	G 1/2	24		44	12						25SFIW21SXZ
 Hose Barb	6 mm			48	25		12				25SFTF06SXZ
	8 mm			48	25		12				25SFTF08SXZ
	9 mm			48	25		12				25SFTF09SXZ
	10 mm			48	25		12				25SFTF10SXZ
	13 mm			48	25		15				25SFTF13SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8 = 50 mm²

Rectus Series

33



Technical Description
Steel industrial coupling with Atlas Copco-Profile. Specially suited to use with gaseous media in industry.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

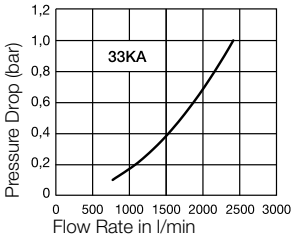
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

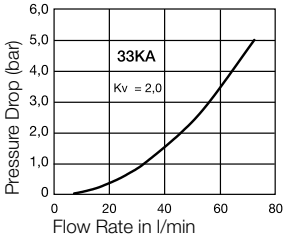
Interchangeability
- Atlas Copco QIC 10

Flow diagrams

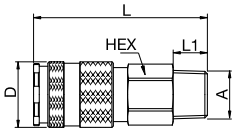
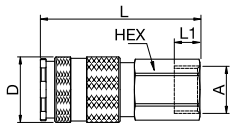
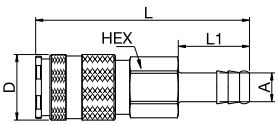
Air



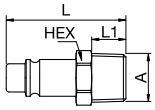
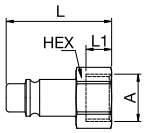
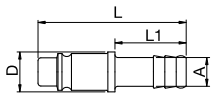
Water



Coupling – with valve — Series 33KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		23				33KAAK13SPN
	R 3/8	19		59	12		23				33KAAK17SPN
	R 1/2	22		60	17		23				33KAAK21SPN
 Female Thread	G 1/4	19		55	10		23				33KAIW13SPN
	G 3/8	19		54	9		23				33KAIW17SPN
	G 1/2	24		57	12		23				33KAIW21SPN
 Hose Barb	6 mm	19		73	25		23				33KATF06SPN
	8 mm	19		73	25		23				33KATF08SPN
	10 mm	19		73	25		23				33KATF10SPN
	13 mm	19		73	25		23				33KATF13SPN

Plugs – without valve — Series 33KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	14		40	9						33SFAK10SXN
	R 1/4	14		42	12						33SFAK13SXN
	R 3/8	17		42	12						33SFAK17SXN
	R 1/2	22		47	17						33SFAK21SXN
 Female Thread	G 1/8	14		34	7						33SFIW10SXN
	G 1/4	17		37	9						33SFIW13SXN
	G 3/8	17		37	9						33SFIW17SXN
	G 1/2	24		42	12						33SFIW21SXN
 Hose Barb	6 mm			52	25		14				33SFTF06SXN
	8 mm			52	25		14				33SFTF08SXN
	10 mm			52	25		15				33SFTF10SXN
	13 mm			52	25		15				33SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8 = 50 mm²

Rectus Series

84



Technical Description
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The high insertion depth is guaranteed by an optimised plug guide. Optimised locking of the plug due to 6-way ball valve.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

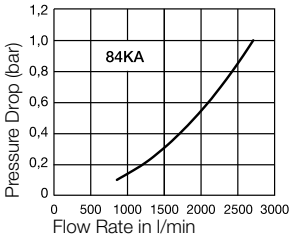
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

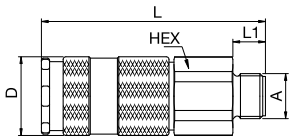
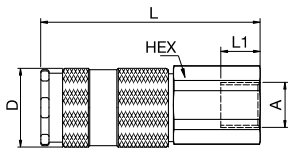
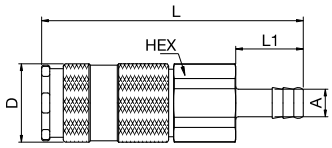
Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- ISO 6150 C

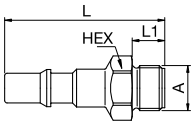
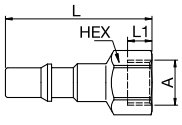
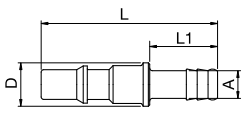
Flow diagrams
Air



Coupling – with valve — Series 84KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	27		83	12		29				84KAAW13SPN
	G 3/8	27		83	12		29				84KAAW17SPN
	G 1/2	27		83	15		29				84KAAW21SPN
 Female Thread	G 3/8	27		81	14		29				84KAIW17SPN
 Hose Barb	8 mm	27		97	25		29				84KATF08SPN
	9 mm	27		97	25		29				84KATF09SPN
	10 mm	27		97	25		29				84KATF10SPN
	13 mm	27		97	25		29				84KATF13SPN
	16 mm	27		97	25		29				84KATF16SPN

Plugs – without valve — Series 84KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	17		57	12						84SFAW13SXN
	G 3/8	21		59	12						84SFAW17SXN
	G 1/2	21		64	15						84SFAW21SXN
 Female Thread	G 1/4	17		53	9						84SFIW13SXN
	G 3/8	19		54	9						84SFIW17SXN
 Hose Barb	8 mm			65	25		16				84SFTF08SXN
	9 mm			65	25		16				84SFTF09SXN
	10 mm			65	25		16				84SFTF10SXN
	13 mm			65	25		16				84SFTF13SXN
	16 mm			65	25		16				84SFTF16SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8,1 = 52 mm²

Rectus Series

93



Technical Description
Modular integrated coupling and plug for installation in multi-coupling systems (series 08). High resilience, low coupling forces and great resistance to liquid media due to the special coating of the coupling body.

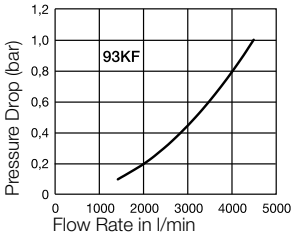
Working Temperature*
-15°C up to +100°C (NBR) depending on the medium.

* For temperatures below -15°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

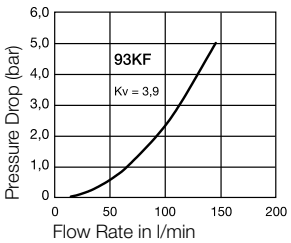
KF Straight-Through	KL Leak-Free
Working Pressure**	
15 bar ** maximum static working pressure with safety factor 4 to 1.	15 bar
Features	
	• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material	
Coupling: Brass nickel plated, Steel PTFE coated **Plug:** Brass nickel plated, Steel PTFE coated **Seals:** FKM	**Coupling:** Brass nickel plated, Steel PTFE coated **Plug:** Brass nickel plated, Steel PTFE coated **Seals:** FKM
Interchangeability	
• Rectus Design	

Flow diagrams

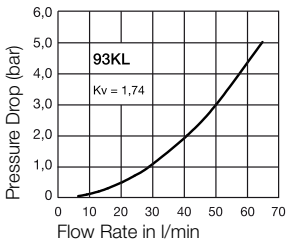
Air



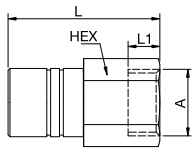
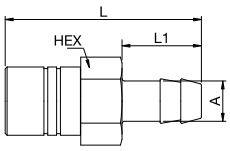
Water



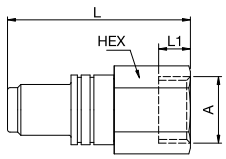
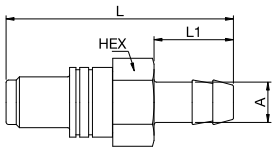
Water



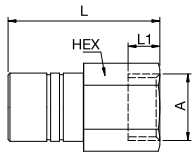
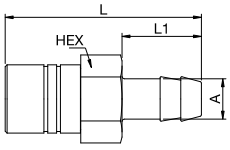
Coupling – without valve — Series 93KF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/2	24		48	10,1						93KFIW21SVN
 Hose Barb	13 mm	24		62	17						93KFTF13SVN

Plugs – without valve — Series 93KF

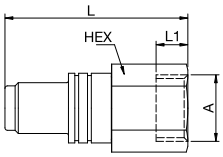
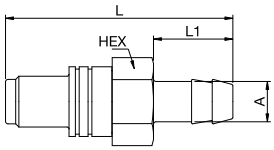
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/2	24		57,5	10,1						93SFIW21SXN
 Hose Barb	13 mm	24		68,5	25						93SFTF13SXN

Coupling – flat-sealing — Series 93KL

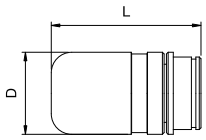
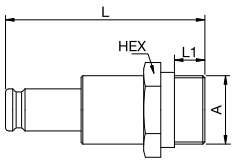
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/2	24		48	10,1						93KLIW21SVN
 Hose Barb	9 mm	24		54	17						93KLTF09SVN
	13 mm	24		62	25						93KLTF13SVN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – flat-sealing — Series 93KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/2	24		57,5	10,1						93SLIW21SVN
 Hose Barb	9 mm	24		63,5	17						93SLTF09SVN
	13 mm	24		68,5	25						93SLTF13SVN

Locking Coupling and Bolt — Series 94

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Locking Coupling				45			25				94KX
 Locking Bolt		24		58	13						94SX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8,1 = 52 mm²

Rectus Series

08



Technische Informationen
Multi-coupling system comprising series 93 modular couplings and base plates for connecting hose combinations. Special coupling body with PTFE coating giving greater robustness, lower coupling forces, and resistance to liquid media.

The standard version consists of a floating plate fitted with 8 quick connect couplings, 2 handles and 2 locking couplings as well as a fixed plate fitted with 8 plugs and 2 locking bolts. The layout is asymmetrical to avoid mixing up the circulation systems.

The safety locking system prevents unintentional disconnection.

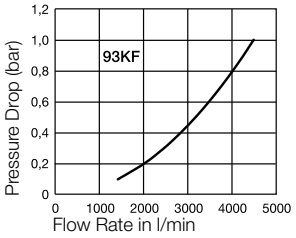
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

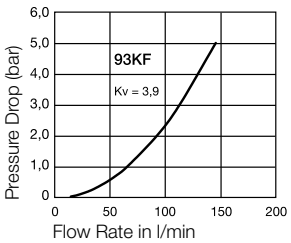
KF Straight-Through	KL Leak-Free
Working Pressure**	
15 bar ** maximum static working pressure with safety factor 4 to 1.	15 bar
Features	
	• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material	
Coupling: Brass / Steel nickel plated, Aluminium plate **Plug:** Brass / Steel nickel plated, Aluminium plate **Seals:** FKM	**Coupling:** Brass / Steel nickel plated, Aluminium plate **Plug:** Brass / Steel nickel plated, Aluminium plate **Seals:** FKM
Interchangeability	
• Rectus Design	

Flow diagrams

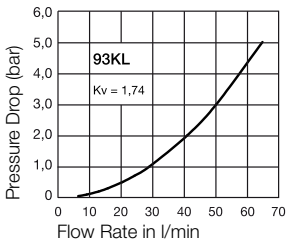
Air



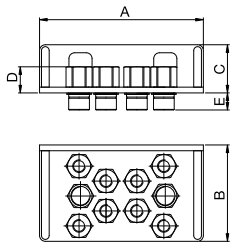
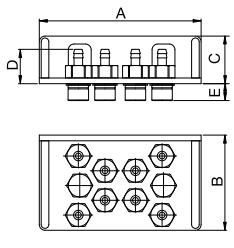
Water



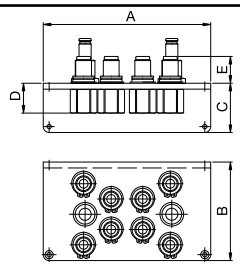
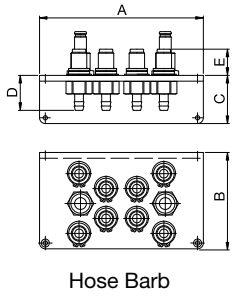
Water



Coupling – without valve — Series 08KF

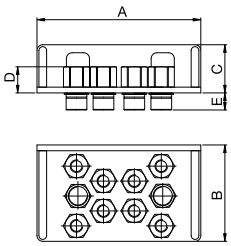
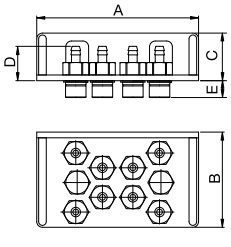
	Connection	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Version	Part Number
 Female Thread	G 1/2	170	100	50	30	18					08KFIW21SVN
 Hose Barb	13 mm	170	100	50	44	18					08KFTF13SVN

Plugs – without valve — Series 08KF

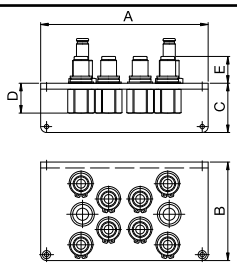
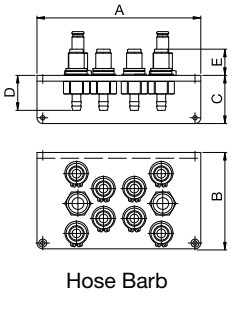
	Connection	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Version	Part Number
 Female Thread	G 1/2	170	100	50	30	27					08SFIW21SXN
 Hose Barb	13 mm	170	100	50	44	27					08SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Coupling – flat-sealing — Series 08KL

	Connection	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Version	Part Number
 Female Thread	G 1/2	170	100	50	30	18					08KLIW21SVN
 Hose Barb	13 mm	170	100	50	44	18					08KLTF13SVN

Plugs – flat-sealing — Series 08KL

	Connection	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Version	Part Number
 Female Thread	G 1/2	170	100	50	30	27					08SLIW21SVN
 Hose Barb	13 mm	170	100	50	44	27					08SLTF13SVN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8,5 = 60 mm²

Rectus Series

45



Technical Description
Brass coupling with no valve for applications with non-aggressive liquids in the pressure range up to 150 bar. The couplings are corrosion resistant. The system stands out for a high flow with minimal pressure drop.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KF Straight-Through

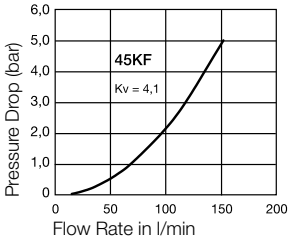
Working Pressure**
15 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Steel nickel plated
Seals: NBR

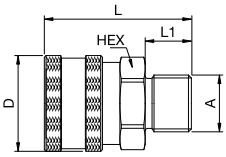
Interchangeability
- Hansen
- Parker ST-Series

Flow diagrams

Water

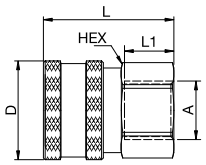


Couplings – without valve — Series 45KF



Male Thread

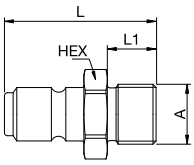
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	24		43	13,5		28				45KFAW13MPX
G 3/8	24		43	13,5		28				45KFAW17MPX



Female Thread

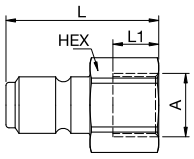
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	24		37	13,5		28				45KFIW13MPX
G 3/8	24		37	14		28				45KFIW17MPX

Plugs – without valve — Series 45KF



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	19		42	13,5						45SFAW13SXN
G 3/8	22		42	13,5						45SFAW17SXN



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	19		40	14						45SFIW13SXN
G 3/8	22		40	14						45SFIW17SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

8,5 = 60 mm²

Rectus Series

30



Technical Description
Steel coupling 3/8" according to ISO 6150 B and US MIL-SPEC 4109. Very robust design with steel valve bodies. The high insertion depth is guaranteed by an optimised plug guide.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

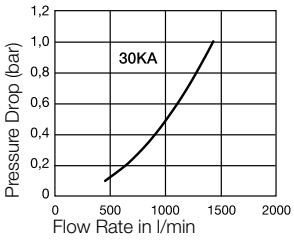
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

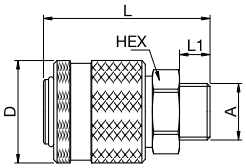
Material
Coupling: Brass / Steel
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- Industrial. Interchange 3/8"
- US-MIL-SPEC-C-4109
- ISO 6150 B
- Gromelle 900
- ARO
- Hansen 4000
- Parker 30 3/8"

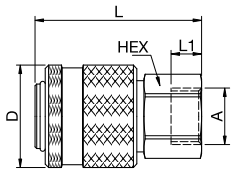
Flow diagrams
Air



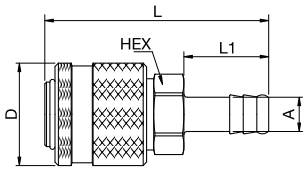
Couplings – with valve — Series 30KA



Male Thread



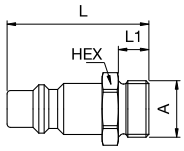
Female Thread



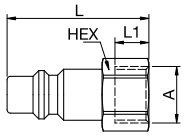
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	22		49	9		30			blank	30KAAW13SPX
G 1/4	22		49	9		30			nickel plated	30KAAW13SPN
G 3/8	22		49	9		30			blank	30KAAW17SPX
G 3/8	22		49	9		30			nickel plated	30KAAW17SPN
G 1/2	22		52	12		30			blank	30KAAW21SPX
G 1/2	22		52	12		30			nickel plated	30KAAW21SPN
G 1/4	22		49	11		30			blank	30KAIW13SPX
G 1/4	22		49	11		30			nickel plated	30KAIW13SPN
G 3/8	22		49	9		30			blank	30KAIW17SPX
G 3/8	22		49	9		30			nickel plated	30KAIW17SPN
G 1/2	22		52	12		30			blank	30KAIW21SPX
G 1/2	22		52	12		30			nickel plated	30KAIW21SPN
6 mm	21		66	25		30			blank	30KATF06SPX
6 mm	21		66	25		30			nickel plated	30KATF06SPN
8 mm	21		66	25		30			blank	30KATF08SPX
8 mm	21		66	25		30			nickel plated	30KATF08SPN
10 mm	21		66	25		30			blank	30KATF10SPX
10 mm	21		66	25		30			nickel plated	30KATF10SPN
13 mm	21		66	25		30			blank	30KATF13SPX
13 mm	21		66	25		30			nickel plated	30KATF13SPN

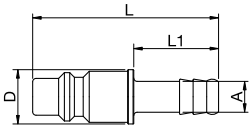
Plugs – without valve — Series 30KA



Male Thread



Female Thread



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	17		42	9						30SFAW13SXN
G 3/8	19		42	9						30SFAW17SXN
G 1/2	24		46	12						30SFAW21SXN
G 1/4	17		40	10						30SFIW13SXN
G 3/8	19		42	10						30SFIW17SXN
G 1/2	24		43	12						30SFIW21SXN
6 mm			55	25		16				30SFTF06SXN
8 mm			55	25		16				30SFTF08SXN
10 mm			55	25		16				30SFTF10SXN
13 mm			55	25		16				30SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

9 = 63,5 mm²

Rectus Series

209



Other designs in series 209
The following other designs can be found from page:

➤ Stainless Steel P. 214

Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling. Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KL Leak-Free

Working Pressure**

15 bar
** maximum static working pressure with safety factor 4 to 1.

Material

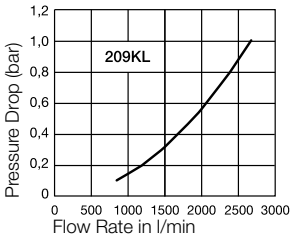
Coupling: Brass nickel plated
Plug: Brass nickel plated
Seals: NBR

Interchangeability

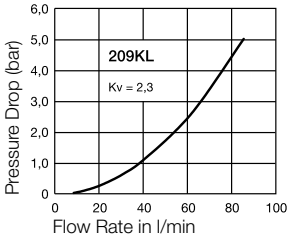
• Rectus Design

Flow diagrams

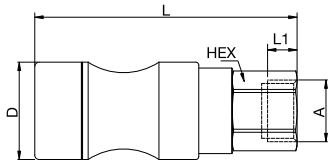
Air



Water



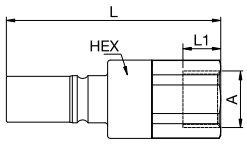
Couplings – flat-sealing — Series 209KL



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		92	14		33				209KLIW21MPN
G 3/4	32		94	14		33				209KLIW26MPN

Plugs – flat-sealing — Series 209KL



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		79,5	14						209SLIW21MPN
G 3/4	32		81,5	14						209SLIW26MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

9 = 63 mm²

Rectus Series

40



Technical Description
Brass coupling system produced for raw applications. The system is suitable for use with non-aggressive liquid media. The couplings are corrosion resistant.
Coupling system with single-hand operation. The ergonomic sleeve design prevents dirt on the valve body.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

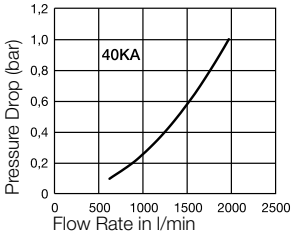
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Steel nickel plated
Seals: NBR

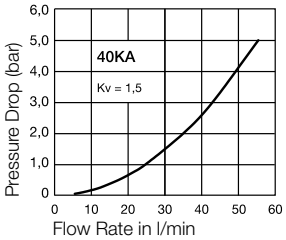
Interchangeability
- ARO 310
- Orion 44520
- Orion 44530

Flow diagrams

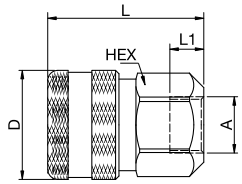
Air



Water



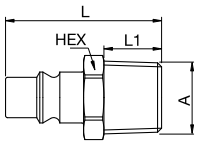
Couplings – with valve — Series 40KA



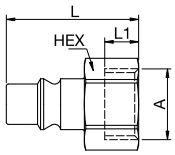
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	27		46	10		32			blank	40KAIW17MPX
G 3/8	27		46	10		32			nickel plated	40KAIW17MPN
G 1/2	27		46	11		32			blank	40KAIW21MPX
G 1/2	27		46	11		32			nickel plated	40KAIW21MPN

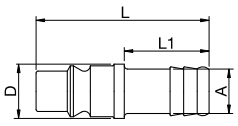
Plugs – without valve — Series 40KA



Male Thread



Female Thread



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 3/8	16		40	12						40SFAK17SXN
R 1/2	16		46	17						40SFAK21SXN
R 3/4	16		51	19						40SFAK26SXN
G 3/8	19		35	9						40SFIW17SXN
G 1/2	24		39	12						40SFIW21SXN
6 mm			51	25		16				40SFTF06SXN
8 mm			51	25		16				40SFTF08SXN
10 mm			51	25		16				40SFTF10SXN
13 mm			51	25		16				40SFTF13SXN
19 mm			51	25		21				40SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

27



Technical Description
1/2" universal industrial coupling with standard European profile for use with large pneumatic consumers. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The series stands out for its robust design (steel sleeve), extremely high flow and long service life even with the harshest use. The collar design minimises damage to the valve body.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

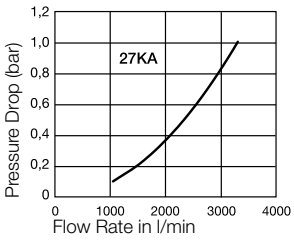
Other designs in series 27
The following other designs can be found from page:

➤ Stainless Steel P. 216
➤ Safety Self-Venting P. 296

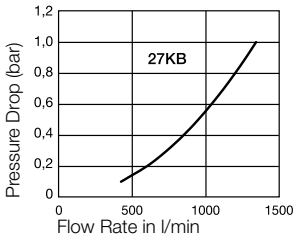
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Material	
Coupling: Brass / Steel nickel plated **Plug:** Steel nickel plated **Seals:** NBR	**Coupling:** Brass **Plug:** Brass nickel plated **Seals:** NBR
Interchangeability	
• Rectus 41 • Rectus 1700 • Rectus 1727 • Cejn 410	

Flow diagrams

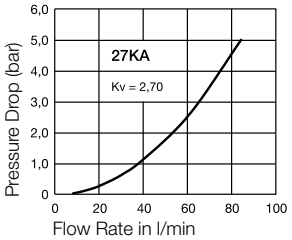
Air



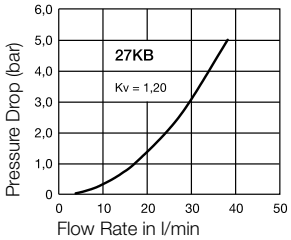
Air



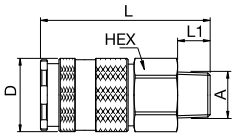
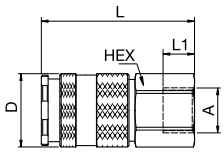
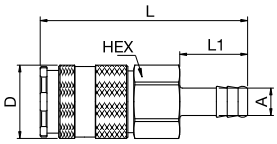
Water



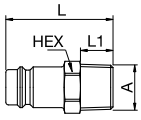
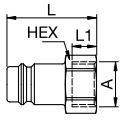
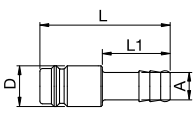
Water



Couplings – with valve — Series 27KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		63	12		27				27KAAK13MPN
	R 3/8	24		63	12		27				27KAAK17MPN
	R 1/2	24		65	17		27				27KAAK21MPN
	R 3/4	27		65	17		27				27KAAK26MPN
 Female Thread	G 1/4	24		56	10		27				27KAIW13MPN
	G 3/8	24		56	11		27				27KAIW17MPN
	G 1/2	24		56	12		27				27KAIW21MPN
	G 3/4	27		60	16		27				27KAIW26MPN
 Hose Barb	6 mm	24		76	25		27				27KATF06MPN
	8 mm	24		76	25		27				27KATF08MPN
	9 mm	24		76	25		27				27KATF09MPN
	10 mm	24		76	25		27				27KATF10MPN
	13 mm	24		76	25		27				27KATF13MPN
	16 mm	24		76	20		27				27KATF16MPN
	19 mm	24		76	25		27				27KATF19MPN

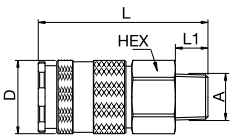
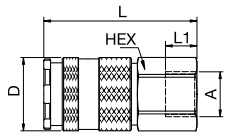
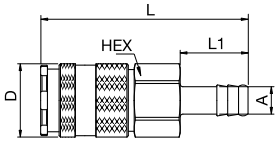
Plugs – without valve — Series 27KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	17		40	12						27SFAK13SXN
	R 3/8	17		40	12						27SFAK17SXN
	R 1/2	22		45	17						27SFAK21SXN
	R 3/4	27		48	19						27SFAK26SXN
 Female Thread	G 1/4	17		33	9						27SFIW13SXN
	G 3/8	19		33	12						27SFIW17SXN
	G 1/2	24		37	12						27SFIW21SXN
	G 3/4	32		42	16						27SFIW26SXN
 Hose Barb	6 mm			48	25		15				27SFTF06SXN
	8 mm			48	25		15				27SFTF08SXN
	9 mm			48	25		15				27SFTF09SXN
	10 mm			48	25		15				27SFTF10SXN
	13 mm			48	25		15				27SFTF13SXN
	16 mm			48	25		18				27SFTF16SXN
	19 mm			48	25		21				27SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

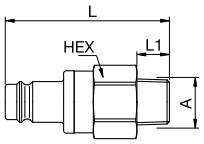
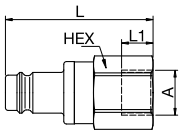
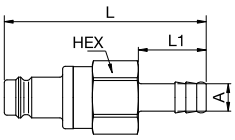
Couplings – with valve

Series 27KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		63	12		27			blank	27KBAK13BPX
	R 1/4	24		63	12		27			nickel plated	27KBAK13BPN
	R 3/8	24		63	12		27			blank	27KBAK17BPX
	R 3/8	24		63	12		27			nickel plated	27KBAK17BPN
	R 1/2	24		65	17		27			blank	27KBAK21BPX
	R 1/2	24		65	17		27			nickel plated	27KBAK21BPN
	R 3/4	27		65	17		27			blank	27KBAK26BPX
	R 3/4	27		65	17		27			nickel plated	27KBAK26BPN
 Female Thread	G 1/4	24		56	10		27			blank	27KBIW13BPX
	G 1/4	24		56	10		27			nickel plated	27KBIW13BPN
	G 3/8	24		56	11		27			blank	27KBIW17BPX
	G 3/8	24		56	11		27			nickel plated	27KBIW17BPN
	G 1/2	24		56	12		27			blank	27KBIW21BPX
	G 1/2	24		56	12		27			nickel plated	27KBIW21BPN
	G 3/4	32		60	16		27			blank	27KBIW26BPX
	G 3/4	32		60	16		27			nickel plated	27KBIW26BPN
 Hose Barb	6 mm	24		76	25		27			blank	27KBTF06BPX
	6 mm	24		76	25		27			nickel plated	27KBTF06BPN
	8 mm	24		76	25		27			blank	27KBTF08BPX
	8 mm	24		76	25		27			nickel plated	27KBTF08BPN
	9 mm	24		76	25		27			blank	27KBTF09BPX
	9 mm	24		76	25		27			nickel plated	27KBTF09BPN
	10 mm	24		76	25		27			blank	27KBTF10BPX
	10 mm	24		76	25		27			nickel plated	27KBTF10BPN
	13 mm	24		76	25		27			blank	27KBTF13BPX
	13 mm	24		76	25		27			nickel plated	27KBTF13BPN
	16 mm	24		76	25		27			blank	27KBTF16BPX
	16 mm	24		76	25		27			nickel plated	27KBTF16BPN
	19 mm	24		76	25		27			blank	27KBTF19BPX
	19 mm	24		76	25		27			nickel plated	27KBTF19BPN

Plugs – with valve

Series 27KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		60,5	12						27SBAK13MPN
	R 3/8	24		60,5	12						27SBAK17MPN
	R 1/2	24		62,5	17						27SBAK21MPN
	R 3/4	27		62,5	17						27SBAK26MPN
 Female Thread	G 1/4	24		54,5	9						27SBIW13MPN
	G 3/8	24		54,5	9						27SBIW17MPN
	G 1/2	24		54,5	12						27SBIW21MPN
	G 3/4	32		58,5	16						27SBIW26MPN
 Hose Barb	6 mm	24		74	25						27SBTF06MPN
	8 mm	24		74	25						27SBTF08MPN
	9 mm	24		74	25						27SBTF09MPN
	10 mm	24		74	25						27SBTF10MPN
	13 mm	24		74	25						27SBTF13MPN
	16 mm	24		74	25						27SBTF16MPN
	19 mm	24		74	25						27SBTF19MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

1700



Technical Description
Rectus Tema premium industrial coupling 1/2" with standard European profile. Suitable for compressed air applications with greater than average air consumption. Above-average flow values compared with standard market products.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 1700
The following other designs can be found from page:

➤ Stainless Steel P. 216
➤ Safety Self-Venting P. 296

KA Single Shut-Off

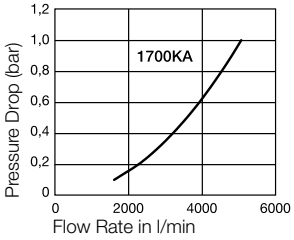
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass nickel plated, Steel QPQ treated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- Rectus 27
- Rectus 1727
- Cejn 410

Flow diagrams

Air

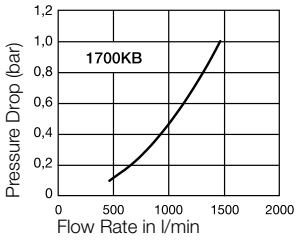


KB Double Shut-Off

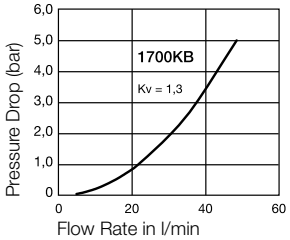
35 bar

Material
Coupling: Brass nickel plated
Plug: Brass nickel plated
Seals: NBR

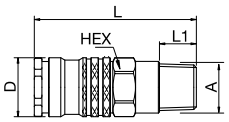
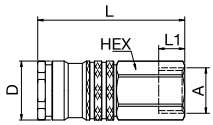
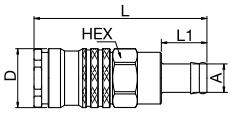
Air



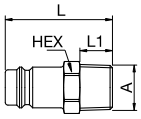
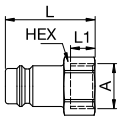
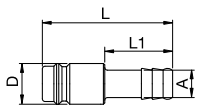
Water



Couplings – with valve — Series 1700KA

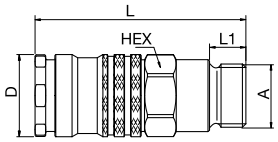
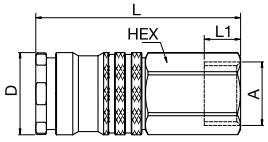
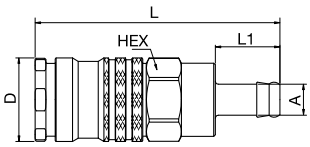
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 3/8	24		70	12		27				1700KAAK17SPN
	R 1/2	24		75	17		27				1700KAAK21SPN
	R 3/4	27		64	17		27				1700KAAK26SPN
 Female Thread	G 3/8	24		64,5	10		27				1700KAIW17SPN
	G 1/2	24		68	11		27				1700KAIW21SPN
	G 3/4	32		69	14		27				1700KAIW26SPN
 Hose Barb	10 mm	24		80	21		27				1700KATF10SPN
	13 mm	24		80	21		27				1700KATF13SPN
	16 mm	24		80	21		27				1700KATF16SPN

Plugs – without valve — Series 27SF

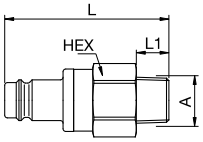
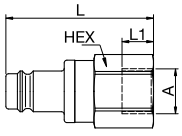
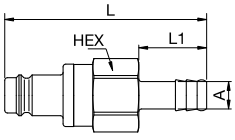
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	17		40	12						27SFAK13SXN
	R 3/8	17		40	12						27SFAK17SXN
	R 1/2	22		45	17						27SFAK21SXN
	R 3/4	27		48	19						27SFAK26SXN
 Female Thread	G 1/4	17		33	9						27SFIW13SXN
	G 3/8	19		33	12						27SFIW17SXN
	G 1/2	24		37	12						27SFIW21SXN
	G 3/4	32		42	16						27SFIW26SXN
 Hose Barb	6 mm			48	25		15				27SFTF06SXN
	8 mm			48	25		15				27SFTF08SXN
	9 mm			48	25		15				27SFTF09SXN
	10 mm			48	25		15				27SFTF10SXN
	13 mm			48	25		15				27SFTF13SXN
	16 mm			48	25		18				27SFTF16SXN
	19 mm			48	25		21				27SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 1700KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	24		64,5	7		27				1700KBAW17BPN
	G 1/2	24		69,5	12		27				1700KBAW21BPN
	G 3/4	30		73,5	16		27				1700KBAW26BPN
 Female Thread	G 3/8	24		67,5	12		27				1700KBIW17BPN
	G 1/2	24		67,5	12		27				1700KBIW21BPN
	G 3/4	32		73,5	16		27				1700KBIW26BPN
 Hose Barb	10 mm	24		79,5	21		27				1700KBTF10BPN
	13 mm	24		79,5	21		27				1700KBTF13BPN
	16 mm	24		79,5	21		27				1700KBTF16BPN
	19 mm	24		79,5	21		27				1700KBTF19BPN

Plugs – with valve — Series 27SB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		60,5	12						27SBAK13MPN
	R 3/8	24		60,5	12						27SBAK17MPN
	R 1/2	24		62,5	17						27SBAK21MPN
	R 3/4	27		62,5	17						27SBAK26MPN
 Female Thread	G 1/4	24		54,5	9						27SBIW13MPN
	G 3/8	24		54,5	9						27SBIW17MPN
	G 1/2	24		54,5	12						27SBIW21MPN
	G 3/4	32		58,5	16						27SBIW26MPN
 Hose Barb	6 mm	24		74	25						27SBTF06MPN
	8 mm	24		74	25						27SBTF08MPN
	9 mm	24		74	25						27SBTF09MPN
	10 mm	24		74	25						27SBTF10MPN
	13 mm	24		74	25						27SBTF13MPN
	16 mm	24		74	25						27SBTF16MPN
	19 mm	24		74	25						27SBTF19MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

1727



Other designs in series 1727
The following other designs can be found from page:

➤ Stainless Steel P. 216
➤ Safety Self-Venting P. 290

Technical Description
Rectus Tema premium industrial coupling 1/2" with standard European profile. Suitable for compressed air applications with greater than average air consumption. Above-average flow values compared with standard market products.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Extremely robust and ergonomically shaped, 2-component plastic sleeve.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S
for Plug Part.-No. SK16S

Working Temperature*
-20°C up to +40°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +40°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

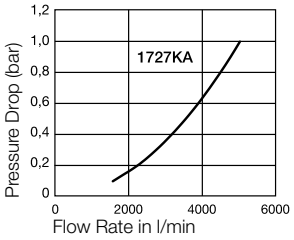
Coupling: Brass nickel plated, Steel QPQ treated, PA6+TPE
Plug: Steel nickel plated
Seals: NBR

Interchangeability

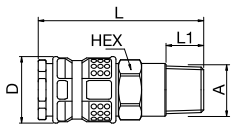
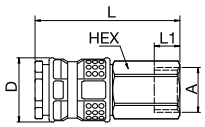
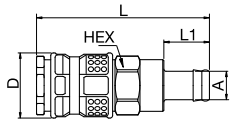
- Rectus 27
- Rectus 1700
- Cejn 410

Flow diagrams

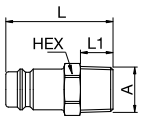
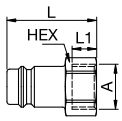
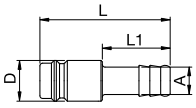
Air



Couplings – with valve — Series 1727KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 3/8	24		70	12		30				1727KAAK17SPN
	R 1/2	24		75	17		30				1727KAAK21SPN
	R 3/4	27		64	17		30				1727KAAK26SPN
 Female Thread	G 3/8	24		64,5	10		30				1727KAIW17SPN
	G 1/2	24		68	12		30				1727KAIW21SPN
	G 3/4	32		69	14		30				1727KAIW26SPN
 Hose Barb	10 mm	24		80	21		30				1727KATF10SPN
	13 mm	24		80	21		30				1727KATF13SPN
	16 mm	24		80	21		30				1727KATF16SPN

Plugs – without valve — Series 27SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	17		40	12						27SFAK13SXN
	R 3/8	17		40	12						27SFAK17SXN
	R 1/2	22		45	17						27SFAK21SXN
	R 3/4	27		48	19						27SFAK26SXN
 Female Thread	G 1/4	17		33	9						27SFIW13SXN
	G 3/8	19		33	12						27SFIW17SXN
	G 1/2	24		37	12						27SFIW21SXN
	G 3/4	32		42	16						27SFIW26SXN
 Hose Barb	6 mm			48	25		15				27SFTF06SXN
	8 mm			48	25		15				27SFTF08SXN
	9 mm			48	25		15				27SFTF09SXN
	10 mm			48	25		15				27SFTF10SXN
	13 mm			48	25		15				27SFTF13SXN
	16 mm			48	25		18				27SFTF16SXN
	19 mm			48	25		21				27SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Tema Series

1800



Technical Description
Series 1800 is used mainly for applications in the area of compressed air and liquids. The coupling system stands out for its robust, compact design, high flow and high corrosion resistance due to the Ultra HighFlow valve.

Dust Protections **(P. 319)**
for Coupling Part.-No. 5026-QC
for Plug Part.-No. 2526-QC

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

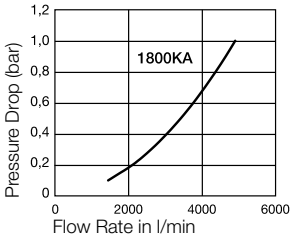
Other designs in series 1800
The following other designs can be found from page:

➤ Stainless Steel P. 220

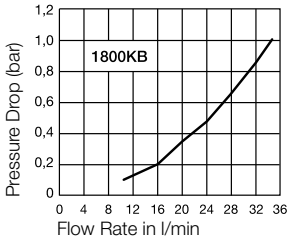
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Features	
• Single-hand operation • Particularly suited to medium-sized to large pneumatic systems and compressed air tools	• Two-hand operation • Special disc shape of the main seal in the coupling extends the durability • Particularly suited to applications in the area of liquids, which require a coupling that is simple and easy to handle
Material	
Coupling: Brass nickel plated and chrome plated **Plug:** Steel hardened, zinc plated **Seals:** NBR	**Coupling:** Brass nickel plated and chrome plated **Plug:** Brass nickel plated and chrome plated **Seals:** NBR
Interchangeability	
• Rectus 32 • Cejn 408	

Flow diagrams

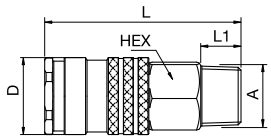
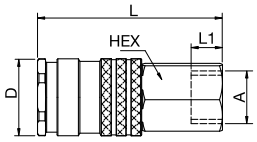
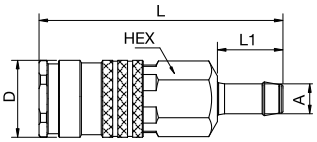
Air



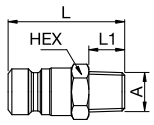
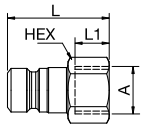
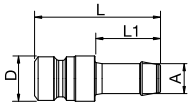
Water



Couplings – with valve — Series 1800KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 3/8	23		69	11		27				1800KAAK17MPN
	R 1/2	23		69	13		27				1800KAAK21MPN
	R 3/4	27		73	15		27				1800KAAK26MPN
 Female Thread	G 3/8	23		65	10		27				1800KAIW17MPN
	G 1/2	25		65	10		27				1800KAIW21MPN
	G 3/4	30		67	11		27				1800KAIW26MPN
 Hose Barb	10 mm	23		82	23		27				1800KATF10MPN
	13 mm	23		82	24		27				1800KATF13MPN
	16 mm	23		82	24		27				1800KATF16MPN
	19 mm	23		82	24		27				1800KATF19MPN

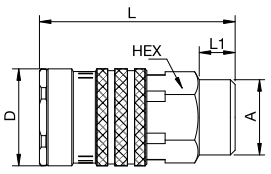
Plugs – without valve — Series 1800KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	16		36	10						1800SFAK10SXZ
	R 1/4	16		39	12						1800SFAK13SXZ
	G 1/4	16		35	9						1800SFAW13SXZ
	R 3/8	17		38	12						1800SFAK17SXZ
	G 3/8	17		36	10						1800SFAW17SXZ
	R 1/2	22		40	14						1800SFAK21SXZ
	R 3/4	27		43	16						1800SFAK26SXZ
 Female Thread	G 1/4	16		36	10						1800SFIW13SXZ
	G 3/8	20		36	10						1800SFIW17SXZ
	G 1/2	25		39	12						1800SFIW21SXZ
 Hose Barb	6 mm			44	23		16				1800SFTF06SXZ
	8 mm			44	23		16				1800SFTF08SXZ
	10 mm			44	23		16				1800SFTF10SXZ
	13 mm			45	24		16				1800SFTF12SXZ
	16 mm			47	24		18				1800SFTF16SXZ
	19 mm			47	24		23				1800SFTF19SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

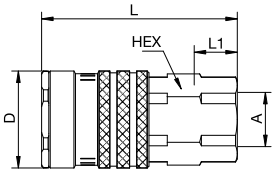
Couplings – with valve — Series 1800KB

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
R 1/2	22		54	10		27				1800KBAK21MPN



Male Thread

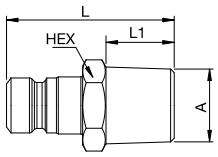
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		54	9		27				1800KBIW17MPN
G 1/2	25		55	9		27				1800KBIW21MPN
G 3/4	30		57	11		27				1800KBIW26MPN



Female Thread

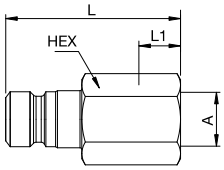
Plugs – with valve — Series 1800KB

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	22		47	19						1800SBAK21MPC



Male Thread

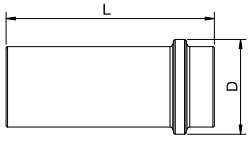
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		49	10						1800SBIW17MPC
G 3/4	30		54	12						1800SBIW26MPC



Female Thread

Protective Sleeve — Series 1800KB

Description	L mm	D mm	Version	Color	Part Number
for Couplings 1800KB	78	38	EBA	blue	1800-351



Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Male Thread	R 3/8		1800 ED	**1800KAAK17MPN**	141
	R 1/2	32KAAK21MPN	1800 EA	**1800KAAK21MPN**	141
	R 3/4		1800 EF	**1800KAAK26MPN**	141
Female Thread	G 3/8	32KAIW17MPN	1800 E	**1800KAIW17MPN**	141
	G 1/2	32KAIW21MPN	1800 EB	**1800KAIW21MPN**	141
	G 3/4		1800 EC	**1800KAIW26MPN**	141
Hose Barb	10 mm	32KATF10MPN	1800 EK10	**1800KATF10MPN**	141
	13 mm	32KATF13MPN	1800 EK12	**1800KATF13MPN**	141
	16 mm	32KATF16MPN	1800 EK16	**1800KATF16MPN**	141
	19 mm	32KATF19MPN	1800 EK19	**1800KATF19MPN**	141
Plugs – without valve					
Male Thread	R 1/8		18105	**1800SFAK10SXZ**	141
	R 1/4	32SFAK13SXZ	18110 A	**1800SFAK13SXZ**	141
	G 1/4		18110	**1800SFAW13SXZ**	141
	R 3/8	32SFAK17SXZ	18210 A	**1800SFAK17SXZ**	141
	G 3/8		18210	**1800SFAW17SXZ**	141
	R 1/2	32SFAK21SXZ	18220	**1800SFAK21SXZ**	141
	G 1/2		18230	**1800SFAK26SXZ**	141
Female Thread	G 1/4	32SFIW13SXZ	18405	**1800SFIW13SXZ**	141
	G 3/8	32SFIW17SXZ	18410	**1800SFIW17SXZ**	141
	G 1/2	32SFIW21SXZ	18420	**1800SFIW21SXZ**	141
Hose Barb	6 mm	32SFTF06SXZ	18006	**1800SFTF06SXZ**	141
	8 mm	32SFTF08SXZ	18008	**1800SFTF08SXZ**	141
	10 mm	32SFTF10SXZ	18010	**1800SFTF10SXZ**	141
	12 mm		18012	**1800SFTF12SXZ**	141
	16 mm	32SFTF16SXZ	18016	**1800SFTF16SXZ**	141
	19 mm	32SFTF19SXZ	18019	**1800SFTF19SXZ**	141

⚠ Please consider our security advices on the pages 12/13 ⚠

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Male Thread	R 1/2		1800 NA	**1800KBAK21MPN**	142
Female Thread	G 3/8		1800 N	**1800KBIW17MPN**	142
	G 1/2		1800 NB	**1800KBIW21MPN**	142
	G 3/4		1800 NC	**1800KBIW26MPN**	142
Plugs – with valve					
Male Thread	G 1/2		18420 MN	**1800SBAK21MPC**	142
Female Thread	G 3/8		18410 MN	**1800SBIW17MPC**	142
	G 3/4		18430 MN	**1800SBIW26MPC**	142

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

34



Technical Description
Industrial coupling with Atlas Copco-Profile. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Optimal for use with large pneumatic consumers due to the robust design and steel sleeve. The collar design minimises damage to the valve body.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

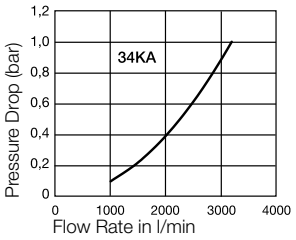
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

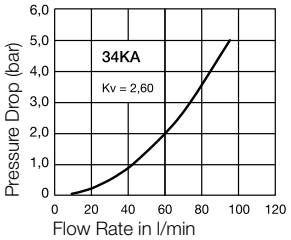
Interchangeability
- Atlas Copco QIC 15

Flow diagrams

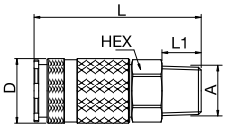
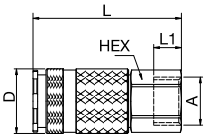
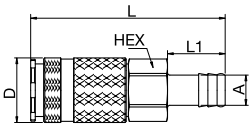
Air



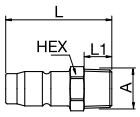
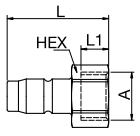
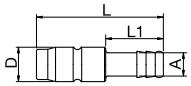
Water



Couplings – with valve — Series 34KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		70	12		28				34KAAK13SPN
	R 3/8	24		70	12		28				34KAAK17SPN
	R 1/2	24		72	12		28				34KAAK21SPN
	R 3/4	27		72	12		28				34KAAK26SPN
 Female Thread	G 1/4	24		64	9		28				34KAIW13SPN
	G 3/8	24		64	12		28				34KAIW17SPN
	G 1/2	24		64	12		28				34KAIW21SPN
 Hose Barb	6 mm	24		84	25		28				34KATF06SPN
	8 mm	24		84	25		28				34KATF08SPN
	10 mm	24		84	25		28				34KATF10SPN
	13 mm	24		84	25		28				34KATF13SPN
	16 mm	24		84	25		28				34KATF16SPN
	19 mm	24		84	25		28				34KATF19SPN

Plugs – without valve — Series 34KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	17		46	12						34SFAK13SXN
	R 3/8	19		46	12						34SFAK17SXN
	R 1/2	22		52	17						34SFAK21SXN
 Female Thread	G 3/8	19		40	9						34SFIW17SXN
	G 1/2	24		44	12						34SFIW21SXN
 Hose Barb	6 mm			55	25		15				34SFTF06SXN
	10 mm			55	25		15				34SFTF10SXN
	13 mm			55	25		15				34SFTF13SXN
	16 mm			55	25		18				34SFTF16SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

41



Technical Description
Brass coupling with no valve for applications with liquids in the pressure range up to 35 bar. The couplings are corrosion resistant. The system stands out for a high flow with minimal pressure drop.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KF Straight-Through

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

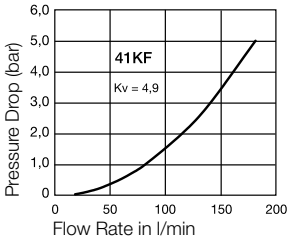
Coupling: Brass nickel plated
Plug: Brass nickel plated
Seals: NBR

Interchangeability

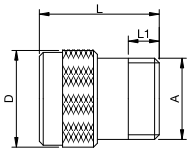
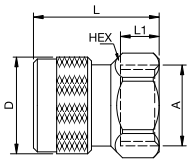
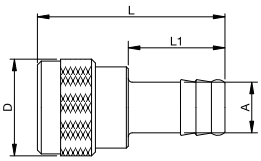
- Rectus 27
- Cejn 417

Flow diagrams

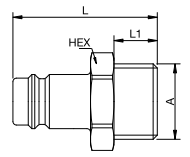
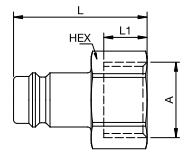
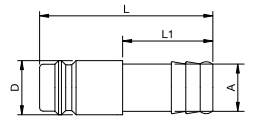
Water



Couplings – without valve — Series 41KF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2			31	8		25				41KFAW21MPN
	G 3/4			32,5	9		25				41KFAW26MPN
 Female Thread	G 1/2	24		32,5	10		25				41KFIW21MPN
	G 3/4	30		32,5	10		25				41KFIW26MPN
	M 22 x 1	24		32,5	10		25				41KFIM22MPN
 Hose Barb	10 mm			48,5	25		25				41KFTF10MPN
	13 mm			48,5	25		25				41KFTF13MPN
	16 mm			48,5	25		25				41KFTF16MPN
	19 mm			48,5	25		25				41KFTF19MPN

Plugs – without valve — Series 41KF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	24		40	12						41SFAW21MXN
	G 3/4	32		45	16						41SFAW26MXN
 Female Thread	G 1/2	24		37	12						41SFIW21MXN
	G 3/4	32		42	16						41SFIW26MXN
	M 22 x 1	24		36	12						41SFIM22MXN
 Hose Barb	8 mm			48	25		15				41SFTF08MXN
	10 mm			48	25		15				41SFTF10MXN
	13 mm			48	25		15				41SFTF13MXN
	16 mm			48	25		18				41SFTF16MXN
	19 mm			48	25		21				41SFTF19MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

11 = 95 mm²

Rectus Series

42



Technical Description
Brass coupling with no valve for applications with liquids in the pressure range up to 35 bar. The couplings are corrosion resistant. The system stands out for a high flow with minimal pressure drop.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KF Straight-Through

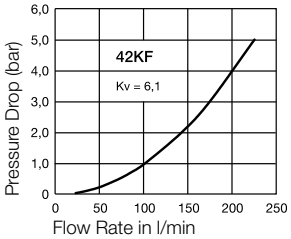
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass chrome plated
Plug: Brass chrome plated
Seals: NBR

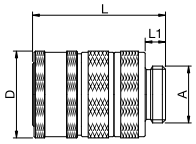
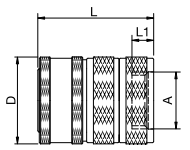
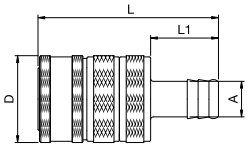
Interchangeability
- ABA-Beul

Flow diagrams

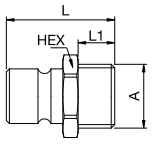
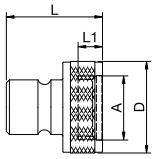
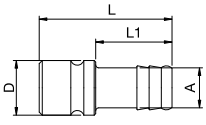
Water



Couplings – without valve — Series 42KF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2			49	7,5		32				42KFAW21MPC
	G 3/4			49	7,5		32				42KFAW26MPC
 Female Thread	G 1/2			34	8		32				42KFIW21MPC
	G 3/4			34	8		32				42KFIW26MPC
 Hose Barb	9 mm			55	25		32				42KFTF09MPC
	13 mm			55	25		32				42KFTF13MPC
	19 mm			55	25		32				42KFTF19MPC

Plugs – without valve — Series 42KF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	24		35,5	12						42SFAW21MXC
	G 3/4	32		42,5	16						42SFAW26MXC
 Female Thread	G 1/2			31,5	8		30				42SFIW21MXC
	G 3/4			31,5	8		30				42SFIW26MXC
 Hose Barb	9 mm			48	25		15				42SFTF09MXC
	13 mm			48	25		15				42SFTF13MXC
	19 mm			48	25		15				42SFTF19MXC

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter
11 = 95 mm²



Technical Description
Robust brass coupling system 1/2" according to ISO 6150 B and US MIL-SPEC 4109.
Coupling system with single-hand operation. The high insertion depth is guaranteed by an optimised plug guide.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S
for Plug Part.-No. SK16S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

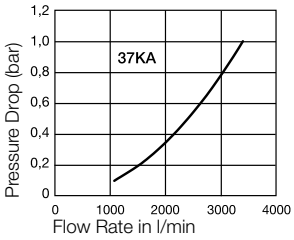
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Steel nickel plated
Seals: NBR

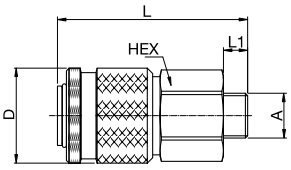
Interchangeability
- Industrial Interchange 1/2"
- US-MIL-SPEC C-4109 1/2"
- ISO 6150-B
- Gromelle 1300
- Hansen 5000

Flow diagrams
Air



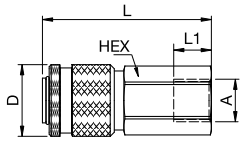
Couplings – with valve

Series 37KA



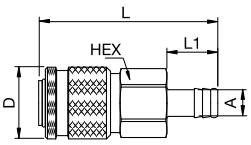
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	30		70,5	9		35			blank	37KAAW17MPX
G 3/8	30		70,5	9		35			nickel plated	37KAAW17MPN
1/2" NPT	30		79	17		35			blank	37KAAN21MPX
1/2" NPT	30		79	17		35			nickel plated	37KAAN21MPN
G 1/2	30		76,5	12		35			blank	37KAAW21MPX
G 1/2	30		76,5	12		35			nickel plated	37KAAW21MPN
3/4" NPT	30		81	19		35			blank	37KAAN26MPX
3/4" NPT	30		81	19		35			nickel plated	37KAAN26MPN
G 3/4	30		77,5	13		35			blank	37KAAW26MPX
G 3/4	30		77,5	13		35			nickel plated	37KAAW26MPN



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
3/8" NPSF	30		76	14		35			blank	37KAIN17MPX
3/8" NPSF	30		76	14		35			nickel plated	37KAIN17MPN
1/2" NPSF	30		83	23		35			blank	37KAIN21MPX
1/2" NPSF	30		83	23		35			nickel plated	37KAIN21MPN
3/4" NPSF	32		84	24		35			blank	37KAIN26MPX
3/4" NPSF	32		84	24		35			nickel plated	37KAIN26MPN



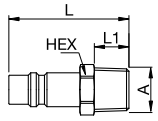
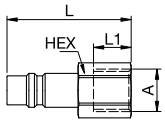
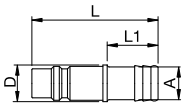
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
10 mm	30		86	25		35			blank	37KATF10MPX
10 mm	30		86	25		35			nickel plated	37KATF10MPN
13 mm	30		86	25		35			blank	37KATF13MPX
13 mm	30		86	25		35			nickel plated	37KATF13MPN
16 mm	30		86	25		35			blank	37KATF16MPX
16 mm	30		86	25		35			nickel plated	37KATF16MPN
19 mm	30		86	25		35			blank	37KATF19MPX
19 mm	30		86	25		35			nickel plated	37KATF19MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 37KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/2	22		60	17						37SFAK21SXN
	R 3/4	27		61	19						37SFAK26SXN
 Female Thread	G 1/2	24		50	10						37SFIW21SXN
	G 3/4	32		57	14						37SFIW26SXN
 Hose Barb	10 mm			62	25		17				37SFTF10SXN
	13 mm			62	25		17				37SFTF13SXN
	16 mm			62	25		18				37SFTF16SXN
	19 mm			72	35		21				37SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

12 = 115 mm²

Rectus Series

57



Technical Description
German industrial profile for compressed air applications. UltraFlo valve for optimum flow and low pressure drop. Robust structure, optimised with respect to size and performance. Especially suitable for oscillating forces due to steel sleeve and steel valve bodies. The collar design minimises damage to the valve body.

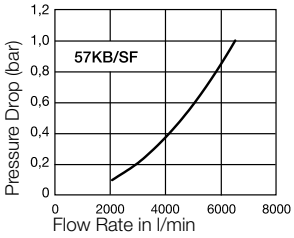
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

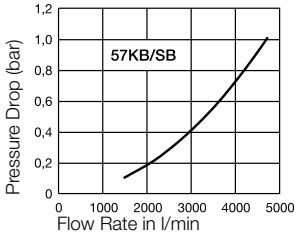
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Features	
	• Brass design particularly suited to use with liquids
Material	
Coupling: Brass / Steel nickel plated **Plug:** Steel nickel plated **Seals:** NBR	**Coupling:** Brass / Steel nickel plated **Plug:** Brass nickel plated **Seals:** NBR
Interchangeability	
• Walther LP012	

Flow diagrams

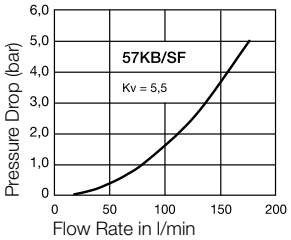
Air



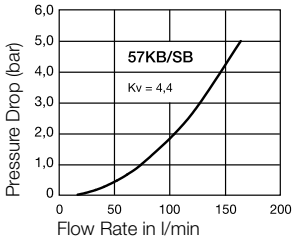
Air



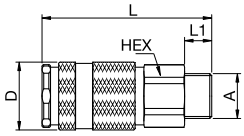
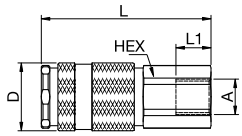
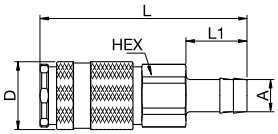
Water



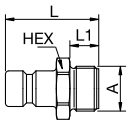
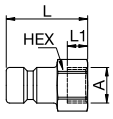
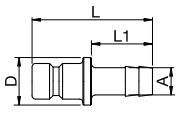
Water



Couplings – with valve — Series 57KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	34		98	12		40				57KBAW21BPN
	G 3/4	34		100	16		40				57KBAW26BPN
	G 1	41		100	19		40				57KBAW33BPN
 Female Thread	G 1/2	34		100	19		40				57KBIW21BPN
	G 3/4	34		100	16		40				57KBIW26BPN
	G 1	41		101	20		40				57KBIW33BPN
 Hose Barb	16 mm	34		122	36		40				57KBTF16BPN
	19 mm	34		122	36		40				57KBTF19BPN

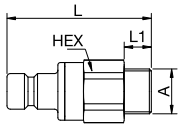
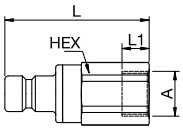
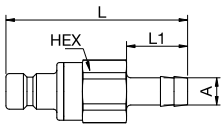
Plugs – without valve — Series 57SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	27		49	12						57SFAW17SXN
	G 1/2	27		52	15						57SFAW21SXN
	G 3/4	32		55	17						57SFAW26SXN
	G 1/2	41		60	20						57SFAW33SXN
 Female Thread	G 1/2	27		48	15						57SFIW21SXN
	G 3/4	32		54	20						57SFIW26SXN
 Hose Barb	13 mm			63	28		28				57SFTF13SXN
	16 mm			71	36		28				57SFTF16SXN
	19 mm			71	36		28				57SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 57SB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	34		86	12						57SBAW17MPN
	G 1/2	34		83	12						57SBAW21MPN
	G 3/4	34		85	16						57SBAW26MPN
	G 1	41		85	19						57SBAW33MPN
 Female Thread	G 1/2	34		85	19						57SBIW21MPN
	G 3/4	34		85	16						57SBIW26MPN
 Hose Barb	13 mm	34		101	28						57SBTF13MPN
	16 mm	34		107	36						57SBTF16MPN
	19 mm	34		107	36						57SBTF19MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

12,4 = 120 mm²

Rectus Series

1900



Technical Description
Robust, corrosion resistant coupling system in brass with high flow values for use with liquids in the pressure range up to 50 bar.
Two-hand operation, i.e. both hands are required when connect/disconnect. The main seal of the coupling has a special disc shape, which extends the durability of the coupling. To guarantee greater flexibility, we also offer plugs with no valve.

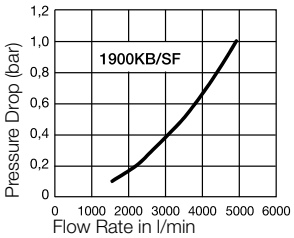
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

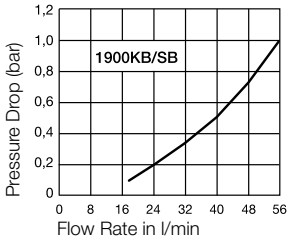
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
50 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Material	
Coupling: Brass nickel plated and chrome plated **Plug:** Brass nickel plated and chrome plated **Seals:** NBR	**Coupling:** Brass nickel plated and chrome plated **Plug:** Brass nickel plated and chrome plated **Seals:** NBR
Interchangeability	
• Tema Design	

Flow diagrams

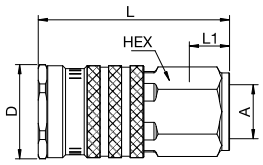
Air



Water



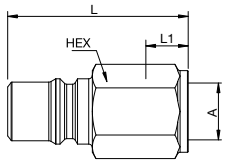
Couplings – with valve — Series 1900KB



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		67	12		33				1900KBIW21MPN
G 3/4	30		68	12		33				1900KBIW26MPN

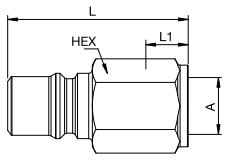
Plugs – without valve — Series 1900SF



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		60	12						1900SFIW21MXC
G 3/4	30		62	12						1900SFIW26MXC

Plugs – with valve — Series 1900SB



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		60	12						1900SBIW21MPC
G 3/4	30		62	12						1900SBIW26MPC

⚠ Please consider our security advices on the pages 12/13 ⚠

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Female Thread	G 1/2		1900 NB	**1900KBIW21MPN**	161
	G 3/4		1900 NC	**1900KBIW26MPN**	161
Plugs – without valve					
Female Thread	G 1/2		19420 M	**1900SFIW21MXC**	161
	G 3/4		19430 M	**1900SFIW26MXC**	161
Plugs – with valve					
Female Thread	G 1/2		19420 MN	**1900SBIW21MPC**	161
	G 3/4		19430 MN	**1900SBIW26MPC**	161

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

13 = 130 mm²

Rectus Series

29



Technical Description
Robust coupling system in steel, which is particularly suited to use in the construction industry and mining. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop.

Working Temperature*
-20°C up to +100°C (NBR) depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

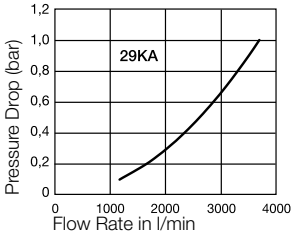
KA Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

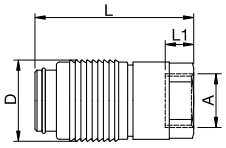
Material
Coupling: Steel zinc plated
Plug: Steel zinc plated
Seals: NBR

Interchangeability
- Rectus Design

Flow diagrams
Air



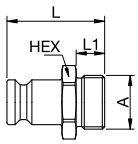
Couplings – with valve — Series 29KA



Female Thread

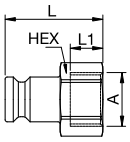
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2			78	13		40				29KAIW21SPZ
G 3/4			78	16		40				29KAIW26SPZ

Plugs – without valve — Series 29KA



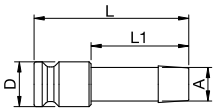
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	24		48	13						29SFAW21SPZ
G 3/4	32		48	14						29SFAW26SPZ



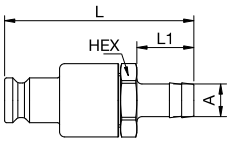
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		44	12						29SFIW21SPZ
G 3/4	32		48	16						29SFIW26SPZ



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
13 mm			76	49		22				29SFTF13SPZ
19 mm			76	49		22				29SFTF19SPZ



Recoil Eliminator, with Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
13 mm	32		93	28						29SRTF13SPZ
19 mm	32		101	36						29SRTF19SPZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

15 = 175 mm²

Rectus Series

38



Technical Description
Compact industrial coupling system in brass for use with numerous gaseous and liquid media.
UltraFlo valve for optimum flow and low pressure drop.

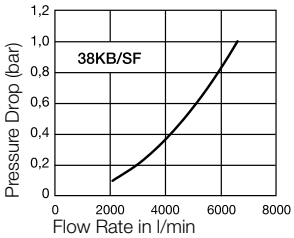
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

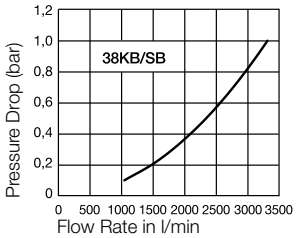
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Material	
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR
Interchangeability	
• Hansen 6000	

Flow diagrams

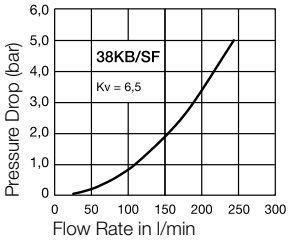
Air



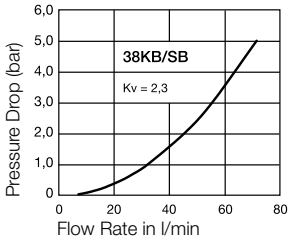
Air



Water

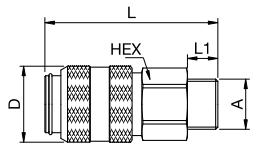
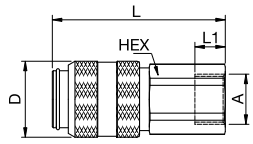
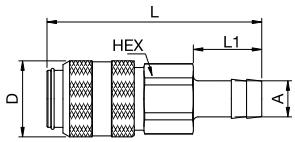


Water



Couplings – with valve

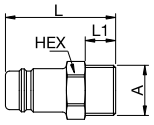
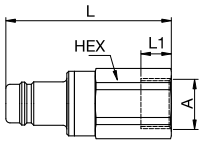
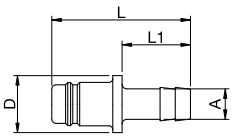
Series 38KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	34		89	12		40			blank	38KBAW21MPX
	G 1/2	34		89	12		40			nickel plated	38KBAW21MPN
	G 3/4	34		91	16		40			blank	38KBAW26MPX
	G 3/4	34		91	16		40			nickel plated	38KBAW26MPN
	G 1	41		91	19		40			blank	38KBAW33MPX
	G 1	41		91	19		40			nickel plated	38KBAW33MPN
 Female Thread	G 1/2	34		95	20		40			blank	38KBIW21MPX
	G 1/2	34		95	20		40			nickel plated	38KBIW21MPN
	G 3/4	34		91	14		40			blank	38KBIW26MPX
	G 3/4	34		91	14		40			nickel plated	38KBIW26MPN
	G 1	41		92	20		40			blank	38KBIW33MPX
	G 1	41		92	20		40			nickel plated	38KBIW33MPN
 Hose Barb	13 mm	34		105	28		40			blank	38KBTF13MPX
	13 mm	34		105	28		40			nickel plated	38KBTF13MPN
	16 mm	34		113	36		40			blank	38KBTF16MPX
	16 mm	34		113	36		40			nickel plated	38KBTF16MPN
	19 mm	34		113	36		40			blank	38KBTF19MPX
	19 mm	34		113	36		40			nickel plated	38KBTF19MPN
	25 mm	34		109	36		40			blank	38KBTF25MPX
	25 mm	34		109	36		40			nickel plated	38KBTF25MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

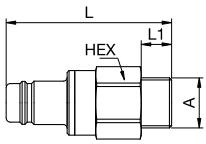
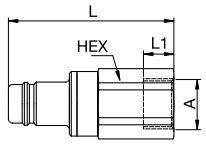
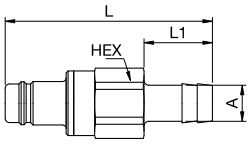
Plugs – without valve

Series 38SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	24		54	12					blank	38SFAW21MXX
	G 1/2	24		54	12					nickel plated	38SFAW21MXN
	G 3/4	27		58	16					blank	38SFAW26MXX
	G 3/4	27		58	16					nickel plated	38SFAW26MXN
	G 1	36		63	19					blank	38SFAW33MXX
	G 1	36		63	19					nickel plated	38SFAW33MXN
 Female Thread	G 1/2	24		49	12					blank	38SFIW21MXX
	G 1/2	24		49	12					nickel plated	38SFIW21MXN
	G 3/4	30		54	18					blank	38SFIW26MXX
	G 3/4	30		54	18					nickel plated	38SFIW26MXN
	G 1	41		61	24					blank	38SFIW33MXX
	G 1	41		61	24					nickel plated	38SFIW33MXN
 Hose Barb	13 mm			65	28		30			blank	38SFTF13MXX
	13 mm			65	28		30			nickel plated	38SFTF13MXN
	16 mm			73	36		30			blank	38SFTF16MXX
	16 mm			73	36		30			nickel plated	38SFTF16MXN
	19 mm			73	36		30			blank	38SFTF19MXX
	19 mm			73	36		30			nickel plated	38SFTF19MXN
	25 mm			76	36		30			blank	38SFTF25MXX
	25 mm			76	36		30			nickel plated	38SFTF25MXN

Plugs – with valve

Series 38SB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	34		85	12					blank	38SBAW21MPX
	G 1/2	34		85	12					nickel plated	38SBAW21MPN
	G 3/4	34		87	16					blank	38SBAW26MPX
	G 3/4	34		87	16					nickel plated	38SBAW26MPN
	G 1	41		87	19					blank	38SBAW33MPX
	G 1	41		87	19					nickel plated	38SBAW33MPN
 Female Thread	G 1/2	34		87	16					blank	38SBIW21MPX
	G 1/2	34		87	16					nickel plated	38SBIW21MPN
	G 3/4	34		87	16					blank	38SBIW26MPX
	G 3/4	34		87	16					nickel plated	38SBIW26MPN
	G 1	41		88	26					blank	38SBIW33MPX
	G 1	41		88	26					nickel plated	38SBIW33MPN
 Hose Barb	13 mm	34		103	28					blank	38SBTF13MPX
	13 mm	34		103	28					nickel plated	38SBTF13MPN
	16 mm	34		109	36					blank	38SBTF16MPX
	16 mm	34		109	36					nickel plated	38SBTF16MPN
	19 mm	34		109	36					blank	38SBTF19MPX
	19 mm	34		109	36					nickel plated	38SBTF19MPN
	25 mm	34		105	36					blank	38SBTF25MPX
	25 mm	34		105	36					nickel plated	38SBTF25MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

19 = 300 mm²

Rectus Series

39



Technical Description
Compact industrial coupling system in brass for use with numerous gaseous and liquid media.
UltraFlo valve for optimum flow and low pressure drop.

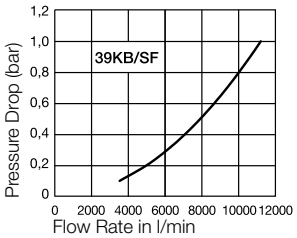
Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

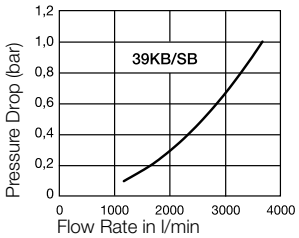
* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

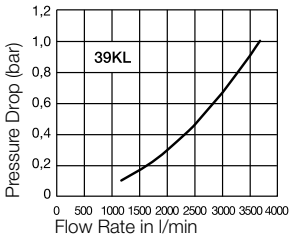
KA Single Shut-Off	KB Double Shut-Off	KL Leak-Free
Working Pressure**		
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar	8 bar
Features		
		• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material		
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass **Plug:** Brass **Seals:** NBR
Interchangeability		
• Hansen 7000		

Flow diagrams

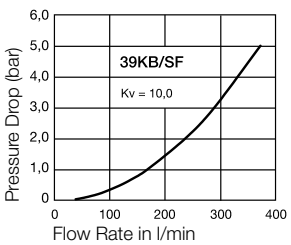
Air

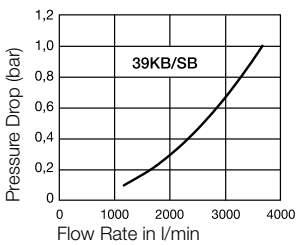


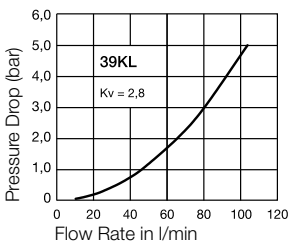




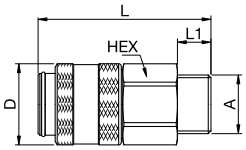
Water





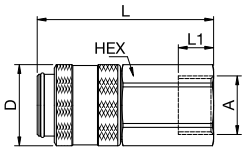


Couplings – with valve — Series 39KB



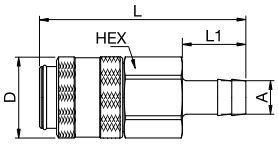
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		95	16		46			blank	39KBAW26MPX
G 3/4	41		95	16		46			nickel plated	39KBAW26MPN
G 1	41		98	19		46			blank	39KBAW33MPX
G 1	41		98	19		46			nickel plated	39KBAW33MPN
G 1 1/4	46		98	19		46			blank	39KBAW42MPX
G 1 1/4	46		98	19		46			nickel plated	39KBAW42MPN



Female Thread

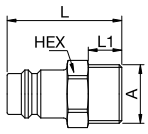
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		99	20		46			blank	39KBIW26MPX
G 3/4	41		99	20		46			nickel plated	39KBIW26MPN
G 1	41		100	20		46			blank	39KBIW33MPX
G 1	41		100	20		46			nickel plated	39KBIW33MPN
G 1 1/4	50		105	22		46			blank	39KBIW42MPX
G 1 1/4	50		105	22		46			nickel plated	39KBIW42MPN



Hose Barb

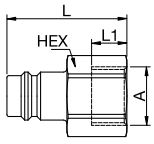
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
19 mm	41		115	36		46			blank	39KBTF19MPX
19 mm	41		115	36		46			nickel plated	39KBTF19MPN
25 mm	41		125	48		46			blank	39KBTF25MPX
25 mm	41		125	48		46			nickel plated	39KBTF25MPN

Plugs – without valve — Series 39SF



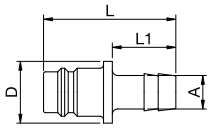
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	30		60	16					blank	39SFAW26MXX
G 3/4	30		60	16					nickel plated	39SFAW26MXN
G 1	34		65	19					blank	39SFAW33MXX
G 1	34		65	19					nickel plated	39SFAW33MXN
G 1 1/4	46		68	19					blank	39SFAW42MXX
G 1 1/4	46		68	19					nickel plated	39SFAW42MXN



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	32		58	16					blank	39SFIW26MXX
G 3/4	32		58	16					nickel plated	39SFIW26MXN
G 1	41		68	24					blank	39SFIW33MXX
G 1	41		68	24					nickel plated	39SFIW33MXN
G 1 1/4	50		70	26					blank	39SFIW42MXX
G 1 1/4	50		70	26					nickel plated	39SFIW42MXN



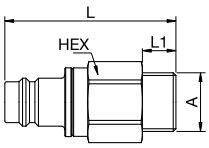
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
19 mm			75	36		35			blank	39SFTF19MXX
19 mm			75	36		35			nickel plated	39SFTF19MXN
25 mm			87	48		35			blank	39SFTF25MXX
25 mm			87	48		35			nickel plated	39SFTF25MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

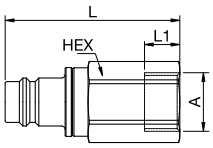
Plugs – with valve

Series 39SB



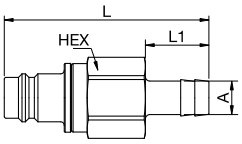
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		92	16					blank	39SBAW26MPX
G 3/4	41		92	16					nickel plated	39SBAW26MPN
G 1	41		95	19					blank	39SBAW33MPX
G 1	41		95	19					nickel plated	39SBAW33MPN
G 1 1/4	46		95	19					blank	39SBAW42MPX
G 1 1/4	46		95	19					nickel plated	39SBAW42MPN



Female Thread

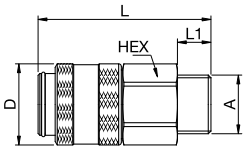
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		96	19					blank	39SBIW26MPX
G 3/4	41		96	19					nickel plated	39SBIW26MPN
G 1	41		97	24					blank	39SBIW33MPX
G 1	41		97	24					nickel plated	39SBIW33MPN
G 1 1/4	50		102	26					blank	39SBIW42MPX
G 1 1/4	50		102	26					nickel plated	39SBIW42MPN



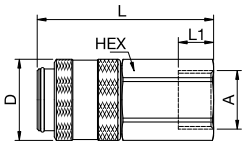
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
19 mm	41		114	36					blank	39SBTF19MPX
19 mm	41		114	36					nickel plated	39SBTF19MPN
25 mm	41		124	48					blank	39SBTF25MPX
25 mm	41		124	48					nickel plated	39SBTF25MPN

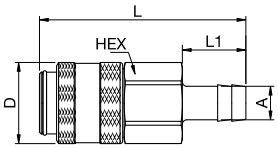
Couplings – flat-sealing — Series 39KL



Male Thread



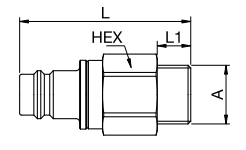
Female Thread



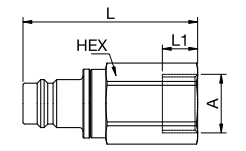
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		95	16		46			blank	39KLAW26MPX
G 3/4	41		95	16		46			nickel plated	39KLAW26MPN
G 1	41		98	19		46			blank	39KLAW33MPX
G 1	41		98	19		46			nickel plated	39KLAW33MPN
G 1 1/4	41		98	19		46			blank	39KLAW42MPX
G 1 1/4	41		98	19		46			nickel plated	39KLAW42MPN
G 3/4	41		99	20		46			blank	39KLIW26MPX
G 3/4	41		99	20		46			nickel plated	39KLIW26MPN
G 1	41		100	20		46			blank	39KLIW33MPX
G 1	41		100	20		46			nickel plated	39KLIW33MPN
G 1 1/4	50		105	22		46			blank	39KLIW42MPX
G 1 1/4	50		105	22		46			nickel plated	39KLIW42MPN
19 mm	41		115	36		46			blank	39KLTF19MPX
19 mm	41		115	36		46			nickel plated	39KLTF19MPN
25 mm	41		125	48		46			blank	39KLTF25MPX
25 mm	41		125	48		46			nickel plated	39KLTF25MPN

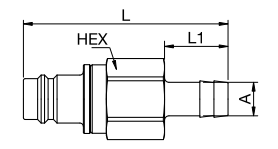
Plugs – flat-sealing — Series 39KL



Male Thread



Female Thread



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/4	41		92	16					blank	39SLAW26MPX
G 3/4	41		92	16					nickel plated	39SLAW26MPN
G 1	41		95	19					blank	39SLAW33MPX
G 1	41		95	19					nickel plated	39SLAW33MPN
G 1 1/4	41		95	19					blank	39SLAW42MPX
G 1 1/4	41		95	19					nickel plated	39SLAW42MPN
G 3/4	41		96	16					blank	39SLIW26MPX
G 3/4	41		96	16					nickel plated	39SLIW26MPN
G 1	41		97	24					blank	39SLIW33MPX
G 1	41		97	24					nickel plated	39SLIW33MPN
G 1 1/4	50		102	26					blank	39SLIW42MPX
G 1 1/4	50		102	26					nickel plated	39SLIW42MPN
19 mm	41		114	36					blank	39SLTF19MPX
19 mm	41		114	36					nickel plated	39SLTF19MPN
25 mm	41		124	48					blank	39SLTF25MPX
25 mm	41		124	48					nickel plated	39SLTF25MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

4,3 - 20

Rectus Series

70



Technical Description
Coupling series in sizes 1/8" to 1" with plug profile compliant with ISO 7241-1 series B. Particularly suited to use with liquid media.
Coupling system with two-hand operation, i.e. both hands are required when coupling/uncoupling. The coupling series stands out for its high flow rates against a low pressure drop.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 70
The following other designs can be found from page:

➤ Stainless Steel P. 224
➤ Thermoplastic P. 246

KB Double Shut-Off

Working Pressure**

see chart
** maximum static working pressure with safety factor 4 to 1.

Material

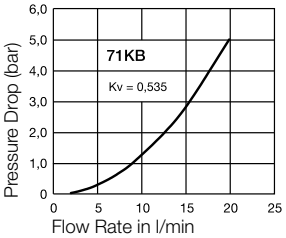
Coupling: Brass
Plug: Brass
Seals: NBR

Interchangeability

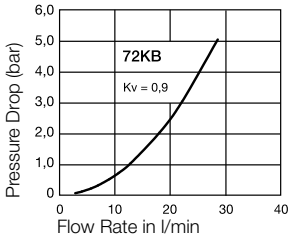
• ISO 7241-1 Series B

Flow diagrams Water

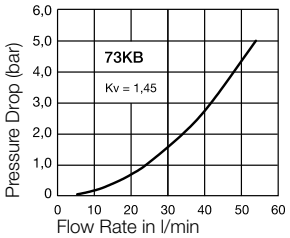
71KB - 1/8"



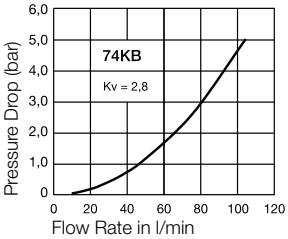
72KB - 1/4"



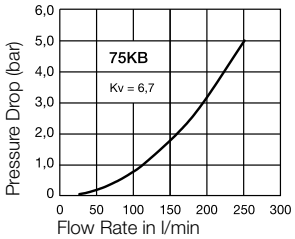
73KB - 3/8"



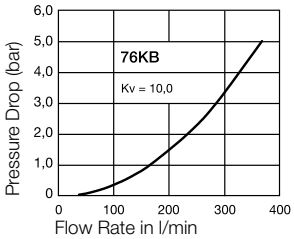
74KB - 1/2"



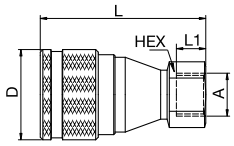
75KB - 3/4"



76KB - 1"



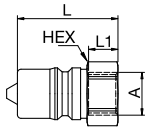
Couplings – with valve — Series 70KB



Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	D mm	Version	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		48,5	7	25	blank	250	71KBIW10MPX
1/8"	G 1/8	14		48,5	7	25	nickel plated	250	71KBIW10MPN
1/4"	G 1/4	19		57,5	10	25	blank	200	72KBIW13MPX
1/4"	G 1/4	19		57,5	10	25	nickel plated	200	72KBIW13MPN
3/8"	G 3/8	22		64	11,5	35	blank	200	73KBIW17MPX
3/8"	G 3/8	22		64	11,5	35	nickel plated	200	73KBIW17MPN
1/2"	G 1/2	27		76	16	44,5	blank	150	74KBIW21MPX
1/2"	G 1/2	27		76	16	44,5	nickel plated	150	74KBIW21MPN
3/4"	G 3/4	34		96	24	55	blank	100	75KBIW26MPX
3/4"	G 3/4	34		96	24	55	nickel plated	100	75KBIW26MPN
1"	G 1	41		105,5	24	62	blank	100	76KBIW33MPX
1"	G 1	41		105,5	24	62	nickel plated	100	76KBIW33MPN

Plugs – with valve — Series 70KB



Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	D mm	Version	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		29,5	7		blank	250	71SBIW10MPX
1/8"	G 1/8	14		29,5	7		nickel plated	250	71SBIW10MPN
1/4"	G 1/4	19		35	10		blank	200	72SBIW13MPX
1/4"	G 1/4	19		35	10		nickel plated	200	72SBIW13MPN
3/8"	G 3/8	22		39	11,5		blank	200	73SBIW17MPX
3/8"	G 3/8	22		39	11,5		nickel plated	200	73SBIW17MPN
1/2"	G 1/2	27		48	16		blank	150	74SBIW21MPX
1/2"	G 1/2	27		48	16		nickel plated	150	74SBIW21MPN
3/4"	G 3/4	36		60	24		blank	100	75SBIW26MPX
3/4"	G 3/4	36		60	24		nickel plated	100	75SBIW26MPX
1"	G 1	41		65	24		blank	100	76SBIW33MPX
1"	G 1	41		65	24		nickel plated	100	76SBIW33MPX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

22 = 380 mm²

Tema Series

2100



Technical Description
Series 2100 is used mainly in the area of compressed air. The system is particularly suited to large pneumatic plants and compressed air tools with a very high flow. This series has a special safety function, which requires a turn and push/pull movement during connection and disconnection. It also has an automatic pressure release function, which facilitates easy handling. A coupling system with very high flow rates, robust design, high corrosion resistance and a safety function.

Dust Protections **(P. 319)**
for Coupling Part.-No. 10026
for Plug Part.-No. 5026-QC

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

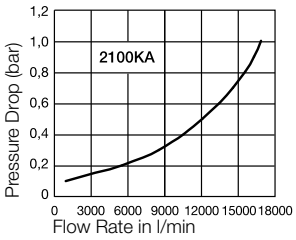
Working Pressure**
20 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass / Steel hardened, zinc plated and passivated
Plug: Steel hardened, zinc plated and passivated
Seals: NBR

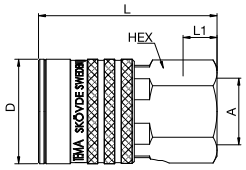
Interchangeability
- Tema Design

Flow diagrams

Air



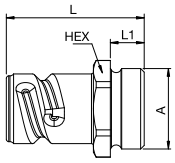
Couplings – with valve — Series 2100KA



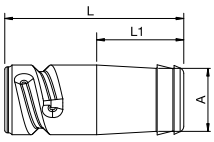
Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1	41		82	14		48				2100KAIW33MPX

Plugs – without valve — Series 2100KA



Male Thread



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1	36		57	14						2100SFAW33SXZ
19 mm			74	36						2100SFTF19SXZ
25 mm			40	36						2100SFTF25SXZ
32 mm			42	43						2100SFTF32SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Female Thread	G 1		2100	**2100KAIW33MPX**	177
Plugs – without valve					
Male Thread	G 1		21210	**2100SFAW33SXZ**	177
					177
Hose Barb	19 mm		21019-QC	**2100SFTF19SXZ**	177
	25 mm		21025	**2100SFTF25SXZ**	177
	32 mm		21032-QC	**2100SFTF32SXZ**	177

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

2,7 = 5 mm²

Rectus Series

20



Technical Description
Mini industrial coupling with internationally used profile. Frequent use in medical technology and chemistry/pharmacy.
Coupling system with single-hand operation. High flow despite small dimensions plus many applications with a variety of media.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

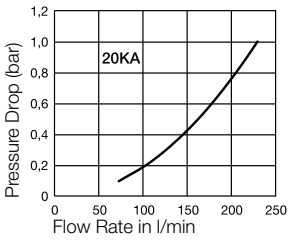
Other designs in series 20
The following other designs can be found from page:

➤ Brass / Steel P. 20
➤ Medical Technology (NP) P. 250

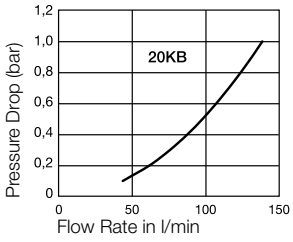
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Features	
	• Low pressure drop
Material	
Coupling: AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM
Interchangeability	
• Walther 06-003	

Flow diagrams

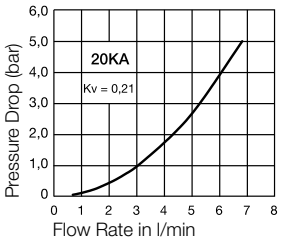
Air



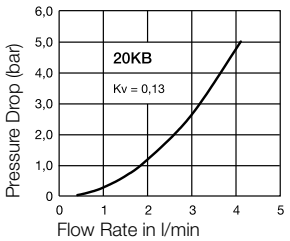
Air



Water

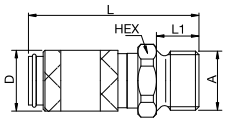
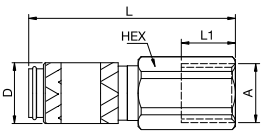
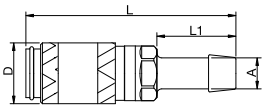
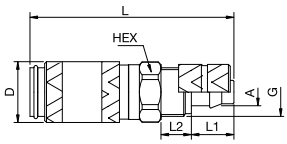
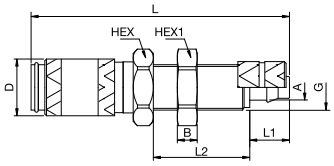


Water



Couplings – with valve

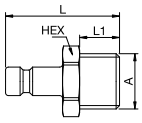
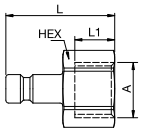
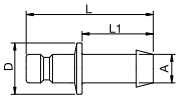
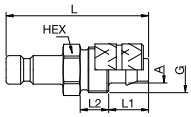
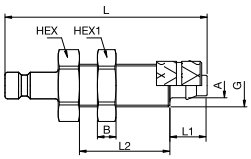
Series 20KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		26	5		10			AISI 303	20KAAM05RVX
	M 5	9		26	5		10			AISI 316 L	20KAAM05EVX
	G 1/8	11		28	7		10			AISI 303	20KAAW10RVX
	G 1/8	11		28	7		10			AISI 316 L	20KAAW10EVX
 Female Thread	M 5	9		25	5		10			AISI 303	20KAIM05RVX
	M 5	9		25	5		10			AISI 316 L	20KAIM05EVX
	G 1/8	12		28	7		10			AISI 303	20KAIW10RVX
	G 1/8	12		28	7		10			AISI 316 L	20KAIW10EVX
 Hose Barb	3 mm			35	13		10			AISI 303	20KATF03RVX
	4 mm			35	13		10			AISI 303	20KATF04RVX
	4 mm			35	13		10			AISI 316 L	20KATF04EVX
	5 mm			35	13		10			AISI 303	20KATF05RVX
 with Plastic Hose Connection	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	AISI 303	20KAKO04RVX
	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	AISI 316 L	20KAKO04EVX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	AISI 303	20KAKO05RVX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	AISI 316 L	20KAKO05EVX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	AISI 303	20KAKO06RVX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	AISI 316 L	20KAKO06EVX
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	AISI 303	20KAKS04RVX
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	AISI 303	20KAKS05RVX
	4 x 6 mm	12	11	45	7	17	10	3	M 8 x 0,5	AISI 303	20KAKS06RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

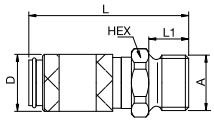
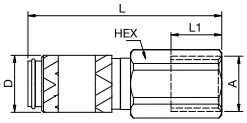
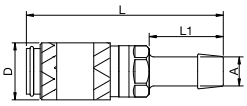
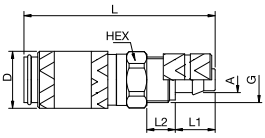
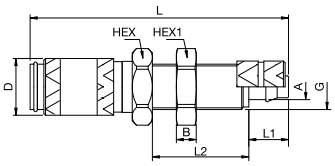
Plugs – without valve

Series 20KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	7		18	5					AISI 303	20SFAM05RXX
	M 5	7		18	5					AISI 316 L	20SFAM05EXX
	G 1/8	11		20	7					AISI 303	20SFAW10RXX
	G 1/8	11		20	7					AISI 316 L	20SFAW10EXX
 Female Thread	M 5	7		17	5					AISI 303	20SFIM05RXX
	M 5	7		17	5					AISI 316 L	20SFIM05EXX
	G 1/8	12		19	7					AISI 303	20SFIW10RXX
	G 1/8	12		19	7					AISI 316 L	20SFIW10EXX
 Hose Barb	3 mm			24	13		7			AISI 303	20SFTF03RXX
	3 mm			24	13		7			AISI 316 L	20SFTF03EXX
	4 mm			24	13		7			AISI 303	20SFTF04RXX
	4 mm			24	13		7			AISI 316 L	20SFTF04EXX
	5 mm			22	13		9			AISI 303	20SFTF05RXX
	5 mm			22	13		9			AISI 316 L	20SFTF05EXX
 with Plastic Hose Connection	3 x 4 mm	8		25	7	5			M 7 x 0,5	AISI 303	20SFKO04RXX
	3 x 4 mm	8		25	7	5			M 7 x 0,5	AISI 316 L	20SFKO04EXX
	3 x 5 mm	8		25	7	5			M 7 x 0,5	AISI 303	20SFKO05RXX
	3 x 5 mm	8		25	7	5			M 7 x 0,5	AISI 316 L	20SFKO05EXX
	4 x 6 mm	8		25	7	5			M 8 x 0,5	AISI 303	20SFKO06RXX
	4 x 6 mm	8		25	7	5			M 8 x 0,5	AISI 316 L	20SFKO06EXX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	12	12	38	7	17		3	M 8 x 0,5	AISI 303	20SFKS06RXX

Couplings – with valve

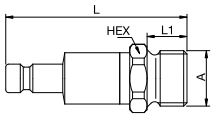
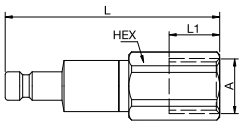
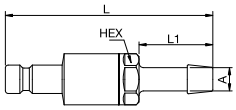
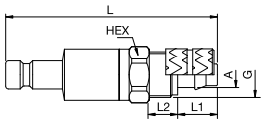
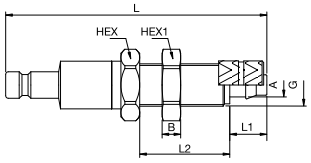
Series 20KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		26	5		10			AISI 303	20KBAM05RVX
	M 5	9		26	5		10			AISI 316 L	20KBAM05EVX
	G 1/8	11		28	7		10			AISI 303	20KBAW10RVX
	G 1/8	11		28	7		10			AISI 316 L	20KBAW10EVX
 Female Thread	M 5	9		25	5		10			AISI 303	20KBIM05RVX
	M 5	9		25	5		10			AISI 316 L	20KBIM05EVX
	G 1/8	12		28	7		10			AISI 303	20KBIW10RVX
	G 1/8	12		28	7		10			AISI 316 L	20KBIW10EVX
 Hose Barb	3 mm			35	13		10			AISI 303	20KBTF03RVX
	4 mm			35	13		10			AISI 303	20KBTF04RVX
	4 mm			35	13		10			AISI 316 L	20KBTF04EVX
	5 mm			35	13		10			AISI 303	20KBTF05RVX
 with Plastic Hose Connection	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	AISI 303	20KBKO04RVX
	3 x 4 mm	9		34	7	5	10		M 7 x 0,5	AISI 316 L	20KBKO04EVX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	AISI 303	20KBKO05RVX
	3 x 5 mm	9		34	7	5	10		M 7 x 0,5	AISI 316 L	20KBKO05EVX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	AISI 303	20KBKO06RVX
	4 x 6 mm	9		34	7	5	10		M 8 x 0,5	AISI 316 L	20KBKO06EVX
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	45	7	17	10	3	M 7 x 0,5	AISI 303	20KBKS04RVX
	3 x 5 mm	12	11	45	7	17	10	3	M 7 x 0,5	AISI 303	20KBKS05RVX
	4 x 6 mm	12	12	45	7	17	10	3,5	M 8 x 0,5	AISI 303	20KBKS06RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 20KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	M 5	9		28	5					AISI 303	20SBAM05RVX
	M 5	9		28	5					AISI 316 L	20SBAM05EVX
	G 1/8	11		30	7					AISI 303	20SBAW10RVX
	G 1/8	11		30	7					AISI 316 L	20SBAW10EVX
 Female Thread	M 5	9		27	5					AISI 303	20SBIM05RVX
	M 5	9		27	5					AISI 316 L	20SBIM05EVX
	G 1/8	12		30	7					AISI 303	20SBIW10RVX
	G 1/8	12		30	7					AISI 316 L	20SBIW10EVX
 Hose Barb	3 mm	8		37	13					AISI 303	20SBTF03RVX
	4 mm	8		37	13					AISI 303	20SBTF04RVX
	4 mm	8		37	13					AISI 316 L	20SBTF04EVX
	5 mm	8		37	13					AISI 303	20SBTF05RVX
 with Plastic Hose Connection	3 x 4 mm	9		36	7	5			M 7 x 0,5	AISI 303	20SBKO04RVX
	3 x 4 mm	9		36	7	5			M 7 x 0,5	AISI 316 L	20SBKO04EVX
	3 x 5 mm	9		36	7	5			M 7 x 0,5	AISI 303	20SBKO05RVX
	3 x 5 mm	9		36	7	5			M 7 x 0,5	AISI 316 L	20SBKO05EVX
	4 x 6 mm	9		36	7	5			M 8 x 0,5	AISI 303	20SBKO06RVX
	4 x 6 mm	9		36	7	5			M 8 x 0,5	AISI 316 L	20SBKO06EVX
 Panel Mount with Plastic Hose Connection	3 x 4 mm	12	11	47	7	17		3	M 7 x 0,5	AISI 303	20SBKS04RVX
	3 x 5 mm	12	11	47	7	17		3	M 7 x 0,5	AISI 303	20SBKS05RVX
	4 x 6 mm	12	12	47	7	17		3,5	M 8 x 0,5	AISI 303	20SBKS06RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

3 = 7 mm²

Rectus Series

303



Technical Description
Mini industrial coupling with plug profile according to ISO 6150 C. Popular profile in analytical and medical technology. Above average flow rate performance for liquid and gaseous media.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

KB Double Shut-Off

Working Pressure**

35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

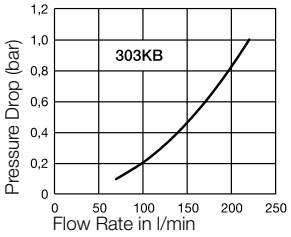
Coupling: AISI 316L
Plug: AISI 316L
Seals: FKM

Interchangeability

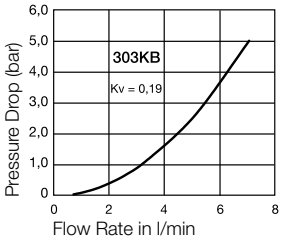
- ISO 6150 C

Flow diagrams

Air

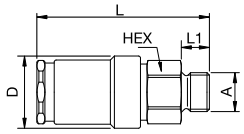
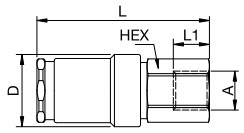
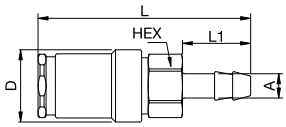
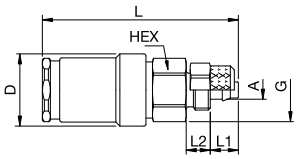


Water



Couplings – with valve

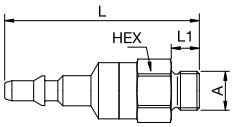
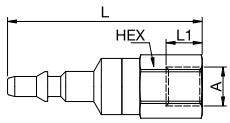
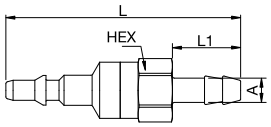
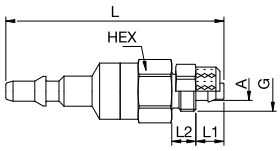
Series 303KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		43	7		18				303KBAW10EVX
	G 1/4	17		45	9		18				303KBAW13EVX
 Female Thread	G 1/8	14		43	9		18				303KBIW10EVX
	G 1/4	17		45	9		18				303KBIW13EVX
 Hose Barb	4 mm	14		53	17		18				303KBTF04EVX
	6 mm	14		53	17		18				303KBTF06EVX
 with Plastic Hose Connection	4 x 6 mm	14	12	49	7	6	18		M 10 x 1		303KBKO06EVX
	6 x 8 mm	14	14	49	7	6	18		M 12 x 1		303KBKO08EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

Series 303KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		48,5	7						303SBAW10EVX
	G 1/4	17		50,5	9						303SBAW13EVX
 Female Thread	G 1/8	14		48,5	9						303SBIW10EVX
	G 1/4	17		50,5	9						303SBIW13EVX
 Hose Barb	4 mm	14		58,5	17						303SBTF04EVX
	6 mm	14		58,5	17						303SBTF06EVX
 with Plastic Hose Connection	4 x 6 mm	14	12	54,5	7	6			M 10 x 1		303SBKO06EVX
	6 x 8 mm	14	14	54,5	7	6			M 12 x 1		303SBKO08EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

4 = 12,5 mm²

Rectus Series

204



Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling. Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

Other designs in series 204
The following other designs can be found from page:

➤ Brass / Steel P. 26

KL Leak-Free

Working Pressure**

15 bar
** maximum static working pressure with safety factor 4 to 1.

Material

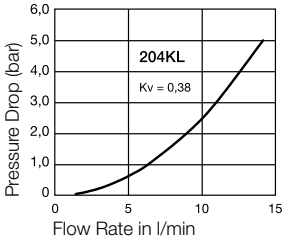
Coupling: AISI 316 L
Plug: AISI 316 L
Seals: FKM

Interchangeability

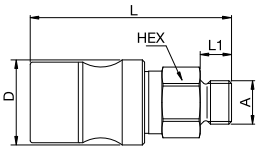
- Rectus Design

Flow diagrams

Water

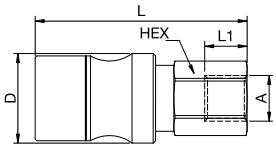


Couplings – flat-sealing — Series 204KL



Male Thread

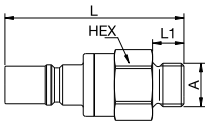
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		45	7		19				204KLAW10EVX
G 1/4	17		47	9		19				204KLAW13EVX



Female Thread

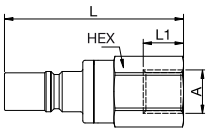
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		45	9		19				204KLIW10EVX
G 1/4	17		47	9		19				204KLIW13EVX

Plugs – flat-sealing — Series 204KL



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		40	7						204SLAW10EVX
G 1/4	17		42	9						204SLAW13EVX



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		40	9						204SLIW10EVX
G 1/4	17		42	9						204SLIW13EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

21



Technical Description
Mini industrial coupling with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media. Coupling system with single-hand operation. Small dimensions and large band width in materials and valve variants.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK16S

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

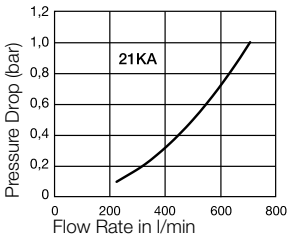
Other designs in series 21
The following other designs can be found from page:

➤ Brass / Steel P. 30
➤ Thermoplastic P. 232
➤ Medical Technology (MD) P. 256
➤ Safety P. 270
➤ Coded Systems P. 298

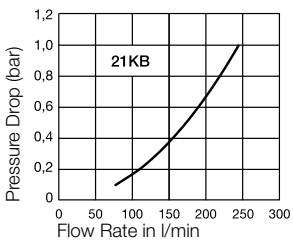
KA Single Shut-Off	KB Double Shut-Off	KL Leak-Free
Working Pressure**		
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar	8 bar
Features		
• All variants interchangeable		• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material		
Coupling: AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM
Interchangeability		
• Camozzi • EWO • Kani		

Flow diagrams

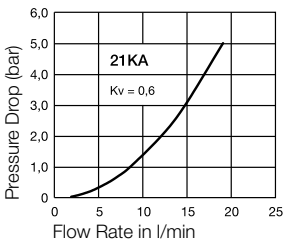
Air



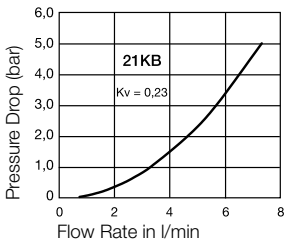
Air



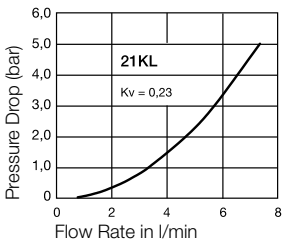
Water



Water

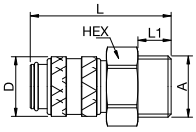
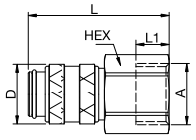
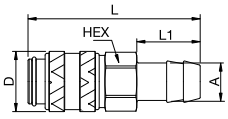
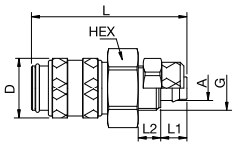


Water



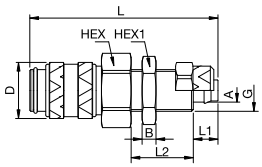
Couplings – with valve

Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			AISI 303	21KAAW10RVX
	G 1/8	14		36	7		16			AISI 316 L	21KAAW10EVX
	G 1/4	17		38	9		16			AISI 303	21KAAW13RVX
	G 1/4	17		38	9		16			AISI 316 L	21KAAW13EVX
	G 3/8	19		38	9		16			AISI 303	21KAAW17RVX
	G 3/8	19		38	9		16			AISI 316 L	21KAAW17EVX
	M 12 x 1,5	14		38	9		16			AISI 303	21KAAM12RVX
	M 14 x 1,5	17		39	10		16			AISI 303	21KAAM14RVX
 Female Thread	G 1/8	14		36	9		16			AISI 303	21KAIW10RVX
	G 1/8	14		36	9		16			AISI 316 L	21KAIW10EVX
	G 1/4	17		38	9		16			AISI 303	21KAIW13RVX
	G 1/4	17		38	9		16			AISI 316 L	21KAIW13EVX
	G 3/8	19		38	9		16			AISI 303	21KAIW17RVX
	G 3/8	19		38	9		16			AISI 316 L	21KAIW17EVX
	M 12 x 1,5	17		38	9		16			AISI 303	21KAIM12RVX
	M 14 x 1,5	17		38	9		16			AISI 316 L	21KAIM14RVX
 Hose Barb	4 mm	14		46	17		16			AISI 303	21KATF04RVX
	4 mm	14		46	17		16			AISI 316 L	21KATF04EVX
	6 mm	14		46	17		16			AISI 303	21KATF06RVX
	6 mm	14		46	17		16			AISI 316 L	21KATF06EVX
	8 mm	14		46	17		16			AISI 303	21KATF08RVX
	8 mm	14		46	17		16			AISI 316 L	21KATF08EVX
	9 mm	14		46	17		16			AISI 303	21KATF09RVX
	9 mm	14		46	17		16			AISI 316 L	21KATF09EVX
	10 mm	14		46	17		16			AISI 303	21KATF10RVX
	10 mm	14		46	17		16			AISI 316 L	21KATF10EVX
	6 mm Parker	14		50	20		16			AISI 303	21KATP06RVX
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 303	21KAKO06RVX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 316 L	21KAKO06EVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 303	21KAKO08RVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 316 L	21KAKO08EVX

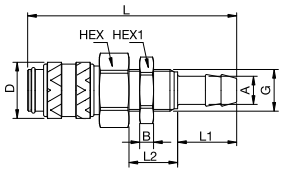
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 21KA



Panel Mount
with Plastic Hose Connection

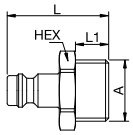
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
4 x 6 mm	14	12	54	7	18	16	3	M 10 x 1	AISI 303	21KAKS06RVX
4 x 6 mm	14	12	54	7	18	16	3	M 10 x 1	AISI 316 L	21KAKS06EVX
6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	AISI 303	21KAKS08RVX



Panel Mount with Hose Barb

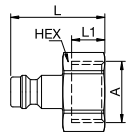
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm	17	17	60	17	14	16	4	M 12 x 1	AISI 303	21KATS06RVX
8 mm	17	17	60	17	14	16	4	M 12 x 1	AISI 303	21KATS08RVX

Plugs – without valve — Series 21KA



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		25	7					AISI 303	21SFAW10RXX
G 1/8	14		25	7					AISI 316 L	21SFAW10EXX
G 1/4	17		28	9					AISI 303	21SFAW13RXX
G 1/4	17		28	9					AISI 316 L	21SFAW13EXX
G 3/8	19		28	9					AISI 303	21SFAW17RXX
G 3/8	19		28	9					AISI 316 L	21SFAW17EXX
M 10 x 1	14		25	7					AISI 303	21SFAM10RXX
M 12 x 1,5	17		28	10					AISI 303	21SFAM12RXX
M 14 x 1,5	17		28	10					AISI 303	21SFAD14RXX

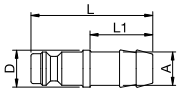
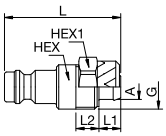
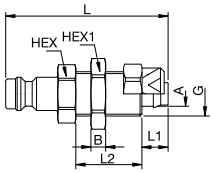


Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		25	8					AISI 303	21SFIW10RXX
G 1/8	14		25	8					AISI 316 L	21SFIW10EXX
G 1/4	17		25	9					AISI 303	21SFIW13RXX
G 1/4	17		25	9					AISI 316 L	21SFIW13EXX
G 3/8	19		26	9					AISI 303	21SFIW17RXX
G 3/8	19		26	9					AISI 316 L	21SFIW17EXX
M 10 x 1	14		26	9					AISI 303	21SFIM10RXX
M 14 x 1,5	17		27	10					AISI 303	21SFIM14RXX

Plugs – without valve

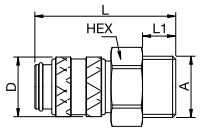
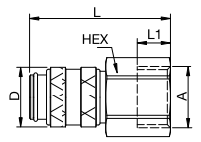
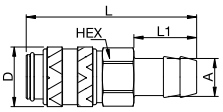
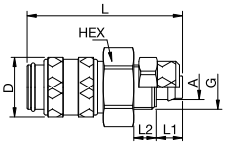
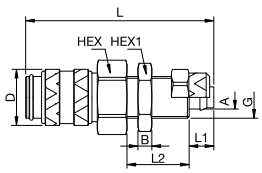
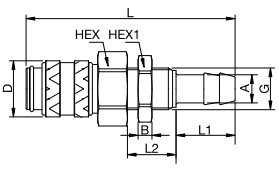
Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Hose Barb	4 mm			32	17		9			AISI 303	21SFTF04RXX
	5 mm			32	17		9			AISI 303	21SFTF05RXX
	6 mm			32	17		9			AISI 303	21SFTF06RXX
	6 mm			32	17		9			AISI 316 L	21SFTF06EXX
	8 mm			32	17		9			AISI 303	21SFTF08RXX
	8 mm			32	17		9			AISI 316 L	21SFTF08EXX
	9 mm			33	17		10			AISI 303	21SFTF09RXX
	9 mm			33	17		10			AISI 316 L	21SFTF09EXX
	10 mm			33	17		12			AISI 303	21SFTF10RXX
	10 mm			33	17		12			AISI 316 L	21SFTF10EXX
	6 mm Parker			36	20		12			AISI 303	21SFTP06RXX
 with Plastic Hose Connection	4 x 6 mm	12	12	32	7	6			M 10 x 1	AISI 303	21SFKO06RXX
	4 x 6 mm	12	12	32	7	6			M 10 x 1	AISI 316 L	21SFKO06EXX
	6 x 8 mm	14	14	32	7	6			M 12 x 1	AISI 303	21SFKO08RXX
	6 x 8 mm	14	14	32	7	6			M 12 x 1	AISI 316 L	21SFKO08EXX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	12	43	7	18		3	M 10 x 1	AISI 303	21SFKS06RXX
	4 x 6 mm	14	12	43	7	18		3	M 10 x 1	AISI 316 L	21SFKS06EXX
	6 x 8 mm	14	17	44	7	18		4	M 12 x 1	AISI 303	21SFKS08RXX

⚠ Please consider our security advices on the pages 12/13 ⚠

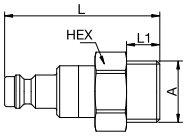
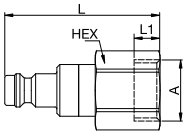
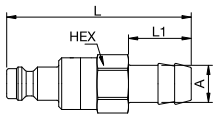
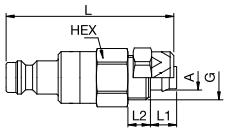
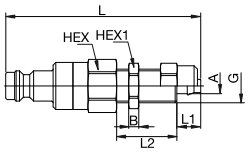
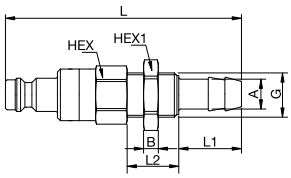
Couplings – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			AISI 303	21KBAW10RVX
	G 1/8	14		36	7		16			AISI 316 L	21KBAW10EVX
	G 1/4	17		38	9		16			AISI 303	21KBAW13RVX
	G 1/4	17		38	9		16			AISI 316 L	21KBAW13EVX
	G 3/8	19		38	9		16			AISI 303	21KBAW17RVX
	G 3/8	19		38	9		16			AISI 316 L	21KBAW17EVX
 Female Thread	G 1/8	14		36	9		16			AISI 303	21KBIW10RVX
	G 1/8	14		36	9		16			AISI 316 L	21KBIW10EVX
	G 1/4	17		38	7		16			AISI 303	21KBIW13RVX
	G 1/4	17		38	7		16			AISI 316 L	21KBIW13EVX
	G 3/8	19		38	9		16			AISI 303	21KBIW17RVX
	G 3/8	19		38	9		16			AISI 316 L	21KBIW17EVX
 Hose Barb	4 mm	14		46	17		16			AISI 303	21KBTF04RVX
	4 mm	14		46	17		16			AISI 316 L	21KBTF04EVX
	5 mm	14		46	17		16			AISI 303	21KBTF05RVX
	6 mm	14		46	17		16			AISI 303	21KBTF06RVX
	6 mm	14		46	17		16			AISI 316 L	21KBTF06EVX
	8 mm	14		46	17		16			AISI 303	21KBTF08RVX
	8 mm	14		46	17		16			AISI 316 L	21KBTF08EVX
	9 mm	14		46	17		16			AISI 303	21KBTF09RVX
	9 mm	14		46	17		16			AISI 316 L	21KBTF09EVX
	10 mm	14		46	17		16			AISI 303	21KBTF10RVX
	10 mm	14		46	17		16			AISI 316 L	21KBTF10EVX
	6 mm Parker	14		50	20		16			AISI 303	21KBTP06RVX
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 303	21KBKO06RVX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 316 L	21KBKO06EVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 303	21KBKO08RVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 316 L	21KBKO08EVX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	AISI 303	21KBKS06RVX
	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	AISI 316 L	21KBKS06EVX
	6 x 8 mm	17	14	54	7	18	16	4	M 12 x 1	AISI 303	21KBKS08RVX
 Panel Mount with Hose Barb	8 mm	17	17	60	17	14	16	4	M 12 x 1	AISI 303	21KBTS08RVX

Plugs – with valve

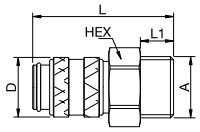
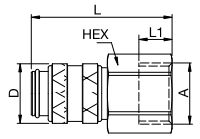
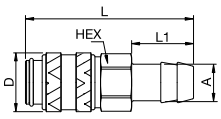
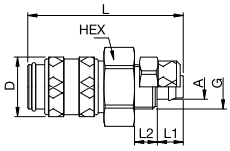
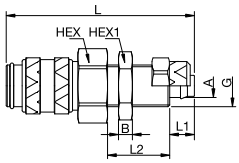
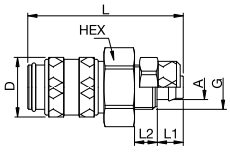
Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		40	7					AISI 303	21SBAW10RVX
	G 1/8	14		40	7					AISI 316 L	21SBAW10EVX
	G 1/4	17		42	9					AISI 303	21SBAW13RVX
	G 1/4	17		42	9					AISI 316 L	21SBAW13EVX
	G 3/8	19		42	9					AISI 303	21SBAW17RVX
	G 3/8	19		42	9					AISI 316 L	21SBAW17EVX
	M 14 x 1,5	17		43	10					AISI 303	21SBAM14RVX
 Female Thread	G 1/8	14		40	9					AISI 303	21SBIW10RVX
	G 1/8	14		40	9					AISI 316 L	21SBIW10EVX
	G 1/4	17		42	7					AISI 303	21SBIW13RVX
	G 1/4	17		42	7					AISI 316 L	21SBIW13EVX
	G 3/8	19		42	9					AISI 303	21SBIW17RVX
	G 3/8	19		42	9					AISI 316 L	21SBIW17EVX
	M 10 x 1	14		40	9					AISI 303	21SBIM10RVX
	M 12 x 1,5	17		42	9					AISI 303	21SBIM12RVX
	M 14 x 1,5	17		42	9					AISI 303	21SBIM14RVX
 Hose Barb	6 mm	14		50	17					AISI 303	21SBTF06RVX
	6 mm	14		50	17					AISI 316 L	21SBTF06EVX
	8 mm	14		50	17					AISI 303	21SBTF08RVX
	8 mm	14		50	17					AISI 316 L	21SBTF08EVX
	9 mm	14		50	17					AISI 303	21SBTF09RVX
	9 mm	14		50	17					AISI 316 L	21SBTF09EVX
	10 mm	14		50	17					AISI 303	21SBTF10RVX
	10 mm	14		50	17					AISI 316 L	21SBTF10EVX
	6 mm Parker	14		54	20					AISI 303	21SBTP06RVX
 with Plastic Hose Connection	4 x 6 mm	14		46	7	6			M 10 x 1	AISI 303	21SBKO06RVX
	4 x 6 mm	14		46	7	6			M 10 x 1	AISI 316 L	21SBKO06EVX
	6 x 8 mm	14		46	7	6			M 12 x 1	AISI 303	21SBKO08RVX
	6 x 8 mm	14		46	7	6			M 12 x 1	AISI 316 L	21SBKO08EVX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	12	58	7	18		3	M 10 x 1	AISI 303	21SBKS06RVX
	4 x 6 mm	14	12	58	7	18		3	M 10 x 1	AISI 316 L	21SBKS06EVX
	6 x 8 mm	17	17	58	7	18		4	M 12 x 1	AISI 303	21SBKS08RVX
 Panel Mount with Hose Barb	6 mm	17	17	64	17	14		4	M 12 x 1	AISI 303	21SBTS06RVX
	9 mm	17	17	64	17	14		4	M 12 x 1	AISI 303	21SBTS09RVX
	10 mm	17	17	61	17	11		3,5	G 1/4	AISI 303	21SBTS10RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

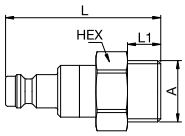
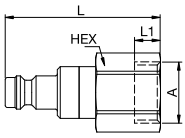
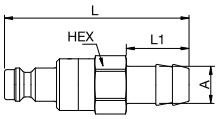
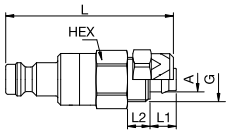
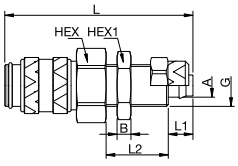
Couplings – flat-sealing

Series 21KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			AISI 303	21KLAW10RVX
	G 1/8	14		36	7		16			AISI 316 L	21KLAW10EVX
	G 1/4	17		38	9		16			AISI 303	21KLAW13RVX
	G 1/4	17		38	9		16			AISI 316 L	21KLAW13EVX
	G 3/8	19		38	9		16			AISI 303	21KLAW17RVX
	G 3/8	19		38	9		16			AISI 316 L	21KLAW17EVX
 Female Thread	G 1/8	14		36	9		16			AISI 303	21KLIW10RVX
	G 1/8	14		36	9		16			AISI 316 L	21KLIW10EVX
	G 1/4	17		38	9		16			AISI 303	21KLIW13RVX
	G 1/4	17		38	9		16			AISI 316 L	21KLIW13EVX
 Hose Barb	6 mm	14		46	17		16			AISI 316 L	21KLTF06EVX
	8 mm	14		46	17		16			AISI 303	21KLTF08RVX
	8 mm	14		46	17		16			AISI 316 L	21KLTF08EVX
	9 mm	14		46	17		16			AISI 303	21KLTF09RVX
	9 mm	14		46	17		16			AISI 316 L	21KLTF09EVX
	10 mm	14		46	17		16			AISI 316 L	21KLTF10EVX
	6 mm Parker	14		50	20		16			AISI 303	21KLTP06RVX
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 303	21KLKO06RVX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	AISI 316 L	21KLKO06EVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 303	21KLKO08RVX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	AISI 316 L	21KLKO08EVX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	AISI 303	21KLKS06RVX
	4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	AISI 316 L	21KLKS06EVX
	6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	AISI 303	21KLKS08RVX
 Panel Mount with Hose Barb	8 mm	17	17	60	17	14	16		M 12 x 1	AISI 303	21KLTS08RVX

Plugs – flat-sealing

Series 21KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		40	7					AISI 303	21SLAW10RVX
	G 1/8	14		40	7					AISI 316 L	21SLAW10EVX
	G 1/4	17		42	9					AISI 303	21SLAW13RVX
	G 1/4	17		42	9					AISI 316 L	21SLAW13EVX
	G 3/8	19		42	9					AISI 303	21SLAW17RVX
	G 3/8	19		42	9					AISI 316 L	21SLAW17EVX
 Female Thread	G 1/8	14		40	9					AISI 303	21SLIW10RVX
	G 1/8	14		40	9					AISI 316 L	21SLIW10EVX
 Hose Barb	5 mm	14		50	17					AISI 316 L	21SLTF05EVX
	6 mm	14		50	17					AISI 303	21SLTF06RVX
	6 mm	14		50	17					AISI 316 L	21SLTF06EVX
	9 mm	14		50	17					AISI 316 L	21SLTF09EVX
	10 mm	14		50	17					AISI 303	21SLTF10RVX
	10 mm	14		50	17					AISI 316 L	21SLTF10EVX
	6 mm Parker	14		54	20					AISI 303	21SLTP06RVX
 with Plastic Hose Connection	4 x 6 mm	14		46	7	6			M 10 x 1	AISI 303	21SLKO06RVX
	4 x 6 mm	14		46	7	6			M 10 x 1	AISI 316 L	21SLKO06EVX
	6 x 8 mm	14		46	7	6			M 12 x 1	AISI 303	21SLKO08RVX
	6 x 8 mm	14		46	7	6			M 12 x 1	AISI 316 L	21SLKO08EVX
 Panel Mount with Plastic Hose Connection	6 x 8 mm	17	17	58	7	18		4	M 12 x 1	AISI 303	21SLKS08RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

6 = 28 mm²

Rectus Series

206



Other designs in series 206
The following other designs can be found from page:

➤ Brass / Steel P. 74

Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling. Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

KL Leak-Free

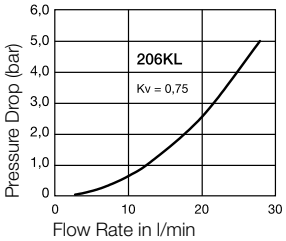
Working Pressure**
15 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: AISI 316 L
Plug: AISI 316 L
Seals: FKM

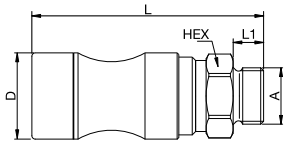
Interchangeability
• Rectus Design

Flow diagrams

Water

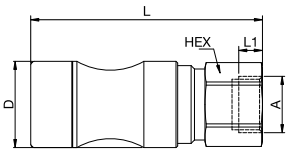


Couplings – flat-sealing — Series 206KL



Male Thread

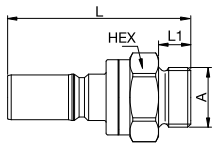
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		68,5	9		25,5				206KLAW17EVX
G 1/2	24		71,5	12		25,5				206KLAW21EVX



Female Thread

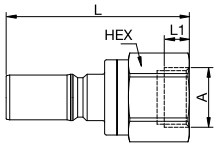
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		68,5	9		25,5				206KLIW17EVX
G 1/2	24		71,5	12		25,5				206KLIW21EVX

Plugs – flat-sealing — Series 206KL



Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		55	9						206SLAW17EVX
G 1/2	24		54	12						206SLAW21EVX



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		51	9						206SLIW17EVX
G 1/2	24		54	12						206SLIW21EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,2 = 40 mm²

Rectus Series

26



Technical Description
Universal stainless steel coupling with standard European profile. Version in AISI 303 stainless steel for corrosion-resistant applications, as an alternative to the UltraFlo versions.
Coupling system with single-hand operation and standard valve. Small mass size.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK16S

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

Other designs in series 26
The following other designs can be found from page:

➤ Brass / Steel P. 84
➤ Safety Self-Venting P. 292

KA Single Shut-Off

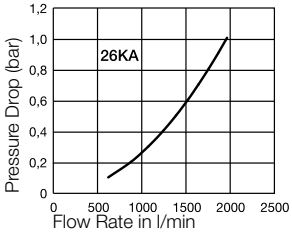
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: AISI 303 + PTFE
Plug: AISI 303
Seals: FKM

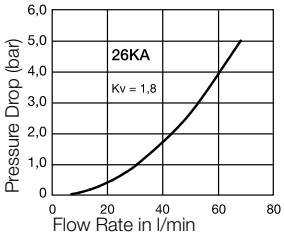
Interchangeability
- Rectus 25
- European Standardprofile

Flow diagrams

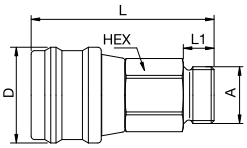
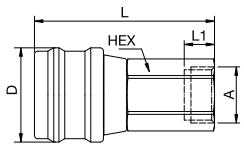
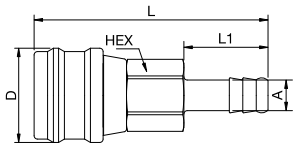
Air



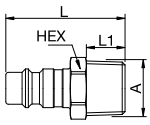
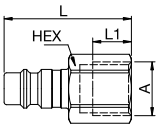
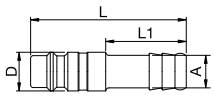
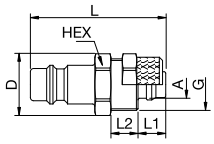
Water



Couplings – with valve — Series 26KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		55,5	10,5		28				26KAAW13RVX
	G 3/8	19		53,5	9		28				26KAAW17RVX
	G 1/2	24		56,5	12		28				26KAAW21RVX
 Female Thread	G 1/4	19		51,5	10		28				26KAIW13RVX
	G 3/8	19		53,5	9		28				26KAIW17RVX
	G 1/2	24		56,5	12		28				26KAIW21RVX
 Hose Barb	6 mm	19		69,5	25		28				26KATF06RVX
	8 mm	19		69,5	25		28				26KATF08RVX
	9 mm	19		69,5	25		28				26KATF09RVX
	10 mm	19		69,5	25		28				26KATF10RVX
	13 mm	19		69,5	28		25				26KATF13RVX

Plugs – without valve — Series 26KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		31	7						25SFAW10RXX
	G 1/4	17		33	9						25SFAW13RXX
	G 3/8	19		33	9						25SFAW17RXX
	G 1/2	24		38	12						25SFAW21RXX
 Female Thread	G 1/8	14		30	7						25SFIW10RXX
	G 1/4	17		33	10						25SFIW13RXX
	G 3/8	19		33	10						25SFIW17RXX
	G 1/2	24		35	12						25SFIW21RXX
	M 16 x 1,5	19		33	10						25SFIM16RXX
 Hose Barb	6 mm			48	25		12				25SFTF06RXX
	8 mm			48	25		12				25SFTF08RXX
	9 mm			48	25		12				25SFTF09RXX
	10 mm			48	25		12				25SFTF10RXX
	13 mm			48	25		15				25SFTF13RXX
 with Plastic Hose Connection	4 x 6 mm			34	7	6	12		M 10 x 1		25SFKO06RXX
	6 x 8 mm			34	7	6	12		M 12 x 1		25SFKO08RXX
	8 x 10 mm	17		42	9	8			M 16 x 1		25SFKO10RXX
	9 x 12 mm	17		42	9	8			M 16 x 1		25SFKO12RXX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 43 mm²

Rectus Series

1300



Technical Description
Series 1300 is used mainly for applications in the area of compressed air and liquids. Optimally suited to use with liquid and aggressive media. The coupling series stands out for its compact design and corrosion resistance.

Dust Protections **(P. 319)**
for Coupling Part.-No. 1315-QC
for Plug Part.-No. 1325-QC

Working Temperature*
-25°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -25°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

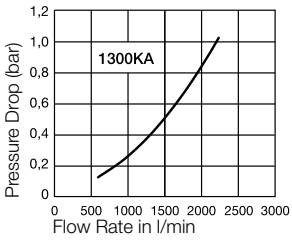
Other designs in series 1300
The following other designs can be found from page:

➤ Brass / Steel P. 92

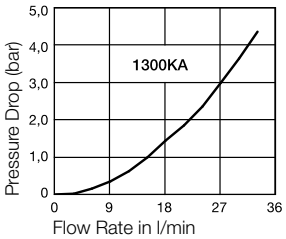
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Features	
• Single-hand operation	• Two-hand operation
Material	
Coupling: AISI 316 **Plug:** AISI 316 **Seals:** FKM	**Coupling:** AISI 316 **Plug:** AISI 316 **Seals:** FKM
Interchangeability	
• Rectus 31	

Flow diagrams

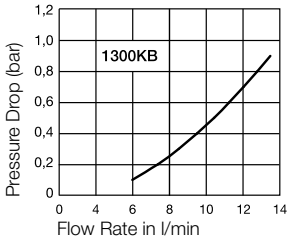
Air



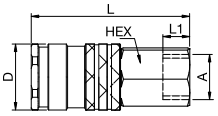
Water



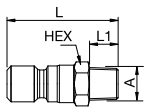
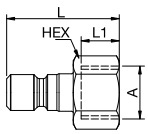
Water



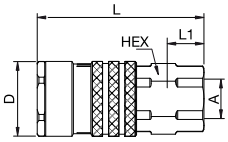
Couplings – with valve — Series 1300KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/4	18		49	8,75		22				1300KAIW13EVX

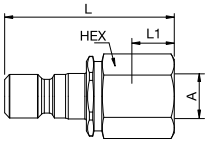
Plugs – without valve — Series 1300KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	13		35	9						1300SFAW10EXX
 Female Thread	G 1/4	16		36	10						1300SFIW13EXX

Couplings – with valve — Series 1300KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/4	18		49	8		22				1300KBIW13EVX

Plugs – with valve — Series 1300KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Female Thread	G 1/4	18		44	9						1300SBIW13EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Female Thread	G 1/4		1300 RV	**1300KAIW13EVX**	201
Plugs – without valve					
Male Thread	G 1/8		13110 R	**1300SFAW10EXX**	201
Female Thread	G 1/4		13410 R	**1300SFIW13EXX**	201
Couplings – with valve					
Female Thread	G 1/4		1300 NRV	**1300KBIW13EVX**	201
Plugs – with valve					
Female Thread	G 1/4		13410 RV	**1300SBIW13EVX**	201

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 42 mm²

Rectus Series

25



Technical Description
Universal industrial coupling with standard European profile for use with gaseous, liquid and aggressive media.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The series stands out for its robust design and long service life even with the harshest use. The collar design minimises damage to the valve body.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

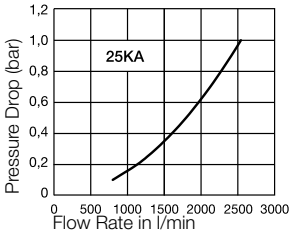
Other designs in series 25
The following other designs can be found from page:

➤ Brass / Steel P. 98
➤ Safety P. 274
➤ Safety Self-Venting P. 294
➤ Coded Systems P. 302

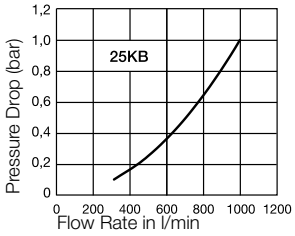
KA Single Shut-Off	KB Double Shut-Off	KL Leak-Free
Working Pressure**		
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar	8 bar
Features		
		• Minimal, almost imperceptible leakage when uncoupling • No air locked into the system during the coupling process
Material		
Coupling: AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM
Interchangeability		
• Rectus 26 • Cejn 320 • various German Products		

Flow diagrams

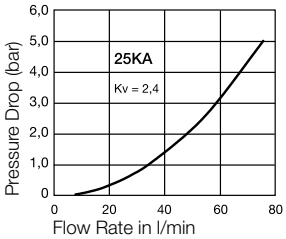
Air



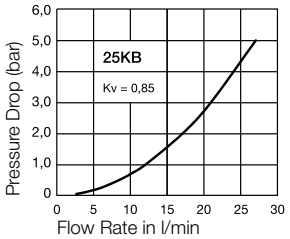
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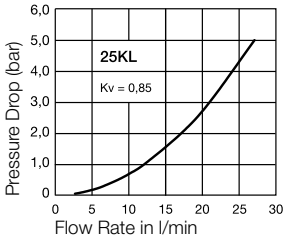
Water



Water

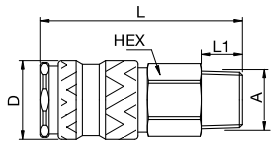
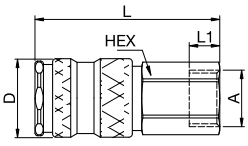
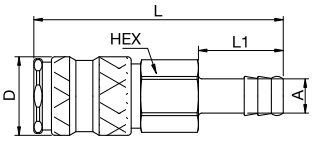
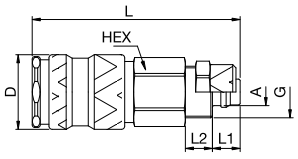
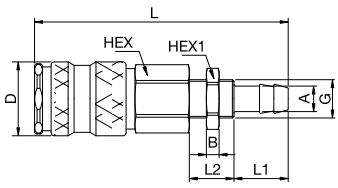


Water



Couplings – with valve

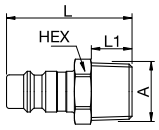
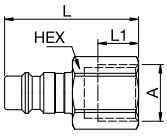
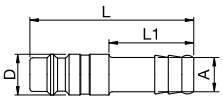
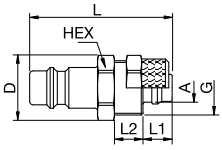
Series 25KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		59,5	10,5		23			AISI 303	25KAAW13RVX
	G 1/4	19		59,5	10,5		23			AISI 316 L	25KAAW13EVX
	G 3/8	19		57,5	9		23			AISI 303	25KAAW17RVX
	G 3/8	19		57,5	9		23			AISI 316 L	25KAAW17EVX
	G 1/2	24		60,5	12		23			AISI 303	25KAAW21RVX
	G 1/2	24		60,5	12		23			AISI 316 L	25KAAW21EVX
	M 18 x 1,5	19		59,5	11		23			AISI 303	25KAAM18RVX
 Female Thread	G 1/4	19		55,5	10		23			AISI 303	25KAIW13RVX
	G 1/4	19		55,5	10		23			AISI 316 L	25KAIW13EVX
	G 3/8	19		54,5	9		23			AISI 303	25KAIW17RVX
	G 3/8	19		54,5	9		23			AISI 316 L	25KAIW17EVX
	G 1/2	24		57,5	12		23			AISI 303	25KAIW21RVX
	G 1/2	24		57,5	12		23			AISI 316 L	25KAIW21EVX
 Hose Barb	6 mm	19		73,5	25		23			AISI 303	25KATF06RVX
	6 mm	19		73,5	25		23			AISI 316 L	25KATF06EVX
	8 mm	19		73,5	25		23			AISI 303	25KATF08RVX
	8 mm	19		73,5	25		23			AISI 316 L	25KATF08EVX
	9 mm	19		73,5	25		23			AISI 303	25KATF09RVX
	9 mm	19		73,5	25		23			AISI 316 L	25KATF09EVX
	10 mm	19		73,5	25		23			AISI 303	25KATF10RVX
	10 mm	19		73,5	25		23			AISI 316 L	25KATF10EVX
	13 mm	19		73,5	25		23			AISI 303	25KATF13RVX
	13 mm	19		73,5	25		23			AISI 316 L	25KATF13EVX
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M 12 x 1	AISI 303	25KAKO08RVX
	6 x 8 mm	19		61	7	6	23		M 12 x 1	AISI 316 L	25KAKO08EVX
	8 x 10 mm	19		64,5	9	8	23		M 16 x 1	AISI 303	25KAKO10RVX
	9 x 12 mm	19		64,5	9	8	23		M 16 x 1	AISI 303	25KAKO12RVX
	9 x 12 mm	19		64,5	9	8	23		M 16 x 1	AISI 316 L	25KAKO12EVX
 Panel Mount with Hose Barb	6 mm	19	17	75,5	17	10	23	4	M 12 x 1	AISI 303	25KATS06RVX
	8 mm	19	17	79,5	17	14	23	4	M 12 x 1	AISI 303	25KATS08RVX
	10 mm	19	19	79,5	25	14	23	4	M 14 x 1	AISI 303	25KATS10RVX

⚠ Please consider our security advices on the pages 12/13 ⚠

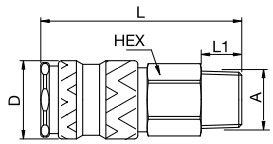
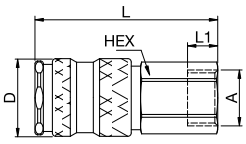
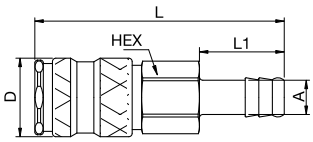
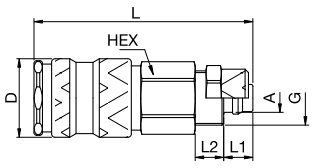
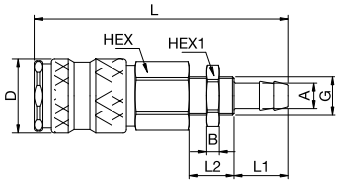
Plugs – without valve

Series 25KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	19		33	9					AISI 303	25SFAW17RXX
	G 3/8	19		33	9					AISI 316 L	25SFAW17EXX
	G 1/2	24		38	12					AISI 303	25SFAW21RXX
	G 1/2	24		38	12					AISI 316 L	25SFAW21EXX
 Female Thread	G 1/8	14		30	7					AISI 303	25SFIW10RXX
	G 1/8	14		30	7					AISI 316 L	25SFIW10EXX
	G 1/4	17		33	10					AISI 303	25SFIW13RXX
	G 1/4	17		33	10					AISI 316 L	25SFIW13EXX
	G 3/8	19		33	10					AISI 303	25SFIW17RXX
	G 3/8	19		33	10					AISI 316 L	25SFIW17EXX
	G 1/2	24		35	12					AISI 303	25SFIW21RXX
	G 1/2	24		35	12					AISI 316 L	25SFIW21EXX
	M 16 x 1,5	19		33	10					AISI 303	25SFIM16RXX
 Hose Barb	6 mm			48	25		12			AISI 303	25SFTF06RXX
	6 mm			48	25		12			AISI 316 L	25SFTF06EXX
	8 mm			48	25		12			AISI 303	25SFTF08RXX
	8 mm			48	25		12			AISI 316 L	25SFTF08EXX
	9 mm			48	25		12			AISI 303	25SFTF09RXX
	9 mm			48	25		12			AISI 316 L	25SFTF09EXX
	10 mm			48	25		12			AISI 303	25SFTF10RXX
	10 mm			48	25		12			AISI 316 L	25SFTF10EXX
	13 mm			48	25		15			AISI 303	25SFTF13RXX
	13 mm			48	25		15			AISI 316 L	25SFTF13EXX
 with Plastic Hose Connection	4 x 6 mm			34	7	6	12		M 10 x 1	AISI 303	25SFKO06RXX
	4 x 6 mm			34	7	6	12		M 10 x 1	AISI 316 L	25SFKO06EXX
	6 x 8 mm			34	7	6	12		M 12 x 1	AISI 303	25SFKO08RXX
	6 x 8 mm			34	7	6	12		M 12 x 1	AISI 316 L	25SFKO08EXX
	8 x 10 mm	17		42	9	8			M 16 x 1	AISI 303	25SFKO10RXX

Couplings – with valve

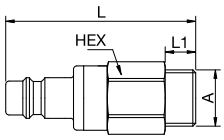
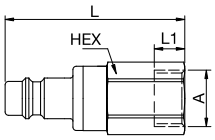
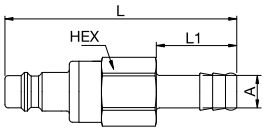
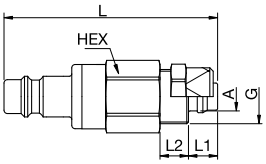
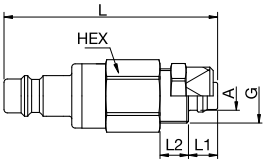
Series 25KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		59,5	10,5		23			AISI 303	25KBAW13RVX
	G 1/4	19		59,5	10,5		23			AISI 316 L	25KBAW13EVX
	G 3/8	19		57,5	9		23			AISI 303	25KBAW17RVX
	G 3/8	19		57,5	9		23			AISI 316 L	25KBAW17EVX
	G 1/2	24		60,5	12		23			AISI 303	25KBAW21RVX
	G 1/2	24		60,5	12		23			AISI 316 L	25KBAW21EVX
	M 16 x 1,5	19		59	10,5		23			AISI 303	25KBAM16RVX
	M 16 x 1,5	19		59	10,5		23			AISI 316 L	25KBAM16EVX
 Female Thread	G 1/4	19		55,5	10		23			AISI 303	25KBIW13RVX
	G 1/4	19		55,5	10		23			AISI 316 L	25KBIW13EVX
	G 3/8	19		54,5	9		23			AISI 303	25KBIW17RVX
	G 3/8	19		54,5	9		23			AISI 316 L	25KBIW17EVX
	G 1/2	24		57,5	12		23			AISI 303	25KBIW21RVX
	G 1/2	24		57,5	12		23			AISI 316 L	25KBIW21EVX
	M 14 x 1,5	19		54,5	9		23			AISI 303	25KBIM14RVX
	M 16 x 1,5	19		54,5	9		23			AISI 303	25KBIM16RVX
	M 18 x 1,5	22		54,5	9		23			AISI 303	25KBIM18RVX
 Hose Barb	6 mm	19		73,5	25		23			AISI 303	25KBTF06RVX
	6 mm	19		73,5	25		23			AISI 316 L	25KBTF06EVX
	8 mm	19		73,5	25		23			AISI 303	25KBTF08RVX
	8 mm	19		73,5	25		23			AISI 316 L	25KBTF08EVX
	9 mm	19		73,5	25		23			AISI 303	25KBTF09RVX
	9 mm	19		73,5	25		23			AISI 316 L	25KBTF09EVX
	10 mm	19		73,5	25		23			AISI 303	25KBTF10RVX
	10 mm	19		73,5	25		23			AISI 316 L	25KBTF10EVX
	13 mm	19		73,5	25		23			AISI 303	25KBTF13RVX
	13 mm	19		73,5	25		23			AISI 316 L	25KBTF13EVX
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M 12 x 1	AISI 303	25KBKO08RVX
	6 x 8 mm	19		61	7	6	23		M 12 x 1	AISI 316 L	25KBKO08EVX
	8 x 10 mm	19		64,5	9	8	23		M 16 x 1	AISI 303	25KBKO10RVX
	9 x 12 mm	19		64,5	9	8	23		M 16 x 1	AISI 303	25KBKO12RVX
	9 x 12 mm	19		64,5	9	8	23		M 16 x 1	AISI 316 L	25KBKO12EVX
 Panel Mount with Hose Barb	10 mm	19	19	79,5	25	14	23	4	M 14 x 1	AISI 303	25KBTS10RVX

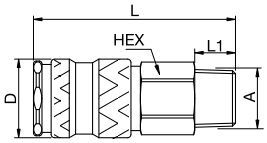
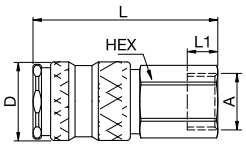
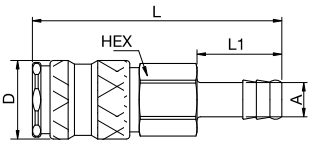
⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – with valve

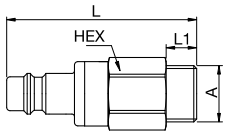
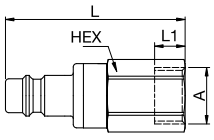
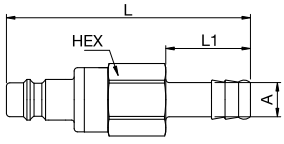
Series 25KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	19		54	7					AISI 303	25SBAW10RVX
	G 1/8	19		54	7					AISI 316 L	25SBAW10EVX
	G 1/4	19		58	10,5					AISI 303	25SBAW13RVX
	G 1/4	19		58	10,5					AISI 316 L	25SBAW13EVX
	G 3/8	19		56	9					AISI 303	25SBAW17RVX
	G 3/8	19		56	9					AISI 316 L	25SBAW17EVX
	G 1/2	24		59	12					AISI 303	25SBAW21RVX
	G 1/2	24		59	12					AISI 316 L	25SBAW21EVX
	M 16 x 1,5	19		57,5	10,5					AISI 303	25SBAM16RVX
	M 16 x 1,5	19		57,5	10,5					AISI 316 L	25SBAM16EVX
	M 18 x 1,5	19		58	11					AISI 303	25SBAM18RVX
 Female Thread	G 1/4	19		54	10					AISI 303	25SBIW13RVX
	G 1/4	19		54	10					AISI 316 L	25SBIW13EVX
	G 3/8	19		53	9					AISI 303	25SBIW17RVX
	G 3/8	19		53	9					AISI 316 L	25SBIW17EVX
	G 1/2	24		56	12					AISI 303	25SBIW21RVX
	G 1/2	24		56	12					AISI 316 L	25SBIW21EVX
	M 18 x 1,5	22		53	9					AISI 303	25SBIM18RVX
 Hose Barb	6 mm	19		72	25					AISI 303	25SBTF06RVX
	6 mm	19		72	25					AISI 316 L	25SBTF06EVX
	8 mm	19		72	25					AISI 303	25SBTF08RVX
	8 mm	19		72	25					AISI 316 L	25SBTF08EVX
	9 mm	19		72	25					AISI 303	25SBTF09RVX
	9 mm	19		72	25					AISI 316 L	25SBTF09EVX
	10 mm	19		72	25					AISI 303	25SBTF10RVX
	10 mm	19		72	25					AISI 316 L	25SBTF10EVX
	13 mm	19		72	25					AISI 303	25SBTF13RVX
	13 mm	19		72	25					AISI 316 L	25SBTF13EVX
 with Plastic Hose Connection	4 x 6 mm	19		59	7	6			M 10 x 1	AISI 303	25SBKO06RVX
	6 x 8 mm	19		59	7	6			M 12 x 1	AISI 303	25SBKO08RVX
	6 x 8 mm	19		59	7	6			M 12 x 1	AISI 316 L	25SBKO08EVX
	8 x 10 mm	19		63	8,5	8,5			M 16 x 1	AISI 303	25SBKO10RVX
	9 x 12 mm	19		63	8,5	8,5			M 16 x 1	AISI 303	25SBKO12RVX
	9 x 12 mm	19		63	8,5	8,5			M 16 x 1	AISI 316 L	25SBKO12EVX
 Panel Mount with Hose Barb	6 mm	19	17	74	17	10			M 12 x 1	AISI 303	25SBTS06RVX
	8 mm	19	17	78	17	14			M 12 x 1	AISI 303	25SBTS08RVX
	10 mm	19	19	78	17	14			M 14 x 1	AISI 303	25SBTS10RVX

Couplings – flat-sealing — Series 25KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		59,5	10,5		23			AISI 303	25KLAW13RVX
	G 1/4	19		59,5	10,5		23			AISI 316 L	25KLAW13EVX
	G 3/8	19		57,5	9		23			AISI 303	25KLAW17RVX
	G 3/8	19		57,5	9		23			AISI 316 L	25KLAW17EVX
	G 1/2	24		60,5	12		23			AISI 303	25KLAW21RVX
	G 1/2	24		60,5	12		23			AISI 316 L	25KLAW21EVX
 Female Thread	G 1/4	19		55,5	10		23			AISI 303	25KLIW13RVX
	G 1/4	19		55,5	10		23			AISI 316 L	25KLIW13EVX
	G 3/8	19		54,5	9		23			AISI 303	25KLIW17RVX
	G 3/8	19		54,5	9		23			AISI 316 L	25KLIW17EVX
	G 1/2	24		57,5	12		23			AISI 303	25KLIW21RVX
	G 1/2	24		57,5	12		23			AISI 316 L	25KLIW21EVX
 Hose Barb	9 mm	19		73,5	25		23			AISI 303	25KLTF09RVX
	9 mm	19		73,5	25		23			AISI 316 L	25KLTF09EVX
	13 mm	19		73,5	25		23			AISI 303	25KLTF13RVX
	13 mm	19		73,5	25		23			AISI 316 L	25KLTF13EVX

Plugs – flat-sealing — Series 25KL

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		58	10,5					AISI 303	25SLAW13RVX
	G 1/4	19		58	10,5					AISI 316 L	25SLAW13EVX
	G 3/8	19		56	9					AISI 303	25SLAW17RVX
	G 3/8	19		56	9					AISI 316 L	25SLAW17EVX
	G 1/2	24		59	12					AISI 303	25SLAW21RVX
	G 1/2	24		59	12					AISI 316 L	25SLAW21EVX
 Female Thread	G 1/4	19		54	10					AISI 303	25SLIW13RVX
	G 1/4	19		54	10					AISI 316 L	25SLIW13EVX
	G 3/8	19		53	9					AISI 303	25SLIW17RVX
	G 3/8	19		53	9					AISI 316 L	25SLIW17EVX
	G 1/2	24		56	12					AISI 303	25SLIW21RVX
	G 1/2	24		56	12					AISI 316 L	25SLIW21EVX
 Hose Barb	6 mm	19		75	25					AISI 303	25SLTF06RVX
	9 mm	19		72	25					AISI 303	25SLTF09RVX
	9 mm	19		72	25					AISI 316 L	25SLTF09EVX
	13 mm	19		72	25					AISI 303	25SLTF13RVX
	13 mm	19		72	25					AISI 316 L	25SLTF13EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

9 = 63,5 mm²

Rectus Series

209



Other designs in series 209
The following other designs can be found from page:

➤ Brass / Steel P. 126

Technical Description
Leak-free coupling system for applications in sensitive environments, for example in analysis technology, in cooling systems, in transport systems and many applications with aggressive media.
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channelled on the valve bodies when uncoupling. Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

KL Leak-Free

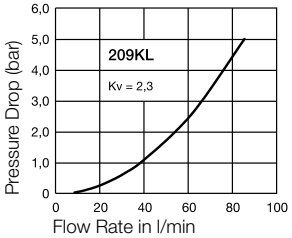
Working Pressure**
15 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: AISI 316 L
Plug: AISI 316 L
Seals: FKM

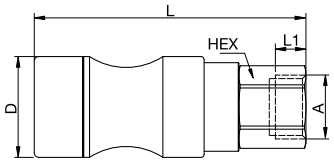
Interchangeability
- Rectus Design

Flow diagrams

Water



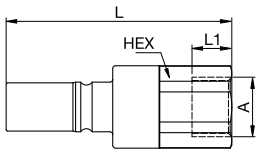
Couplings – flat-sealing — Series 209KL



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		92	16		33				209KLIW21EVX
G 3/4	32		94	16		33				209KLIW26EVX

Plugs – flat-sealing — Series 209KL



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	27		79,5	16						209SLIW21EVX
G 3/4	32		81,5	16						209SLIW26EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter
10 = 80 mm²

Rectus Series
27



Technical Description
1/2" universal industrial coupling with standard European profile for use with large pneumatic consumers. Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The series stands out for its robust design, extremely high flow and long service life even with the harshest use. The collar design minimises damage to the valve body.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK27S

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

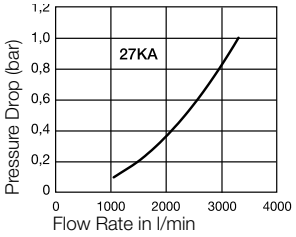
Other designs in series 27
The following other designs can be found from page:

➤ Brass / Steel P. 130
➤ Safety Self-Venting P. 296

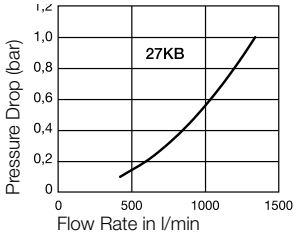
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Material	
Coupling: AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM	**Coupling:** AISI 303 / AISI 316 L **Plug:** AISI 303 / AISI 316 L **Seals:** FKM
Interchangeability	
• Cejn 410	

Flow diagrams

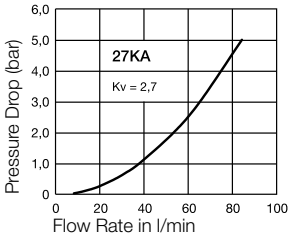
Air



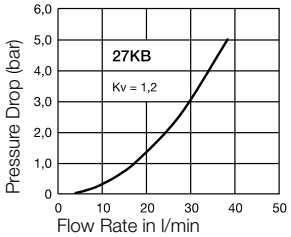
Air



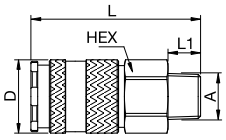
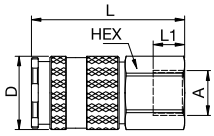
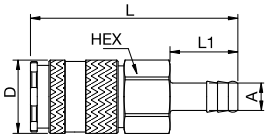
Water



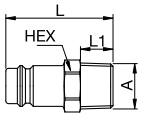
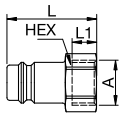
Water



Couplings – with valve — Series 27KA

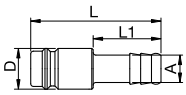
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	24		57,5	9		27			AISI 303	27KAAW13RVX
	G 3/8	24		57,5	9		27			AISI 303	27KAAW17RVX
	G 3/8	24		57,5	9		27			AISI 316 L	27KAAW17EVX
	G 1/2	24		59,5	12		27			AISI 303	27KAAW21RVX
	G 1/2	24		59,5	12		27			AISI 316 L	27KAAW21EVX
	G 3/4	32		60,5	16		27			AISI 303	27KAAW26RVX
	G 3/4	32		60,5	16		27			AISI 316 L	27KAAW26EVX
 Female Thread	G 3/8	24		56,5	11		27			AISI 303	27KAIW17RVX
	G 3/8	24		56,5	11		27			AISI 316 L	27KAIW17EVX
	G 1/2	24		56,5	12		27			AISI 303	27KAIW21RVX
	G 1/2	24		56,5	12		27			AISI 316 L	27KAIW21EVX
	G 3/4	32		60,5	16		27			AISI 303	27KAIW26RVX
	G 3/4	32		60,5	16		27			AISI 316 L	27KAIW26EVX
 Hose Barb	8 mm	24		76,5	25		27			AISI 316 L	27KATF08EVX
	9 mm	24		76,5	25		27			AISI 303	27KATF09RVX
	9 mm	24		76,5	25		27			AISI 316 L	27KATF09EVX
	10 mm	24		76,5	25		27			AISI 316 L	27KATF10EVX
	13 mm	24		76,5	25		27			AISI 303	27KATF13RVX
	13 mm	24		76,5	25		27			AISI 316 L	27KATF13EVX
	16 mm	24		76,5	25		27			AISI 303	27KATF16RVX
	16 mm	24		76,5	25		27			AISI 316 L	27KATF16EVX
	19 mm	24		76,5	25		27			AISI 303	27KATF19RVX
	19 mm	24		76,5	25		27			AISI 316 L	27KATF19EVX

Plugs – without valve — Series 27KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	17		36,5	9					AISI 303	27SFAW13RXX
	G 1/4	17		36,5	9					AISI 316 L	27SFAW13EXX
	G 3/8	19		36,5	9					AISI 303	27SFAW17RXX
	G 3/8	19		36,5	9					AISI 316 L	27SFAW17EXX
	G 1/2	24		40	12					AISI 303	27SFAW21RXX
	G 1/2	24		40	12					AISI 316 L	27SFAW21EXX
	G 3/4	32		45	16					AISI 303	27SFAW26RXX
	G 3/4	32		45	16					AISI 316 L	27SFAW26EXX
 Female Thread	G 3/8	19		33	9					AISI 303	27SFIW17RXX
	G 3/8	19		33	9					AISI 316 L	27SFIW17EXX
	G 1/2	24		37	12					AISI 303	27SFIW21RXX
	G 1/2	24		37	12					AISI 316 L	27SFIW21EXX
	G 3/4	32		42	16					AISI 303	27SFIW26RXX
	G 3/4	32		42	16					AISI 316 L	27SFIW26EXX

⚠ Please consider our security advices on the pages 12/13 ⚠

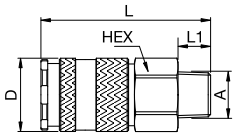
Plugs – without valve — Series 27KA



Hose Barb

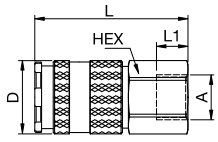
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
6 mm			48	25		15			AISI 303	27SFTF06RXX
8 mm			48	25		15			AISI 303	27SFTF08RXX
9 mm			48	25		15			AISI 303	27SFTF09RXX
9 mm			48	25		15			AISI 316 L	27SFTF09EXX
10 mm			48	25		15			AISI 303	27SFTF10RXX
13 mm			48	25		15			AISI 303	27SFTF13RXX
13 mm			48	25		15			AISI 316 L	27SFTF13EXX
16 mm			49	25		18			AISI 303	27SFTF16RXX
16 mm			49	25		18			AISI 316 L	27SFTF16EXX
19 mm			49	25		21			AISI 303	27SFTF19RXX
19 mm			49	25		21			AISI 316 L	27SFTF19EXX

Couplings – with valve — Series 27KB



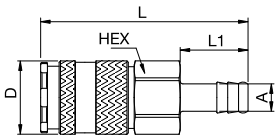
Male Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	24		57,5	9		27			AISI 303	27KBAW13RVX
G 3/8	24		57,5	9		27			AISI 303	27KBAW17RVX
G 3/8	24		57,5	9		27			AISI 316 L	27KBAW17EVX
G 1/2	24		59,5	12		27			AISI 303	27KBAW21RVX
G 1/2	24		59,5	12		27			AISI 316 L	27KBAW21EVX
G 3/4	32		60,5	16		27			AISI 303	27KBAW26RVX
G 3/4	32		60,5	16		27			AISI 316 L	27KBAW26EVX



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/4	24		56,5	10		27			AISI 316 L	27KBIW13EVX
G 3/8	24		56,5	11		27			AISI 303	27KBIW17RVX
G 3/8	24		56,5	11		27			AISI 316 L	27KBIW17EVX
G 1/2	24		56,5	12		27			AISI 303	27KBIW21RVX
G 1/2	24		56,5	12		27			AISI 316 L	27KBIW21EVX
G 3/4	32		60,5	16		27			AISI 303	27KBIW26RVX
G 3/4	32		60,5	16		27			AISI 316 L	27KBIW26EVX

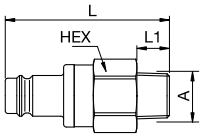
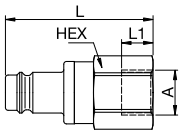
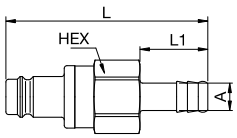


Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
13 mm	24		76,5	25		27			AISI 303	27KBTF13RVX
13 mm	24		76,5	25		27			AISI 316 L	27KBTF13EVX
16 mm	24		76,5	25		27			AISI 303	27KBTF16RVX
16 mm	24		76,5	25		27			AISI 316 L	27KBTF16EVX
19 mm	24		76,5	25		27			AISI 303	27KBTF19RVX
19 mm	24		76,5	25		27			AISI 316 L	27KBTF19EVX

Plugs – with valve

Series 27KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	24		55,5	9					AISI 303	27SBAW13RVX
	G 3/8	24		55,5	9					AISI 303	27SBAW17RVX
	G 3/8	24		55,5	9					AISI 316 L	27SBAW17EVX
	G 1/2	24		57,5	12					AISI 303	27SBAW21RVX
	G 1/2	24		57,5	12					AISI 316 L	27SBAW21EVX
	G 3/4	32		58,5	16					AISI 303	27SBAW26RVX
	G 3/4	32		58,5	16					AISI 316 L	27SBAW26EVX
 Female Thread	G 1/4	24		54,5	10					AISI 303	27SBIW13RVX
	G 1/4	24		54,5	10					AISI 316 L	27SBIW13EVX
	G 3/8	24		54,5	10					AISI 303	27SBIW17RVX
	G 3/8	24		54,5	10					AISI 316 L	27SBIW17EVX
	G 1/2	24		54,5	12					AISI 303	27SBIW21RVX
	G 1/2	24		54,5	12					AISI 316 L	27SBIW21EVX
	G 3/4	32		58,5	16					AISI 303	27SBIW26RVX
	G 3/4	32		58,5	16					AISI 316 L	27SBIW26EVX
 Hose Barb	9 mm	24		74,5	25					AISI 303	27SBTF09RVX
	9 mm	24		74,5	25					AISI 316 L	27SBTF09EVX
	13 mm	24		74,5	25					AISI 303	27SBTF13RVX
	13 mm	24		74,5	25					AISI 316 L	27SBTF13EVX
	16 mm	24		74,5	25					AISI 303	27SBTF16RVX
	16 mm	24		74,5	25					AISI 316 L	27SBTF16EVX
	19 mm	24		74,5	25					AISI 303	27SBTF19RVX
	19 mm	24		74,5	25					AISI 316 L	27SBTF19EVX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

9,5 = 71 mm²

Rectus Series

1800



Technical Description
The 1800 series in stainless steel is used mainly for applications in the area of liquids with aggressive media. The coupling system stands out for its robust, compact design and high corrosion resistance.

Dust Protections **(P. 319)**
for Coupling Part.-No. 5026-QC
for Plug Part.-No. 2526-QC

Working Temperature*
-25°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -25°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

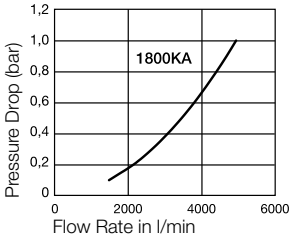
Other designs in series 1800
The following other designs can be found from page:

➤ Brass / Steel P. 140

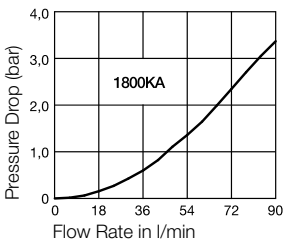
KA Single Shut-Off	KB Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	50 bar
Features	
• Single-hand operation	• Two-hand operation
Material	
Coupling: AISI 316 **Plug:** AISI 316 **Seals:** FKM	**Coupling:** AISI 316 **Plug:** AISI 316 **Seals:** FKM
Interchangeability	
• Tema Design	

Flow diagrams

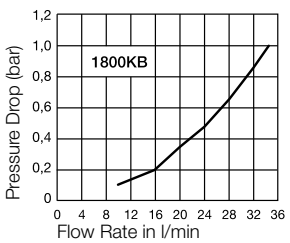
Air



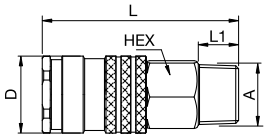
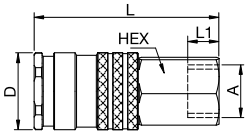
Water



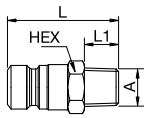
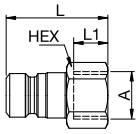
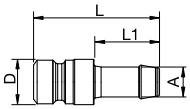
Water



Couplings – with valve — Series 1800KA

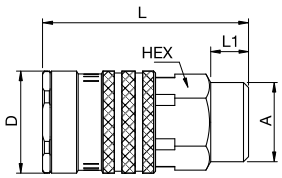
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/2	22		54	13		27				1800KAAW21EVX
 Female Thread	G 3/8	22		54	10		27				1800KAIW17EVX
	G 1/2	24		55	10		27				1800KAIW21EVX

Plugs – without valve — Series 1800KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	19		36	10						1800SFAW17EXX
 Female Thread	G 3/8	22		36	10						1800SFIW17EXX
 Hose Barb	6 mm			44	23		16				1800SFTF06EXX

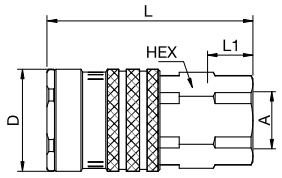
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 1800KB



Male Thread

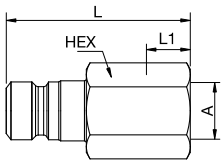
Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/2	22		54	10		27				1800KBAW21EVX



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		54	9		27				1800KBIW17EVX
G 1/2	24		55	9		27				1800KBIW21EVX

Plugs – with valve — Series 1800KB



Female Thread

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 3/8	22		49	10						1800SBIW17EVX
G 1/2	25		50	9						1800SBIW21EVX

Cross-Reference-List

Connection	Thread	Rectus Part Number old	Tema Part Number old	Part Number new	Page
Couplings – with valve					
Male Thread	G 1/2		1800 ARV	**1800KAAW21EVX**	221
Female Thread	G 3/8		1800 RV	**1800KAIW17EVX**	221
	G 1/2		1800 BRV	**1800KAIW21EVX**	221
Plugs – without valve					
Male Thread	G 3/8		18210 R	**1800SFAW17EXX**	221
Female Thread	G 3/8		18410 R	**1800SFIW17EXX**	221
Hose Barb	6 mm		18006 RF	**1800SFTF06EXX**	221
Couplings – with valve					
Male Thread	G 1/2		1800 NARV	**1800KBAW21EVX**	222
Female Thread	G 3/8		1800 NRV	**1800KBIW17EVX**	222
	G 1/2		1800 NBRV	**1800KBIW21EVX**	222
Plugs – with valve					
Female Thread	G 3/8		18410 RV	**1800SBIW17EVX**	222
	G 1/2		18422 RV	**1800SBIW21EVX**	222

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

4,3 - 20

Rectus Series

70



Other designs in series 70
The following other designs can be found from page:

➤ Brass / Steel P. 174
➤ Thermoplastic P. 246

Technical Description
Coupling series in sizes 1/8" to 1" with plug profile compliant with ISO 7241-1 series B. Particularly suited to use with liquid media.
Coupling system with two-hand operation, i.e. both hands are required when coupling/uncoupling. The coupling series stands out for its high flow rates against a low pressure drop.

Working Temperature*
-15°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -15°C and over +200°C and depending on the medium, other seal variants (EPDM, FFKM) are available.

KB Double Shut-Off

Working Pressure**

see charts
** maximum static working pressure with safety factor 4 to 1.

Material

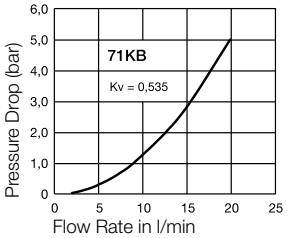
Coupling: AISI 303 / AISI 316 L
Plug: AISI 303 / AISI 316 L
Seals: FKM

Interchangeability

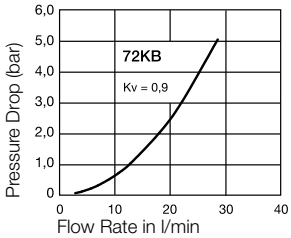
• ISO 7241-1 Series B

Flow diagrams Water

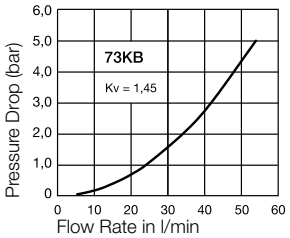
71KB - 1/8"



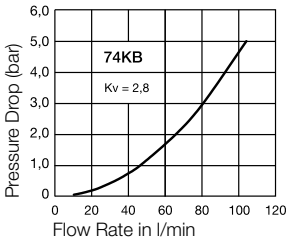
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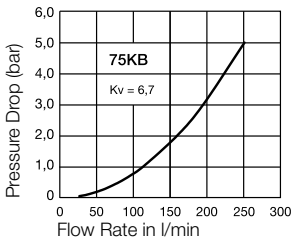
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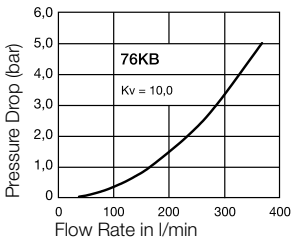
74KB - 1/2"



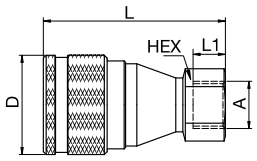
75KB - 3/4"



76KB - 1"



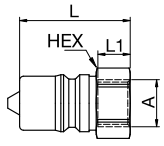
Couplings – with valve — Series 70KB



Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Version	Part Number
1/8	G 1/8	14		48,5	7		25		250	AISI 303	71KBIW10RVX
1/8	G 1/8	14		48,5	7		25		250	AISI 316 L	71KBIW10EVX
1/4	G 1/4	19		57,5	10		29		250	AISI 303	72KBIW13RVX
1/4	G 1/4	19		57,5	10		29		250	AISI 316 L	72KBIW13EVX
3/8	G 3/8	22		64	11,5		35		250	AISI 303	73KBIW17RVX
3/8	G 3/8	22		64	11,5		35		250	AISI 316 L	73KBIW17EVX
1/2	G 1/2	27		76	16		44,5		250	AISI 303	74KBIW21RVX
1/2	G 1/2	27		76	16		44,5		250	AISI 316 L	74KBIW21EVX
3/4	G 3/4	34		96	24		55		160	AISI 303	75KBIW26RVX
3/4	G 3/4	34		96	24		55		160	AISI 316 L	75KBIW26EVX
1	G 1	41		105,5	24		62		100	AISI 303	76KBIW33RVX
1	G 1	41		105,5	24		62		100	AISI 316 L	76KBIW33EVX

Plugs – with valve — Series 70KB



Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Version	Part Number
1/8	G 1/8	14		29,5	7				250	AISI 303	71SBIW10RVX
1/8	G 1/8	14		29,5	7				250	AISI 316 L	71SBIW10EVX
1/4	G 1/4	19		35	10				250	AISI 303	72SBIW13RVX
1/4	G 1/4	19		35	10				250	AISI 316 L	72SBIW13EVX
3/8	G 3/8	22		39	11,5				250	AISI 303	73SBIW17RVX
3/8	G 3/8	22		39	11,5				250	AISI 316 L	73SBIW17EVX
1/2	G 1/2	27		48	16				250	AISI 303	74SBIW21RVX
1/2	G 1/2	27		48	16				250	AISI 316 L	74SBIW21EVX
3/4	G 3/4	36		60	24				160	AISI 303	75SBIW26RVX
3/4	G 3/4	36		60	24				160	AISI 316 L	75SBIW26EVX
1	G 1	41		65	24				100	AISI 303	76SBIW33RVX
1	G 1	41		65	24				100	AISI 316 L	76SBIW33EVX

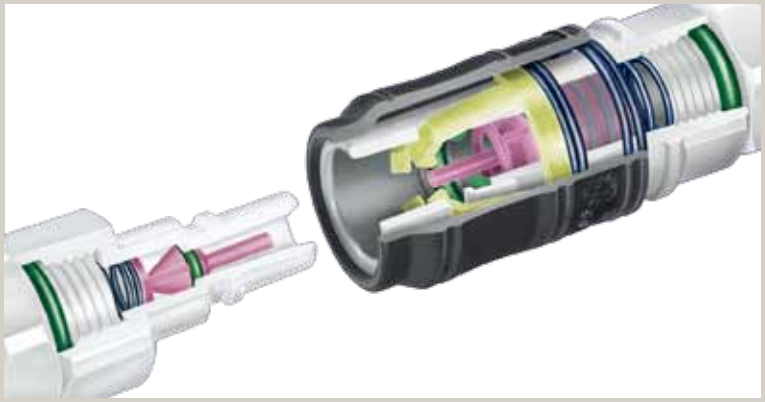
⚠ Please consider our security advices on the pages 12/13 ⚠

RectuChem / RectuPom

Chemical Resistance

RectuChem

This quick connect coupling system made of polyvinyl dluoride (PVDF) has been designed for increased resistance of chemicals. The stable spring made of high quality stainless steel guarantees a secure connection and permament functionality.



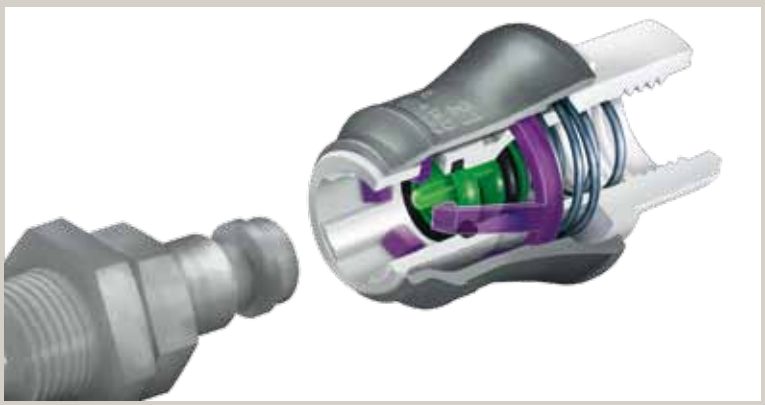
RectuChem+

This quick connect coupling system completely made of solid plastic is extremely resistant to all organic and mineral media. The resistance of the sealing materials, the PVDF base material and the spring fittings made of PEEK offer virtually unlimited application possibilities. The system is excellently suited for media that must not be contaminated by metal radicals.



RectuPom

The tried and tested, quick connect coupling system made of thermoplastic polymer stands out for its unparalleled, high mechanical strength and outstanding resistance to liquids and high temperatures. The plug is automatically locked in position when pushed in. To disconnect, simply pull back the sleeve.



The following details are non-binding guide values to deterimine chemical resistance.
If in doubt, please ask your consultant.

RectuChem (PVDF) chemical resistance

1 = resistant 2 = limited resistance 3 = not resistant

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Acetaldehyde	3					
Acetanhydride	3	3	3			
Acetic acid (100%)	1	1	2	3	3	
Acetic acid (50%)	1	1	1	1	1	
Acetic acid (80%)	1	1	1	1		
Acetone	3	3				
Acetone (50% water)	2	2	3			
Acetone nitrile	1	1	2			
Acetophenone	1	2	3	3		
Acetyl acetone	3			3		
Acetyl chloride	3	3				
Acryl nitrile	1	2				
Adipic acid, diluted	1	1	1			
Allyl chloride	1	1	1	1		
Aluminium chloride	1	1	1	1	1	1
Aluminium chloride (50%)	1	1	1			
Aluminium fluoride	1	1	1	1	1	1
Aluminium fluoride (50%)	1	1	1			
Aluminium hydroxide	1	1	1	1	1	1
Aluminium nitrate	1	1	1	1	1	1
Aluminium nitrate (50%)	1	1	1			
Aluminium potassium sulphate	1	1	1	1	1	1
Aluminium sulphate	1	1	1			
Ammonia (30%)	1	1	1	1		
Ammonia, anhydrous	1	1	1	1	1	1
Ammonium aluminium sulphate	1	1	1	1	1	1
Ammonium carbonate	1	1	1	1	1	1
Ammonium chloride	1	1	1	1	1	1
Ammonium chloride (50%)	1	1	1	1	1	1
Ammonium fluoride	1	1	1	1	1	1
Ammonium fluoride (20%)	1	1	1	1	1	1
Ammonium hydroxide	1	1	1	1	1	1
Ammonium nitrate	1	1	1	1	1	1
Ammonium nitrate (50%)	1	1	1	1	1	1
Ammonium phosphate	1	1	1	1	1	1
Ammonium phosphate (50%)	1	1	1	1	1	1
Ammonium sulphate	1	1	1	1	1	1
Ammonium sulphate (50%)	1	1	1	1	1	1
Ammonium sulphide	1	1	1	1	1	1
Amyl acetate	1	1	2	3	3	
Amyl alcohol	1	1	1	1	1	1
Amyl chloride	1	1	1	1	1	1
Amyl chloride (50%)	1	1	1	1	1	1
Aniline	1	2	2	3		
Antimony trichloride	1					
Aqua regia			3			
Arsenic acid	1	1	1	1	1	1
Barium carbonate	1	1	1	1	1	1
Barium chloride	1	1	1	1	1	1
Barium hydroxide	1	1	1	1	1	1
Barium sulphide	1	1	1	1	1	1
Benzaldehyde	2	2	3			
Benzene	1	2	2			

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Benzene-sulphonic acid	1	3				
Benzoic acid	1	1	1	1	1	1
Benzoic acid methyl ester	1		3			
Benzyl alcohol	1	1	1	1	1	1
Benzyl chloride	1	2	2	3	3	3
Borax	1	1	1	1	1	1
Boric acid	1	1	1	1	1	1
Bromic acid	1	1	1	1	1	
Bromine water	1	1	1	1		
Bromine, dry	1	1	1			
Butadiene	1	1	1	1		
Butene	1	1	1	1	1	1
Butyl acetate	1	2	3	3		
Butyl acrylate	1	2	3	3		
Butyl glycol	1	1	1	1	1	1
Butyl phenol	1	1	1	1		
Butyric acid	1	1	1	1	1	
Calcium carbonate	1	1	1	1	1	1
Calcium chlorate	1	1	1	1	1	1
Calcium chloride	1	1	1	1	1	1
Calcium disulphate	1	1	1	1	1	1
Calcium hydrogen sulphite	1	1	1	1	1	1
Calcium hydroxide	1	1	1	1	1	1
Calcium hypochlorite	1	1	1	1	1	1
Calcium nitate (50%)	1	1	1	1		
Calcium nitrate	1	1	1	1	1	1
Calcium sulphate	1	1	1	1	1	1
Capric acid	1	1	1			
Caprylic acid	1	1	1	2		
Carbon dioxide, wet or dry	1	1	1	1	1	1
Carbon disulphide	1					
Carbon tetrachloride	1	1	1	1	1	1
Caustic soda (10%), Caustic soda (30%)	1	1	1	1		
Caustic soda (50%)	1	1	1	3		
Chlorine (50%)	1	1	1	1		
Chlorine dioxine (15%)	1	1	1			
Chlorine, dry	1	1	1	1		
Chlorine, wet	1	1	1	1		
(Mono-)chloroacetic acid (50%)	1	1	1	1		
(Mono-)chloroacetic acid (100%)	1	1	1	1		
Chlorobenzene	1	1	1	2		
Chlorodifluoromethane	1	1	1	1		
Chloroform	1	1	1	1		
Chlorosulphonic acid	1	1				
Chromic acid (50%)	1	1	2			
Chromyl chloride	1	1				
Citric acid (50%)	1	1	1	1	1	1
Coconut oil	1	1	1	1	1	1
Coke oven gas	1	1	1	1	1	1
Copper chloride	1	1	1	1	1	1
Copper cyanide	1	1	1	1	1	1
Copper fluoride	1	1	1	1	1	1
Copper nitrate	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Copper sulphate	1	1	1	1		
Corn oil	1	1	1	1	1	1
Credonaldehyde	1	1	1	1	1	1
Crude oil	1	1	1	1	1	1
Cyclohexane	1	1	1	1	1	1
Cyclohexanol	1	1	1	2		
Cyclohexanone	1	3	3	3		
Dextrine	1	1	1	1	1	
Diacetone alcohol	1	2	3	3		
Dichlorodiflourmethane	1	1	1	1		
Diesel fuel	1	1	1	1	1	1
Diethyl ether	1	2				
Diethylamine	1	3	3			
Diethylenetriamine	1	1	2	3		
Diglycolic acid	1					
Diisobutyl ketone	1	1	1	1		
Diisopropyl ether	1	1				
Dimethyl amine	3	3	3	3		
Dimethyl aniline	1	2	3	3	3	
Dimethyl formamide			3			
Dimethyl phthalate	1	2	3	3		
1, 4-Dioxane	3	3	3			
Epichlorohydrine	3	3				
Ethyl acetate	1	2	3	3		
Ethyl acrylate	1	2	3	3		
Ethyl alcohol	1	1	1	1	1	1
Ethyl chloride	1	1	1	1	1	1
Ethylene bromide (1, 2-Dibromoethane)	1	1	1	1	1	1
Ethylene chloride (1, 2-Dichlorethane)	1	1	1	1	1	1
Ethylene chlorohydrine	1	2	3	3		
Ethylene diamine	3	3				
Ethylene glycol	1	1	1	1	1	1
Ethylene oxide	1	1				
Fats (triglycerides of long or medium chain fatty acids)	1	1	1	1		
Fatty acids (long chain)	1	1	1	1	1	1
Fatty acids (medium chain)	1	1	1			
Fluoric acid (70%), hydrogen fluoride (100%)	1	1	1	1		
Fluoric acid (hydrogen fluoride) (35%)	1	1	1	1	1	1
Fluorine	1					
Formaldehyde (37%, Formalin, Wz)	1	1				
Formic acid	1	1	1	1	1	1
Fuel oil (EL)	1	1	1	1	1	1
Furane	3	3				
Furfurol	2	3	3	3		
Gallic acid	1	2				
Gear oil ARAL Energol HL 32	1	1				
Gear oil ARAL Montanol GM 220	1	1	1			
Gear oil BP Energol H-PC 220	1	1	1			
Gear oil Shell Tellus oil 32	1	1	1			
Gear oil Shell Tonna oil T 220	1	1	1			
Glucose	1	3				
Glycerin	1	1	1	1	1	1
1, 2-Glycol	1	2	2	3	3	3
Glycolic acid (hydroxyacetic acid)	1	1	1	1	1	1
Heptane	1	1	1	1	1	1
Hexamethyldisilazane (HMDS)	1	1	1	1	1	1
Hexane	1	1	1			
Hydrazine UDMH 50/50	1	1	1	1	1	
Hydrobromic acid	1	1	1	1	1	1
Hydrochloric acid (20%), hydrochloric acid (conc.)	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Hydrochloric acid (gaseous)	1	1	1	1	1	1
Hydrogen	1	1	1	1	1	1
Hydrogen cyanide	1	1	1	1	1	1
Hydrogen peroxide (30%)	1	1	1	1	1	1
Hydrogen peroxide (90%)	1					
Hydrogen phosphide	1	1				
Hydrogen sulphide, wet or dry	1	1	1	1	1	1
Hydroiodic acid (48% + 12%J2)	1	1	1	1	1	1
Hypochlorous acid	1	1	1	1	1	1
Iodine, wet; Iodine, dry	1	1	1	1	1	1
Iodoform	1	1	1	1		
Iron (II) chloride	1	1	1	1	1	1
Iron (II) nitrate, Iron (III) nitrate	1	1	1	1	1	1
Iron (II) sulphate, Iron (III) sulphate	1	1	1	1	1	1
Iron (III) chloride (50%)	1	1	1	1	1	1
Iron (III) sulphate (50%)	1	1	1	1		
Isooctane	1	1	1	1		
Jet fuel IP4 and IP5	1	1	1	1		
Kerosine	1	1	1	1		
Lactic acid	1	2	3	3		
Lauric acid	1	1	1	1	1	1
Lauryl chloride	1	1	1			
Lead acetate	1	1	1	1	1	1
Lead tetraethyl	1	1	1	1	1	1
Linoleic acid	1	1	1	1		
Linseed oil	1	1	1	2		
Magnesium carbonate	1	1	1	1		
Magnesium chloride	1	1	1	1		
Magnesium hydroxide	1	1	1	2		
Magnesium nitrate	1	1	1	1		
Magnesium sulphate	1	1	1			
Maleic acid	1	1	1	1		
Mercuric chloride	1	1	1	1	1	1
Mercuric cyanide	1	1	1	1	1	1
Mercuric nitrate	1	1	1	1	1	1
Mercury	1	1	1	1	1	1
Methane	1	1	1	1		
Methane sulphonic acid (50%)	1	1	1	1		
Methyl alcohol	1	1				
Methyl bromide	1	1	1	1	1	1
Methyl chloride	1	1	2			
Methyl ethyl ketone	3	3	3	3		
Methyl isobutyl ketone	1	2	3	3		
Methylene chloride	2	2				
Milk	1	1	1	1		
Mineral oil	1	1	1	1	1	
Mineral oil	1	1	1	1	1	1
Monoethanolamine	3	3				
Morpholine	2	3	3			
N, N-Dimethyl acetamide			3			
Naphtha	1	1	1	1	1	1
Naphthalene	1	1	1	2		
Natural gas	1	1	1	1	1	1
n-Butanol	1	1	1	1	1	1
n-Butyl amine	3	3				
n-Butyl bromide	1	1	1	1	1	1
n-Butyl chloride	1	1	1	1	1	1
n-Butyl mercaptane	1	1	1	1	1	1
Nickel chloride	1	1	1	1	1	1
Nickel nitrate	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Nickel sulphate	1	1	1	1	1	1
Nicotine	1	2	2			
Nicotinic acid	1	1	1	1	1	1
Nitrating acid	1	1	2			
Nitric acid (15%), Nitric acid (30%)	1	1	1	1		
Nitric acid (65%)	1	1	1			
Nitric acid (fuming)	2	2				
Nitrobenzene	1	2	3			
Nitrogen dioxide	1	1	1	1		
Nitromethane	2	3				
Nitrous acid	1	1	1	1		
N-Methylpyrrolidone			3			
Octane	1	1	1	1	1	1
Octene	1	1	1	1	1	1
o-Dichlorobenzene						
Oil (triglyceride)	1	1	1	1		
Oleic acid	1	1	1	1	1	1
Oleum	3					
Oxalic acid	1	1	2	3		
Oxygen	1	1	1	1	1	1
Ozone	1	1	1	1	1	1
Palmitic acid	1	1	1	1	1	1
Paraldehyde	1	1	1			
Perchlorethylene	1	1	1	1	1	1
Perchloric acid (10%)	1	1	1	1		
Perchloric acid (72%)	1	1				
Petrol (leaded)	1	1	1	1	1	1
Petrol (unleaded)	1	1	1	1	1	1
Phenol (10%)	1	1	1	1		
Phenol (100%)	1	1	1	2		
Phenylhydrazine	1	1				
Phosphoric acid (30%)	1	1	1	1	1	1
Phosphoric acid (85%)	1	1	1	1	1	
Phosphorous pentoxide	1	1	1	1		
Phosphorous trichloride	1	1	1	1		
Phthalic acid	1	1	1	1		
Picric acid	1					
Potassium bromide	1	1	1	1	1	1
Potassium carbonate	1	1	1	1	1	1
Potassium chlorate	1	1	1	1	1	
Potassium chloride	1	2	3	3		
Potassium cyanide	1	2	3	3		
Potassium dichromate	3	3				
Potassium hydroxide	1	2	2	3		
Potassium nitrate	1	1	1	1	1	1
Potassium permanganate	1	1	1	1	1	1
Potassium sulphate	1	1	1	1	1	1
Potassium sulphide	1	1	1	1	1	1
Potassium terrocyanide	3	3				
Propane	1	1	1	1	1	1
Propanol	1	1	2	3		
Propylene carbonate			3			
Propylene oxide	3					
Pyridine	3	3	3			
Pyrogallic acid	1	1				
Salicylic acid	1	1	1	1		
sec-Butanol	1	1	1	1	1	1
sec-Butyl amine	3	3				
Silicon tetrachloride	1					
Silver cyanide	1	1	1	1	1	1

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Silver nitrate	1	1	1	1	1	1
Sodium acetate	1	1	1	1	1	1
Sodium benzoate	1	1	1	1	1	1
Sodium bicarbonate (Sodium hydrogen carbonate)	1	1	1	1	1	1
Sodium bisulphate (Sodium hydrogen sulphate)	1	1	1	1	1	1
Sodium bisulphite (Sodium hydrogen sulphite)	1	1	1	1	1	1
Sodium bromide	1	1	1	1	1	1
Sodium carbonate	1	1	1	1	1	1
Sodium carbonate (40%)	1	1	1			
Sodium chlorate	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	1
Sodium cyanide	1	1	1	1	1	1
Sodium fluoride	1	1	1	1	1	1
Sodium hypochloride	1	1	1	1	1	1
Sodium nitrate	1	1	1	1	1	1
Sodium nitrite	1	1	1	1	1	1
Sodium peroxide	1	1	1	1	1	1
Sodium phosphate	1	1	1	1	1	1
Sodium silicate	1	1	1	1	1	1
Sodium sulphate	1	1	1	1	1	1
Sodium sulphide	1	1	1	1	1	1
Sodium sulphite	1	1	1	1	1	1
Sodium thiosulphate	1	1	1	1	1	1
Stearic acid	1	1	1	1	1	1
Sulphur	1	1	1	1	1	1
Sulphur chloride	1					
Sulphur dichloride	1					
Sulphur dioxide	1	1	1	1		
Sulphur trioxide	3	3				
Sulphuric acid (50%)	1	1	1	1	1	
Sulphuric acid (60%)	1	1	1	1		
Sulphuric acid (80%)	1	1	1	1	1	2
Sulphuric acid (95%)	1	1	2	3		
Sulphuric acid (fuming/monohydrate)	3	3				
Sulphurous acid	1	1	1	1		
Synthesis gas	1	1	1	1	1	1
Tall oil	1	1	1	1	1	1
tert-Butanol	1	1	1	1	1	1
tert-Butyl amine	1	2	2	3		
Tetrachloroethylene	1	1	1	2		
Tetrahydrofurane	2	3				
Tetramethyl ammonium hydroxide (50%)	1	1	1	1		
Thionyl chloride	1	2				
Titanium tetrachloride	1	1				
Toluol	1	1	1	2		
Tributyl phosphate	1	1	1	1		
Trichloroacetic acid	1	2	3	3		
1.1.1-Trichloroethane	1	1	2			
Trichloroethylene	1	1	1	1	1	1
Trichlorofluoromethane	1	1	1	1		
Triethyl amine	1	1	2	3		
Urea (50%)	1	1	1	1	1	1
Vinyl acetate	1	1	1	1	1	1
Water, seawater	1	1	1	1	1	1
Xylol	1	1	1			
y-Butyrol acetone			3			
Zinc chloride (50%)	1	1	1	1	1	1
Zinc nitrate (50%)	1	1	1	1	1	1
Zinc sulphate (50%)	1	1	1	1	1	1

RectuPom chemical resistance

1 = resistant — Weight increase < 3% or weight loss < 0.5% and/or decrease in tensile strength < 15%
2 = limited resistance — Weight increase 3 - 8% or weight loss 0.5 - 3% and/or decrease in tensile strength 15 - 30%
3 = not resistant — Weight increase > 8% or weight loss > 3% and/or decrease in tensile strength > 30%

Chemicals	Temperature	
	20°C	50°C
Acetic acid (10%)*	1	1
Acetic acid (80%)	2	3
Acetone	1	2
Acetylene tetrabromide (10%)*	2	3
Ammonia (10%)	1	1
Ammonia (conc.)	1	1
Ammonium sulphate ®Hoechst (10%, pH 5.8)	1	3
Benzol	2	2
Butanol	1	1
Butyl acetate	1	2
Butyraldehyde	2	2
Butyric acid (1%)*	1	1
Butyric acid (98)	2	2
Calcium ammonium nitrate	1	1
Calcium chloride (10%)	1	1
Calcium nitrate ®Hoechst (pH 6.4) (10%)	1	1
Cananga oil	1	1
Carbon disulphide	1	1
Carbon tetrachloride	1	2
CFC (partially halogenated)	3	3
CFC (perhalogenated)	1	1
Chlorinated lime (approx. 10%)	3	3
Chlorobenzene	2	2
Chloroethyl (DAB 6)	1	2
Chloroform	3	3
Chromic acid (3%)	2	2
®Complesal Type Blue 12+12+17+2 (10%, pH 5,8)	1	1
Citric acid (10%)	1	3
Clophen A 60 (Bayer)	1	1
Coffee (®Nescafe)	1	1
Copper sulphate (10%)	1	1
Developer solution 1:50 (pH 10,9) (®Rodinal Agfa)	1	1
Developer solution 1:100 (pH 10.4) (®Rodinal Agfa)	1	1
Dibutyl phthalate	1	1
Diesel oil	1	1
Dimethyl phthalate	1	2
Dioctyl sebacate	1	1
Dioxane	2	2
Engine oil BP HP 20	1	1
Engine oil SAW 40 (Caltrex)	1	1
Ethanol (96%)	1	1
Ether (DAB 6)	1	1
Ethyl acetate	2	2
Ethyl glycol	1	2
Fixing bath solution (pH 5.4)	1	2
Formaldehyde (40%)	1	1
Formic acid (10%)*	1	3
Fuel oil EL	1	1
Galbanum resin	1	
®Genantin drinking water 1:1	1	
(+1% ®Donax C, Shell)		
Glacial acetic acid	2	3

Chemicals	Temperature	
	20°C	50°C
Glycerin	1	1
Glycol	1	1
Glycol/distilled water 48 : 52	1	1
®Grisiron GBF 1 (5g to 100g H2O)	1	1
Hydrochloric acid (10%)	3	3
Hydrogen peroxide (30%)*	1	3
Hydroxycitronellal	1	1
Ink (®Pelikan ink, blue-black)	1	3
Iron chloride (10%)	2	3
Isopropyl alcohol	1	1
JP 1 fuel (Shell)	1	1
JP 4 fuel (Shell)	1	1
Lactic acid (10%)*	1	2
Lactic acid (90%)*	1	3
Lavender oil, finest	1	1
Lemongrass oil	1	1
Methanol	1	1
Methyl acetate	2	2
Methyl bromide	3	3
Methyl ethyl ketone	2	2
Methyl glycol	2	2
Methyl glycol acetate	2	3
Methylene bromide	3	3
Methylene chloride, technical	3	3
Methylisobutylketone	1	1
Methylisopropylketone	1	1
Mineral oil	1	1
Mobil oil HD SAE 20 after 3000 km	1	1
Mobil oil SAE 20	1	1
Natural gas	1	1
n-Hexane	1	1
Nickel sulphate (10%)	1	1
Nitric acid (10%)	3	3
Nitrogen phosphate ®Hoechst (10%, ph 5.1)	1	1
Nitrous gases	3	3
Normal car petrol	1	1
Oil of cloves	1	
Olive oil	1	2
Ozone	3	3
Peat water (pH 3.7)	1	1
Perchloroethylene	1	2
®Persil 59 (5%, Henkel)	1	1
Petrol (BP 100-140°C)	1	1
Petrol with 15 ... 20% methanol	1	1
Petrol/benzol mixture (super grade petrol)	1	1
Petroleum	1	1
Phenol	3	3
Phosphoric acid (25%)	1	3
Potassiom hydroxide (potash lye, caustic potash)	1	1
Potassium permanganate (10%)*	1	1
Seawater (North Sea)	1	1
Sodium bicarbonate (10%)	1	1

Chemicals	Temperature	
	20°C	50°C
Sodium bisulphite lye (pH 4.5)	3	3
Sodium carbonate (10%)	1	1
Sodium chloride	1	1
Sodium hydroxide (sodium lye, caustic soda)	1	1
Sodium hypochlorite (bleaching sol. about 12.5% active chlorine)	2	3
Sodium nitrate ®Hoechst (10%, pH 0.8)	1	1
Sodium o-phosphate, primary (10%)	1	1
Sodium o-phosphate, sec. (10%)	1	1
Sodium o-phosphate, tert. (10%)	1	1
Soya oil	1	1
Sulphur dioxide gas	3	3
Sulphuric acid (10%)*	1	3
Sulphuric acid (50%)	3	3
Tetrahydrofuran	2	2
®Tetralin (Henkel)	1	2
Thiophene	2	2
Toluol	1	1
Transformer oil (®Univolt 36, Esso)	1	1
Tricholorethylene	2	2
Urine	1	1
Water, distilled	1	1
Xylol	1	1

* Because of the acid or oxidizing nature of these chemicals, practical trials are recommended before prolonged contact with Rectus products.

The results were obtained using injection-moulded, 1 mm thick test samples after a test duration of 60 days. During this, the test samples were under the influence of no external tension.

Resistance table for O-rings

1 = resistant
2 = limited resistance
3 = not resistant

Chemicals	Seals		
	NBR	EPDM	FKM
Acetone	3	1	3
Acetylene gas	1	1	1
Alcohol	2	1	1
Alkalis	1	1	3
Aluminium sulphate	1	1	1
Ammonia, liquid	2	1	2
Ammonium hydroxide	1	1	3
Aniline	3	2	1
Anol	2	3	1
Argon gas	1	1	1
ATE Brake fluid	3	1	3
Beer	1	1	1
Benzol	2	3	1
Borax	1	1	1
Boric acid	1	1	1
Brine lye	3	3	1
Butane gas	1	2	1
Butanone	3	1	3
Butyl benzoate	3	1	1
Camphor	1	3	2
Carbolic acid	3	3	1
Carbon dioxide	1	1	1
Carbonic acid gas	1	1	1
Caustic soda	3	3	1
Chlorine	3	1	2
Chromic acid	3	2	1
Citric acid	2	1	1
Citrus oils	2	1	3
Coal gas	3	3	1
Coconut oil	1	3	1
Coke oven gas	1	3	3
Cooling water	2	1	1
Cresol	3	3	1
Diesel oil	1	3	1
Dioxane	3	2	3
Diphenyl	3	3	1
Dodecanol	2	2	2
Ether	1	2	2
Ethyl alcohol	2	1	1
Ethyl alcohol	2	1	2
Ethylene gas	1	3	1
Fatty acids	2	3	2
Fish oil	1	2	1
Fluorine	3	3	2
Formaldehyde	2	2	1
Formic acid	3	1	1
Freon 11	1	3	2
Freon 12	2	2	2
Fuel oil	1	3	1
Gallic acid	2	2	1
Gasoline	2	3	1
Gear oil	1	3	1
Glucose	1	1	1
Glycerin	1	1	1

Chemicals	Seals		
	NBR	EPDM	FKM
Glycol	1	1	3
Helium gas	1	1	1
Hexane	1	3	1
Hot air up to 120°C	3	1	1
Hot air up to 200°C	3	3	1
Hydraulic oil	3	1	1
Hydrocarbon	1	3	1
Hydrogen	1	3	1
Hydrogen cyanide	2	2	1
Hydrogen sulphide, dry	3	2	1
Hydrosulphide	2	1	1
Iodine, Iodine tincture	2	2	1
Iron chloride	1	1	1
Iron nitrate	1	1	1
Isooctane	1	3	1
Lanolin	1	3	1
Lead acetate	1	2	1
Linseed oil	1	3	1
Lubricating oil	1	2	1
Magnesium sulphate (Epsom salt)	2	1	1
Mains gas	1	3	1
Mercury (Hydrargyrum)	1	1	1
Methane gas	2	3	1
Methanol	1	1	3
Methy alcohol	3	1	3
Milk	1	2	3
Mine gas	1	3	1
Mineral oil	1	3	3
Mineral oil	1	3	1
Naphtalene (stone oil)	3	3	1
Natural gas	1	2	1
Nitric acid up to 35%	3	1	2
Nitrogen	1	1	1
Nitrous oxide (laughing gas)	1	2	1
Oxygen, cold	2	1	1
Pararffin	1	3	1
Petrol	3	3	1
Petroleum	1	3	1
Potash lye	2	1	2
Potassium cyanide	3	1	1
Potassium sulphate	1	1	1
Propane gas	1	3	1
Salt solutions	1	3	3
Seawater	1	1	1
Silicic acid	1	1	1
Sodium sulphide	3	1	1
Steam up to 150°C	3	1	2
Steam up to 250°C	3	FFKM	2
Synthetic resin thinner (no nitrosolvent)	3	3	1
Tar	1	3	3
Trichloroethylene	3	3	2
Urea	1	1	1
Varnish	2	3	1
Vinegar, acetic acid	3	1	3
Water above 80°C	3	1	1
Water up to 80°C	1	1	1
Water, demineralised	3	1	3
Water, distilled	2	1	1
Xylol	3	3	2
Yeast	1	1	1

Nominal Diameter

5 = 20 mm²

Rectus Series

21



Technical Description
Mini industrial coupling in plastics POM and PVDF with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.
Coupling system with single-hand operation. This new type of plastic locking system with handy sleeve considerably expands the applications of this series. Two sleeve forms - tapered and cylindrical, where the tapered sleeve form facilitates handling with gloves. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling.

Working Temperature
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF)
depending on the medium.

Other seal variants are available on request (FKM, EPDM, FFKM).

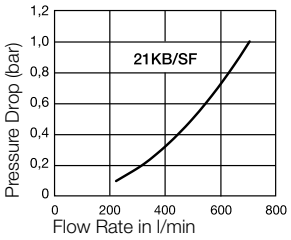
Other designs in series 21
The following other designs can be found from page:

➤ Brass / Steel P. 30
➤ Stainless Steel P. 192
➤ Medical Technology (MD) P. 256
➤ Safety P. 270
➤ Coded Systems P. 298

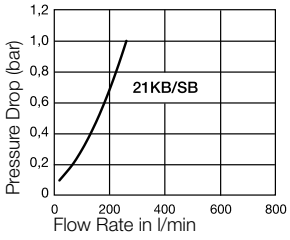
RectuPOM	RectuChem
Working Pressure**	
10 bar (POM, at 20°C) ** maximum static working pressure with safety factor 4 to 1.	8 bar (PVDF, at 20°C)
Material	
Coupling: POM black **Plug:** POM black **Seals:** NBR	**Coupling:** PVDF white **Plug:** PVDF white **Seals:** FKM
Valve types	
single shut-off	single shut-off
double shut-off	double shut-off

Flow diagrams

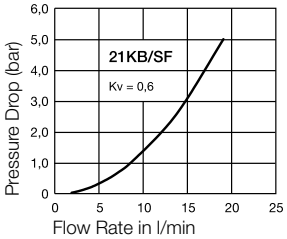
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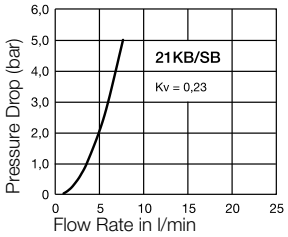
Air



Water

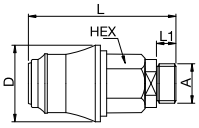
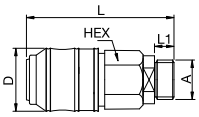
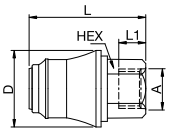
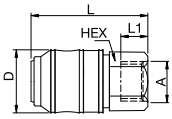
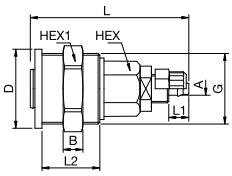


Water



Couplings – with valve

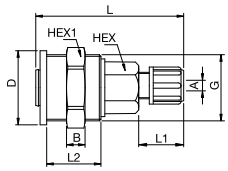
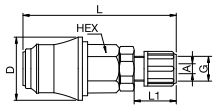
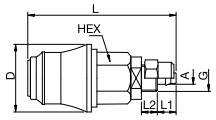
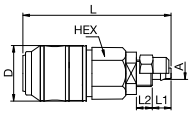
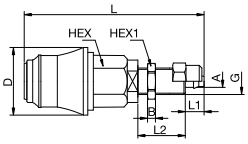
Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Male Thread with tapered sleeve	G 1/8	17		50	7		25,5			Standard	21KBAW10DPX	21KBAW10FVX
	G 1/4	17		50	7		25,5			Standard	21KBAW13DPX	21KBAW13FVX
 Male Thread with cylindrical sleeve	G 1/8	17		50	7		21			Standard	21KBAW10DPXG	21KBAW10FVXG
	G 1/8	17		50	7		21			blue	21KBAW10DPXGB	21KBAW10FVXGB
	G 1/8	17		50	7		21			green	21KBAW10DPXGG	21KBAW10FVXGG
	G 1/8	17		50	7		21			red	21KBAW10DPXGR	21KBAW10FVXGR
	G 1/8	17		50	7		21			yellow	21KBAW10DPXGY	21KBAW10FVXGY
	G 1/4	17		50	7		21			Standard	21KBAW13DPXG	21KBAW13FVXG
	G 1/4	17		50	7		21			blue	21KBAW13DPXGB	21KBAW13FVXGB
	G 1/4	17		50	7		21			green	21KBAW13DPXGG	21KBAW13FVXGG
	G 1/4	17		50	7		21			red	21KBAW13DPXGR	21KBAW13FVXGR
	G 1/4	17		50	7		21			yellow	21KBAW13DPXGY	21KBAW13FVXGY
 Female Thread with tapered sleeve	G 1/8	17		53	8		25,5			Standard	21KBIW10DPX	21KBIW10FVX
	G 1/4	17		39	9		25,5			Standard	21KBIW13DPX	21KBIW13FVX
 Female Thread with cylindrical sleeve	G 1/8	17		53	8		21			Standard	21KBIW10DPXG	21KBIW10FVXG
	G 1/8	17		53	8		21			blue	21KBIW10DPXGB	
	G 1/8	17		53	8		21			green	21KBIW10DPXGG	
	G 1/8	17		53	8		21			red	21KBIW10DPXGR	
	G 1/8	17		53	8		21			yellow	21KBIW10DPXGY	
	G 1/4	17		39	9		21			Standard	21KBIW13DPXG	21KBIW13FVXG
	G 1/4	17		39	9		21			blue	21KBIW13DPXGB	21KBIW13FVXGB
	G 1/4	17		39	9		21			green	21KBIW13DPXGG	21KBIW13FVXGG
	G 1/4	17		39	9		21			red	21KBIW13DPXGR	21KBIW13FVXGR
	G 1/4	17		39	9		21			yellow	21KBIW13DPXGY	21KBIW13FVXGY
 Panel Mount for Plastic Hose Connection for Front Panel Installation	4 x 6 mm	17	27	56	7	20,5	28	7	M 25 x 1	Standard	21KBKE06DPX	21KBKE06FVX
	6 x 8 mm	17	27	56	7	20,5	28	7	M 25 x 1	Standard	21KBKE08DPX	21KBKE08FVX

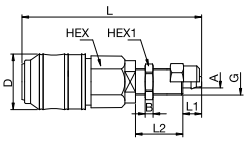
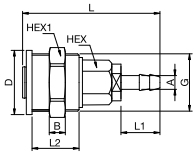
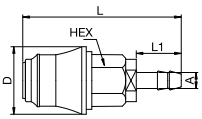
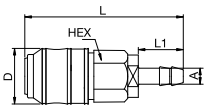
⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve

Series 21KB

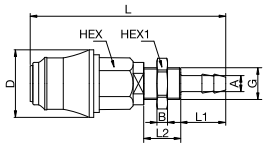
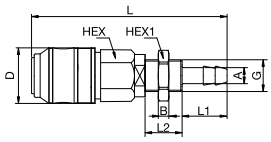
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 for PVDF- and PE-Hoses for Front Panel Installation	4 x 6 mm	17	27	62	7	20,5	28	7	M 25 x 1	Standard		21KBFR06FVX
	6 x 8 mm	17	27	66	7	20,5	28	7	M 25 x 1	Standard		21KBFR08FVX
 for PVDF- and PE-Hoses with tapered sleeve	4 x 6 mm	17		62	17		25,5		M 10 x 1	Standard		21KBKP06FVX
	6 x 8 mm	17		66	17		25,5		M 12 x 1	Standard		21KBKP08FVX
 with Plastic Hose Connection with tapered sleeve	4 x 6 mm	17		56	6	7	25,5		M 10 x 1	Standard	21KBKO06DPX	21KBKO06FVX
	6 x 8 mm	17		56	6	7	25,5		M 12 x 1	Standard	21KBKO08DPX	21KBKO08FVX
 with Plastic Hose Connection with cylindrical sleeve	4 x 6 mm	17		56	6	7	21			Standard	21KBKO06DPXG	21KBKO06FVXG
	4 x 6 mm	17		56	6	7	21			blue	21KBKO06DPXGB	
	4 x 6 mm	17		56	6	7	21			green	21KBKO06DPXGG	
	4 x 6 mm	17		56	6	7	21			red	21KBKO06DPXGR	
	4 x 6 mm	17		56	6	7	21			yellow	21KBKO06DPXGY	
	6 x 8 mm	17		56	6	7	21			Standard	21KBKO08DPXG	21KBKO08FVXG
	6 x 8 mm	17		56	6	7	21			blue	21KBKO08DPXGB	
	6 x 8 mm	17		56	6	7	21			green	21KBKO08DPXGG	
	6 x 8 mm	17		56	6	7	21			red	21KBKO08DPXGR	
	6 x 8 mm	17		56	6	7	21			yellow	21KBKO08DPXGY	
 Panel Mount with Plastic Hose Connection with tapered sleeve	4 x 6 mm	17	14	68	7	18	25,5	4	M 10 x 1	Standard	21KBKS06DPX	21KBKS06FVX
	6 x 8 mm	17	17	68	7	18	25,5	4	M 12 x 1	Standard	21KBKS08DPX	21KBKS08FVX

Couplings – with valve

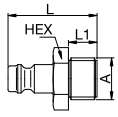
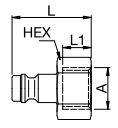
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Panel Mount with Plastic Hose Connection with cylindrical sleeve	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	Standard	21KBKS06DPXG	21KBKS06FVXG
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	blue	21KBKS06DPXGB	21KBKS06FVXGB
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	green	21KBKS06DPXGG	21KBKS06FVXGG
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	red	21KBKS06DPXGR	21KBKS06FVXGR
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	yellow	21KBKS06DPXGY	21KBKS06FVXGY
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	Standard	21KBKS08DPXG	21KBKS08FVXG
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	blue	21KBKS08DPXGB	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	green	21KBKS08DPXGG	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	red	21KBKS08DPXGR	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	yellow	21KBKS08DPXGY	
 Panel Mount for Hose Barb for Front Panel Installation	4 mm	17	27	60	17	20,5	28	7	M 25 x 1	Standard	21KBTE04DPX	21KBTE04FVX
	6 mm	17	27	60	17	20,5	28	7	M 25 x 1	Standard	21KBTE06DPX	21KBTE06FVX
 Hose Barb with tapered sleeve	4 mm	17		60	17		25,5			Standard	21KBTF04DPX	21KBTF04FVX
	6 mm	17		60	17		25,5			Standard	21KBTF06DPX	21KBTF06FVX
 Hose Barb with cylindrical sleeve	4 mm	17		60	17		21			Standard	21KBTF04DPXG	21KBTF04FVXG
	4 mm	17		60	17		21			blue	21KBTF04DPXGB	21KBTF04FVXGB
	4 mm	17		60	17		21			green	21KBTF04DPXGG	21KBTF04FVXGG
	4 mm	17		60	17		21			red	21KBTF04DPXGR	21KBTF04FVXGR
	4 mm	17		60	17		21			yellow	21KBTF04DPXGY	21KBTF04FVXGY
	6 mm	17		60	17		21			Standard	21KBTF06DPXG	21KBTF06FVXG
	6 mm	17		60	17		21			blue	21KBTF06DPXGB	21KBTF06FVXGB
	6 mm	17		60	17		21			green	21KBTF06DPXGG	21KBTF06FVXGG
	6 mm	17		60	17		21			red	21KBTF06DPXGR	21KBTF06FVXGR
	6 mm	17		60	17		21			yellow	21KBTF06DPXGY	21KBTF06FVXGY

⚠ Please consider our security advices on the pages 12/13 ⚠

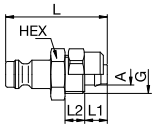
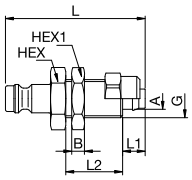
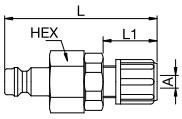
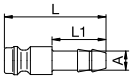
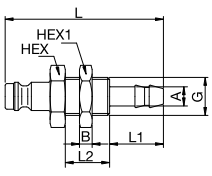
Couplings – with valve — Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Panel Mount with Hose Barb with tapered sleeve	4 mm	17	14	74	17	14	25,5	4	M 10 x 1	Standard	21KBTS04DPX	21KBTS04FVX
	6 mm	17	14	74	17	14	25,5	4	M 10 x 1	Standard	21KBTS06DPX	21KBTS06FVX
 Panel Mount with Hose Barb with cylindrical sleeve	4 mm	17	14	74	17	14	21	4	M 10 x 1	Standard	21KBTS04DPXG	21KBTS04FVXG
	4 mm	17	14	74	17	14	21	4	M 10 x 1	blue	21KBTS04DPXGB	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	green	21KBTS04DPXGG	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	red	21KBTS04DPXGR	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	yellow	21KBTS04DPXGY	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	Standard	21KBTS06DPXG	21KBTS06FVXG
	6 mm	17	17	74	17	14	21	4	M 12 x 1	blue	21KBTS06DPXGB	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	green	21KBTS06DPXGG	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	red	21KBTS06DPXGR	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	yellow	21KBTS06DPXGY	

Plugs – without valve — Series 21SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Male Thread	G 1/8	14		25	7					Standard	21SFAW10DXX	21SFAW10FXX
	G 1/8	14		25	7					blue		21SFAW10FVXB
	G 1/8	14		25	7					green		21SFAW10FVXG
	G 1/8	14		25	7					red		21SFAW10FVXR
	G 1/8	14		25	7					yellow		21SFAW10FVXY
	G 1/4	17		28	9					Standard	21SFAW13DXX	21SFAW10FXX
	G 1/4	17		28	9					blue	21SFAW13DPXB	
	G 1/4	17		28	9					green	21SFAW13DPXG	
	G 1/4	17		28	9					red	21SFAW13DPXR	
	G 1/4	17		28	9					yellow	21SFAW13DPXY	
 Female Thread	G 1/8	14		24	8					Standard	21SFIW10DXX	21SFIW10FXX
	G 1/8	14		24	8					blue		21SFIW10FVXB
	G 1/8	14		24	8					green		21SFIW10FVXG
	G 1/8	14		24	8					red		21SFIW10FVXR
	G 1/8	14		24	8					yellow		21SFIW10FVXY
	G 1/4	17		25	9					Standard	21SFIW13DXX	21SFIW13FXX
	G 1/4	17		25	9					blue		21SFIW13FXXB
	G 1/4	17		25	9					green		21SFIW13FXXG
	G 1/4	17		25	9					red		21SFIW13FXXR
	G 1/4	17		25	9					yellow		21SFIW13FXXY

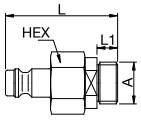
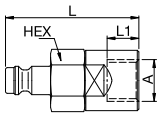
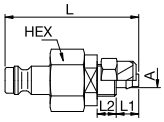
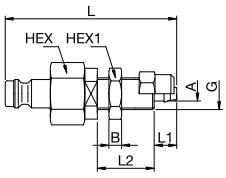
Plugs – without valve

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 with Plastic Hose Connection	4 x 6 mm	14		32	7	6			M 10 x 1	Standard	21SFKO06DXX	21SFKO06FXX
	4 x 6 mm	14		32	7	6			M 10 x 1	blue	21SFKO06DPXB	21SFKO06FVXB
	4 x 6 mm	14		32	7	6			M 10 x 1	green	21SFKO06DPXG	21SFKO06FVXG
	4 x 6 mm	14		32	7	6			M 10 x 1	red	21SFKO06DPXR	21SFKO06FVXR
	4 x 6 mm	14		32	7	6			M 10 x 1	yellow	21SFKO06DPXY	21SFKO06FVXY
	6 x 8 mm	14		32	7	6			M 12 x 1	Standard	21SFKO08DXX	21SFKO08FXX
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	Standard	21SFKS06DXX	21SFKS06FXX
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	blue	21SFKS06DPXB	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	green	21SFKS06DPXG	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	red	21SFKS06DPXR	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	yellow	21SFKS06DPXY	
	6 x 8 mm	14	14	44	7	18		4	M 12 x 1	Standard	21SFKS08DXX	21SFKS08FXX
 for PVDF- and PE-Hoses	4 x 6 mm	17		48	28					Standard		21SFKP06FVX
	4 x 6 mm	17		48	28					blue		21SFKP06FVXB
	4 x 6 mm	17		48	28					green		21SFKP06FVXG
	4 x 6 mm	17		48	28					red		21SFKP06FVXR
	4 x 6 mm	17		48	28					yellow		21SFKP06FVXY
	6 x 8 mm	17		52	28					Standard		21SFKP08FVX
	6 x 8 mm	17		52	28					blue		21SFKP08FVXB
	6 x 8 mm	17		52	28					green		21SFKP08FVXG
	6 x 8 mm	17		52	28					red		21SFKP08FVXR
	6 x 8 mm	17		52	28					yellow		21SFKP08FVXY
 Hose Barb	4 mm			32	17					Standard	21SFTF04DXX	21SFTF04FXX
	4 mm			32	17					blue	21SFTF04DPXB	
	4 mm			32	17					green	21SFTF04DPXG	
	4 mm			32	17					red	21SFTF04DPXR	
	4 mm			32	17					yellow	21SFTF04DPXY	
	6 mm			32	17					Standard	21SFTF06DXX	21SFTF06FXX
	6 mm			32	17					blue	21SFTF06DPXB	21SFTF06FVXB
	6 mm			32	17					green	21SFTF06DPXG	21SFTF06FVXG
	6 mm			32	17					red	21SFTF06DPXR	21SFTF06FVXR
	6 mm			32	17					yellow	21SFTF06DPXY	21SFTF06FVXY
 Panel Mount with Hose Barb	4 mm	14	14	50	17	14		4	M 10 x 1	Standard	21SFTS04DXX	21SFTS04FXX
	4 mm	14	14	50	17	14		4	M 10 x 1	blue		21SFTS04FVXB
	4 mm	14	14	50	17	14		4	M 10 x 1	green		21SFTS04FVXG
	4 mm	14	14	50	17	14		4	M 10 x 1	red		21SFTS04FVXR
	4 mm	14	14	50	17	14		4	M 10 x 1	yellow		21SFTS04FVXY
	6 mm	14	17	50	17	14		4	M 12 x 1	Standard	21SFTS06DXX	21SFTS06FXX

⚠ Please consider our security advices on the pages 12/13 ⚠

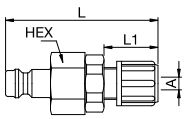
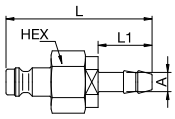
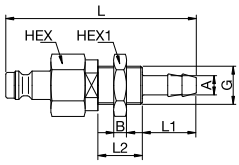
Plugs – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Male Thread	G 1/8	17		36	7					Standard	21SBAW10DPX	21SBAW10FVX
	G 1/8	17		36	7					blue	21SBAW10DPXB	21SBAW10FVXB
	G 1/8	17		36	7					green	21SBAW10DPXG	21SBAW10FVXG
	G 1/8	17		36	7					red	21SBAW10DPXR	21SBAW10FVXR
	G 1/8	17		36	7					yellow	21SBAW10DPXY	21SBAW10FVXY
	G 1/4	17		38	7					Standard	21SBAW13DPX	21SBAW13FVX
	G 1/4	17		38	7					blue	21SBAW13DPXB	21SBAW13FVXB
	G 1/4	17		38	7					green	21SBAW13DPXG	21SBAW13FVXG
	G 1/4	17		38	7					red	21SBAW13DPXR	21SBAW13FVXR
	G 1/4	17		38	7					yellow	21SBAW13DPXY	21SBAW13FVXY
 Female Thread	G 1/8	17		39	8					Standard	21SBIW10DPX	21SBIW10FVX
	G 1/8	17		39	8					blue	21SBIW10DPXB	
	G 1/8	17		39	8					green	21SBIW10DPXG	
	G 1/8	17		39	8					red	21SBIW10DPXR	
	G 1/8	17		39	8					yellow	21SBIW10DPXY	
	G 1/4	17		42	10					Standard	21SBIW13DPX	21SBIW13FVX
	G 1/4	17		42	10					blue	21SBIW13DPXB	
	G 1/4	17		42	10					green	21SBIW13DPXG	
	G 1/4	17		42	10					red	21SBIW13DPXR	
	G 1/4	17		42	10					yellow	21SBIW13DPXY	
 with Plastic Hose Connection	4 x 6 mm	17		42	7	6				Standard	21SBKO06DPX	21SBKO06FVX
	6 x 8 mm	17		42	7	6				Standard	21SBKO08DPX	21SBKO08FVX
	6 x 8 mm	17		42	7	6				blue	21SBKO08DPXB	21SBKO08FVXB
	6 x 8 mm	17		42	7	6				green	21SBKO08DPXG	21SBKO08FVXG
	6 x 8 mm	17		42	7	6				red	21SBKO08DPXR	21SBKO08FVXR
	6 x 8 mm	17		42	7	6				yellow	21SBKO08DPXY	21SBKO08FVXY
 Panel Mount with Plastic Hose Connection	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	Standard	21SBKS06DPX	21SBKS06FVX
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	blue	21SBKS06DPXB	21SBKS06FVXB
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	green	21SBKS06DPXG	21SBKS06FVXG
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	red	21SBKS06DPXR	21SBKS06FVXR
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	yellow	21SBKS06DPXY	21SBKS06FVXY
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	Standard	21SBKS08DPX	21SBKS08FVX
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	blue		21SBKS08FVXB
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	green		21SBKS08FVXG
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	red		21SBKS08FVXR
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	yellow		21SBKS08FVXY

Plugs – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 Panel Mount for PVDF- and PE-Hoses	4 x 6 mm	17		48	28					Standard		21SBKP06FVX
	4 x 6 mm	17		48	28					blue		21SBKP06FVXB
	4 x 6 mm	17		48	28					green		21SBKP06FVXG
	4 x 6 mm	17		48	28					red		21SBKP06FVXR
	4 x 6 mm	17		48	28					yellow		21SBKP06FVXY
	6 x 8 mm	17		52	28					Standard		21SBKP08FVX
 Hose Barb	4 mm	17		46	17					Standard	21SBTF04DPX	21SBTF04FVX
	4 mm	17		46	17					blue	21SBTF04DPXB	
	4 mm	17		46	17					green	21SBTF04DPXG	
	4 mm	17		46	17					red	21SBTF04DPXR	
	6 mm	17		46	17					Standard		21SBTF06FVX
	6 mm	17		46	17					blue	21SBTF06DPXB	21SBTF06FVXB
	6 mm	17		46	17					green	21SBTF06DPXG	21SBTF06FVXG
	6 mm	17		46	17					red	21SBTF06DPXR	21SBTF06FVXR
	6 mm	17		46	17					yellow	21SBTF06DPXY	21SBTF06FVXY
 Panel Mount with Hose Barb	4 mm	17	14	60	7	14		4	M 10 x 1	Standard	21SBTS04DPX	21SBTS04FVX
	4 mm	17	14	60	7	14		4	M 10 x 1	blue	21SBTS04DPXB	21SBTS04FVXB
	4 mm	17	14	60	7	14		4	M 10 x 1	green	21SBTS04DPXG	21SBTS04FVXG
	4 mm	17	14	60	7	14		4	M 10 x 1	red	21SBTS04DPXR	21SBTS04FVXR
	4 mm	17	14	60	7	14		4	M 10 x 1	yellow	21SBTS04DPXY	21SBTS04FVXY
	6 mm	17	17	60	7	14		4	M 12 x 1	Standard	21SBTS06DPX	21SBTS06FVX
	6 mm	17	17	60	7	14		4	M 12 x 1	blue	21SBTS06DPXB	21SBTS06FVXB
	6 mm	17	17	60	7	14		4	M 12 x 1	green	21SBTS06DPXG	21SBTS06FVXG
	6 mm	17	17	60	7	14		4	M 12 x 1	red	21SBTS06DPXR	21SBTS06FVXR
	6 mm	17	17	60	7	14		4	M 12 x 1	yellow	21SBTS06DPXY	21SBTS06FVXY

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7 = 38 mm²

Rectus Series

48



Technische Informationen
Coupling series made of POM and PVDF has been developed for use in the medical, chemical, food handling, pharmaceutical and laboratory technology industries. The system is also available in a solid plastic design (RectuChem+). Here the metal springs are replaced by springs made of PEEK, an extremely resistant synthetic material.
Coupling system with single-hand operation. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling. The coupling is also available with no valve for a straight-through system.

Working Temperature
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF)
depending on the medium.

Other seal variants are available on request (FKM, EPDM, FFKM).

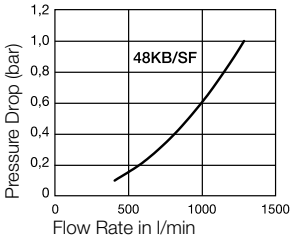
Other designs in series 48
The following other designs can be found from page:

➤ Medical Technology (BT-Serie) P. 268

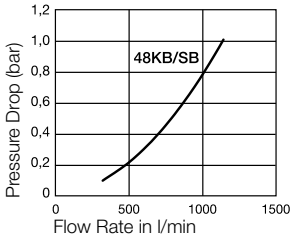
RectuPOM	RectuChem	RectuChem+
Working Pressure**		
0-10 bar (POM, at 20°C) ** maximum static working pressure with safety factor 4 to 1.	0-8 bar (PVDF, with metal springs)	1-8 bar (PVDF, with PEEK-spring)
Material		
Coupling: POM black **Plug:** POM black **Seals:** NBR	**Coupling:** PVDF white **Plug:** PVDF white **Seals:** FKM	**Coupling:** PVDF white, PEEK-spring **Plug:** PVDF white, PEEK-spring **Seals:** FKM
Valve types		
single shut-off	single shut-off	
double shut-off	double shut-off	double shut-off

Flow diagrams

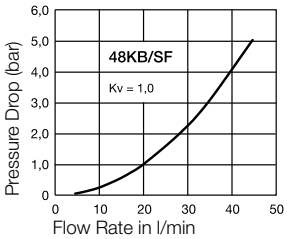
Air



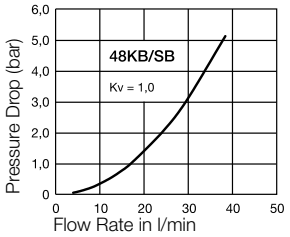
Air



Water

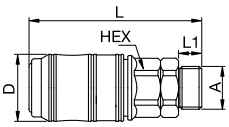
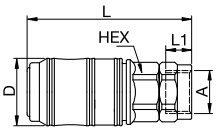
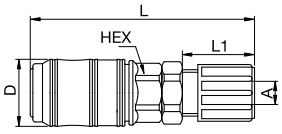


Water



Couplings – with valve

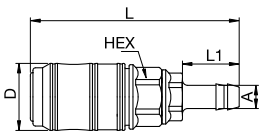
Series 48KB

	Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
 Male Thread	G 1/4	21	70,5	9	26	Standard	48KBAW13DPX	48KBAW13FVX	48KBAW13FVP
	G 1/4	21	70,5	9	26	blue	48KBAW13DPXB	48KBAW13FVXB	
	G 1/4	21	70,5	9	26	green	48KBAW13DPXG	48KBAW13FVXG	
	G 1/4	21	70,5	9	26	red	48KBAW13DPXR	48KBAW13FVXR	
	G 1/4	21	70,5	9	26	yellow	48KBAW13DPXY	48KBAW13FVXY	
	G 3/8	21	67	9	26	Standard	48KBAW17DPX	48KBAW17FVX	48KBAW17FVP
	G 3/8	21	67	9	26	blue	48KBAW17DPXB	48KBAW17FVXB	48KBAW17FVPB
	G 3/8	21	67	9	26	green	48KBAW17DPXG	48KBAW17FVXG	48KBAW17FVPG
	G 3/8	21	67	9	26	red	48KBAW17DPXR	48KBAW17FVXR	48KBAW17FVPR
	G 3/8	21	67	9	26	yellow	48KBAW17DPXY	48KBAW17FVXY	48KBAW17FVPY
	G 1/2	21	73,5	12	26	Standard	48KBAW21DPX	48KBAW21FVX	48KBAW21FVP
	G 1/2	21	73,5	12	26	blue	48KBAW21DPXB	48KBAW21FVXB	
	G 1/2	21	73,5	12	26	green	48KBAW21DPXG	48KBAW21FVXG	
	G 1/2	21	73,5	12	26	red	48KBAW21DPXR	48KBAW21FVXR	
	G 1/2	21	73,5	12	26	yellow	48KBAW21DPXY	48KBAW21FVXY	
 Female Thread	G 1/4	21	63,5	10	26	Standard	48KBIW13DPX	48KBIW13FVX	48KBIW13FVP
	G 1/4	21	63,5	10	26	blue	48KBIW13DPXB	48KBIW13FVXB	48KBIW13FVPB
	G 1/4	21	63,5	10	26	green	48KBIW13DPXG	48KBIW13FVXG	48KBIW13FVPG
	G 1/4	21	63,5	10	26	red	48KBIW13DPXR	48KBIW13FVXR	48KBIW13FVPR
	G 1/4	21	63,5	10	26	yellow	48KBIW13DPXY	48KBIW13FVXY	48KBIW13FVPY
	G 3/8	21	63,5	13	26	Standard	48KBIW17DPX	48KBIW17FVX	48KBIW17FVP
	G 3/8	21	63,5	13	26	blue	48KBIW17DPXB	48KBIW17FVXB	
	G 3/8	21	63,5	13	26	green	48KBIW17DPXG	48KBIW17FVXG	
	G 3/8	21	63,5	13	26	red	48KBIW17DPXR	48KBIW17FVXR	
	G 3/8	21	63,5	13	26	yellow	48KBIW17DPXY	48KBIW17FVXY	
	G 1/2	21	74,5	13	26	Standard	48KBIW21DPX	48KBIW21FVX	48KBIW21FVP
	G 1/2	21	74,5	13	26	blue	48KBIW21DPXB	48KBIW21FVXB	
	G 1/2	21	74,5	13	26	green	48KBIW21DPXG	48KBIW21FVXG	
	G 1/2	21	74,5	13	26	red	48KBIW21DPXR	48KBIW21FVXR	
	G 1/2	21	74,5	13	26	yellow	48KBIW21DPXY	48KBIW21FVXY	
 for PVDF- and PE-Hoses	6 x 8 mm	21	80	21	26	Standard		48KBKP08FVX	48KBKP08FVP
	9 x 12 mm	21	87	28	26	Standard		48KBKP12FVX	48KBKP12FVP
	10 x 12 mm	21	87	28	26	Standard		48KBKP12FVXS	48KBKP12FVPS

⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve

Series 48KB

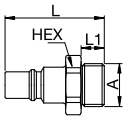
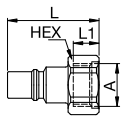
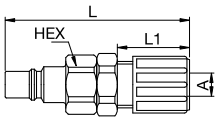
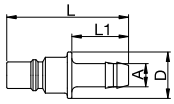


Hose Barb

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	81	22	26	Standard	48KBTF06DPX	48KBTF06FVX	48KBTF06FVP
6 mm	21	81	22	26	blue	48KBTF06DPXB	48KBTF06FVXB	48KBTF06FVPB
6 mm	21	81	22	26	green	48KBTF06DPXG	48KBTF06FVXG	48KBTF06FVPG
6 mm	21	81	22	26	red	48KBTF06DPXR	48KBTF06FVXR	48KBTF06FVPR
6 mm	21	81	22	26	yellow	48KBTF06DPXY	48KBTF06FVXY	48KBTF06FVPY
9 mm	21	81	22	26	Standard	48KBTF09DPX	48KBTF09FVX	48KBTF09FVP
9 mm	21	81	22	26	blue	48KBTF09DPXB	48KBTF09FVXB	48KBTF09FVPB
9 mm	21	81	22	26	green	48KBTF09DPXG	48KBTF09FVXG	48KBTF09FVPG
9 mm	21	81	22	26	red	48KBTF09DPXR	48KBTF09FVXR	48KBTF09FVPR
9 mm	21	81	22	26	yellow	48KBTF09DPXY	48KBTF09FVXY	48KBTF09FVPY
13 mm	21	84	25	26	Standard	48KBTF13DPX	48KBTF13FVX	48KBTF13FVP
13 mm	21	84	25	26	blue	48KBTF13DPXB	48KBTF13FVXB	
13 mm	21	84	25	26	green	48KBTF13DPXG	48KBTF13FVXG	
13 mm	21	84	25	26	red	48KBTF13DPXR	48KBTF13FVXR	
13 mm	21	84	25	26	yellow	48KBTF13DPXY	48KBTF13FVXY	

Plugs – without valve

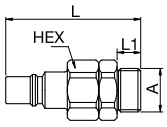
Series 48SF

	Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
 Male Thread	G 1/4	17	38,5	9		Standard	48SFAW13DXX	48SFAW13FXX	
	G 3/8	21	38,5	9		Standard	48SFAW17DXX	48SFAW17FXX	
	G 3/8	21	38,5	9		blue		48SFAW17FVXB	
	G 3/8	21	38,5	9		green		48SFAW17FVXG	
	G 3/8	21	38,5	9		red		48SFAW17FVXR	
	G 3/8	21	38,5	9		yellow		48SFAW17FVXY	
	G 1/2	21	41,5	12		Standard	48SFAW21DXX	48SFAW21FXX	
 Female Thread	G 1/4	17	35,5	9		Standard	48SFIW13DXX	48SFIW13FXX	
	G 1/4	17	35,5	9		blue	48SFIW13DPXB		
	G 1/4	17	35,5	9		green	48SFIW13DPXG		
	G 1/4	17	35,5	9		red	48SFIW13DPXR		
	G 1/4	17	35,5	9		yellow	48SFIW13DPXY		
	G 3/8	21	35,5	10		Standard	48SFIW17DXX	48SFIW17FXX	
	G 3/8	21	35,5	10		blue	48SFIW17DXXB	48SFIW17FXXB	
	G 3/8	21	35,5	10		green	48SFIW17DXXG	48SFIW17FXXG	
	G 3/8	21	35,5	10		red	48SFIW17DXXR	48SFIW17FXXR	
	G 3/8	21	35,5	10		yellow	48SFIW17DXXY	48SFIW17FXXY	
	G 1/2	24	59	13		Standard	48SFIW21DXX	48SFIW21FXX	
 for PVDF- and PE-Hoses	6 x 8 mm	21	64,5	21		Standard		48SFKP08FVX	
	9 x 12 mm	21	71,5	28		Standard		48SFKP12FVX	
	10 x 12 mm	21	71,5	28		Standard		48SFKP12FVXS	
 Hose Barb	6 mm		47	22	18	Standard	48SFTF06DXX	48SFTF06FXX	
	6 mm		47	22	18	blue		48SFTF06FVXB	
	6 mm		47	22	18	green		48SFTF06FVXG	
	6 mm		47	22	18	red		48SFTF06FVXR	
	6 mm		47	22	18	yellow		48SFTF06FVXY	
	9 mm		47	22	18	Standard	48SFTF09DXX	48SFTF09FXX	
	9 mm		47	22	18	blue	48SFTF09DPXB	48SFTF09FVXB	
	9 mm		47	22	18	green	48SFTF09DPXG	48SFTF09FVXG	
	9 mm		47	22	18	red	48SFTF09DPXR	48SFTF09FVXR	
	9 mm		47	22	18	yellow	48SFTF09DPXY	48SFTF09FVXY	
	13 mm		50	25	18	Standard	48SFTF13DXX	48SFTF13FXX	

⚠ Please consider our security advices on the pages 12/13 ⚠

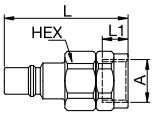
Plugs – with valve

Series 48SB



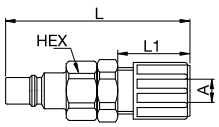
Male Thread

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
G 1/4	21	55	9		Standard	48SBAW13DPX	48SBAW13FVX	48SBAW13FVP
G 1/4	21	55	9		blue	48SBAW13DPXB	48SBAW13FVXB	48SBAW13FVPB
G 1/4	21	55	9		green	48SBAW13DPXG	48SBAW13FVXG	48SBAW13FVPG
G 1/4	21	55	9		red	48SBAW13DPXR	48SBAW13FVXR	48SBAW13FVPR
G 1/4	21	55	9		yellow	48SBAW13DPXY	48SBAW13FVXY	48SBAW13FVPY
G 3/8	21	51,5	9		Standard	48SBAW17DPX	48SBAW17FVX	48SBAW17FVP
G 3/8	21	51,5	9		blue	48SBAW17DPXB	48SBAW17FVXB	48SBAW17FVPB
G 3/8	21	51,5	9		green	48SBAW17DPXG	48SBAW17FVXG	48SBAW17FVPG
G 3/8	21	51,5	9		red	48SBAW17DPXR	48SBAW17FVXR	48SBAW17FVPR
G 3/8	21	51,5	9		yellow	48SBAW17DPXY	48SBAW17FVXY	48SBAW17FVPY
G 1/2	21	58	12		Standard	48SBAW21DPX	48SBAW21FVX	48SBAW21FVP
G 1/2	21	58	12		blue	48SBAW21DPXB	48SBAW21FVXB	
G 1/2	21	58	12		green	48SBAW21DPXG	48SBAW21FVXG	
G 1/2	21	58	12		red	48SBAW21DPXR	48SBAW21FVXR	
G 1/2	21	58	12		yellow	48SBAW21DPXY	48SBAW21FVXY	



Female Thread

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
G 1/4	21	48	10		Standard	48SBIW13DPX	48SBIW13FVX	48SBIW13FVP
G 1/4	21	48	10		blue	48SBIW13DPXB		
G 1/4	21	48	10		green	48SBIW13DPXG		
G 1/4	21	48	10		red	48SBIW13DPXR		
G 1/4	21	48	10		yellow	48SBIW13DPXY		
G 3/8	21	48	10		Standard	48SBIW17DPX	48SBIW17FVX	48SBIW17FVP
G 3/8	21	48	10		blue	48SBIW17DPXB	48SBIW17FVXB	
G 3/8	21	48	10		green	48SBIW17DPXG	48SBIW17FVXG	
G 3/8	21	48	10		red	48SBIW17DPXR	48SBIW17FVXR	
G 3/8	21	48	10		yellow	48SBIW17DPXY	48SBIW17FVXY	
G 1/2	21	59	13		Standard	48SBIW21DPX	48SBIW21FVX	48SBIW21FVP
G 1/2	21	59	13		blue	48SBIW21DPXB	48SBIW21FVXB	
G 1/2	21	59	13		green	48SBIW21DPXG	48SBIW21FVXG	
G 1/2	21	59	13		red	48SBIW21DPXR	48SBIW21FVXR	
G 1/2	21	59	13		yellow	48SBIW21DPXY	48SBIW21FVXY	

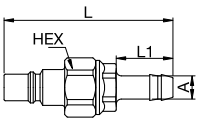


for PVDF- and PE-Hoses

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 x 8 mm	21	64,5	21		Standard		48SBKP08FVX	48SBKP08FVP
9 x 12 mm	21	71,5	28		Standard		48SBKP12FVX	48SBKP12FVP
10 x 12 mm	21	71,5	28		Standard		48SBKP12FVXS	48SBKP12FVPS

Plugs – with valve

Series 48SB



Hose Barb

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	65,5	22		Standard	48SBTF06DPX	48SBTF06FVX	48SBTF06FVP
6 mm	21	65,5	22		blue		48SBF06FVXB	
6 mm	21	65,5	22		green		48SBTF06FVXG	
6 mm	21	65,5	22		red		48SBTF06FVXR	
6 mm	21	65,5	22		yellow		48SBTF06FVXY	
9 mm	21	65,5	22		Standard	48SBTF09DPX	48SBTF09FVX	48SBTF09FVP
9 mm	21	65,5	22		blue	48SBTF09DPXB	48SBTF09FVXB	
9 mm	21	65,5	22		green	48SBTF09DPXG	48SBTF09FVXG	
9 mm	21	65,5	22		red	48SBTF09DPXR	48SBTF09FVXR	
9 mm	21	65,5	22		yellow	48SBTF09DPXY	48SBTF09FVXY	
13 mm	21	68,5	25		Standard	48SBTF13DPX	48SBTF13FVX	48SBTF13FVP
13 mm	21	68,5	25		blue	48SBTF13DPXB	48SBTF13FVXB	
13 mm	21	68,5	25		green	48SBTF13DPXG	48SBTF13FVXG	
13 mm	21	68,5	25		red	48SBTF13DPXR	48SBTF13FVXR	
13 mm	21	68,5	25		yellow	48SBTF13DPXY	48SBTF13FVXY	

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

4,3 - 30

Rectus Series

70



Other designs in series 70
The following other designs can be found from page:

➤ Brass / Steel P. 174
➤ Stainless Steel P. 224

Technical Description
Coupling range in sizes from 1/8" to 1 1/2" with plug profile in accordance with ISO 7241-1 series B. Particularly suitable for use with liquid media.
Coupling system with two-hand operation, i.e. the locking sleeve must be pushed back manually when coupling. The coupling range stands out for its high flow rates against a low pressure drop. 1 1/2" design (series 77) with locking pin and EPDM seal.

Working Temperature*
-20°C up to +90°C (NBR)
-40°C up to +90°C (EPDM)
depending on the medium.

* For temperatures below -20°C and over +90°C and depending on the medium, other seal variants (FKM, FFKM) are available.

KB Double Shut-Off

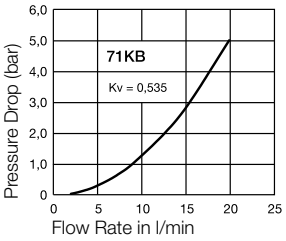
Working Pressure**
see chart
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: POM white
Plug: POM white
Seals: NBR

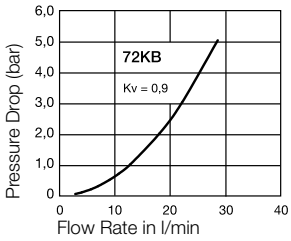
Interchangeability
• ISO 7241-1 Series B

Flow diagrams Water

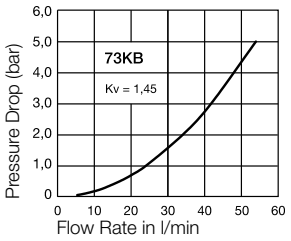
71KB - 1/8"



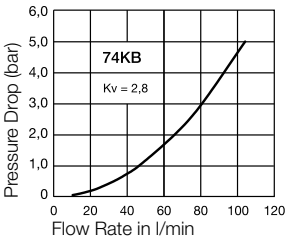
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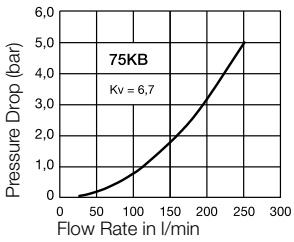
73KB - 3/8"



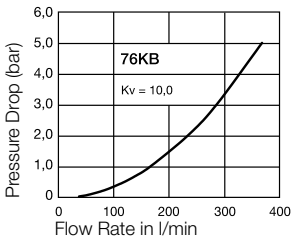
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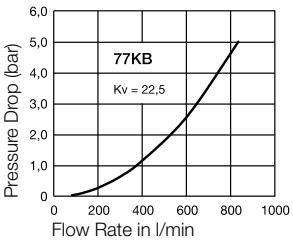
75KB - 3/4"



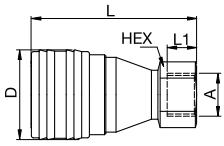
76KB - 1"



77KB - 1 1/2"



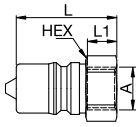
Couplings – with valve — Series 70KB



Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		48,5	7		24,5		15	71KBIW10DPX
1/4"	G 1/4	19		57,5	10		28,5		15	72KBIW13DPX
3/8"	G 3/8	22		64	11,5		35		15	73KBIW17DPX
1/2"	G 1/2	27		76	16		44,5		10	74KBIW21DPX
3/4"	G 3/4	34		96	24		55		10	75KBIW26DPX
1"	G 1	41		105,5	24		62		10	76KBIW33DPX
1 1/2"	G 1 1/2	60		133	23		76		10	77KBIW48DEXS

Plugs – with valve — Series 70KB



Female Thread

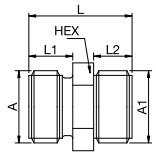
Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		29,5	7				15	71SBIW10DPX
1/4"	G 1/4	19		35	10				15	72SBIW13DPX
3/8"	G 3/8	22		39	11,5				15	73SBIW17DPX
1/2"	G 1/2	27		48	16				10	74SBIW21DPX
3/4"	G 3/4	36		60	24				10	75SBIW26DPX
1"	G 1	41		56	24				10	76SBIW33DPX
1 1/2"	G 1 1/2	60		132	23				10	77SBIW48DEX

⚠ Please consider our security advices on the pages 12/13 ⚠

Accessories

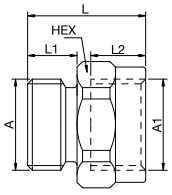
Plastic fittings

Male x Male Nipple



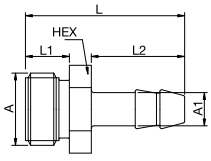
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	G 1/8	14		19	8	7				DN13/10DX	DN13/10FX
G 1/4	G 1/4	14		19	8	7				DN13/13DX	DN13/13FX
G 3/8	G 1/4	17		28,5	9	9				DN17/13DX	DN17/13FX
G 3/8	G 3/8	21		25	9	9				DN17/17DX	DN17/17FX
G 3/8	G 1/2	21		31,5	9	12				DN17/21DX	DN17/21FX

Reducing Bush



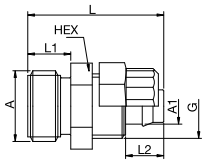
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	G 1/8	14		22	8	8				RL13/10DX	RL13/10FX
G 1/4	G 1/4	17		25	8	10				RL13/13DX	RL13/13FX
G 3/8	G 1/4	17		21,5	9	10				RL17/13DX	RL17/13FX
G 3/8	G 3/8	21		21,5	9	10				RL17/17DX	RL17/17FX
G 3/8	G 1/2	17		32,5	9	13				RL17/21DX	RL17/21FX

Hose Tail Barb



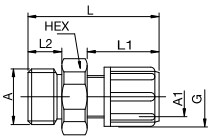
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 mm	14		29	8	17				GT13/04DX	GT13/04FX
G 1/4	6 mm	14		29	8	17				GT13/06DX	GT13/06FX
G 3/8	6 mm	17		39	9	22				GT17/06DX	GT17/06FX
G 3/8	9 mm	17		39	9	22				GT17/09DX	GT17/09FX
G 3/8	10 mm	17		39	9	22				GT17/10DX	
G 3/8	13 mm	17		42	9	25				GT17/13DX	GT17/13FX

Plastic Screw Connector



Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	14		25	8	13			M 10 x 1	EV13/06DX	EV13/06FX
G 1/4	6 x 8 mm	14		25	8	13			M 12 x 1	EV13/08DX	EV13/08FX

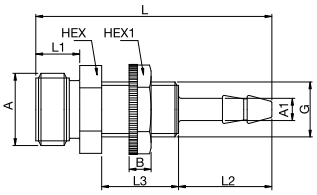
Fitting for hard plastic hoses



for hard plastic hoses in PVDF or PE

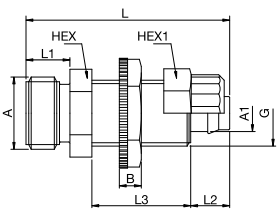
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	17		31	17	8			M 10 x 1		EV13/06FX04
G 1/4	6 x 8 mm	17		35	21	8			M 12 x 1		EV13/08FX06
G 3/8	6 x 8 mm	22		38	21	9			M 12 x 1		EV17/08FX06
G 3/8	9 x 12 mm	22		45	28	9			M 12 x 1		EV17/12FX09
G 3/8	10 x 12 mm	22		45	28	9			M 12 x 1		EV17/12FX10

Panel Mount, Standard Hose Connection



Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 mm	14	14	43	7	8	14	4	M 10 x 1	ET13/04DX	ET13/04FX
G 1/4	6 mm	14	17	43	8	8	14	4	M 12 x 1	ET13/06DX	ET13/06FX

Panel Mount, Plastic Hose Connection



Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	14	14	37	7	8	18	4	M 10 x 1	EK13/06DX	EK13/06FX
G 1/4	6 x 8 mm	14	17	37	8	8	18	4	M 12 x 1	EK13/08DX	EK13/08FX

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

2,7 = 6 mm²

Rectus Series

NP



Technical Description
Mini medical coupling. Notable for low weight, small package size and numerous application options with various media. Frequently used for non-invasive blood pressure measurement devices, medical device technology and chemistry/pharmacy. The main components are molded in a clean room from virgin transparent USP Class VI acetal (POM). Coupling system with single-hand operation. Audible click to indicate a secure connection. Ergonomic sleeve for easy operation with gloves.

Working Temperature
-20°C up to +80°C

Other designs in series 20
The following other designs can be found from page:

➤ Brass / Steel P. 20
➤ Stainless Steel P. 180

KF Straight-Through

Working Pressure**

0-4,5 bar
** maximum static working pressure with safety factor 4 to 1.

Material

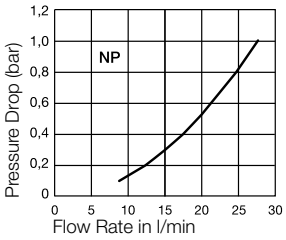
Coupling: Acetal (POM), natural color, USP Class VI
Plug: Acetal (POM), natural color, USP Class VI
Seals: EPDM USP Class VI

Interchangeability

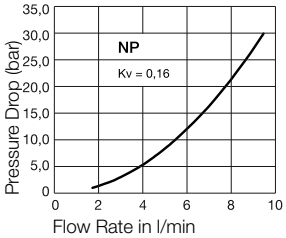
- Rectus 20

Flow diagrams

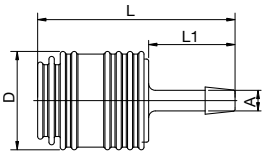
Air



Water



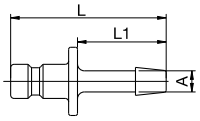
Couplings – without valve — Series NP



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
3 mm			29,7	13			14,8					NP-M33-M3HB
4 mm			29,7	13			14,8					NP-M33-M4HB
5 mm			29,7	13			14,8					NP-M33-M5HB

Plugs – without valve — Series NP



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
3 mm			22,8	13								NP-M34-M3HB
4 mm			22,8	13								NP-M34-M4HB
5 mm			22,8	13								NP-M34-M5HB

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

3 = 7 mm²

Rectus Series

PPM



Technical Description
Plastic coupling in nominal diameter 3 mm. The system is particularly suited to use with weak alkalis and acids. The coupling stands out for its light weight and intuitive operation. Secure sealing is indicated by an audible click.

Working Temperature
-40°C up to +82°C

KF Straight-Through

Working Pressure**

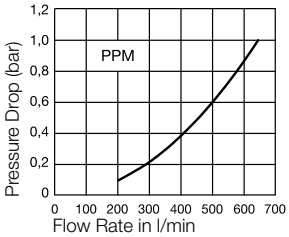
0-8 bar
** maximum static working pressure with safety factor 4 to 1.

Material

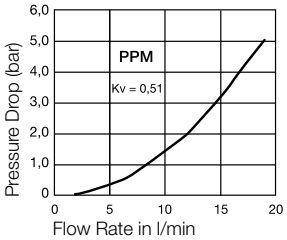
Coupling: Acetal (POM), natural color, USP Class VI
Plug: Acetal (POM), natural color, USP Class VI
Seals: FDA Buna-N

Flow diagrams

Air



Water

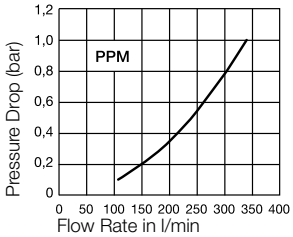


KA Single Shut-Off

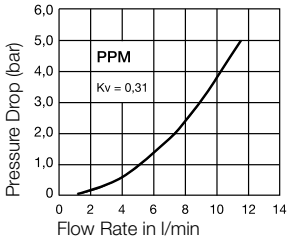
0-8 bar

Coupling: Acetal (POM), natural color, USP Class VI
Plug: Acetal (POM), natural color, USP Class VI
Seals: FDA Buna-N

Air



Water

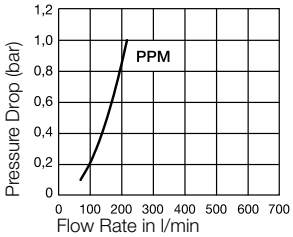


KB Double Shut-Off

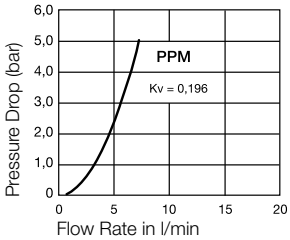
0-8 bar

Coupling: Acetal (POM), natural color, USP Class VI
Plug: Acetal (POM), natural color, USP Class VI
Seals: FDA Buna-N

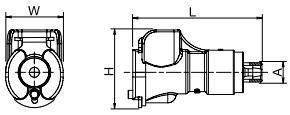
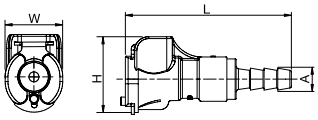
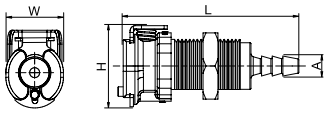
Air



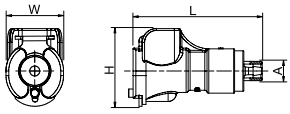
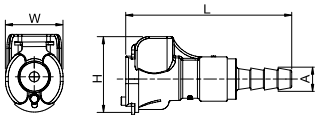
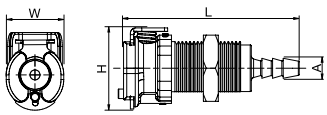
Water



Couplings – without valve — Series PPM

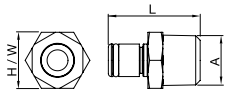
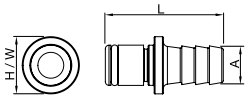
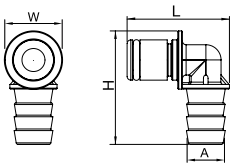
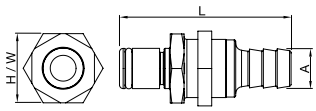
	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/8" BSPT		15,7	25,4				20,3					PPM-123-2MBT
	1/4" BSPT		15,7	27,9				20,3					PPM-123-4MBT
 Hose Barb	3,2 mm		15,7	41,9				20,3					PPM-123-2HB
	4,8 mm		15,7	43,7				20,3					PPM-123-3HB
	6,0 mm		15,7	45,7				20,3					PPM-123-4HB
 Panel Mount with Hose Barb	6,0 mm		15,7	45,7				20,3					PPM-123-H4HB

Couplings – with valve — Series PPM

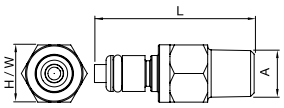
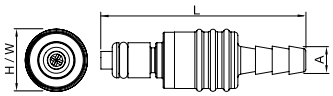
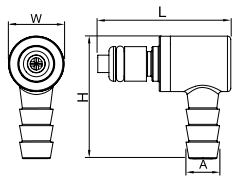
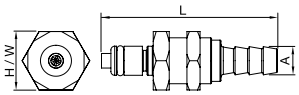
	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/8" BSPT		15,7	25,4				20,3					PPM-121-2MBT
	1/4" BSPT		15,7	27,9				20,3					PPM-121-4MBT
 Hose Barb	3,2 mm		15,7	41,9				20,3					PPM-121-2HB
	4,8 mm		15,7	43,7				20,3					PPM-121-3HB
	6,0 mm		15,7	45,7				20,3					PPM-121-4HB
 Panel Mount with Hose Barb	1,6 mm		15,7	38,1				20,3					PPM-121-H1HB
	3,2 mm		15,7	41,9				20,3					PPM-121-H2HB
	4,8 mm		15,7	43,7				20,3					PPM-121-H3HB
	6,0 mm		15,7	45,7				20,3					PPM-121-H4HB

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/8" BSPT		12,4	26,2				12,4					PPM-124-2MBT
	1/4" BSPT		14,2	28,7				14,2					PPM-124-4MBT
 Hose Barb	3,2 mm		12,7	24,6				12,7					PPM-124-2HB
	4,8 mm		12,7	26,4				12,7					PPM-124-3HB
	6,0 mm		12,7	28,4				12,7					PPM-124-4HB
 Hose Barb 90°	3,2 mm		12,7	30,2				24,1					PPM-124-C2HB
	6,0 mm		12,7	30,2				27,9					PPM-124-C4HB
 Panel Mount with Hose Barb	1,6 mm		15,7	37,3				15,7					PPM-124-H1HB
	3,2 mm		15,7	41,1				15,7					PPM-124-H2HB
	4,8 mm		15,7	42,9				15,7					PPM-124-H3HB
	6,0 mm		15,7	44,7				15,7					PPM-124-H4HB

Plugs – with valve

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/8" BSPT		12,7	34,5				12,7					PPM-122-2MBT
	1/4" BSPT		14,2	35,3				14,2					PPM-122-4MBT
 Hose Barb	3,2 mm		14,0	41,9				14,0					PPM-122-2HB
	4,8 mm		14,0	43,7				14,0					PPM-122-3HB
	6,0 mm		14,0	45,7				14,0					PPM-122-4HB
 Hose Barb 90°	3,2 mm		12,7	30,2				24,1					PPM-122-C2HB
	6,0 mm		12,7	30,2				27,9					PPM-122-C4HB
 Panel Mount with Hose Barb	3,2 mm		15,7	43,9				15,7					PPM-122-H2HB
	6,0 mm		15,7	47,5				15,7					PPM-122-H4HB

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

MD



Technical Description
Coupling for the medical field in POM of USP class VI with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.
Coupling system with single-hand operation. The new type of plastic locking system with handy sleeve considerably expands the applications. The color and mechanical coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling. The coupling is also available straight-through (with no valve).

Working Temperature
-20°C up to +80°C

Other designs in series 21
The following other designs can be found from page:

- ➤ Brass / Steel P. 30
- ➤ Stainless Steel P. 192
- ➤ Thermoplastic P. 232
- ➤ Safety P. 270
- ➤ Coded Systems P. 298

KA Single Shut-Off

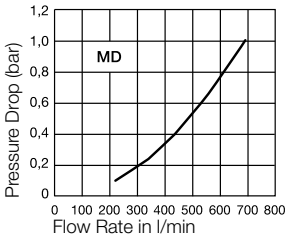
Working Pressure**
0-10 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: POM, USP Class VI, white
Plug: POM, USP Class VI, white
Seals: EPDM USP Class VI

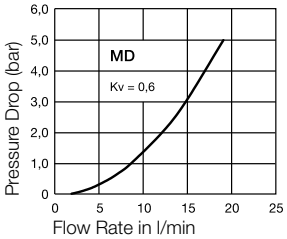
Interchangeability
• Rectus 21

Flow diagrams

Air



Water

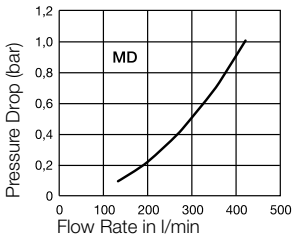


KB Double Shut-Off

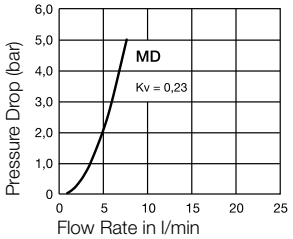
0-10 bar

Material
Coupling: POM, USP Class VI, white
Plug: POM, USP Class VI, white
Seals: EPDM USP Class VI

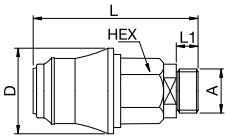
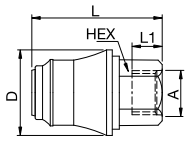
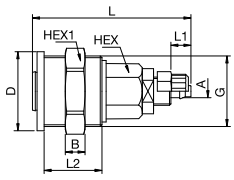
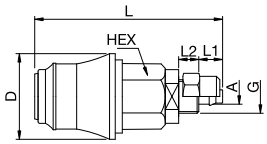
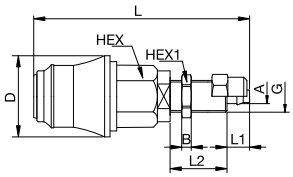
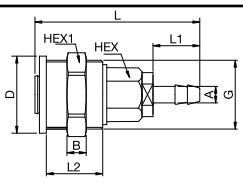
Air



Water

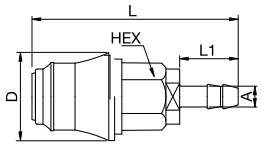
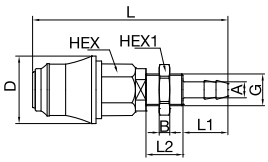


Couplings – with valve

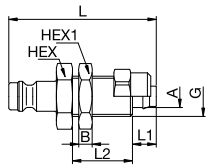
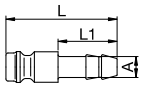
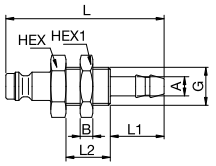
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	G 1/8	17		50	7			25,5					MD-M51-2MB
	G 1/4	17		50	7			25,5					MD-M51-4MB
 Female Thread	G 1/8	17		50	8			25,5					MD-M51-2FB
	G 1/4	17		50	9			25,5					MD-M51-4FB
 Plastic Hose Connection, Flush Mount	4 x 6 mm	17	27	56	7	20,5		28	7	M 25 x 1			MD-M51-QM6CSP
	6 x 8 mm	17	27	56	7	20,5		28	7	M 25 x 1			MD-M51-QM8CSP
 with Plastic Hose Connection	4 x 6 mm	17		56	7	6		25,5		M 10 x 1			MD-M51-M6CSP
	6 x 8 mm	17		56	7	6		25,5		M 12 x 1			MD-M51-M8CSP
 Panel Mount with Plastic Hose Connection	4 x 6 mm	17	14	68	7	18		25,5	4	M 10 x 1			MD-M51-HM6CSP
	6 x 8 mm	17	17	68	7	18		25,5	4	M 12 x 1			MD-M51-HM8CSP
 Hose Barb, Flush Mount	4 mm	17	27	60	17	20,5		28	7	M 25 x 1			MD-M51-QM4HB
	6 mm	17	27	60	17	20,5		28	7	M 25 x 1			MD-M51-QM6HB

⚠ Please consider our security advices on the pages 12/13 ⚠

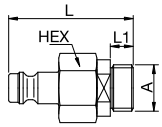
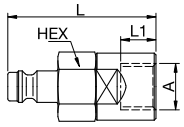
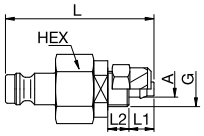
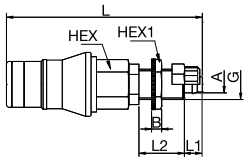
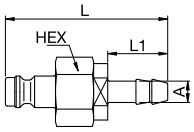
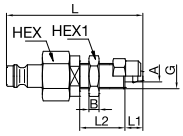
Couplings – with valve — Series MD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Hose Barb	4 mm	17		60	17			25,5					MD-M51-M4HB
	6 mm	17		60	17			25,5					MD-M51-M6HB
 Panel Mount with Hose Barb	4 mm	17	14	74	17	14		25,5	4	M 10 x 1			MD-M51-HM4HB
	6 mm	17	17	74	17	14		25,5	4	M 12 x 1			MD-M51-HM6HB

Plugs – without valve — Series MD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	14	14	44	7	18			4	M 10 x 1			MD-M54-HM6CSP
	6 x 8 mm	14	14	44	7	18			4	M 12 x 1			MD-M54-HM8CSP
 Hose Barb	4 mm			32	17								MD-M54-M4HB
	6 mm			32	17								MD-M54-M6HB
 Panel Mount with Hose Barb	4 x 6 mm	14	14	50	17	14			4	M 10 x 1			MD-M54-HM4HB
	6 x 8 mm	14	17	50	17	14			4	M 12 x 1			MD-M54-HM6HB

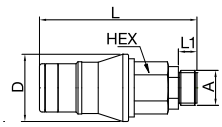
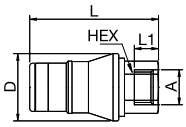
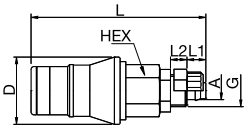
Plugs – with valve

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	G 1/8	17		36	7								MD-M52-2MB
	G 1/4	17		38	7								MD-M52-4MB
 Female Thread	G 1/8	17		39	8								MD-M52-2FB
	G 1/4	17		42	10								MD-M52-4FB
 with Plastic Hose Connection	4 x 6 mm	17		42	7	6				M 10 x 1			MD-M52-M6CSP
	6 x 8 mm	17		42	7	6				M 12 x 1			MD-M52-M8CSP
 Panel Mount with Plastic Hose Connection	4 x 6 mm	17		48	7	18			4	M 10 x 1			MD-M52-HM6CSP
	6 x 8 mm	17		52	7	18			4	M 12 x 1			MD-M52-HM8CSP
 Hose Barb	4 mm	17		46	17								MD-M52-M4HB
	6 mm	17		46	17								MD-M52-M6HB
 Panel Mount with Hose Barb	4 mm	17	14	60	17	14			4	M 10 x 1			MD-M52-HM4HB
	6 mm	17	17	60	17	14			4	M 12 x 1			MD-M52-HM6HB

⚠ Please consider our security advices on the pages 12/13 ⚠

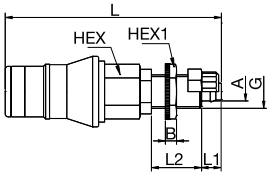
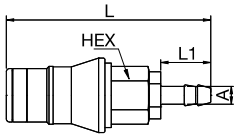
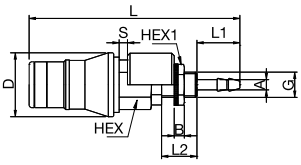
Couplings – with valve

Series MD coded

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	G 1/8	17		59,5	7			25,5				green - 0	MD-M51-2MB-K0
	G 1/8	17		59,5	7			25,5				black - 2	MD-M51-2MB-K2
	G 1/8	17		59,5	7			25,5				brown - 3	MD-M51-2MB-K3
	G 1/8	17		59,5	7			25,5				yellow - 5	MD-M51-2MB-K5
	G 1/8	17		59,5	7			25,5				blue - 6	MD-M51-2MB-K6
	G 1/8	17		59,5	7			25,5				red - 8	MD-M51-2MB-K8
	G 1/4	17		59,5	7			25,5				green - 0	MD-M51-4MB-K0
	G 1/4	17		59,5	7			25,5				black - 2	MD-M51-4MB-K2
	G 1/4	17		59,5	7			25,5				brown - 3	MD-M51-4MB-K3
	G 1/4	17		59,5	7			25,5				yellow - 5	MD-M51-4MB-K5
	G 1/4	17		59,5	7			25,5				blue - 6	MD-M51-4MB-K6
	G 1/4	17		59,5	7			25,5				red - 8	MD-M51-4MB-K8
 Female Thread	G 1/8	17		62,5	9			25,5				green - 0	MD-M51-2FB-K0
	G 1/8	17		62,5	9			25,5				black - 2	MD-M51-2FB-K2
	G 1/8	17		62,5	9			25,5				brown - 3	MD-M51-2FB-K3
	G 1/8	17		62,5	9			25,5				yellow - 5	MD-M51-2FB-K5
	G 1/8	17		62,5	9			25,5				blue - 6	MD-M51-2FB-K6
	G 1/8	17		62,5	9			25,5				red - 8	MD-M51-2FB-K8
	G 1/4	17		48,5	9			25,5				green - 0	MD-M51-4FB-K0
	G 1/4	17		48,5	9			25,5				black - 2	MD-M51-4FB-K2
	G 1/4	17		48,5	9			25,5				brown - 3	MD-M51-4FB-K3
	G 1/4	17		48,5	9			25,5				yellow - 5	MD-M51-4FB-K5
	G 1/4	17		48,5	9			25,5				blue - 6	MD-M51-4FB-K6
	G 1/4	17		48,5	9			25,5				red - 8	MD-M51-4FB-K8
 with Plastic Hose Connection	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		green - 0	MD-M51-M6CSP-K0
	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		black - 2	MD-M51-M6CSP-K2
	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		brown - 3	MD-M51-M6CSP-K3
	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		yellow - 5	MD-M51-M6CSP-K5
	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		blue - 6	MD-M51-M6CSP-K6
	4 x 6 mm	17		65,5	7	6		25,5		M 10 x 1		red - 8	MD-M51-M6CSP-K8
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		green - 0	MD-M51-M8CSP-K0
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		black - 2	MD-M51-M8CSP-K2
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		brown - 3	MD-M51-M8CSP-K3
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		yellow - 5	MD-M51-M8CSP-K5
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		blue - 6	MD-M51-M8CSP-K6
	6 x 8 mm	17		65,5	7	6		25,5		M 12 x 1		red - 8	MD-M51-M8CSP-K8

Couplings – with valve

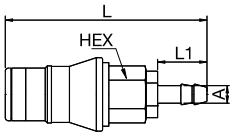
Series MD coded

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Panel Mount with Plastic Hose Connection	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		green - 0	MD-M51-HM6CSP-K0
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		black - 2	MD-M51-HM6CSP-K2
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		brown - 3	MD-M51-HM6CSP-K3
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		yellow - 5	MD-M51-HM6CSP-K5
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		blue - 6	MD-M51-HM6CSP-K6
	4 x 6 mm	17	14	77,5	7	18		25,5	4	M 10 x 1		red - 8	MD-M51-HM6CSP-K8
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		green - 0	MD-M51-HM8CSP-K0
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		black - 2	MD-M51-HM8CSP-K2
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		brown - 3	MD-M51-HM8CSP-K3
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		yellow - 5	MD-M51-HM8CSP-K5
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		blue - 6	MD-M51-HM8CSP-K6
	6 x 8 mm	17	17	77,5	7	18		25,5	4	M 12 x 1		red - 8	MD-M51-HM8CSP-K8
 Hose Barb	4 mm	17		69,5	17			25,5				green - 0	MD-M51-M4HB-K0
	4 mm	17		69,5	17			25,5				black - 2	MD-M51-M4HB-K2
	4 mm	17		69,5	17			25,5				brown - 3	MD-M51-M4HB-K3
	4 mm	17		69,5	17			25,5				yellow - 5	MD-M51-M4HB-K5
	4 mm	17		69,5	17			25,5				blue - 6	MD-M51-M4HB-K6
	4 mm	17		69,5	17			25,5				red - 8	MD-M51-M4HB-K8
	6 mm	17		69,5	17			25,5				green - 0	MD-M51-M6HB-K0
	6 mm	17		69,5	17			25,5				black - 2	MD-M51-M6HB-K2
	6 mm	17		69,5	17			25,5				brown - 3	MD-M51-M6HB-K3
	6 mm	17		69,5	17			25,5				yellow - 5	MD-M51-M6HB-K5
	6 mm	17		69,5	17			25,5				blue - 6	MD-M51-M6HB-K6
	6 mm	17		69,5	17			25,5				red - 8	MD-M51-M6HB-K8
 Panel Mount with Hose Barb	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	green - 0	MD-M51-HM4HB-K0
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	black - 2	MD-M51-HM4HB-K2
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	brown - 3	MD-M51-HM4HB-K3
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	yellow - 5	MD-M51-HM4HB-K5
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	blue - 6	MD-M51-HM4HB-K6
	4 mm	17	14	83,5	17	14		25,5	4	M 10 x 1	1 - 8	red - 8	MD-M51-HM4HB-K8
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	green - 0	MD-M51-HM6HB-K0
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	black - 2	MD-M51-HM6HB-K2
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	brown - 3	MD-M51-HM6HB-K3
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	yellow - 5	MD-M51-HM6HB-K5
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	blue - 6	MD-M51-HM6HB-K6
	6 mm	17	17	83,5	17	14		25,5	4	M 12 x 1	1 - 8	red - 8	MD-M51-HM6HB-K8

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series MD coded



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
4 mm			32	17							green - 0	MD-M54-M4HB-K0
4 mm			32	17							black - 2	MD-M54-M4HB-K2
4 mm			32	17							brown - 3	MD-M54-M4HB-K3
4 mm			32	17							yellow - 5	MD-M54-M4HB-K5
4 mm			32	17							blue - 6	MD-M54-M4HB-K6
4 mm			32	17							red - 8	MD-M54-M4HB-K8
6 mm			32	17							green - 0	MD-M54-M6HB-K0
6 mm			32	17							black - 2	MD-M54-M6HB-K2
6 mm			32	17							brown - 3	MD-M54-M6HB-K3
6 mm			32	17							yellow - 5	MD-M54-M6HB-K5
6 mm			32	17							blue - 6	MD-M54-M6HB-K6
6 mm			32	17							red - 8	MD-M54-M6HB-K8
10 mm			32	17							green - 0	MD-M54-M10HB-K0
10 mm			32	17							black - 2	MD-M54-M10HB-K2
10 mm			32	17							brown - 3	MD-M54-M10HB-K3
10 mm			32	17							yellow - 5	MD-M54-M10HB-K5
10 mm			32	17							blue - 6	MD-M54-M10HB-K6
10 mm			32	17							red - 8	MD-M54-M10HB-K8

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

6 = 28 mm²

Rectus Series

PPL



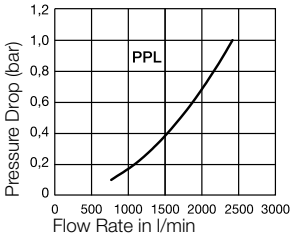
Technical Description
Plastic coupling in nominal diameter 6 mm. The system is particularly suited to use with weak alkalis and acids. The coupling stands out for its light weight and intuitive operation. Secure sealing is indicated by an audible click.

Working Temperature
-40°C up to +82°C

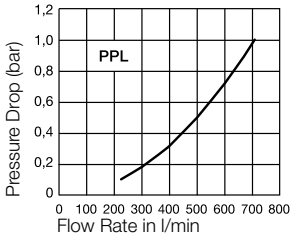
KF Straight-Through	KA Single Shut-Off	KB Double Shut-Off
Working Pressure**		
0-8 bar ** maximum static working pressure with safety factor 4 to 1.	0-8 bar	0-8 bar
Material		
Coupling: Acetal (POM), natural color, USP Class VI **Plug:** Acetal (POM), natural color, USP Class VI **Seals:** FDA Buna-N	**Coupling:** Acetal (POM), natural color, USP Class VI **Plug:** Acetal (POM), natural color, USP Class VI **Seals:** FDA Buna-N	**Coupling:** Acetal (POM), natural color, USP Class VI **Plug:** Acetal (POM), natural color, USP Class VI **Seals:** FDA Buna-N

Flow diagrams

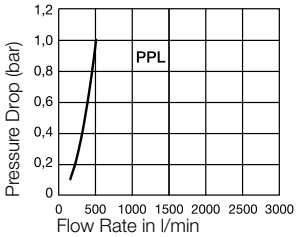
Air



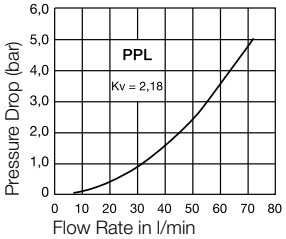
Air



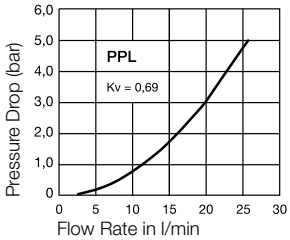
Air



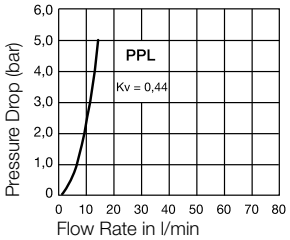
Water



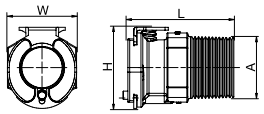
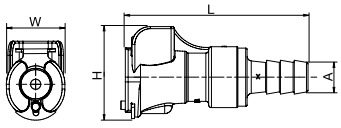
Water



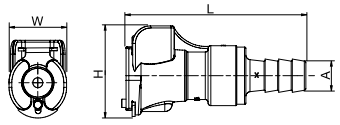
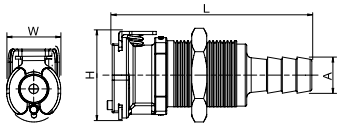
Water



Couplings – without valve — Series PPL

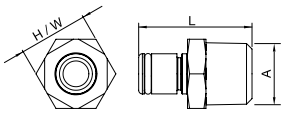
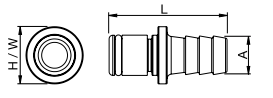
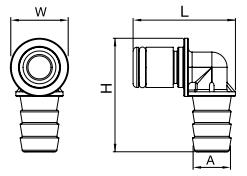
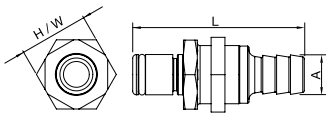
	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	3/8" BSPT		19,1	29,2				23,6					PPL-253-6MBT
 Hose Barb	6 mm		19,1	48,3				23,6					PPL-253-4HB
	8 mm		19,1	48,3				23,6					PPL-253-5HB
	10 mm		19,1	48,3				23,6					PPL-253-6HB

Couplings – with valve — Series PPL

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Hose Barb	6 mm		19,1	48,3				23,6					PPL-251-4HB
	8 mm		19,1	48,3				23,6					PPL-251-5HB
	10 mm		19,1	48,3				23,6					PPL-251-6HB
 Panel Mount with Hose Barb	8 mm		19,1	48,3				23,6					PPL-251-H5HB
	10 mm		19,1	48,3				23,6					PPL-251-H6HB

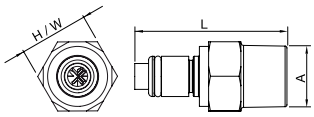
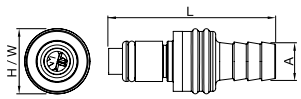
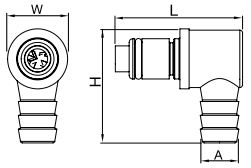
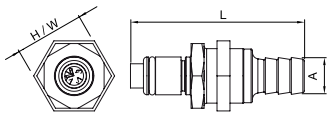
⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/4" BSPT		15,7	31,8				15,7					PPL-254-4MBT
	3/8" BSPT		18,8	31,8				18,8					PPL-254-6MBT
 Hose Barb	6 mm		15,7	31,8				15,7					PPL-254-4HB
	8 mm		15,7	31,8				15,7					PPL-254-5HB
	10 mm		15,7	31,8				15,7					PPL-254-6HB
 Hose Barb 90°	6 mm		15,7	27,9				32,5					PPL-254-C4HB
	10 mm		15,7	27,9				32,5					PPL-254-C6HB
 Panel Mount with Hose Barb	6 mm		18,8	47,8				18,8					PPL-254-H4HB
	10 mm		18,8	47,8				18,8					PPL-254-H6HB

Plugs – with valve

Series PPL

	Connection A	HEX mm	W mm	L mm	L1 mm	L2 mm	L3 mm	H mm	B mm	G mm	S mm	Color Coding Ring	Part Number
 Male Thread	1/4" BSPT		15,7	41,9				15,7					PPL-252-4MBT
	3/8" BSPT		19,1	41,9				19,1					PPL-252-6MBT
 Hose Barb	6 mm		17,8	49,3				17,8					PPL-252-4HB
	8 mm		17,8	49,3				17,8					PPL-252-5HB
	10 mm		17,8	46,5				17,8					PPL-252-6HB
 Hose Barb 90°	6 mm		15,7	27,9				32,5					PPL-252-C4HB
	10 mm		15,7	27,9				32,5					PPL-252-C6HB
 Panel Mount with Hose Barb	6 mm		18,8	50,8				18,8					PPL-252-H4HB
	8 mm		18,8	50,8				18,8					PPL-252-H5HB
	10 mm		18,8	50,8				18,8					PPL-252-H6HB

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7 = 38 mm²

Rectus Series

BT



Other designs in series 48
The following other designs can be found from page:

➤ Thermoplastic P. 240

Technical Description
This coupling series is produced exclusively in materials of medical quality and it is specifically suited to use in medical, biotechnological, pharmaceutical and laboratory technology applications. The main components are molded in a clean room from virgin transparent USP Class VI polysulfone (PSU). The seals are made from platinum cured silicone, the locking pins are stainless steel.

Coupling system with single-hand operation. Audible click to indicate a secure connection. Transparent components allow visual control of the flow path. Completely smooth flow path without any dead spaces prevents cross-contamination. Ergonomic sleeve for easy operation with gloves.

Working Temperature
-20°C up to +148°C

KF Straight-Through

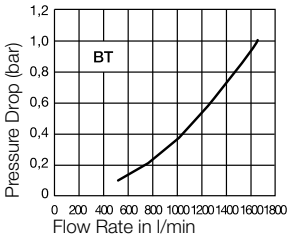
Working Pressure**
0-4,5 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: PSU, transparent, USP Class VI
Plug: PSU, transparent, USP Class VI
Seals: Platinum cured silicone, transparent, USP Class VI

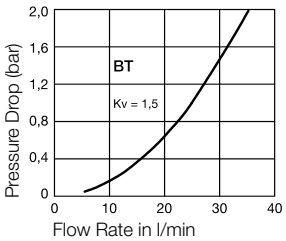
Interchangeability
• Rectus 48

Flow diagrams

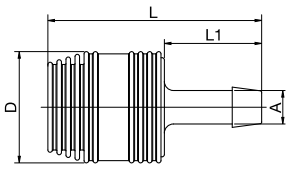
Air



Water



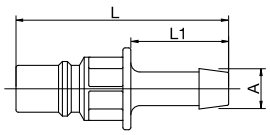
Couplings – without valve — Series BT



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
4 mm			47,3	21,5			24,6					BT-M73-4HB
6 mm			47,3	21,5			24,6					BT-M73-6HB
8 mm			47,3	21,5			24,6					BT-M73-8HB

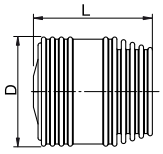
Plugs – without valve — Series BT



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
4 mm			46,8	21,5								BT-M74-4HB
6 mm			46,8	21,5								BT-M74-6HB
8 mm			46,8	21,5								BT-M74-8HB

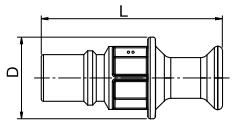
Dummy coupling — Series BT



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
			26,8				24,6					BT-M73-PLUG

Dummy plug — Series BT



Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	D mm	B mm	G mm	S mm	Color Coding Ring	Part Number
			40				18					BT-M74-PLUG

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

21



Technical Description
Mini industrial coupling with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.
It also uses an additional safety locking system. This prevents unintentional disconnection. When being disconnected, the plug must first be pushed further into the coupling before it can be disconnected.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK16S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

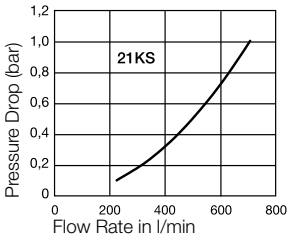
Other designs in series 21
The following other designs can be found from page:

- ➤ Brass / Steel P. 30
- ➤ Stainless Steel P. 192
- ➤ Thermoplastic P. 232
- ➤ Medical Technology (MD) P. 256
- ➤ Coded Systems P. 298

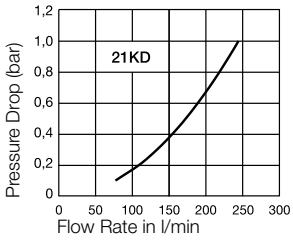
KS Single Shut-Off	KD Double Shut-Off
Working Pressure**	
35 bar ** maximum static working pressure with safety factor 4 to 1.	35 bar
Material	
Coupling: Brass **Plug:** Brass **Seals:** NBR	**Coupling:** Brass nickel plated **Plug:** Brass nickel plated **Seals:** NBR

Flow diagrams

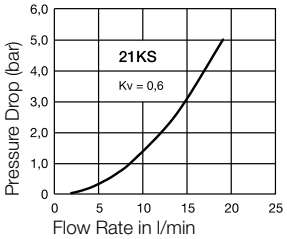
Air



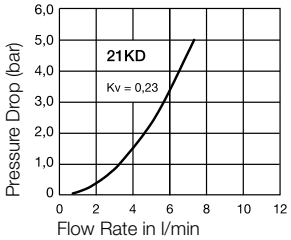
Air



Water

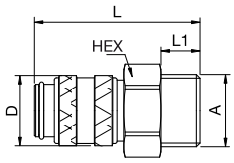
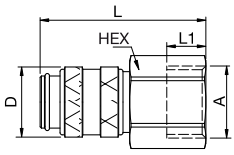
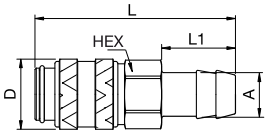
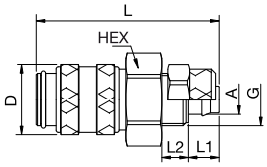


Water



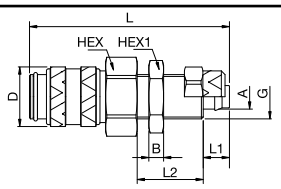
Couplings – with valve

Series 21KS

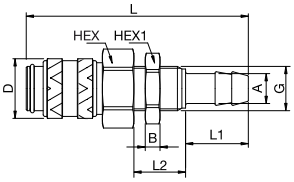
	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16			blank	21KSAW10MPX
	G 1/8	14		36	7		16			nickel plated	21KSAW10MPN
	G 1/4	17		38	9		16			blank	21KSAW13MPX
	G 1/4	17		38	9		16			nickel plated	21KSAW13MPN
	G 3/8	19		38	9		16			blank	21KSAW17MPX
	G 3/8	19		38	9		16			nickel plated	21KSAW17MPN
	M 12 x 1,5	17		39	10		16			blank	21KSAD12MPX
	M 12 x 1,5	17		39	10		16			nickel plated	21KSAD12MPN
	M 14 x 1,5	17		39	10		16			blank	21KSAD14MPX
	M 14 x 1,5	17		39	10		16			nickel plated	21KSAD14MPN
 Female Thread	G 1/8	14		36	9		16			blank	21KSIW10MPX
	G 1/8	14		36	9		16			nickel plated	21KSIW10MPN
	G 1/4	17		38	9		16			blank	21KSIW13MPX
	G 1/4	17		38	9		16			nickel plated	21KSIW13MPN
	G 3/8	19		38	6		16			blank	21KSIW17MPX
	G 3/8	19		38	6		16			nickel plated	21KSIW17MPN
	M 12 x 1,5	17		38	6		16			blank	21KSIM12MPX
	M 12 x 1,5	17		38	6		16			nickel plated	21KSIM12MPN
	M 14 x 1,5	17		38	6		16			blank	21KSIM14MPX
	M 14 x 1,5	17		38	6		16			nickel plated	21KSIM14MPN
 Hose Barb	4 mm	14		46	17		16			blank	21KSTF04MPX
	4 mm	14		46	17		16			nickel plated	21KSTF04MPN
	5 mm	14		46	17		16			blank	21KSTF05MPX
	5 mm	14		46	17		16			nickel plated	21KSTF05MPN
	6 mm	14		46	17		16			blank	21KSTF06MPX
	6 mm	14		46	17		16			nickel plated	21KSTF06MPN
	8 mm	14		46	17		16			blank	21KSTF08MPX
	8 mm	14		46	17		16			nickel plated	21KSTF08MPN
	9 mm	14		46	17		16			blank	21KSTF09MPX
	9 mm	14		46	17		16			nickel plated	21KSTF09MPN
	10 mm	14		46	17		16			blank	21KSTF10MPX
	10 mm	14		46	17		16			nickel plated	21KSTF10MPN
 with Plastic Hose Connection	4 x 6 mm	14		42	7	6	16		M 10 x 1	blank	21KSKO06MPX
	4 x 6 mm	14		42	7	6	16		M 10 x 1	nickel plated	21KSKO06MPN
	6 x 8 mm	14		42	7	6	16		M 12 x 1	blank	21KSKO08MPX
	6 x 8 mm	14		42	7	6	16		M 12 x 1	nickel plated	21KSKO08MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Couplings – with valve — Series 21KS



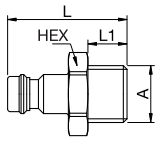
Panel Mount
with Plastic Hose Connection



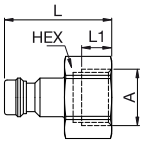
Panel Mount with Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	blank	21KSKS06MPX
4 x 6 mm	14	14	54	7	18	16	4	M 10 x 1	nickel plated	21KSKS06MPN
6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	blank	21KSKS08MPX
6 x 8 mm	17	17	54	7	18	16	4	M 12 x 1	nickel plated	21KSKS08MPN
4 mm	14	14	60	17	14	16	4	M 10 x 1	blank	21KSTS04MPX
4 mm	14	14	60	17	14	16	4	M 10 x 1	nickel plated	21KSTS04MPN
5 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KSTS05MPX
5 mm	17	17	60	17	14	16	4	M 12 x 1	nickel plated	21KSTS05MPN
6 mm	17	17	60	17	14	16	4	M 12 x 1	blank	21KSTS06MPX

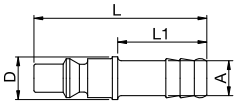
Plugs – without valve — Series 21KS



Male Thread



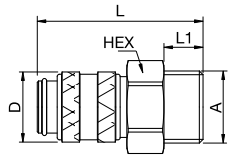
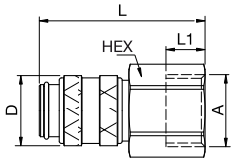
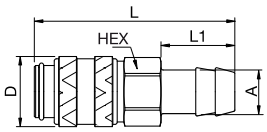
Female Thread



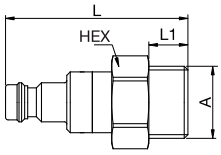
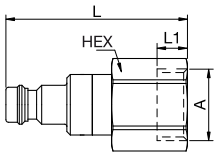
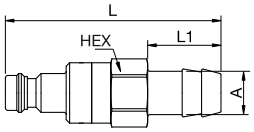
Hose Barb

Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
G 1/8	14		25	7					blank	21SSAW10MXX
G 1/8	14		25	7					nickel plated	21SSAW10MXN
G 1/4	17		28	9					blank	21SSAW13MXX
G 1/4	17		28	9					nickel plated	21SSAW13MXN
G 1/8	14		25	8					blank	21SSIW10MXX
G 1/8	14		25	8					nickel plated	21SSIW10MXN
G 1/4	17		25	9					blank	21SSIW13MXX
G 1/4	17		25	9					nickel plated	21SSIW13MXN
4 mm			32	17		9			blank	21SSTF04MXX
4 mm			32	17		9			nickel plated	21SSTF04MXN
6 mm			32	17		9			blank	21SSTF06MXX
6 mm			32	17		9			nickel plated	21SSTF06MXN
8 mm			32	17		9			blank	21SSTF08MXX
8 mm			32	17		9			nickel plated	21SSTF08MXN
9 mm			33	17		10			blank	21SSTF09MXX
9 mm			33	17		10			nickel plated	21SSTF09MXN
10 mm			33	17		12			blank	21SSTF10MXX
10 mm			33	17		12			nickel plated	21SSTF10MXN

Couplings – with valve — Series 21KD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		36	7		16				21KDAW10MPN
	G 1/4	17		38	9		16				21KDAW13MPN
	G 3/8	19		38	9		16				21KDAW17MPN
 Female Thread	G 1/8	14		36	9		16				21KDIW10MPN
	G 1/4	17		38	9		16				21KDIW13MPN
	G 3/8	19		38	9		16				21KDIW17MPN
 Hose Barb	6 mm	14		46	17		16				21KDTF06MPN
	10 mm	14		46	17		16				21KDTF10MPN

Plugs – with valve — Series 21KD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/8	14		40	7						21SDAW10MPN
	G 1/4	17		42	9						21SDAW13MPN
	G 3/8	19		42	9						21SDAW17MPN
 Female Thread	G 1/8	14		40	7						21SDIW10MPN
	G 1/4	17		42	7						21SDIW13MPN
 Hose Barb	6 mm	14		50	17						21SDTF06MPN
	10 mm	14		50	17						21SDTF10MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

25



Technical Description
Safety coupling with UltaFlo-Valve for optimum flow and low pressure drop. The series stands out for its robust design (steel sleeve) and long service life even with the harshest use. Additional safety locking system. This safety lock prevents unintentional disconnection. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked. The brass version has been developed specifically for use with water in the pressure range up to 35 bar.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

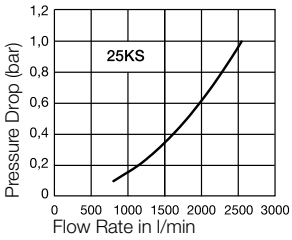
Other designs in series 25
The following other designs can be found from page:

➤ Brass / Steel P. 98
➤ Stainless Steel P. 208
➤ Safety Self-Venting P. 294
➤ Coded Systems P. 302

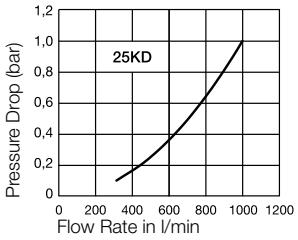
KS Single Shut-Off	KD Double Shut-Off
Working Pressure**	
35 bar (Brass-Version) 70 bar (with steel body and steel sleeve) ** maximum static working pressure with safety factor 4 to 1.	35 bar
Features	
• Double profiled plug design against wear of material during operation	• Handy sleeve for optimum operation even with gloves
Material	
Coupling: Brass / Steel or Brass **Plug:** Steel zinc plated or Brass **Seals:** NBR	**Coupling:** Brass nickel plated **Plug:** Brass nickel plated **Seals:** NBR

Flow diagrams

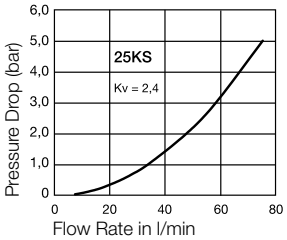
Air



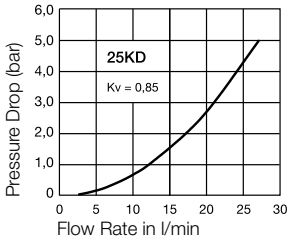
Air



Water

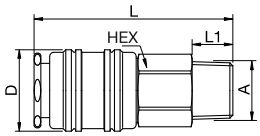
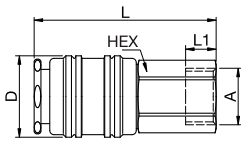
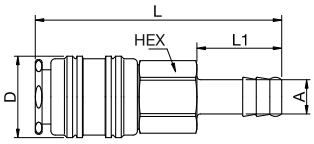


Water



Couplings – with valve

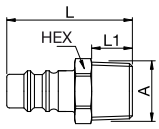
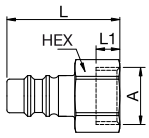
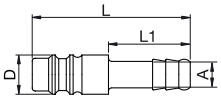
Series 25KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		23			Steel	25KSAK13SPN
	R 1/4	19		60	12		23			blank	25KSAK13BPX
	R 1/4	19		60	12		23			nickel plated	25KSAK13BPN
	R 3/8	19		60	12		23			Steel	25KSAK17SPN
	R 3/8	19		60	12		23			blank	25KSAK17BPX
	R 3/8	19		60	12		23			nickel plated	25KSAK17BPN
	R 1/2	22		61	17		23			Steel	25KSAK21SPN
	R 1/2	22		61	17		23			blank	25KSAK21BPX
	R 1/2	22		61	17		23			nickel plated	25KSAK21BPN
	G 1/4	19		56	10		23			Steel	25KSIW13SPN
	G 1/4	19		56	10		23			blank	25KSIW13BPX
	G 1/4	19		56	10		23			nickel plated	25KSIW13BPN
 Female Thread	G 3/8	19		55	9		23			Steel	25KSIW17SPN
	G 3/8	19		55	9		23			blank	25KSIW17BPX
	G 3/8	19		55	9		23			nickel plated	25KSIW17BPN
	G 1/2	24		58	12		23			Steel	25KSIW21SPN
	6 mm	19		74	25		23			Steel	25KSTF06SPN
	8 mm	19		74	25		23			Steel	25KSTF08SPN
	8 mm	19		74	25		23			blank	25KSTF08BPX
	8 mm	19		74	25		23			nickel plated	25KSTF08BPN
	9 mm	19		74	25		23			Steel	25KSTF09SPN
	9 mm	19		74	25		23			blank	25KSTF09BPX
	9 mm	19		74	25		23			nickel plated	25KSTF09BPN
	10 mm	19		74	25		23			Steel	25KSTF10SPN
	10 mm	19		74	25		23			blank	25KSTF10BPX
	10 mm	19		74	25		23			nickel plated	25KSTF10BPN
 Hose Barb	13 mm	19		74	25		23			Steel	25KSTF13SPN
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	13 mm	19		74	25		23			nickel plated	25KSTF13BPN

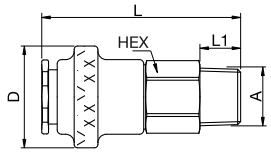
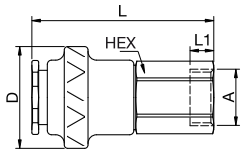
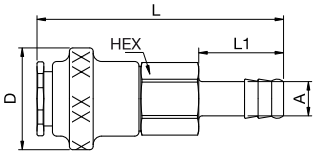
⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

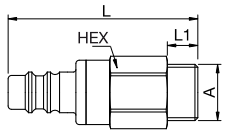
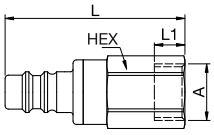
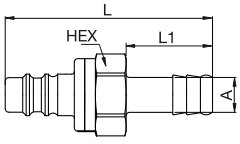
Series 25KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9					Steel	25SSAK10SXZ
	R 1/4	14		37	12					Steel	25SSAK13SXZ
	G 1/4	17		33	9					nickel plated	26SSAW13MXN
	R 3/8	17		37	12					Steel	25SSAK17SXZ
	R 1/2	22		43	17					Steel	25SSAK21SXZ
 Female Thread	G 1/4	17		33	9					Steel	25SSIW13SXZ
	G 3/8	19		33	9					Steel	25SSIW17SXZ
	G 1/2	24		36	12					Steel	25SSIW21SXZ
 Hose Barb	6 mm			48	25		12			Steel	25SSTF06SXZ
	8 mm			48	25		12			Steel	25SSTF08SXZ
	9 mm			48	25		12			Steel	25SSTF09SXZ
	10 mm			48	25		12			Steel	25SSTF10SXZ
	13 mm			48	25		15			Steel	25SSTF13SXZ

Couplings – with valve — Series 25KD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		60	12		30				25KDAK13BPN
	R 3/8	19		60	12		30				25KDAK17BPN
	R 1/2	22		61	17		30				25KDAK21BPN
 Female Thread	G 1/4	19		56	10		30				25KDIW13BPN
	G 3/8	19		55	9		30				25KDIW17BPN
	G 1/2	24		58	12		30				25KDIW21BPN
 Hose Barb	6 mm	19		74	25		30				25KDTF06BPN
	8 mm	19		74	25		30				25KDTF08BPN
	9 mm	19		74	25		30				25KDTF09BPN
	10 mm	19		74	25		30				25KDTF10BPN
	13 mm	19		74	25		30				25KDTF13BPN

Plugs – with valve — Series 25KD

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		43	9						25SDAW13MPN
	G 3/8	22		43	9						25SDAW17MPN
	G 1/2	22		46	12						25SDAW21MPN
 Female Thread	G 1/4	22		43	10						25SDIW13MPN
	G 3/8	22		43	9						25SDIW17MPN
	G 1/2	24		46	12						25SDIW21MPN
 Hose Barb	6 mm	21		60	25						25SDTF06MPN
	8 mm	21		60	25						25SDTF08MPN
	9 mm	21		60	25						25SDTF09MPN
	10 mm	21		60	25						25SDTF10MPN
	13 mm	21		60	25						25SDTF13MPN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10,5 = 85 mm²

Rectus Series

28



Technical Description
The robust safety coupling is the largest version of the coupling series with safety locking.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Additional safety locking system. This safety lock prevents unintentional disconnection. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked. Double profiled plug design against wear of material during operation.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

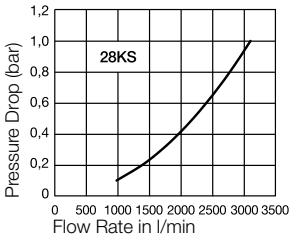
KS Single Shut-Off

Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

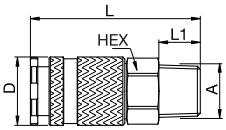
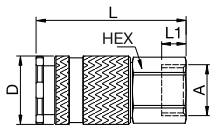
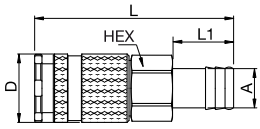
Material
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Interchangeability
- CETOP-Norm RP59 P-15

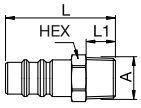
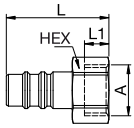
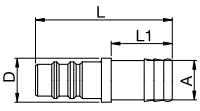
Flow diagrams
Air



Couplings – with valve — Series 28KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/2	24		69,5	17		28				28KSAK21SPN
	R 3/4	27		69,5	17		28				28KSAK26SPN
 Female Thread	G 3/8	24		61,5	12		28				28KSIW17SPN
	G 1/2	24		61,5	12		28				28KSIW21SPN
	G 3/4	32		65,5	16		28				28KSIW26SPN
 Hose Barb	13 mm	24		81,5	25		28				28KSTF13SPN
	16 mm	24		81,5	25		28				28KSTF16SPN
	19 mm	24		81,5	25		28				28KSTF19SPN

Plugs – without valve — Series 28KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 3/8	17		45	12						28SSAK17SXN
	R 1/2	22		50	17						28SSAK21SXN
 Female Thread	G 3/8	19		39	9						28SSIW17SXN
	G 1/2	24		42	12						28SSIW21SXN
	G 3/4	32		47	16						28SSIW26SXN
 Hose Barb	10 mm			54	25		15				28SSTF10SXN
	13 mm			54	25		15				28SSTF13SXN
	16 mm			56	25		18				28SSTF16SXN
	19 mm			56	25		21				28SSTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 43 mm²

Rectus Series

95



Technical Description
This coupling system has been developed specifically for the area of breathing protection.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Additional safety locking system. This safety lock prevents unintentional disconnection. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked.
Profile cannot be interconnected with the 96KS series. Tested according EN 139 standard.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KS Breathing Air

Working Pressure**

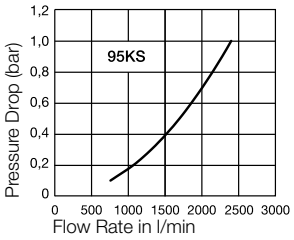
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

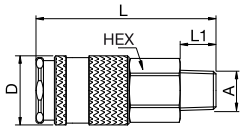
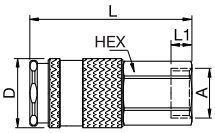
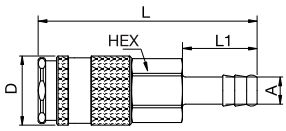
Coupling: Brass / Stainless Steel or Brass nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

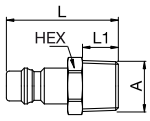
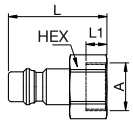
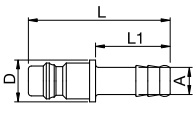
Air



Couplings – with valve — Series 95KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		61	12		23			nickel plated	95KSAK13BPN
	R 1/4	19		61	12		23			Stainless Steel	95KSAK13RPN
	R 3/8	19		60	12		23			nickel plated	95KSAK17BPN
	R 3/8	19		60	12		23			Stainless Steel	95KSAK17RPN
	R 1/2	22		61	17		23			nickel plated	95KSAK21BPN
	R 1/2	22		61	17		23			Stainless Steel	95KSAK21RPN
 Female Thread	G 1/4	19		56	10		23			nickel plated	95KSIW13BPN
	G 1/4	19		56	10		23			Stainless Steel	95KSIW13RPN
	G 3/8	19		55	9		23			nickel plated	95KSIW17BPN
	G 3/8	19		55	9		23			Stainless Steel	95KSIW17RPN
	G 1/2	24		58	12		23			nickel plated	95KSIW21BPN
	G 1/2	24		58	12		23			Stainless Steel	95KSIW21RPN
 Hose Barb	6 mm	19		74	25		23			nickel plated	95KSTF06BPN
	7 mm	20		77	22		23			nickel plated	95KSTF07BPN
	8 mm	19		74	25		23			nickel plated	95KSTF08BPN
	9 mm	19		74	25		23			nickel plated	95KSTF09BPN
	9 mm	19		74	25		23			Stainless Steel	95KSTF09RPN
	10 mm	19		74	25		23			nickel plated	95KSTF10BPN
	10 mm	19		74	25		23			Stainless Steel	95KSTF10RPN
	13 mm	19		74	25		23			nickel plated	95KSTF13BPN

Plugs – without valve — Series 95KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	14		38,5	12						95SSAK13MXN
	R 3/8	17		38,5	12						95SSAK17MXN
 Female Thread	G 1/4	17		33	9						95SSIW13MXN
	G 3/8	19		33	9						95SSIW17MXN
 Hose Barb	6 mm			47,5	25		14				95SSTF06MXN
	9 mm			47,5	25		14				95SSTF09MXN
	10 mm			47,5	25		14				95SSTF10MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 43 mm²

Rectus Series

96



Technical Description
This coupling system has been developed specifically for the area of breathing protection.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. Additional safety locking system. This safety lock prevents unintentional disconnection. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked.
Tested according EN 139 standard.

Dust Protections **(P. 319)**
for Coupling Part.-No. SK23S
for Plug Part.-No. SK12S

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KS Breathing Air

Working Pressure**

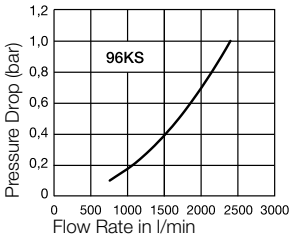
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material

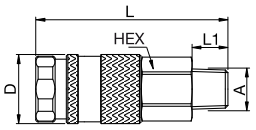
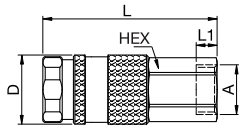
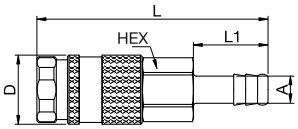
Coupling: Brass
Plug: Brass or Stainless Steel
Seals: NBR or FKM

Flow diagrams

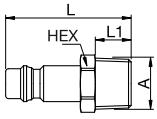
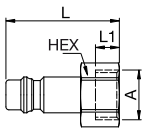
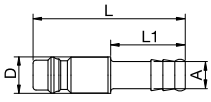
Air



Couplings – with valve — Series 96KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		65	12		23				96KSAK13BPN
	R 3/8	19		64	12		23				96KSAK17BPN
	R 1/2	22		66	17		23				96KSAK21BPN
 Female Thread	G 1/4	19		60	10		23				96KSIW13BPN
	G 3/8	19		59	9		23				96KSIW17BPN
 Hose Barb	6 mm	19		78	25		23				96KSTF06BPN
	7 mm	20		77	22		23				96KSTF07BPN
	9 mm	19		78	25		23				96KSTF09BPN
	10 mm	19		78	25		23				96KSTF10BPN
	13 mm	19		78	25		23				96KSTF13BPN

Plugs – without valve — Series 96KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	14		42	12					Brass	96SSAK13MXN
	R 3/8	17		42	12					Brass	96SSAK17MXN
	G 3/8	19		38	9					Stainless Steel	96SSAW17RXX
 Female Thread	G 1/4	17		38	10					Brass	96SSIW13MXN
	G 3/8	19		38	10					Brass	96SSIW17MXN
 Hose Barb	6 mm			51	25		12			Brass	96SSTF06MXN
	9 mm			51	25		12			Brass	96SSTF09MXN
	13 mm			53	25		12			Brass	96SSTF13MXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

14



Other designs in series 14
The following other designs can be found from page:

➤ Brass / Steel P. 46

Technical Description
Safety coupling with a self-venting system according to ISO C. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place. The plastic sleeve does not scratch working surfaces.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +60°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +60°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

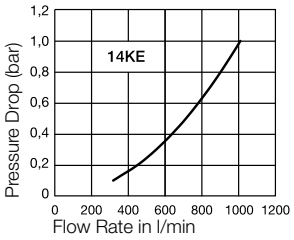
KE Self-Venting System

Working Pressure**
12 bar
** maximum static working pressure with safety factor 4 to 1.

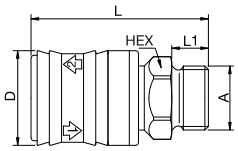
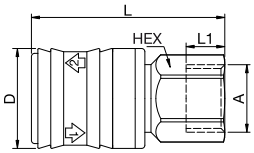
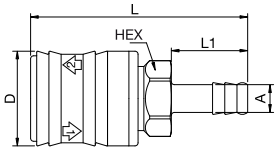
Material
Coupling: Brass nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

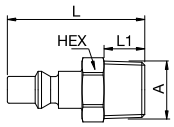
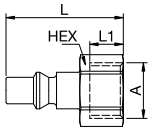
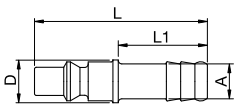
Air



Couplings – with valve — Series 14KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	22		58	9		31				14KEAK13MPN
	R 3/8	22		58	9		31				14KEAK17MPN
	R 1/2	24		63	12		31				14KEAK21MPN
 Female Thread	G 1/4	22		57	9		31				14KEIW13MPN
	G 3/8	22		57	9		31				14KEIW17MPN
	G 1/2	24		60	12		31				14KEIW21MPN
 Hose Barb	6 mm	22		71	25		31				14KETF06MPN
	8 mm	22		71	25		31				14KETF08MPN
	9 mm	22		71	25		31				14KETF09MPN
	10 mm	22		71	25		31				14KETF10MPN
	13 mm	22		71	25		31				14KETF13MPN

Plugs – without valve — Series 22SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	12		35	9						22SFAK10SXN
	R 1/4	14		41	12						22SFAK13SXN
	R 3/8	17		41	12						22SFAK17SXN
	R 1/2	22		46	17						22SFAK21SXN
 Female Thread	G 1/4	17		35	9						22SFIW13SXN
	G 3/8	19		35	10						22SFIW17SXN
	G 1/2	24		38	12						22SFIW21SXN
 Hose Barb	6 mm			49	25		12				22SFTF06SXN
	8 mm			49	25		12				22SFTF08SXN
	9 mm			49	25		12				22SFTF09SXN
	10 mm			49	25		12				22SFTF10SXN
	13 mm			49	25		12				22SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

18



Other designs in series 18
The following other designs can be found from page:

➤ Brass / Steel P. 50

Technical Description
Safety coupling with a self-venting system. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +60°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +60°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KE Self-Venting System

Working Pressure**

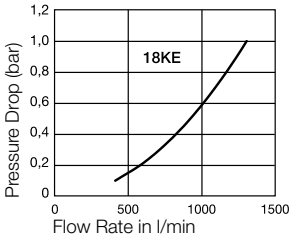
8 bar
** maximum static working pressure with safety factor 4 to 1.

Material

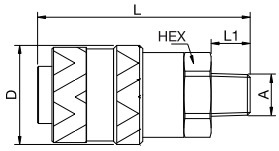
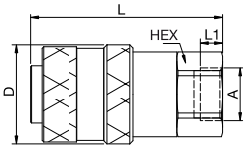
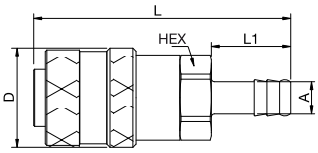
Coupling: Brass nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

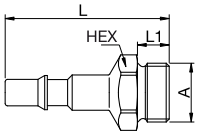
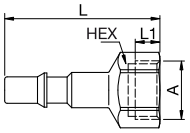
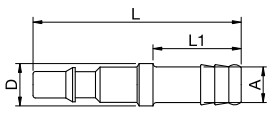
Air



Couplings – with valve — Series 18KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	24		67	12		30				18KEAK13BPN
	R 3/8	24		67	12		30				18KEAK17BPN
	R 1/2	24		72	17		30				18KEAK21BPN
 Female Thread	G 1/4	24		63	10		30				18KEIW13BPN
	G 3/8	24		60	9		30				18KEIW17BPN
	G 1/2	24		65	12		30				18KEIW21BPN
 Hose Barb	6 mm	24		81	25		30				18KETF06BPN
	8 mm	24		81	25		30				18KETF08BPN
	9 mm	24		81	25		30				18KETF09BPN
	10 mm	24		81	25		30				18KETF10BPN
	13 mm	24		81	25		30				18KETF13BPN

Plugs – without valve — Series 18SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	17		41	9						18SFAW13SXN
	G 3/8	19		41	9						18SFAW17SXN
 Female Thread	G 1/4	17		43	9						18SFIW13SXN
	G 3/8	19		44	9						18SFIW17SXN
 Hose Barb	6 mm			56	25		12				18SFTF06SXN
	8 mm			56	25		12				18SFTF08SXN
	9 mm			56	25		12				18SFTF09SXN
	10 mm			56	25		12				18SFTF10SXN
	13 mm			56	25		12				18SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

1400



Technical Description
Safety coupling 1/4" with a self-venting system according to ISO 6150 B. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place. DIN EN 983. UltraFlo valve for optimum flow and low pressure drop.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 1400
The following other designs can be found from page:

➤ Brass / Steel P. 62

KE Self-Venting System

Working Pressure**

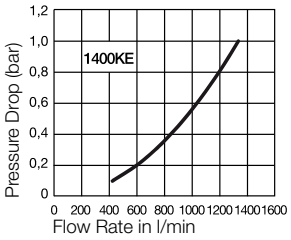
0-12 bar
** maximum static working pressure with safety factor 4 to 1.

Material

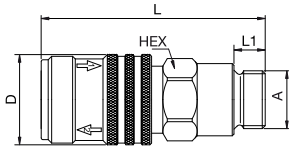
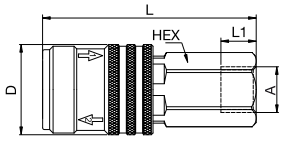
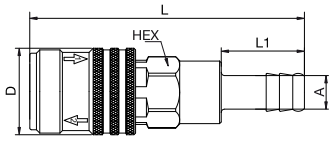
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

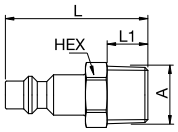
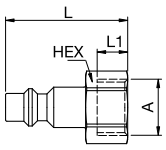
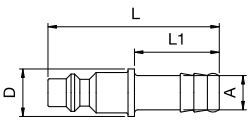
Air



Couplings – with valve — Series 1400KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	19		64,5	9		26				1400KEAW13SPN
	G 3/8	21		64,5	9		26				1400KEAW17SPN
	G 1/2	24		67,5	12		26				1400KEAW21SPN
 Female Thread	G 1/4	19		61,5	9		26				1400KEIW13SPN
	G 3/8	19		61,5	9		26				1400KEIW17SPN
	G 1/2	24		64,5	12		26				1400KEIW21SPN
 Hose Barb	6 mm	19		82,5	25		26				1400KETF06SPN
	8 mm	19		82,5	25		26				1400KETF08SPN
	10 mm	19		82,5	25		26				1400KETF10SPN
	13 mm	19		82,5	25		26				1400KETF13SPN

Plugs – without valve — Series 23SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		39	9						23SFAK10SXN
	R 1/4	14		42	12						23SFAK13SXN
	R 3/8	17		42	12						23SFAK17SXN
	R 1/2	22		48	17						23SFAK21SXN
 Female Thread	G 1/8	14		36	9						23SFIW10SXN
	G 1/4	17		36	9						23SFIW13SXN
	G 3/8	19		36	9						23SFIW17SXN
	G 1/2	24		39	12						23SFIW21SXN
 Hose Barb	6 mm			51	14		25				23SFTF06SXN
	8 mm			51	14		25				23SFTF08SXN
	9 mm			51	14		25				23SFTF09SXN
	10 mm			51	14		25				23SFTF10SXN
	13 mm			51	15		25				23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5,5 = 25 mm²

Rectus Series

24



Other designs in series 24
The following other designs can be found from page:

➤ Brass / Steel P. 70

Technical Description
Safety coupling with a self-venting system according to ISO 6150 B. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place. The plastic sleeve does not scratch working surfaces.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +60°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +60°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KE Self-Venting System

Working Pressure**

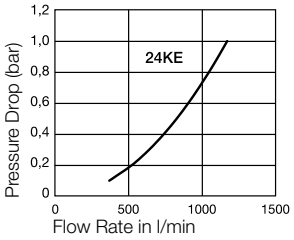
12 bar
** maximum static working pressure with safety factor 4 to 1.

Material

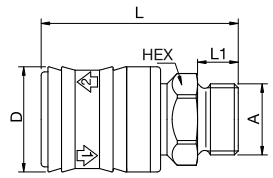
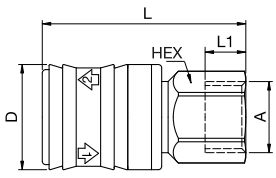
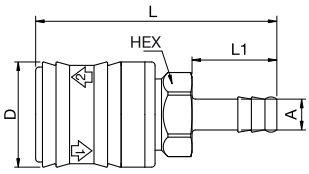
Coupling: Brass nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

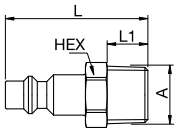
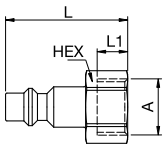
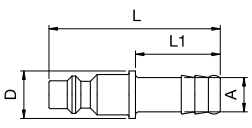
Air



Couplings – with valve — Series 24KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	22		58	9		31				24KEAK13MPN
	R 3/8	22		58	9		31				24KEAK17MPN
	R 1/2	24		63	12		31				24KEAK21MPN
 Female Thread	G 1/4	22		57	9		31				24KEIW13MPN
	G 3/8	22		57	9		31				24KEIW17MPN
 Hose Barb	6 mm	22		71	25		31				24KETF06MPN
	8 mm	22		71	25		31				24KETF08MPN
	9 mm	22		71	25		31				24KETF09MPN
	10 mm	22		71	25		31				24KETF10MPN
	13 mm	22		71	25		31				24KETF13MPN

Plugs – without valve — Series 23SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		39	9						23SFAK10SXN
	R 1/4	14		42	12						23SFAK13SXN
	R 3/8	17		42	12						23SFAK17SXN
	R 1/2	22		48	17						23SFAK21SXN
 Female Thread	G 1/8	14		36	9						23SFIW10SXN
	G 1/4	17		36	9						23SFIW13SXN
	G 3/8	19		36	9						23SFIW17SXN
	G 1/2	24		36	12						23SFIW21SXN
 Hose Barb	6 mm			51	25		14				23SFTF06SXN
	8 mm			51	25		14				23SFTF08SXN
	9 mm			51	25		14				23SFTF09SXN
	10 mm			51	25		14				23SFTF10SXN
	13 mm			51	25		14				23SFTF13SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 43 mm²

Rectus Series

26



Other designs in series 26
The following other designs can be found from page:

➤ Brass / Steel P. 84
➤ Stainless Steel P. 202

Technical Description
Safety coupling with a self-venting system. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place. The plastic sleeve does not scratch working surfaces.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +60°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +60°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KE Self-Venting System

Working Pressure**

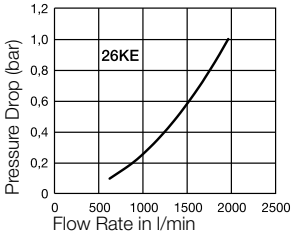
12 bar
** maximum static working pressure with safety factor 4 to 1.

Material

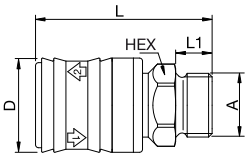
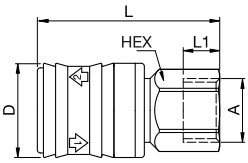
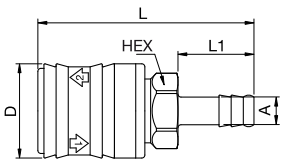
Coupling: Brass nickel plated
Plug: Steel zinc plated
Seals: NBR

Flow diagrams

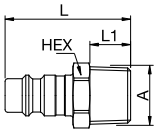
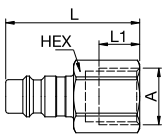
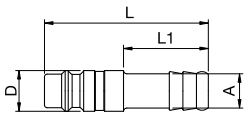
Air



Couplings – with valve — Series 26KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 1/4	22		55	9		31				26KEAW13MPN
	G 3/8	22		55	9		31				26KEAW17MPN
	G 1/2	24		58	12		31				26KEAW21MPN
 Female Thread	G 1/4	22		57	9		31				26KEIW13MPN
	G 3/8	22		57	9		31				26KEIW17MPN
	G 1/2	24		60	12		31				26KEIW21MPN
 Hose Barb	6 mm	22		71	25		31				26KETF06MPN
	8 mm	22		71	25		31				26KETF08MPN
	9 mm	22		71	25		31				26KETF09MPN
	10 mm	22		71	25		31				26KETF10MPN
	13 mm	22		71	25		31				26KETF13MPN

Plugs – without valve — Series 25SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9						25SFAK10SXZ
	R 1/4	14		37	12						25SFAK13SXZ
	R 3/8	17		37	12						25SFAK17SXZ
	R 1/2	22		43	17						25SFAK21SXZ
 Female Thread	G 1/8	14		30	7						25SFIW10SXZ
	G 1/4	17		33	9						25SFIW13SXZ
	G 3/8	19		33	9						25SFIW17SXZ
	G 1/2	24		36	12						25SFIW21SXZ
 Hose Barb	6 mm			48	25		12				25SFTF06SXZ
	8 mm			48	25		12				25SFTF08SXZ
	9 mm			48	25		12				25SFTF09SXZ
	10 mm			48	25		12				25SFTF10SXZ
	13 mm			48	25		12				25SFTF13SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

1600



Technical Description
Safety coupling with a self-venting system. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. The system fulfils the requirements of ISO 4414 – increased safety standards in the work place. DIN EN 983. UltraFlo valve for optimum flow and low pressure drop.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 1600
The following other designs can be found from page:

➤ Brass / Steel P. 106

KE Self-Venting System

Working Pressure**

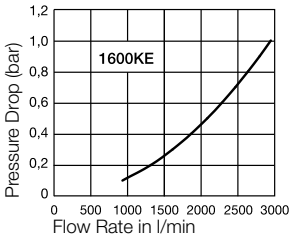
2-12 bar
** maximum static working pressure with safety factor 4 to 1.

Material

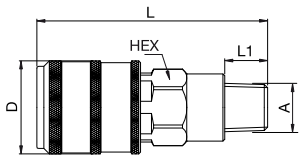
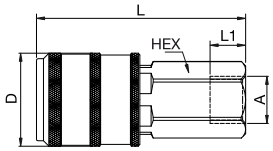
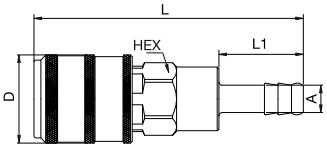
Coupling: Brass nickel plated / Steel
Plug: Steel zinc plated
Seals: NBR

Flow diagrams

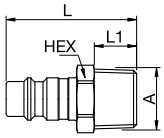
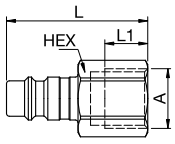
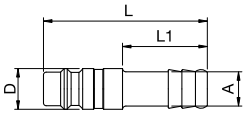
Air



Couplings – with valve — Series 1600KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	19		64,5	12		26				1600KEAK13SPN
	R 3/8	19		64,5	12		26				1600KEAK17SPN
	R 1/2	22		59	17		26				1600KEAK21SPN
 Female Thread	G 1/4	19		59	10		26				1600KEIW13SPN
	G 3/8	19		59	9		26				1600KEIW17SPN
	G 1/2	24		61,5	12		26				1600KEIW21SPN
 Hose Barb	6 mm	19		79,5	25		26				1600KETF06SPN
	9 mm	19		79,5	25		26				1600KETF09SPN
	10 mm	19		79,5	25		26				1600KETF10SPN
	13 mm	19		79,5	25		26				1600KETF13SPN

Plugs – without valve — Series 25SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/8	13		33	9						25SFAK10SXZ
	R 1/4	14		37	12						25SFAK13SXZ
	R 3/8	17		37	12						25SFAK17SXZ
	R 1/2	22		43	17						25SFAK21SXZ
 Female Thread	G 1/8	14		30	7						25SFIW10SXZ
	G 1/4	17		38,5	9						25SFIW13SXZ
	G 3/8	19		39,5	9						25SFIW17SXZ
	G 1/2	24		44	12						25SFIW21SXZ
 Hose Barb	6 mm			48	25		12				25SFTF06SXZ
	8 mm			48	25		12				25SFTF08SXZ
	9 mm			48	25		12				25SFTF09SXZ
	10 mm			48	25		12				25SFTF10SXZ
	13 mm			48	25		12				25SFTF13SXZ

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

10 = 80 mm²

Rectus Series

1700



Technical Description
Safety coupling with a self-venting system. Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes and the air is vented from the air line at the same time. Only then, by operating the sleeve again, can uncoupling take place safely. he system fulfils the requirements of ISO 4414 – increased safety standards in the work place. DIN EN 983. UltraFlo valve for optimum flow and low pressure drop.

Safety Note
Reliable functioning can only be guaranteed in conjunction with original Parker Rectus plugs made of steel.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

Other designs in series 1700
The following other designs can be found from page:

➤ Brass / Steel P. 134

KE Self-Venting System

Working Pressure**

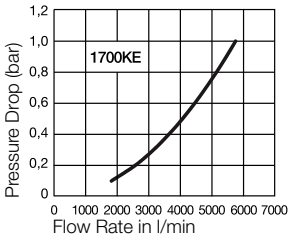
0-12 bar
** maximum static working pressure with safety factor 4 to 1.

Material

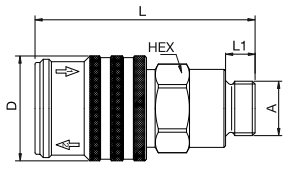
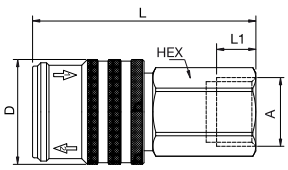
Coupling: Brass / Steel nickel plated
Plug: Steel nickel plated
Seals: NBR

Flow diagrams

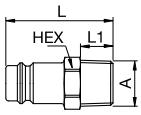
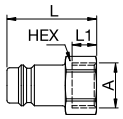
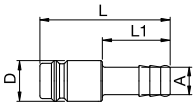
Air



Couplings – with valve — Series 1700KE

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	G 3/8	24		67	9		32				1700KEAW17SPN
	G 1/2	24		70	12		32				1700KEAW21SPN
	G 3/4	30		74	16		32				1700KEAW26SPN
 Female Thread	G 3/8	24		64,5	12		32				1700KEIW17SPN
	G 1/2	24		68	12		32				1700KEIW21SPN
	G 3/4	32		74	16		32				1700KEIW26SPN

Plugs – without valve — Series 27SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number
 Male Thread	R 1/4	17		40	12						27SFAK13SXN
	R 3/8	17		40	12						27SFAK17SXN
	R 1/2	22		45	17						27SFAK21SXN
	R 3/4	27		48	19						27SFAK26SXN
 Female Thread	G 1/4	17		33	9						27SFIW13SXN
	G 3/8	19		33	9						27SFIW17SXN
	G 1/2	24		37	12						27SFIW21SXN
	G 3/4	32		42	16						27SFIW26SXN
 Hose Barb	6 mm			48	25		15				27SFTF06SXN
	8 mm			48	25		15				27SFTF08SXN
	9 mm			48	25		15				27SFTF09SXN
	10 mm			48	25		15				27SFTF10SXN
	13 mm			48	25		15				27SFTF13SXN
	16 mm			49	25		18				27SFTF16SXN
	19 mm			49	25		18				27SFTF19SXN

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

5 = 20 mm²

Rectus Series

21



Other designs in series 21
The following other designs can be found from page:

- ➤ Brass / Steel P. 30
- ➤ Stainless Steel P. 192
- ➤ Thermoplastic P. 232
- ➤ Medical Technology (MD) P. 256
- ➤ Safety P. 270

Technical Description
Coded industrial coupling system developed on the basis of series 21 with above-average flow rate for liquid and gaseous media.
Coupling system with single-hand operation. The mechanical coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling, which is complemented by the color coding of the anodised sleeves.
Double shut-off version available on request.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

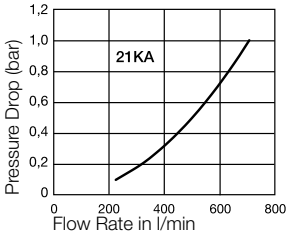
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Brass or Brass nickel plated
Seals: NBR

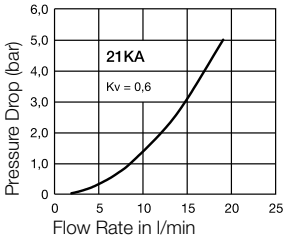
Interchangeability
- Rectus Design

Flow diagrams

Air

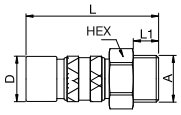
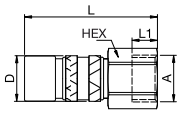
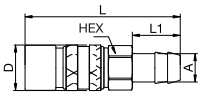
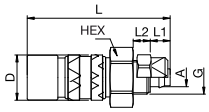
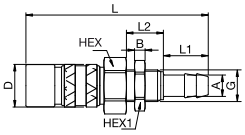


Water



Couplings – with valve

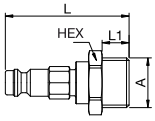
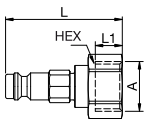
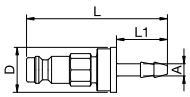
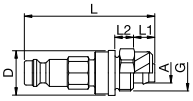
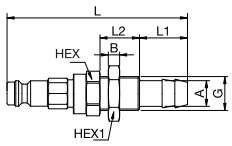
Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number	Part Number	Part Number	Part Number
 Male Thread	G 1/8	14		47	7		16			blank	21KAAW10MPX0	21KAAW10MPX3	21KAAW10MPX6	21KAAW10MPX8
	G 1/8	14		47	7		16			nickel plated	21KAAW10MPN0	21KAAW10MPN3	21KAAW10MPN6	21KAAW10MPN8
	G 1/4	17		47	9		16			blank	21KAAW13MPX0	21KAAW13MPX3	21KAAW13MPX6	21KAAW13MPX8
	G 1/4	17		47	9		16			nickel plated	21KAAW13MPN0	21KAAW13MPN3	21KAAW13MPN6	21KAAW13MPN8
 Female Thread	G 1/8	14		47	7		16			blank	21KAIW10MPX0	21KAIW10MPX3	21KAIW10MPX6	21KAIW10MPX8
	G 1/8	14		47	7		16			nickel plated	21KAIW10MPN0	21KAIW10MPN3	21KAIW10MPN6	21KAIW10MPN8
	G 1/4	17		47	9		16			blank	21KAIW13MPX0	21KAIW13MPX3	21KAIW13MPX6	21KAIW13MPX8
	G 1/4	17		47	9		16			nickel plated	21KAIW13MPN0	21KAIW13MPN3	21KAIW13MPN6	21KAIW13MPN8
 Hose Barb	4 mm	14		69	17		16			blank	21KATF04MPX0	21KATF04MPX3	21KATF04MPX6	21KATF04MPX8
	4 mm	14		69	17		16			nickel plated	21KATF04MPN0	21KATF04MPN3	21KATF04MPN6	21KATF04MPN8
	6 mm	14		69	17		16			blank	21KATF06MPX0	21KATF06MPX3	21KATF06MPX6	21KATF06MPX8
	6 mm	14		69	17		16			nickel plated	21KATF06MPN0	21KATF06MPN3	21KATF06MPN6	21KATF06MPN8
	8 mm	14		69	17		16			blank	21KATF08MPX0	21KATF08MPX3	21KATF08MPX6	21KATF08MPX8
	8 mm	14		69	17		16			nickel plated	21KATF08MPN0	21KATF08MPN3	21KATF08MPN6	21KATF08MPN8
	9 mm	14		69	17		16			blank	21KATF09MPX0	21KATF09MPX3	21KATF09MPX6	21KATF09MPX8
 with Plastic Hose Connection	4 x 6 mm	14		51	7	6	16		M10x1	blank	21KAKO06MPX0	21KAKO06MPX3	21KAKO06MPX6	21KAKO06MPX8
	4 x 6 mm	14		51	7	6	16		M10x1	nickel plated	21KAKO06MPN0	21KAKO06MPN3	21KAKO06MPN6	21KAKO06MPN8
	6 x 8 mm	14		51	7	6	16		M12x1	blank	21KAKO08MPX0	21KAKO08MPX3	21KAKO08MPX6	21KAKO08MPX8
	6 x 8 mm	14		51	7	6	16		M12x1	nickel plated	21KAKO08MPN0	21KAKO08MPN3	21KAKO08MPN6	21KAKO08MPN8
 Panel Mount with Hose Barb	4 mm	14	14	69	14	17	16	4	M10x1	blank	21KATS04MPX0	21KATS04MPX3	21KATS04MPX6	21KATS04MPX8
	4 mm	14	14	69	14	17	16	4	M10x1	nickel plated	21KATS04MPN0	21KATS04MPN3	21KATS04MPN6	21KATS04MPN8
	6 mm	14	17	69	14	17	16	4	M12x1	blank	21KATS06MPX0	21KATS06MPX3	21KATS06MPX6	21KATS06MPX8
	6 mm	14	17	69	14	17	16	4	M12x1	nickel plated	21KATS06MPN0	21KATS06MPN3	21KATS06MPN6	21KATS06MPN8
	8 mm	14	17	69	14	17	16	4	M12x1	blank	21KATS08MPX0	21KATS08MPX3	21KATS08MPX6	21KATS08MPX8

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 21KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	● Part Number	▲ Part Number	⬢ Part Number	⬢ Part Number
 Male Thread	G 1/8	17		39,5	7					blank	21SFAW10MXX0	21SFAW10MXX3	21SFAW10MXX6	21SFAW10MXX8
	G 1/8	17		39,5	7					nickel plated	21SFAW10MXN0	21SFAW10MXN3	21SFAW10MXN6	21SFAW10MXN8
	G 1/4	17		41,5	9					blank	21SFAW13MXX0	21SFAW13MXX3	21SFAW13MXX6	21SFAW13MXX8
	G 1/4	17		41,5	9					nickel plated	21SFAW13MXN0	21SFAW13MXN3	21SFAW13MXN6	21SFAW13MXN8
 Female Thread	G 1/8	17		38,5	5					blank	21SFIW10MXX0	21SFIW10MXX3	21SFIW10MXX6	21SFIW10MXX8
	G 1/8	17		38,5	5					nickel plated	21SFIW10MXN0	21SFIW10MXN3	21SFIW10MXN6	21SFIW10MXN8
	G 1/4	17		39	7					blank	21SFIW13MXX0	21SFIW13MXX3	21SFIW13MXX6	21SFIW13MXX8
	G 1/4	17		39	7					nickel plated	21SFIW13MXN0	21SFIW13MXN3	21SFIW13MXN6	21SFIW13MXN8
 Hose Barb	4 mm			47	17		15			blank	21SFTF04MXX0	21SFTF04MXX3	21SFTF04MXX6	21SFTF04MXX8
	4 mm			47	17		15			nickel plated	21SFTF04MXN0	21SFTF04MXN3	21SFTF04MXN6	21SFTF04MXN8
	6 mm			47	17		15			blank	21SFTF06MXX0	21SFTF06MXX3	21SFTF06MXX6	21SFTF06MXX8
	6 mm			47	17		15			nickel plated	21SFTF06MXN0	21SFTF06MXN3	21SFTF06MXN6	21SFTF06MXN8
 with Plastic Hose Connection	4 x 6 mm			43	7	6	15		M10x1	blank	21SFKO06MXX0	21SFKO06MXX3	21SFKO06MXX6	21SFKO06MXX8
	4 x 6 mm			43	7	6	15		M10x1	nickel plated	21SFKO06MXN0	21SFKO06MXN3	21SFKO06MXN6	21SFKO06MXN8
	6 x 8 mm			43,5	7	6	15		M12x1	blank	21SFKO08MXX0	21SFKO08MXX3	21SFKO08MXX6	21SFKO08MXX8
	6 x 8 mm			43,5	7	6	15		M12x1	nickel plated	21SFKO08MXN0	21SFKO08MXN3	21SFKO08MXN6	21SFKO08MXN8
 Panel Mount with Hose Barb	4 mm	17	14	63	17	14		4	M10x1	blank	21SFTS04MXX0	21SFTS04MXX3	21SFTS04MXX6	21SFTS04MXX8
	4 mm	17	14	63	17	14		4	M10x1	nickel plated	21SFTS04MXN0	21SFTS04MXN3	21SFTS04MXN6	21SFTS04MXN8
	6 mm	17	17	63	17	14		4	M12x1	blank	21SFTS06MXX0	21SFTS06MXX3	21SFTS06MXX6	21SFTS06MXX8
	6 mm	17	17	63	17	14		4	M12x1	nickel plated	21SFTS06MXN0	21SFTS06MXN3	21SFTS06MXN6	21SFTS06MXN8

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,8 = 48 mm²

Rectus Series

25



Other designs in series 25
The following other designs can be found from page:

➤ Brass / Steel P. 98
➤ Stainless Steel P. 208
➤ Safety P. 274
➤ Safety Self-Venting P. 294

Technical Description
Coded industrial coupling system developed on the basis of series 25.
Coupling system with single-hand operation. UltraFlo valve for optimum flow and low pressure drop. The mechanical coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling, which is complemented by the color coding of the anodised sleeves. Double shut-off and straight-through couplings are available upon request. Cannot be interconnected with the Rectus standard 25 series.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KA Single Shut-Off

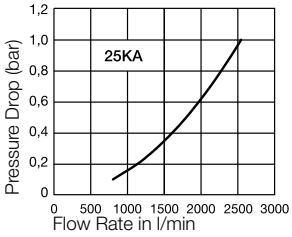
Working Pressure**
35 bar
** maximum static working pressure with safety factor 4 to 1.

Material
Coupling: Brass
Plug: Brass or Brass nickel plated
Seals: NBR

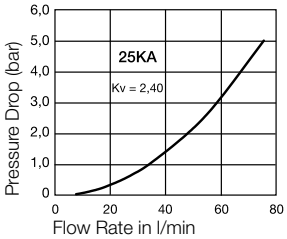
Interchangeability
• Rectus Design

Flow diagrams

Air

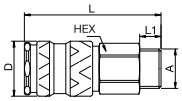
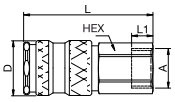
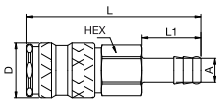
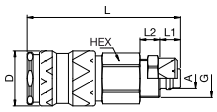


Water



Couplings – with valve

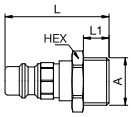
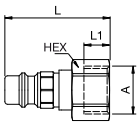
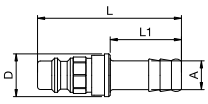
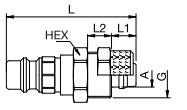
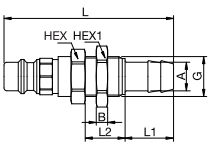
Series 25KA

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	● Part Number	▲ Part Number	⬢ Part Number	⬢ Part Number
 Male Thread	G 1/4	19		57,5	12		23			blank	25KAAW13BPX0	25KAAW13BPX3	25KAAW13BPX6	25KAAW13BPX8
	G 1/4	19		57,5	12		23			nickel plated	25KAAW13BPN0	25KAAW13BPN3	25KAAW13BPN6	25KAAW13BPN8
	G 3/8	19		57,5	12		23			blank	25KAAW17BPX0	25KAAW17BPX3	25KAAW17BPX6	25KAAW17BPX8
	G 3/8	19		57,5	12		23			nickel plated	25KAAW17BPN0	25KAAW17BPN3	25KAAW17BPN6	25KAAW17BPN8
	G 1/2	22		61	17		23			blank	25KAAW21BPX0	25KAAW21BPX3	25KAAW21BPX6	25KAAW21BPX8
	G 1/2	22		61	17		23			nickel plated	25KAAW21BPN0	25KAAW21BPN3	25KAAW21BPN6	25KAAW21BPN8
 Female Thread	G 1/4	19		55	10		23			blank	25KAIW13BPX0	25KAIW13BPX3	25KAIW13BPX6	25KAIW13BPX8
	G 1/4	19		55	10		23			nickel plated	25KAIW13BPN0	25KAIW13BPN3	25KAIW13BPN6	25KAIW13BPN8
	G 3/8	19		55	9		23			blank	25KAIW17BPX0	25KAIW17BPX3	25KAIW17BPX6	25KAIW17BPX8
	G 3/8	19		55	9		23			nickel plated	25KAIW17BPN0	25KAIW17BPN3	25KAIW17BPN6	25KAIW17BPN8
	G 1/2	24		58	12		23			blank	25KAIW21BPX0	25KAIW21BPX3	25KAIW21BPX6	25KAIW21BPX8
	G 1/2	24		58	12		23			nickel plated	25KAIW21BPN0	25KAIW21BPN3	25KAIW21BPN6	25KAIW21BPN8
 Hose Barb	6 mm	19		74	25		23			blank	25KATF06BPX0	25KATF06BPX3	25KATF06BPX6	25KATF06BPX8
	6 mm	19		74	25		23			nickel plated	25KATF06BPN0	25KATF06BPN3	25KATF06BPN6	25KATF06BPN8
	9 mm	19		74	25		23			blank	25KATF09BPX0	25KATF09BPX3	25KATF09BPX6	25KATF09BPX8
	9 mm	19		74	25		23			nickel plated	25KATF09BPN0	25KATF09BPN3	25KATF09BPN6	25KATF09BPN8
	13 mm	19		74	25		23			blank	25KATF13BPX0	25KATF13BPX3	25KATF13BPX6	25KATF13BPX8
	13 mm	19		74	25		23			nickel plated	25KATF13BPN0	25KATF13BPN3	25KATF13BPN6	25KATF13BPN8
 with Plastic Hose Connection	6 x 8 mm	19		61	7	6	23		M12x1	blank	25KAKO08BPX0	25KAKO08BPX3	25KAKO08BPX6	25KAKO08BPX8
	6 x 8 mm	19		61	7	6	23		M12x1	nickel plated	25KAKO08BPN0	25KAKO08BPN3	25KAKO08BPN6	25KAKO08BPN8
	8 x 10 mm	19		65	9	8	23		M16x1	blank	25KAKO10BPX0	25KAKO10BPX3	25KAKO10BPX6	25KAKO10BPX8
	8 x 10 mm	19		65	9	8	23		M16x1	nickel plated	25KAKO10BPN0	25KAKO10BPN3	25KAKO10BPN6	25KAKO10BPN8

⚠ Please consider our security advices on the pages 12/13 ⚠

Plugs – without valve

Series 26SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Version	Part Number	Part Number	Part Number	Part Number
 Male Thread	G 1/4	17		36,5	9					blank	26SFAW13MXX0	26SFAW13MXX3	26SFAW13MXX6	26SFAW13MXX8
	G 1/4	17		36,5	9					nickel plated	26SFAW13MXN0	26SFAW13MXN3	26SFAW13MXN6	26SFAW13MXN8
	G 3/8	19		41,5	12					blank	26SFAW17MXX0	26SFAW17MXX3	26SFAW17MXX6	26SFAW17MXX8
	G 3/8	19		41,5	12					nickel plated	26SFAW17MXN0	26SFAW17MXN3	26SFAW17MXN6	26SFAW17MXN8
 Female Thread	G 1/4	17		36,5	8					blank	26SFIW13MXX0	26SFIW13MXX3	26SFIW13MXX6	26SFIW13MXX8
	G 1/4	17		36,5	8					nickel plated	26SFIW13MXN0	26SFIW13MXN3	26SFIW13MXN6	26SFIW13MXN8
	G 3/8	19		36,5	8					blank	26SFIW17MXX0	26SFIW17MXX3	26SFIW17MXX6	26SFIW17MXX8
	G 3/8	19		36,5	8					nickel plated	26SFIW17MXN0	26SFIW17MXN3	26SFIW17MXN6	26SFIW17MXN8
 Hose Barb	6 mm			50,5	25		15			blank	26SFTF06MXX0	26SFTF06MXX3	26SFTF06MXX6	26SFTF06MXX8
	6 mm			50,5	25		15			nickel plated	26SFTF06MXN0	26SFTF06MXN3	26SFTF06MXN6	26SFTF06MXN8
	9 mm			50,5	25		15			blank	26SFTF09MXX0	26SFTF09MXX3	26SFTF09MXX6	26SFTF09MXX8
	9 mm			50,5	25		15			nickel plated	26SFTF09MXN0	26SFTF09MXN3	26SFTF09MXN6	26SFTF09MXN8
	13 mm			50,5	25		15			blank	26SFTF13MXX0	26SFTF13MXX3	26SFTF13MXX6	26SFTF13MXX8
	13 mm			50,5	25		15			nickel plated	26SFTF13MXN0	26SFTF13MXN3	26SFTF13MXN6	26SFTF13MXN8
 with Plastic Hose Connection	6 x 8 mm			43,5	7	6	15		M12x1	blank	26SFKO08MXX0	26SFKO08MXX3	26SFKO08MXX6	26SFKO08MXX8
	6 x 8 mm			43,5	7	6	15		M12x1	nickel plated	26SFKO08MXN0	26SFKO08MXN3	26SFKO08MXN6	26SFKO08MXN8
	8 x 10 mm	17		43,5	8,5	8,5			M16x1	blank	26SFKO10MXX0	26SFKO10MXX3	26SFKO10MXX6	26SFKO10MXX8
	8 x 10 mm	17		43,5	8,5	8,5			M16x1	nickel plated	26SFKO10MXN0	26SFKO10MXN3	26SFKO10MXN6	26SFKO10MXN8
 Panel Mount with Hose Barb	6 mm	17	17	60	17	14		4	M12x1	blank	26SFTS06MXX0	26SFTS06MXX3	26SFTS06MXX6	26SFTS06MXX8
	6 mm	17	17	60	17	14		4	M12x1	nickel plated	26SFTS06MXN0	26SFTS06MXN3	26SFTS06MXN6	26SFTS06MXN8

⚠ Please consider our security advices on the pages 12/13 ⚠

Nominal Diameter

7,4 = 42 mm²

Rectus Series

65-67



Technical Description
Quick connect coupling system with coding developed specifically for use with fuel gas and oxygen on pressure regulators / welding torches etc. Our „RectuKey“ coding system prevents mixing up media. Up to three different media can be safely (non-interchangeable) connected with the standard version.

Working Temperature*
-20°C up to +100°C (NBR)
depending on the medium.

* For temperatures below -20°C and over +100°C and depending on the medium, other seal variants (FKM, EPDM, FFKM) are available.

KS Single Shut-Off

Working Pressure**

35 bar

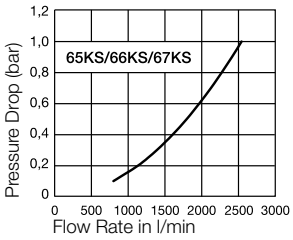
** maximum static working pressure with safety factor 4 to 1.

Material

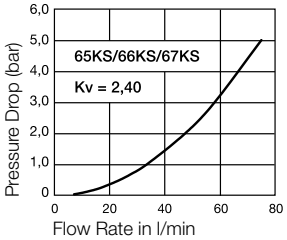
Coupling: Brass ungreased
Plug: Brass ungreased
Seals: FKM or EPDM

Flow diagrams

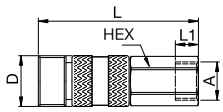
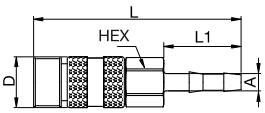
Air



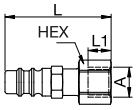
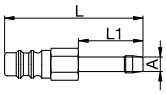
Water



Couplings – with valve — Series 65-67KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Seal	Version	Part Number
 Female Thread	G 1/4 right	19		69,5	10		22		FKM	Oxygen	65KSIW13MVX
	G 3/8 right	19		69,5	9		22		FKM	Oxygen	65KSIW17MVX
	G 1/4 left	19		69,5	10		22		EPDM	Fuel gas	66KSIL13MEX
	G 3/8 left	19		69,5	10		22		EPDM	Fuel gas	66KSIL17MEX
	G 1/4 left	19		69,5	10		22		FKM	Var. Media	67KSIL13MVX
	G 3/8 left	19		69,5	10		22		FKM	Var. Media	67KSIL17MVX
 Hose Barb	6 mm	19		90	33		22		FKM	Oxygen	65KSTF06MVX
	9 mm	19		90	33		22		FKM	Oxygen	65KSTF09MVX
	6 mm	19		90	33		22		EPDM	Fuel gas	66KSTF06MEX
	9 mm	19		90	33		22		EPDM	Fuel gas	66KSTF09MEX
	6 mm	19		90	33		22		FKM	Var. Media	67KSTF06MVX
	9 mm	19		90	33		22		FKM	Var. Media	67KSTF09MVX

Plugs – without valve — Series 65-67KS

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Seal	Version	Part Number
 Female Thread	G 1/4 right	17		46	10					Oxygen	65SSIW13MXX
	G 3/8 right	19		46	10					Oxygen	65SSIW17MXX
	G 1/4 left	17		46	10					Fuel gas	66SSIL13MXX
	G 3/8 left	19		46	10					Fuel gas	66SSIL17MXX
	G 1/4 left	17		46	10					Var. Media	67SSIL13MXX
	G 3/8 left	19		46	10					Var. Media	67SSIL17MXX
 Hose Barb	6 mm			60	28					Oxygen	65SSTF06MXX
	9 mm			60	28					Oxygen	65SSTF09MXX
	6 mm			60	28					Fuel gas	66SSTF06MXX
	9 mm			60	28					Fuel gas	66SSTF09MXX
	6 mm			60	28					Var. Media	67SSTF06MXX
	9 mm			60	28					Var. Media	67SSTF09MXX

⚠ Please consider our security advices on the pages 12/13 ⚠

Accessories

Components

Threaded Nut

Connection A	Hex mm	L mm	Version	Part Number
G 1/8 right	12	11	Brass	UR10
G 1/8 right	12	11	AISI 303	UR10R
G 1/4 right	17	15,5	Brass	UR13
G 1/4 right	17	15,5	AISI 303	UR13R
G 1/4 right	17	15,5	AISI 316 L	UR13E
G 3/8 right	19	16,5	Brass	UR17
G 3/8 right	19	14,5	Brass	UR17S ***
G 3/8 right	19	16,5	AISI 303	UR17R
G 3/8 right	19	16,5	AISI 316 L	UR17E
G 1/4 r. f. 9 mm	17	15,5	Brass	UR13/9 *
G 1/4 r. f. 9 mm	17	15,5	AISI 303	UR13/9R *
G 1/2 right	24	20,5	Brass	UR21
G 1/2 right	24	20,5	AISI 303	UR21R
G 1/2 right	24	20,5	AISI 316 L	UR21E
G 1/4 left	17	15,5	Brass	UL13
G 1/4 left	17	15,5	AISI 303	UL13R
G 3/8 left	19	16,5	Brass	UL17 **
G 3/8 left	19	16,5	AISI 303	UL17R
G 3/8 left	19	16,5	AISI 316 L	UL17E
G 1/2 left	24	20,5	Brass	UL21



DIN EN 560
(left handed thread marked)

* only for STP13/09
** only to use with Male x Male Nipples marked
*** shortened version, useable for all sizes

Hose Tail, short

Connection A	Hex mm	L mm	Version	Part Number
4 mm for G 1/8		27,5	Brass	STP10/04
4 mm for G 1/8		27,5	AISI 303	STP10/04R
6 mm for G 1/8		28	Brass	STP10/06
6 mm for G 1/8		28	AISI 303	STP10/06R
4 mm for G 1/4		30,5	Brass	STP13/04
4 mm for G 1/4		30,5	AISI 303	STP13/04R
6 mm for G 1/4		35,5	Brass	STP13/06
6 mm for G 1/4		35,5	AISI 303	STP13/06R
6 mm for G 1/4		35,5	AISI 316 L	STP13/06E
9 mm for G 1/4		35,5	Brass	STP13/09 *
9 mm for G 1/4		35,5	AISI 303	STP13/09R *



* UR13/9 required

Hose Tail, short



* UR13/9 required

Connection A	Hex mm	L mm	Version	Part Number
4 mm for G 3/8		31	Brass	STP17/04
6 mm for G 3/8		36	Brass	STP17/06
6 mm for G 3/8		36	AISI 303	STP17/06R
6 mm for G 3/8		36	AISI 316 L	STP17/06E
9 mm for G 3/8		36	Brass	STP17/09
9 mm for G 3/8		36	AISI 303	STP17/09R
9 mm for G 3/8		36	AISI 316 L	STP17/09E
6 mm for G 1/2		38	Brass	STP21/06
9 mm for G 1/2		38	Brass	STP21/09
9 mm for G 1/2		38	AISI 303	STP21/09R
9 mm for G 1/2		38	AISI 316 L	STP21/09E
13 mm for G 1/2		44	Brass	STP21/13

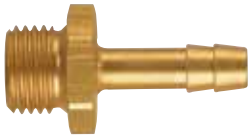
Hose Tail, long



DIN EN 560

Connection A	Hex mm	L mm	Version	Part Number
4 mm for G 1/4		47	Brass	STD13/04
6 mm for G 1/4		47	Brass	STD13/06
4 mm for G 3/8		47,5	Brass	STD17/04
6 mm for G 3/8		47,5	Brass	STD17/06
9 mm for G 3/8		47,5	Brass	STD17/09

Hose Tail Barb

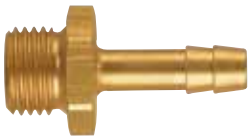


with Male Thread
(* inner cone 45°)

Connection A	Hex mm	L mm	Version	Part Number
M 5, 3 mm	7	15,5	Brass	GT05/03
M 5, 3 mm	7	15,5	AISI 303	GT05/03R
M 5, 3 mm	7	15,5	AISI 316 L	GT05/03E
M 5, 4 mm	7	15,5	Brass	GT05/04
M 5, 4 mm	7	15,5	AISI 303	GT05/04R
M 5, 4 mm	7	15,5	AISI 316 L	GT05/04E
M 6, 4 mm	8	23	Brass	GT06/04
G 1/8, 4 mm *	14	28	Brass	GT10/04
G 1/8, 4 mm *	14	28	AISI 303	GT10/04R
G 1/8, 4 mm *	14	28	AISI 316 L	GT10/04E
G 1/8, 6 mm *	14	33	Brass	GT10/06
G 1/8, 6 mm *	14	33	AISI 303	GT10/06R
G 1/8, 6 mm *	14	33	AISI 316 L	GT10/06E

⚠ Please consider our security advices on the pages 12/13 ⚠

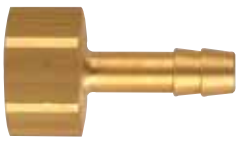
Hose Tail Barb



with Male Thread
(* inner cone 45°)

Connection A	Hex mm	L mm	Version	Part Number
G 1/8, 8 mm *	14	33	Brass	GT10/08
G 1/8, 9 mm *	14	33	Brass	GT10/09
G 1/8, 9 mm *	14	33	AISI 303	GT10/09R
G 1/8, 9 mm *	14	33	AISI 316 L	GT10/09E
G 1/4, 4 mm *	17	29,5	Brass	GT13/04
G 1/4, 4 mm *	17	29,5	AISI 303	GT13/04R
G 1/4, 4 mm *	17	29,5	AISI 316 L	GT13/04E
G 1/4, 6 mm *	17	34,5	Brass	GT13/06
G 1/4, 6 mm *	17	34,5	AISI 303	GT13/06R
G 1/4, 6 mm *	17	34,5	AISI 316 L	GT13/06E
G 1/4, 8 mm *	17	34,5	Brass	GT13/08
G 1/4, 9 mm *	17	34,5	Brass	GT13/09
G 1/4, 9 mm *	17	34,5	AISI 303	GT13/09R
G 1/4, 9 mm *	17	34,5	AISI 316 L	GT13/09E
G 1/4, 13 mm *	17	34,5	Brass	GT13/13
G 3/8, 6 mm *	19	36	Brass	GT17/06
G 3/8, 6 mm *	19	36	AISI 303	GT17/06R
G 3/8, 6 mm *	19	36	AISI 316 L	GT17/06E
G 3/8, 8 mm *	19	36	Brass	GT17/08
G 3/8, 9 mm *	19	36	Brass	GT17/09
G 3/8, 9 mm *	19	36	AISI 303	GT17/09R
G 3/8, 9 mm *	19	36	AISI 316 L	GT17/09E
G 3/8, 13 mm *	19	42	Brass	GT17/13
G 3/8, 13 mm *	19	42	AISI 303	GT17/13R
G 3/8, 13 mm *	19	42	AISI 316 L	GT17/13E
G 1/2, 6 mm *	24	39	Brass	GT21/06
G 1/2, 9 mm *	24	39	Brass	GT21/09
G 1/2, 9 mm *	24	39	AISI 303	GT21/09R
G 1/2, 9 mm *	24	39	AISI 316 L	GT21/09E
G 1/2, 13 mm *	24	45	Brass	GT21/13
G 1/2, 13 mm *	24	45	AISI 303	GT21/13R
G 1/2, 13 mm *	24	45	AISI 316 L	GT21/13E
G 3/4, 13 mm *	32	48,5	Brass	GT26/13
G 3/4, 16 mm *	32	56,5	Brass	GT26/16
G 3/4, 19 mm *	32	56,5	Brass	GT26/19
G 1, 25 mm *	36	67,5	Brass	GT33/25

Hose Tail Barb



with Female Thread

Connection A	Hex mm	L mm	Version	Part Number
G 1/8, 6 mm	12	31	Brass	GI10/06
G 1/8, 8 mm	12	31	Brass	GI10/08
G 1/4, 6 mm	17	33	Brass	GI13/06
G 1/4, 8 mm	17	33	Brass	GI13/08
G 1/4, 9 mm	17	33	Brass	GI13/09
G 1/4, 13 mm	17	39	Brass	GI13/13
G 3/8, 6 mm	19	33	Brass	GI17/06
G 3/8, 8 mm	19	33	Brass	GI17/08
G 3/8, 9 mm	19	33	Brass	GI17/09
G 3/8, 13 mm	19	40	Brass	GI17/13
G 1/2, 6 mm	24	36	Brass	GI21/06
G 1/2, 8 mm	24	36	Brass	GI21/08
G 1/2, 9 mm	24	36	Brass	GI21/09
G 1/2, 13 mm	24	43	Brass	GI21/13

Hose Repairer



* DIN EN 560
** for Hard Hoses

Connection A	Hex mm	L mm	Version	Part Number
4 mm		50	Brass	DS04/04P **
6 mm		72	Brass	DS06/06 *
8 mm		72	Brass	DS08/08 *
9 mm		72	Brass	DS09/09 *
13 mm		74	Brass	DS13/13

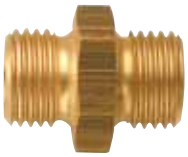
Hose Repairer, short



Connection A	Hex mm	L mm	Version	Part Number
4 mm		19	Brass	DK04/04
6 mm		19	Brass	DK06/06

⚠ Please consider our security advices on the pages 12/13 ⚠

Male x Male Nipple



Connection A	Hex mm	L mm	Version	Part Number
M 5 x M 5	7	13	Brass	DN05/05
M 5 x M 5	7	13	AISI 303	DN05/05R
M 5 x M 5	7	13	AISI 316 L	DN05/05E
M 5 x G 1/8	14	17	Brass	DN05/10
M 5 x G 1/8	14	17	AISI 303	DN05/10R
M 5 x G 1/8	14	17	AISI 316 L	DN05/10E
M 5 x G 1/4	17	18,5	Brass	DN05/13
G 1/8 x G 1/8 *	14	19	Brass	DN10/10
G 1/8 x G 1/8 *	14	19	AISI 303	DN10/10R
G 1/8 x G 1/8 *	14	19	AISI 316 L	DN10/10E
R 1/8 x R 1/8 con.	12	21	Brass	DN10/10K
G 1/8 x G 1/4 *	17	19,5	Brass	DN10/13
G 1/8 x G 1/4 *	17	19,5	AISI 303	DN10/13R
G 1/8 x G 1/4 *	17	19,5	AISI 316 L	DN10/13E
G 1/8 x G 3/8 **	19	21	Brass	DN10/17
G 1/4 x G 1/4 *	17	22	Brass	DN13/13
G 1/4 x G 1/4 *	17	22	AISI 303	DN13/13R
G 1/4 x G 1/4 *	17	22	AISI 316 L	DN13/13E
R 1/4 x R 1/4 con.	14	30	Brass	DN13/13K
G 1/4 x G 3/8 **	19	22,5	Brass	DN13/17
G 1/4 x G 3/8 **	19	22,5	AISI 303	DN13/17R
G 1/4 x G 3/8 **	19	22,5	AISI 316 L	DN13/17E
G 1/4 x G 3/8 ext. **	19	24,5	Brass	DN13/17V
G 1/4 x G 1/2 *	24	25,5	Brass	DN13/21
G 3/8 x G 3/8 **	19	23	Brass	DN17/17
G 3/8 x G 3/8 **	19	23	AISI 303	DN17/17R
G 3/8 x G 3/8 **	19	23	AISI 316 L	DN17/17E
G 3/8 x G 3/8 ext. **	19	27	Brass	DN17/17V
R 3/8 x R 3/8 con.	17	30	Brass	DN17/17K
G 3/8 x G 1/2 **	24	26	Brass	DN17/21
G 3/8 x G 1/2 **	24	26	AISI 303	DN17/21R
G 3/8 x G 1/2 **	24	26	AISI 316 L	DN17/21E
G 3/8 x G 3/4 **	32	29,5	Brass	DN17/26
G 1/2 x G 1/2 *	24	28	Brass	DN21/21
G 1/2 x G 1/2 *	24	28	AISI 303	DN21/21R
G 1/2 x G 1/2 *	24	28	AISI 316 L	DN21/21E
R 1/2 x R 1/2 con.	22	34	Brass	DN21/21K
G 1/2 x G 3/4 *	32	31,5	Brass	DN21/26
G 1/2 x G 1 *	36	36,5	Brass	DN21/33

* Inner Cone 45°
** Inner Cone 45°, useable only together with Threated Nut UR17S
*** Inner Cone 45°, useable with Threated Nut UR17

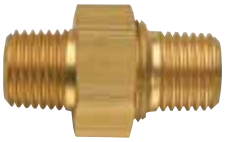
Male x Male Nipple



* Inner Cone 45°
** Inner Cone 45°, useable only together with Threated Nut UR17S
*** Inner Cone 45°, useable with Threated Nut UR17

Connection A	Hex mm	L mm	Version	Part Number
G 3/4 x G 3/4 *	32	33	Brass	DN26/26
G 3/4 x G 1 *	36	34	Brass	DN26/33
G 1 x G 1 *	36	37	Brass	DN33/33
G 1/4 l. x G 1/4 l. *	14	34	Brass	DN13/13L
G 1/4 l. x G 3/8 l. *	17	35,5	Brass	DN13/17L
G 3/8 l. x G 3/8 l. *	17	37	Brass	DN17/17L

Male x Male Nipple adjustable



Connection A	Hex mm	L mm	Version	Part Number
R 1/8 x R 1/8	15	27	Brass	LD10/10K
R 1/4 x R 1/4	19	34	Brass	LD13/13K
R 3/8 x R 3/8	22	37	Brass	LD17/17K
R 1/2 x R 1/2	27	44,5	Brass	LD21/21K
R 3/4 x R 3/4	36	53	Brass	LD26/26K
R 1 x R 1	46	64	Brass	LD33/33K

Reducing Bush, short



Connection A	Hex mm	L mm	Version	Part Number
M 5 i. x G 1/8 o.	14	11	Brass	RK05/10
M 5 i. x G 1/8 o.	14	11	AISI 303	RK05/10R
M 5 i. x G 1/8 o.	14	11	AISI 316 L	RK05/10E
M 5 i. x G 1/4 o.	17	12,5	Brass	RK05/13
G 1/8 i. x G 1/4 o.	17	12,5	Brass	RK10/13
G 1/8 i. x G 1/4 o.	17	12,5	AISI 303	RK10/13R
G 1/8 i. x G 1/4 o.	17	12,5	AISI 316 L	RK10/13E
G 1/8 i. x G 3/8 o.	19	13	Brass	RK10/17
G 1/8 i. x G 1/2 o.	24	17	Brass	RK10/21
G 1/4 i. x G 3/8 o.	19	14	Brass	RK13/17
G 1/4 i. x G 3/8 o.	19	14	AISI 303	RK13/17R
G 1/4 i. x G 3/8 o.	19	14	AISI 316 L	RK13/17E
G 1/4 i. x G 1/2 o.	24	17	Brass	RK13/21
G 3/8 i. x G 1/2 o.	24	17	Brass	RK17/21
G 3/8 i. x G 1/2 o.	24	17	AISI 303	RK17/21R
G 3/8 i. x G 1/2 o.	24	17	AISI 316 L	RK17/21E
G 3/8 i. x G 3/4 o.	32	18	Brass	RK17/26
G 1/2 i. x G 3/4 o.	32	20,5	Brass	RK21/26
G 1/2 i. x G 1 o.	36	21,5	Brass	RK21/33
G 3/4 i. x G 1 o.	36	21,5	Brass	RK26/33

⚠ Please consider our security advices on the pages 12/13 ⚠

Reducing Bush, long



* Inner Cone 45°

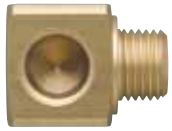
Connection A	Hex mm	L mm	Version	Part Number
M 5 o. x M 5 i.	8	15	Brass	RL05/05
M 5 o. x G 1/8 i.	14	17	Brass	RL05/10
G 1/8 o. x M 5 i.	14	17	Brass	RL10/05
G 1/8 o. x G 1/8 i. *	14	23	Brass	RL10/10
G 1/8 o. x G 1/4 i. *	17	26	Brass	RL10/13
G 1/4 o. x G 1/8 i. *	17	26	Brass	RL13/10
G 1/4 o. x G 1/4 i. *	17	28	Brass	RL13/13
G 1/4 o. x G 3/8 i. *	19	29	Brass	RL13/17
G 3/8 o. x G 1/4 i. *	19	29	Brass	RL17/13
G 3/8 o. x G 3/8 i. *	19	29	Brass	RL17/17
G 3/8 o. x G 1/2 i. *	24	32	Brass	RL17/21
G 1/2 o. x G 3/8 i. *	24	34	Brass	RL21/17
G 1/2 o. x G 1/2 i. *	24	34	Brass	RL21/21
G 1/2 o. x G 3/4 i. *	32	31	Brass	RL21/26

Female x Female Socket



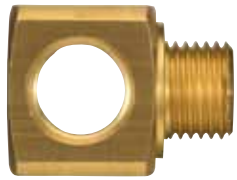
Connection A	Hex mm	L mm	Version	Part Number
M 5	8	12	Brass	MU05
M 5	8	12	AISI 303	MU05R
G 1/8	14	22	Brass	MU10
G 1/8	14	22	AISI 303	MU10R
G 1/8	14	22	AISI 316 L	MU10E
G 1/4	17	26	Brass	MU13
G 1/4	17	26	AISI 303	MU13R
G 1/4	17	26	AISI 316 L	MU13E
G 3/8	22	26	Brass	MU17
G 3/8	22	26	AISI 303	MU17R
G 3/8	22	26	AISI 316 L	MU17E
G 1/2	27	30	Brass	MU21
G 1/2	27	30	AISI 303	MU21R
G 1/2	27	30	AISI 316 L	MU21E
G 3/4	32	36	Brass	MU26
G 1	41	40	Brass	MU33

90° Elbow



Connection A	Hex mm	L mm	Version	Part Number
M 5		10	Brass	WS05
M 5		10	Aluminium elox.	WS05A
G 1/8		16	Brass	WS10
G 1/8		16	Aluminium elox.	WS10A
G 1/4		22	Brass	WS13
G 1/4		22	Aluminium elox.	WS13A
G 3/8		27	Brass	WS17
G 3/8		27	Aluminium elox.	WS17A

Tee



Connection A	Hex mm	L mm	Version	Part Number
M 5	10		Brass	TK05
M 5	10		Aluminium elox.	TK05A
G 1/8	15		Brass	TK10
G 1/8	16		Aluminium elox.	TK10A
G 1/4	22		Brass	TK13
G 1/4	22		Aluminium elox.	TK13A
G 3/8	27		Brass	TK17
G 3/8	27		Aluminium elox.	TK17A

4 Port Manifold



Connection A	Hex mm	L mm	Version	Part Number
G 1/8	30		Aluminium	VB10
G 1/4	36		Aluminium	VB13
G 3/8	43		Aluminium	VB17
G 1/2	52		Aluminium	VB21

⚠ Please consider our security advices on the pages 12/13 ⚠

Multi-Port Manifold



Connection A	Hex mm	1 Entry	9 Exit	Version	Part Number
G 1/8 x M 5	20	G 1/8	M 5	Aluminium elox.	VL10/05
G 3/8 x G 1/8	30	G 3/8	G 1/8	Aluminium elox.	VL17/10
G 1/2 x G 1/4	36	G 1/2	G 1/4	Aluminium elox.	VL21/13

Bulkhead Lock Nut



Connection A	Hex mm	L mm	Version	Part Number
G 1/8	15		Brass	KM10W
G 1/4	17		Brass	KM13W
G 3/8	22		Brass	KM17W
G 1/2	27		Brass	KM21W
G 3/4	30		Brass	KM26W
M 6 x 0,75	9		Brass	KM06M
M 8 x 1	12		Brass	KM08M
M 10 x 1	12		Brass	KM10M
M 12 x 1	17		Brass	KM12M
M 14 x 1	19		Brass	KM14M

Blanking Plug



Socket Pipe
(DIN 908)

Connection A	Hex mm	L mm	Version	Part Number
M 5 (head pipe)	8	8	Brass	VZ05
M 5 (head pipe.)	8	8	AISI 303	VZ05R
G 1/8	5	11	Brass	VZ10
G 1/8	5	11	AISI 303	VZ10R
G 1/8	5	11	AISI 316 L	VZ10E
G 1/4	6	15	Brass	VZ13
G 1/4	6	15	AISI 303	VZ13R
G 1/4	6	15	AISI 316 L	VZ13E
G 3/8	8	15	Brass	VZ17
G 3/8	8	15	AISI 303	VZ17R
G 3/8	8	15	AISI 316 L	VZ17E
G 1/2	10	18	Brass	VZ21
G 1/2	10	18	AISI 303	VZ21R
G 1/2	10	18	AISI 316 L	VZ21E
G 3/4	12	20	Brass	VZ26

Blanking Plug



Tapered, with Socket Pipe (DIN 906)

Connection A	Hex mm	L mm	Version	Part Number
R 1/8	5		Brass	VK10
R 1/4	7		Brass	VK13
R 3/8	8		Brass	VK17

Washer, PVC



Connection A	Hex mm	L mm	Version	Part Number
for M 5				PD05
for G 1/8				PD10
for G 1/4				PD13
for G 3/8				PD17
for G 1/2				PD21
for G 3/4				PD26

Washer, Fiber



Connection A	Hex mm	L mm	Version	Part Number
for M 5				FD05
for G 1/8				FD10
for G 1/4				FD13
for G 3/8				FD17
for G 1/2				FD21
for G 3/4				FD26

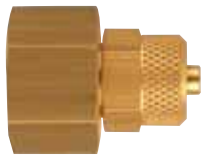
Washer, Aluminium



Connection A	Hex mm	L mm	Version	Part Number
for G 1/8				AD10
for G 1/4				AD13
for G 3/8				AD17
for G 1/2				AD21
for G 3/4				AD26
for G 1				AD33

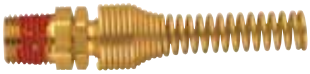
⚠ Please consider our security advices on the pages 12/13 ⚠

Female Stud Fitting



Connection A	Hex mm	L mm	Version	Part Number
G 1/8, 4 x 6 mm	14	23	Brass	MV10/06
G 1/4, 4 x 6 mm	17	25	Brass	MV13/06
G 1/4, 6 x 8 mm	17	25	Brass	MV13/08
G 1/4, 8 x 10 mm	17	29	Brass	MV13/10
G 3/8, 6 x 8 mm	19	25	Brass	MV17/08
G 3/8, 8 x 10 mm	19	29	Brass	MV17/10

Swivelling Spring Guard



Connection A	Hex mm	L mm	Version	Part Number
R 1/8, 3,1 x 4,7 mm	11		Brass	DV10/05
R 1/4, 4,8 x 6,3 mm	14		Brass	DV13/06
R 1/4, 6,3 x 7,9 mm	14		Brass	DV13/08
R 1/4, 7,9 x 9,5 mm	15		Brass	DV13/10
R 3/8, 9,5 x 11,8 mm	19		Brass	DV17/12
R 1/2, 12,7 x 15,8 mm	22		Brass	DV21/16

Equal Ended Tee



Connection A	Hex mm	L mm	Version	Part Number
4 x 6 mm			Brass	TSK06
6 x 8 mm			Brass	TSK08
8 x 10 mm			Brass	TSK10

Equal Ended Cross



Connection A	Hex mm	L mm	Version	Part Number
4 x 6 mm			Brass	KS06
6 x 8 mm			Brass	KS08
8 x 10 mm			Brass	KS10

Equal Ended Cross



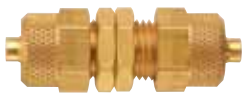
Connection A	Hex mm	L mm	Version	Part Number
G 1/8	19		AISI 316	VB10E
G 1/4	19		AISI 316	VB13E
G 3/8	20		AISI 316	VB17E
G 1/2	23		AISI 316	VB21E
G 3/4	25		AISI 316	VB26E
G 1	29		AISI 316	VB33E

Swivelling Single Banjo Fitting



Connection A	Hex mm	L mm	Version	Part Number
M 5, 3 x 4 mm	8	18,5	Brass	WV05/04
M 5, 3 x 5 mm	8	18,5	Brass	WV05/05
M 5, 4 x 6 mm	8	18,5	Brass	WV05/06
G 1/8, 4 x 6 mm	14	28	Brass	WV10/06
G 1/8, 6 x 8 mm	14	28	Brass	WV10/08
G 1/4, 4 x 6 mm	17	33	Brass	WV13/06
G 1/4, 6 x 8 mm	17	33	Brass	WV13/08
G 1/4, 8 x 10 mm	17	33	Brass	WV13/10

Bulkhead Fitting



Connection A	Hex mm	L mm	Version	Part Number
3 x 4 mm	11	34	Brass	SC05/04
3 x 5 mm	11	34	Brass	SC05/05
4 x 6 mm	12	38	Brass	SC10/06
6 x 8 mm	17	46	Brass	SC10/08
8 x 10 mm	19	46	Brass	SC14/10

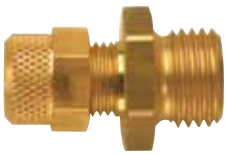
⚠ Please consider our security advices on the pages 12/13 ⚠

Hose Tail Elbow, Swivelling



Connection A	Hex mm	L mm	Version	Part Number
M 5, f. LW 3 mm	8	18,5	Brass	WT05/03
M 5, f. LW 4 mm	8	18,5	Brass	WT05/04

Stud Fitting



* Inner Cone 45°

Connection A	Hex mm	L mm	Version	Part Number
M 5, 3 x 4 mm	7	20	Brass	EV05/04
M 5, 3 x 5 mm	7	20	Brass	EV05/05
M 5, 3 x 5 mm	7	20	AISI 303	EV05/05R
M 5, 3 x 5 mm	7	20	AISI 316 L	EV05/05E
M 5, 4 x 6 mm	8	21	Brass	EV05/06
M 5, 4 x 6 mm	8	21	AISI 303	EV05/06R
M 5, 4 x 6 mm	8	21	AISI 316 L	EV05/06E
G 1/8, 4 x 6 mm	12	25	Brass	EV10/06
G 1/8, 4 x 6 mm	12	25	AISI 303	EV10/06R
G 1/8, 4 x 6 mm	12	25	AISI 316 L	EV10/06E
G 1/8, 6 x 8 mm	14	24	Brass	EV10/08
G 1/8, 6 x 8 mm	14	24	AISI 303	EV10/08R
G 1/8, 6 x 8 mm	14	24	AISI 316 L	EV10/08E
G 1/4, 4 x 6 mm	17	26	Brass	EV13/06
G 1/4, 4 x 6 mm	17	26	AISI 303	EV13/06R
G 1/4, 4 x 6 mm	17	26	AISI 316 L	EV13/06E
G 1/4, 6 x 8 mm	17	26	Brass	EV13/08
G 1/4, 6 x 8 mm	17	26	AISI 303	EV13/08R
G 1/4, 6 x 8 mm	17	26	AISI 316 L	EV13/08E
G 1/4, 8 x 10 mm	17	31	Brass	EV13/10
G 1/4, 9 x 12 mm	17	31	Brass	EV13/12
G 1/4, 9 x 12 mm	17	31	AISI 303	EV13/12R
G 3/8, 6 x 8 mm *	19	27	Brass	EV17/08
G 3/8, 8 x 10 mm *	19	31	Brass	EV17/10
G 3/8, 8 x 10 mm *	19	31	AISI 303	EV17/10R
G 3/8, 9 x 12 mm *	19	31	Brass	EV17/12
G 3/8, 9 x 12 mm *	19	31	AISI 303	EV17/12R

Fixed Spring Guard



with Spring Guard

* Inner Cone 45°

Connection A	Hex mm	L mm	Version	Part Number
M 5, 4 x 6 mm	8	103	Brass	SV05/06
G 1/8, 4 x 6 mm	12	103	Brass	SV10/06
G 1/8, 6 x 8 mm	12	106	Brass	SV10/08
G 1/4, 4 x 6 mm	17	103	Brass	SV13/06
G 1/4, 6 x 8 mm	17	106	Brass	SV13/08
G 1/4, 8 x 10 mm	17	119	Brass	SV13/10
G 1/4, 9 x 12 mm	17	123	Brass	SV13/12
G 3/8, 6 x 8 mm *	19	106	Brass	SV17/08
G 3/8, 8 x 10 mm *	19	119	Brass	SV17/10
G 3/8, 9 x 12 mm *	19	123	Brass	SV17/12

Male Stud Run Tee



Tapered Thread

Connection A	Hex mm	L mm	Version	Part Number
R 1/8, 4 x 6 mm			Brass	TE10/06
R 1/8, 6 x 8 mm			Brass	TE10/08
R 1/8, 8 x 10 mm			Brass	TE10/10
R 1/4, 4 x 6 mm			Brass	TE13/06
R 1/4, 6 x 8 mm			Brass	TE13/08
R 1/4, 8 x 10 mm			Brass	TE13/10

Male Stud Elbow



Tapered Thread

Connection A	Hex mm	L mm	Version	Part Number
R 1/8, 4 x 6 mm	12		Brass	WE10/06
R 1/8, 6 x 8 mm	14		Brass	WE10/08
R 1/8, 8 x 10 mm	16		Brass	WE10/10
R 1/4, 4 x 6 mm	12		Brass	WE13/06
R 1/4, 6 x 8 mm	14		Brass	WE13/08
R 1/4, 8 x 10 mm	16		Brass	WE13/10



with Spring Guard
Tapered Thread

Connection A	Hex mm	L mm	Version	Part Number
R 1/8, 4 x 6 mm	12	107	Brass	WK10/06
R 1/8, 6 x 8 mm	14	112	Brass	WK10/08
R 1/8, 8 x 10 mm	17	125	Brass	WK10/10
R 1/4, 4 x 6 mm	12	109	Brass	WK13/06
R 1/4, 6 x 8 mm	14	114	Brass	WK13/08
R 1/4, 8 x 10 mm	17	127	Brass	WK13/10

⚠ Please consider our security advices on the pages 12/13 ⚠

Spring Guard



completely with Tube Nut

Connection A	Hex mm	L mm	Version	Part Number
(M 10 x 1) 4 x 6 mm	12	94	Brass	KN06
(M 12 x 1) 6 x 8 mm	14	97	Brass	KN08
(M 16 x 1) 8 x 10 mm	17	110	Brass	KN10
(M 16 x 1) 9 x 12 mm	17	114	Brass	KN12

Tube Nut



for Plastic Hoses

Connection A	Hex mm	L mm	Version	Part Number
(M 7 x 0,5) 3 x 4 mm		8,5	Brass	SM04
(M 7 x 0,5) 3 x 5 mm		8,5	Brass	SM05
(M 10 x 1) 4 x 6 mm	12	11	Brass	SM06
(M 12 x 1) 6 x 8 mm	14	11	Brass	SM08
(M 14 x 1) 8 x 10 mm	17	12,5	Brass	SM10S
(M 16 x 1) 8 x 10 mm	17	12,5	Brass	SM10
(M 16 x 1) 9 x 12 mm	17	12,5	Brass	SM12

Female Tee



* without Inner Cone
** with Inner Cone

Connection A	Hex mm	L mm	Version	Part Number
R 1/8 o.	10	37	Brass	TA10 *
R 1/4 o.	13	47	Brass	TA13 *
R 3/8 o.	17	52	Brass	TA17 *
R 1/2 o.	19	60	Brass	TA21 **



Connection A	Hex mm	L mm	Version	Part Number
G 1/8		34	Brass	TI10
G 1/8		28	AISI 316	TI10E
G 1/4		38,5	Brass	TI13
G 1/4		35	AISI 316	TI13E
G 3/8		44	Brass	TI17
G 3/8		43	AISI 316	TI17E
G 1/2		44	Brass	TI21
G 1/2		49	AISI 316	TI21E
G 3/4		50	Brass	TI26
G 3/4		59	AISI 316	TI26E
G 1		64,5	Brass	TI33

Male Elbow

	Connection A	Hex mm	L mm	Version	Part Number
 * without Inner Cone ** with Inner Cone	R 1/8 o.	10	23	Brass	WA10 *
	R 1/4 o.	13	30	Brass	WA13 *
	R 3/8 o.	17	33,5	Brass	WA17 *
	R 1/2 o.	19	39	Brass	WA21 **
 with Inner Cone	G 1/8		25	Brass	WI10
	G 1/8		22	AISI 316	WI10E
	G 1/4		29	Brass	WI13
	G 1/4		27	AISI 316	WI13E
	G 3/8		35	Brass	WI17
	G 3/8		32	AISI 316	WI17E
	G 1/2		40	Brass	WI21
	G 1/2		40	AISI 316	WI21E
	G 3/4		47	Brass	WI26
	G 3/4		48	AISI 316	WI26E
	G 1		55	Brass	WI33
 Female Thread Male Thread	G 1/8		26	AISI 316	WAI10E
	G 1/4		28	AISI 316	WAI13E
	G 3/8		32	AISI 316	WAI17E
	G 1/2		37	AISI 316	WAI21E
	G 3/4		43	AISI 316	WAI26E

Female Y

	Connection A	Hex mm	L mm	Version	Part Number
 2x Female Thread 1x Male Thread con.	R 1/8 o., G 1/8 i.	13		Brass	YA10
	R 1/4 o., G 1/4 i.	17		Brass	YA13
	R 3/8 o., G 3/8 i.	20		Brass	YA17
	R 1/2 o., G 1/2 i.	25		Brass	YA21
 3x Female Thread	G 1/8	13		Brass	YI10
	G 1/4	17		Brass	YI13
	G 3/8	20		Brass	YI17
	G 1/2	25		Brass	YI21

⚠ Please consider our security advices on the pages 12/13 ⚠

2 Way Manifold

	Connection A	Hex mm	L mm	Version	Part Number
	G 3/8 i.		47	Brass	ZO17
	G 1/2 i.		55	Brass	ZO21
 with Couplings Series 26KA	G 1/4 o.			Brass	ZM13A
	G 3/8 o.			Brass	ZM17A
	G 1/2 o.			Brass	ZM21A
	G 1/4 i.			Brass	ZM13I
	G 3/8 i.			Brass	ZM17I
	G 1/2 i.			Brass	ZM21I

3 Way Manifold

	Connection A	Hex mm	L mm	Version	Part Number
	G 3/8 i.		61	Brass	DO17
	G 1/2 i.		67	Brass	DO21
 with Couplings Series 26KA	G 1/4 o.			Brass	DM13A
	G 3/8 o.			Brass	DM17A
	G 1/2 o.			Brass	DM21A
	G 1/4 i.			Brass	DM13I
	G 3/8 i.			Brass	DM17I
	G 1/2 i.			Brass	DM21I

Manifold Assembly

	Connection A	Hex mm	L mm	Version	Part Number
	G 3/8 i.			Brass	WD17-26
	G 1/2 i.			Brass	WD21-26

Manifold



Connection A	Hex mm	L mm	Version	Part Number
G 3/8 i.			Aluminium elox.	WD17
G 1/2 i.			Aluminium elox.	WD21

Pressure Reducing Valve



Connection A	Hex mm	L mm	max. Supply Pressure	Const. Supply Pressure	Version	Part Number
G 1/4 i. x G 1/4 o.	17	34	12 bar	3,0 bar	Brass	DRV13/30
G 1/4 i. x G 1/4 o.	17	34	12 bar	4,0 bar	Brass	DRV13/40
G 1/4 i. x G 1/4 o.	17	34	12 bar	5,0 bar	Brass	DRV13/50
G 1/4 i. x G 1/4 o.	17	34	12 bar	6,0 bar	Brass	DRV13/60

Swivel Joint



Connection A	Hex mm	L mm	Version	Part Number
G 1/4 i. x G 1/4 o.	17	52	Steel, nickel plated	FA13A13ISPN
G 3/8 i. x G 3/8 o.	21	58	Steel, nickel plated	FA17A17ISPN

Dust Protection



Version	Material	Flame Resistance	Temperature Range	Color	Part Number
universal	Thermo Flex	UL-VO	-25 up to 120°C	blue	SK12S
universal	Euro Flex	UL-VO	-25 up to 120°C	red	SK16S
universal	Thermo Flex	UL-VO	-25 up to 120°C	blue	SK23S
universal	Thermo Flex	UL-VO	-25 up to 120°C	blue	SK27S
for Coupling	PVC			red	1315-QC
for Coupling	PVC			red	2315-QC
for Coupling	PVC			blue	10026
for Plug	PVC			red	1325-QC
for Plug	PVC			red	125-QC
for Plug	PVC			red	5026-QC

⚠ Please consider our security advices on the pages 12/13 ⚠

Accessories

Blow-Guns

AJ13-Set in Display Box



Connection	Extension Tube	Part Number
Female Thread G 1/4	6 mm bent	AJ13/06SET
Female Thread G 1/4	8 mm bent	AJ13/08SET

10x AJ13 in display box

AK13-Set in Display Box



Connection	Extension Tube	Part Number
Female Thread G 1/4		AK13SET

10x AK13 in display box

Blow-Guns



made of aluminium,
with standard nozzle

Connection	Extension Tube	Part Number
Female Thread G 1/4		AA13
Hose Barb 6 mm		AA06TF
Hose Barb 9 mm		AA09TF
Plug Series 21		AA21SF
Plug Series 26		AA26SF

Blow-Guns

	Connection	Extension Tube	Part Number
 made of aluminium, with safety nozzle	Female Thread G 1/4		AS13
	Hose Barb 6 mm		AS06TF
	Hose Barb 9 mm		AS09TF
	Plug Series 21		AS21SF
	Plug Series 26		AS26SF
 made of aluminium, with sintered metal insert	Female Thread G 1/4		AR13
 made of aluminium, with extension tube	Female Thread G 1/4		AV13
	Hose Barb 6 mm		AV06TF
	Hose Barb 9 mm		AV09TF
	Plug Series 21		AV21SF
	Plug Series 26		AV26SF
 made of aluminium, with Venturi nozzle	Female Thread G 1/4		AT13
	Hose Barb 6 mm		AT06TF
	Hose Barb 9 mm		AT09TF
	Plug Series 21		AT21SF
	Plug Series 26		AT26SF

Blow tap

	Connection	Extension Tube	Part Number
 made of aluminium, lever operated with safety nozzle	Female Thread 1/4" NPSF		ASG-1

⚠ Please consider our security advices on the pages 12/13 ⚠

Blow-Guns

	Connection	Extension Tube	Part Number
 made of impact resistant plastic, with fixed standard nozzle, impossible to replace	Female Thread G 1/4		AN13
	Hose Barb 6 mm		AN06TF
	Hose Barb 9 mm		AN09TF
	Plug Series 21		AN21SF
	Plug Series 26		AN26SF
 made of impact resistant plastic, with fixed safety nozzle, impossible to replace	Female Thread G 1/4		AL13
	Hose Barb 6 mm		AL06TF
	Hose Barb 9 mm		AL09TF
	Plug Series 21		AL21SF
	Plug Series 26		AL26SF
 made of impact resistant plastic with sintered metal insert	Female Thread G 1/4		AF13
 made of impact resistant plastic with aluminium extension tube fixed nozzle, impossible to replace	Female Thread G 1/4		AK13
	Hose Barb 6 mm		AK06TF
	Hose Barb 9 mm		AK09TF
	Plug Series 21		AK21SF
	Plug Series 26		AK26SF
 made of impact resistant plastic extension tube brass nickel plated with a star tip nozzle - meets OSHA standards - light weight - rugged extension tube	Female Thread G 1/4		AZ13
	Plug Series 26		AZ26SF

Blow-Guns

	Connection	Extension Tube	Part Number
 made of impact resistant plastic, extension tube brass nickel plated - rugged extension tube	Female Thread G 1/4		AC13
	Hose Barb 6 mm		AC06TF
	Hose Barb 9 mm		AC09TF
	Plug Series 21		AC21SF
	Plug Series 26		AC26SF
 made of impact resistant plastic, with Venturi nozzle	Female Thread G 1/4		AX13
 made of impact resistant plastic, with female thread R 1/8 (without nozzle)	Female Thread G 1/4		AI13
 made of impact resistant plastic, with female thread M 12 x 1,25 (without nozzle)	Female Thread G 1/4		AM13
 made of red impact resistant plastic, with aluminium extension tube	Female Thread G 1/4	6 mm bent	AJ13/06B
	Female Thread G 1/4	8 mm straight	AJ13/08
	Female Thread G 1/4	8 mm bent	AJ13/08B
	Female Thread G 1/4	8 x 300 mm straight	AJ13-300
	Female Thread G 1/4	8 x 500 mm straight	AJ13-500
	Female Thread G 1/4	8 x 1000 mm straight	AJ13-1000

⚠ Please consider our security advices on the pages 12/13 ⚠

Standard Nozzle

	Connection	Extension Tube	Part Number
	M 12 x 1,25		KD12
for blow-gun made of aluminium			
Collimated air jet, ideal for blowingout blind holes and work pieces			

Safety Nozzle

	Connection	Extension Tube	Part Number
	M 12 x 1,25		SD12
for blow-gun made of aluminium			
With center bore and lateral annular gap. In blowing operation a protection shield against kicking chips is formed, and noise level is clearly reduced. When the center bore is held locked, air escapes through the annular gap.			

Extension Tube, 150 mm long

	Connection	Extension Tube	Part Number
	M 12 x 1,25		VR12
for blow-gun made of aluminium			
For blowing-out deep holes and blind spots.			

Venturi-Nozzle

	Connection	Extension Tube	Part Number
	M 12 x 1,25		AT12
Energy saving as 2/3 of environmental air is aspirated due to the Venturi principle. Wide blow-out effect due to high nozzle performance. When the center bore is held locked, air escapes through the lateral holes.			

Nozzle with sintered metal insert

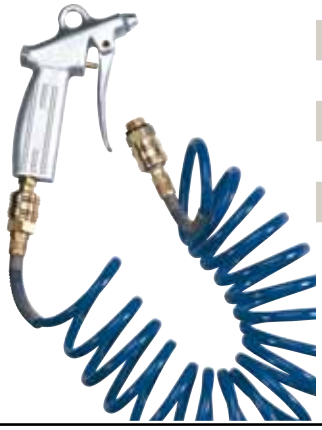
	Connection	Extension Tube	Part Number
	M 12 x 1,25		AR12
Low noise level (63-73 dB(A)), thus extremely good blowing effectivity (up to 380 l/min.)			

Protective Shield

	Connection	Extension Tube	Part Number
			ST12
Mounted behind the respective jet. Prevents shavings from rebounding.			

⚠ Please consider our security advices on the pages 12/13 ⚠

Blow-Gun Set



Version	Extension Tube	Part Number
with Blow-Gun made of aluminium		SE26A
with Blow-Gun made of impact resistant thermoplastic		SE26K

including
- Blow-Gun
- Hose 6 x 8 mm, length 2,5 m
- Couplings and plugs series 26 (DN 7,2)

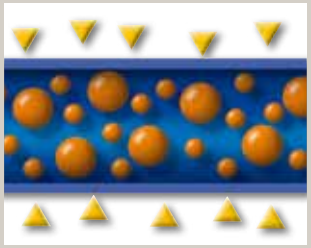
⚠ Please consider our security advices on the pages 12/13 ⚠

Hoses and tubing range

Always ideally connected.

Media

All liquid or gaseous media which flow through the hose or influence it from outside must be taken into account when choosing the hose. Chemicals can have detrimental effects (swelling, stress-cracking, etc.) on the hose materials. A prior test is therefore important. Your technical advisor will be happy to help you. For non-standard requirements, we advise you to test the hoses under operating conditions. In this way you can ensure that there are no adverse effects on the hose strength arising from extreme temperatures or chemical mixtures and the concentration thereof.



Flexibility

All thermoplastic materials are flexible up to a certain degree. Depending on the type, our hoses can therefore be used for a wide range of tasks. Ultraflexible hoses are suitable for applications with small bend radii and a high degree of movement. For example, relatively rigid or stronger tubing is the better choice for static applications with little movement but higher working pressures are required.



Flow

The flow quantity required by the attached consumer is an important criterion for hose selection. The appropriate choice of hose cross-section for the medium and flow volume is dependent on this.
As a rule of thumb: the flow rate of the hose must always be greater than the flow rate of all consumers in the circuit.



Working Pressure

From the established bursting pressure at room temperature (20°C), integration of a working pressure safety factor can be calculated. For the max. working pressure, all criteria affecting the hose when in use must be observed. The most important criteria include overload through bending and stretching, and hose fatigue caused by use, as well as maintenance of extruder tolerances and production variables. Nycoil works with the highest grade polymer materials and to the latest production standards. In order to guarantee the high standard of quality, all relevant parameters and hose characteristics are checked both during and after the production process.





Working temperature

The working temperature, i.e. the temperature range in which the hose is used, is also a major factor in hose selection. A point to note is that the burst pressure – and therefore also the safe working pressure – falls significantly as temperatures rise.

Space-Saving Storage

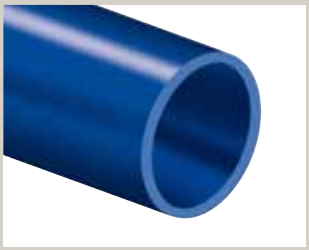
Our straight hoses are rolled, packed on cardboard holders, and delivered in boxes – for space-saving storage and quick materials access.

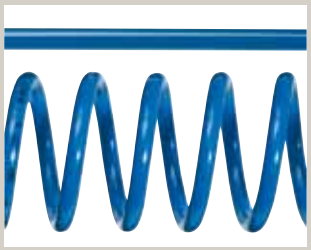


Our hose qualities at a glance.

RECTULASTIC made of Nylon 12 (Polyamid)

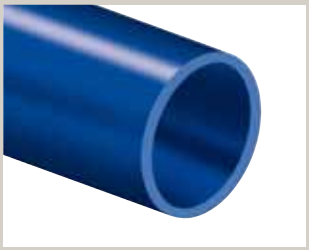
Straight hoses or coiled hoses; multicolored dual and quadruple; unprecedented return force; small twists and therefore requires minimum space; light weight; resistant to organic and inorganic materials.

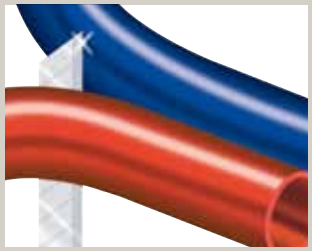




RECTUFLEX made of Polyurethan

Straight hoses or coiled hoses; multicolored dual and quadruple; extremely flexible; resistant to buckling; no change in cross-section; max. working length equal to 80% of stretch length; coiled hoses are supplied with swivel fittings and buckling protection on both ends.



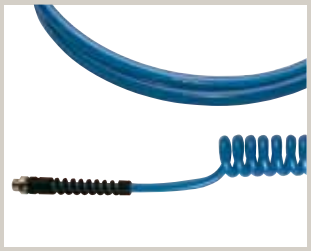


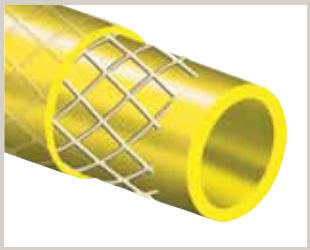
SUPERBRAID®

Polyurethan Inner Braided Hose

Straight hoses or coiled hoses; as flexible as the conventional PU hose – from -40°C to +75°C – even with fabric inlay; extremely small twist diameter; coiled hoses are supplied with pre-assembled swivel fittings and buckling protection.





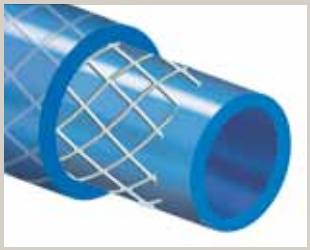




ULTRA-LITE SUPERBRAID®

Polyurethane Inner Braided Hose

Straight hoses; fittings for easy self-assembly; much lighter than the SUPERBRAID® hose and therefore even more flexible and easy to use; highly resistant to temperature (-40°C to +75°C); extremely small twist diameter.





RECTUSOFT made of highly flexible PVC, with Polyester Fibre Reinforcement (TÜV-tested)

Straight hoses or coiled hoses; extremely flexible, even at ultra-low temperatures; highly resistant to tears and pressure; light weight and easy operation makes this hose ideal for operating compressed air tools.

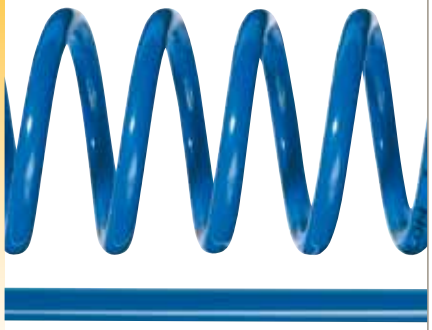
Fittings

Many hoses are available completely assembled with different fittings. Please check article description.



Nylon 12 Straight and Coiled Hoses

RECTULASTIC



Technical Description
RECTULASTIC hoses from Nycoil for safer, more efficient air power transmission.

Special Physical Features
- Light weight (specific weight 9x lower as copper)
- Wide temperature range
- High resistance against moisture
- Saltwater insensitive
- Long service time
- Highly elasticity

Mechanical Features
- High vibration prevention
- Perfect abrasion resistance - High compression characteristics
- Low flow reduction for all kind of media
- Precise tolerances
- Constant solidity
- Resists kinking

Applications
- Compressed air
- Lubrication grease/oil
- Gasoline
- Hydraulic
- Vacuum
- Chemicals (on request)

Advantages
- Quick assembly possible
- Straight hoses ideal for Push-In-System
- Light weight
- Low pressure drop
- Different colors for identification
- Good storage possibility due to box packing (straight hoses)
- High abrasion resistance
- Self-retracting. Coiled Hose automatically recoils to a fraction of its working length
- Small bending diameter
- Resistant to oil, gasoline, grease and abrasion

Temperature range:
-40°C up to +90°C

Maximum operating pressure:
see chart

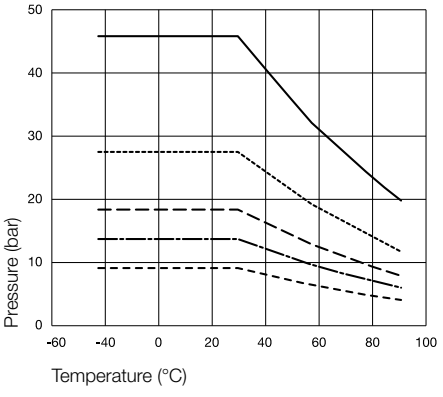
Tubing assembled:
-20°C up to +70°C

All technical data refers to air applications. We will gladly assistant you for other media.

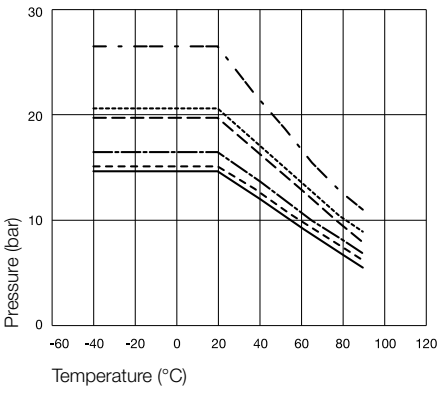
Flow diagrams

Relation Working Pressure / Temperature
The pressure specifications apply only for the hose and not for the connection fittings.

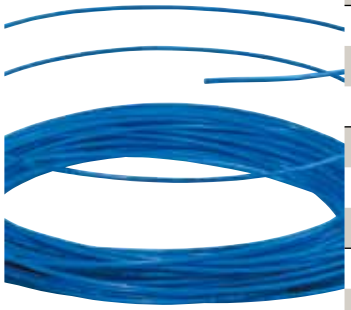
Straight



Coiled



Straight Hoses — RECTULASTIC



Inside x Outside ø mm	Coil Outside Diameter mm	Working Length in m	Part Number Blue**	Part Number Red*
2,0 x 4,0		25	PA040/025/03	PA040/025/02
2,0 x 4,0		50	PA040/050/03	PA040/050/02
2,0 x 4,0		100	PA040/100/03	PA040/100/02
2,7 x 4,0		25	PA047/025/03	PA047/025/02
2,7 x 4,0		50	PA047/050/03	PA047/050/02
2,7 x 4,0		100	PA047/100/03	PA047/100/02
4,0 x 6,0		25	PA060/025/03	PA060/025/02
4,0 x 6,0		50	PA060/050/03	PA060/050/02
4,0 x 6,0		100	PA060/100/03	PA060/100/02
6,0 x 8,0		25	PA080/025/03	PA080/025/02
6,0 x 8,0		50	PA080/050/03	PA080/050/02
6,0 x 8,0		100	PA080/100/03	PA080/100/02
8,0 x 10,0		25	PA100/025/03	PA100/025/02
9,5 x 12,0		25	PA120/025/03	PA120/025/02
12,0 x 14,0		25	PA140/025/03	PA140/025/02

* Hoses in black or transparent available on request.

Coiled Hoses without Fittings — RECTULASTIC



Inside x Outside ø mm	Coil Outside Diameter mm	Max. Working Length in m	Approx. Coils	Part Number
3,1 x 4,7	38	2,5	36	SP05/025
3,1 x 4,7	38	5	72	SP05/050
3,1 x 4,7	38	7,5	108	SP05/075
3,1 x 4,7	38	10	144	SP05/100
4,8 x 6,3	75	2,5	15	SP06/025
4,8 x 6,3	75	5	30	SP06/050
4,8 x 6,3	75	7,5	45	SP06/075
4,8 x 6,3	75	10	60	SP06/100
4,8 x 6,3	75	15	90	SP06/150
4,8 x 6,3	75	22,5	140	SP06/225
6,3 x 7,9	75	2,5	15	SP08/025
6,3 x 7,9	75	5	30	SP08/050
6,3 x 7,9	75	7,5	45	SP08/075
6,3 x 7,9	75	10	60	SP08/100
6,3 x 7,9	75	15	90	SP08/150
6,3 x 7,9	75	22,5	135	SP08/225

⚠ Please consider our security advices on the pages 12/13 ⚠

Coiled Hoses without Fittings — RECTULASTIC



Inside x Outside ø mm	Coil Outside Diameter mm	Max. Working Length m	Approx. Coils	Part Number
7,9 x 9,5	115	2,5	10	SP10/025
7,9 x 9,5	115	5	20	SP10/050
7,9 x 9,5	115	7,5	30	SP10/075
7,9 x 9,5	115	10	40	SP10/100
7,9 x 9,5	115	15	60	SP10/150
7,9 x 9,5	115	22,5	90	SP10/225
9,5 x 11,8	140	2,5	8	SP12/025
9,5 x 11,8	140	5	15	SP12/050
9,5 x 11,8	140	7,5	23	SP12/075
9,5 x 11,8	140	10	31	SP12/100
9,5 x 11,8	140	15	46	SP12/150
9,5 x 11,8	140	22,5	70	SP12/225
12,7 x 15,8	220	5	10	SP16/050
12,7 x 15,8	220	7,5	15	SP16/075
12,7 x 15,8	220	10	20	SP16/100
12,7 x 15,8	220	15	30	SP16/150
12,7 x 15,8	220	22,5	56	SP16/225

Completely assembled with Swivel Fittings — RECTULASTIC



with swivel fittings
and spring guards (Type DV)

Inside x Outside ø mm	Coil Outside Diameter mm	Max. Working Length m	Approx. Coils	Part Number
3,1 x 4,7 R1/8	38	2,5	36	SP05/025/DV
3,1 x 4,7 R1/8	38	5	72	SP05/050/DV
3,1 x 4,7 R1/8	38	7,5	108	SP05/075/DV
3,1 x 4,7 R1/8	38	10	144	SP05/100/DV
4,8 x 6,3 R1/4	75	2,5	15	SP06/025/DV
4,8 x 6,3 R1/4	75	5	30	SP06/050/DV
4,8 x 6,3 R1/4	75	7,5	45	SP06/075/DV
4,8 x 6,3 R1/4	75	10	60	SP06/100/DV
4,8 x 6,3 R1/4	75	15	90	SP06/150/DV
4,8 x 6,3 R1/4	75	22,5	140	SP06/225/DV
6,3 x 7,9 R 1/4	75	2,5	15	SP08/025/DV
6,3 x 7,9 R 1/4	75	5	30	SP08/050/DV
6,3 x 7,9 R 1/4	75	7,5	45	SP08/075/DV
6,3 x 7,9 R 1/4	75	10	60	SP08/100/DV
6,3 x 7,9 R 1/4	75	15	90	SP08/150/DV
6,3 x 7,9 R 1/4	75	22,5	135	SP08/225/DV

Completely assembled with Swivel Fittings — RECTULASTIC



with swivel fittings
and spring guards (Type DV)

Inside x Outside ø mm	Coil Outside Diameter mm	Max. Working Length m	Approx. Coils	Part Number
7,9 x 9,5 R 1/4	115	2,5	10	SP10/025/DV
7,9 x 9,5 R 1/4	115	5	20	SP10/050/DV
7,9 x 9,5 R 1/4	115	7,5	30	SP10/075/DV
7,9 x 9,5 R 1/4	115	10	40	SP10/100/DV
7,9 x 9,5 R 1/4	115	15	60	SP10/150/DV
7,9 x 9,5 R 1/4	115	22,5	90	SP10/225/DV
9,5 x 11,8 R 3/8	140	2,5	8	SP12/025/DV
9,5 x 11,8 R 3/8	140	5	15	SP12/050/DV
9,5 x 11,8 R 3/8	140	7,5	23	SP12/075/DV
9,5 x 11,8 R 3/8	140	10	31	SP12/100/DV
9,5 x 11,8 R 3/8	140	15	46	SP12/150/DV
9,5 x 11,8 R 3/8	140	22,5	70	SP12/225/DV
12,7 x 15,8 R 1/2	220	5	10	SP16/050/DV
12,7 x 15,8 R 1/2	220	7,5	15	SP16/075/DV
12,7 x 15,8 R 1/2	220	10	20	SP16/100/DV
12,7 x 15,8 R 1/2	220	15	30	SP16/150/DV
12,7 x 15,8 R 1/2	220	22,5	47	SP16/225/DV

Completely assembled with Coupling and Plug — RECTULASTIC



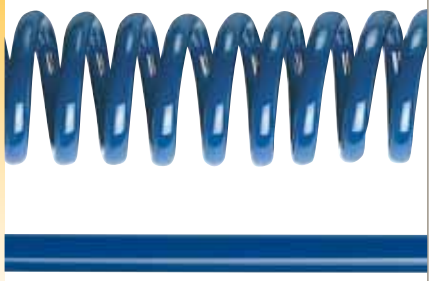
with 26 series coupling and plug
with spring guards

Inside x Outside ø mm	Coil Outside Diameter mm	Max. Working Length m	Approx. Coils	Part Number
6,3 x 7,9	75	2,5	15	SP08/025/K+S
6,3 x 7,9	75	5	30	SP08/050/K+S
6,3 x 7,9	75	7,5	45	SP08/075/K+S
6,3 x 7,9	75	10	60	SP08/100/K+S
6,3 x 7,9	75	15	90	SP08/150/K+S
6,3 x 7,9	75	22,5	135	SP08/225/K+S
7,9 x 9,5	115	2,5	10	SP10/025/K+S
7,9 x 9,5	115	5	20	SP10/050/K+S
7,9 x 9,5	115	7,5	30	SP10/075/K+S
7,9 x 9,5	115	10	40	SP10/100/K+S
7,9 x 9,5	115	15	60	SP10/150/K+S
7,9 x 9,5	115	22,5	90	SP10/225/K+S
9,5 x 11,8	140	2,5	8	SP12/025/K+S
9,5 x 11,8	140	5	15	SP12/050/K+S
9,5 x 11,8	140	7,5	23	SP12/075/K+S
9,5 x 11,8	140	10	31	SP12/100/K+S
9,5 x 11,8	140	15	46	SP12/150/K+S
9,5 x 11,8	140	22,5	70	SP12/225/K+S

⚠ Please consider our security advices on the pages 12/13 ⚠

Polyurethane Straight and Coiled Hoses

RECTUFLEX



Technical Description
Nycoil polyurethane hose was developed to eliminate the two most common limitations of nylon self-storing hoses, kinking and abrasion resistance. This light-weight, yet extremely durable hose is ideal for use in tough work areas or highly mobile applications.

Special Physical Features
- Light weight (specific weight 9x lower as copper)
- Wide temperature range
- High resistance against moisture
- Saltwater insensitive
- Long service

Mechanical Features
- High vibration prevention
- Perfect abrasion resistance
- High compression characteristics
- Low flow reduction for all kind of media
- Constant solidity

Applications
- Compressed Air Lubrication grease/oil Gasoline
- Hydraulics
- Vacuum
- Chemicals (on request) Food and beverage (on request)

Advantages
- Quick assembly possible
- Light weight
- Low pressure drop
- Different colors for identification
- Good storage possibility due to box packing (straight hoses)
- High abrasion resistance
- Very small bending radius and tight coil diameter economizes on work and storage space
- Working length is 80% of total hose length
- 25 % lighter than rubber
- Specially developed swivel fittings offer lowest possible air flow restrictions
- Superior elasticity and coil memory

Working Temperature Hose:
-40°C up to +75°C

Working Temperature Hose Assembled:
-20°C up to +70°C

Maximum operating pressure:
see chart

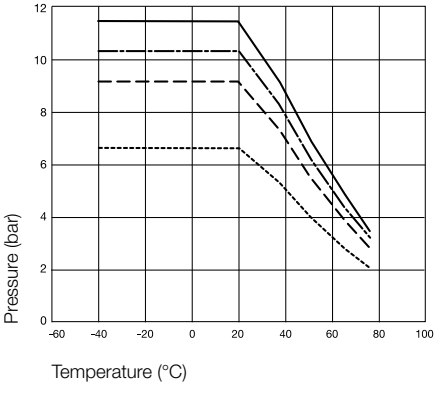
Durometer:
95 Shore A

All technical data refers to air applications. We will gladly assistant you for other media.

Flow diagrams

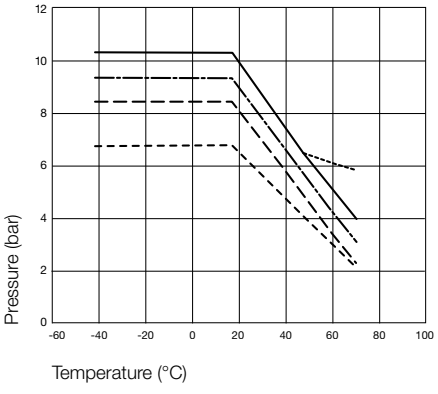
Relation Working Pressure / Temperature
The pressure specifications apply only for the hose and not for the connection fittings.

Straight



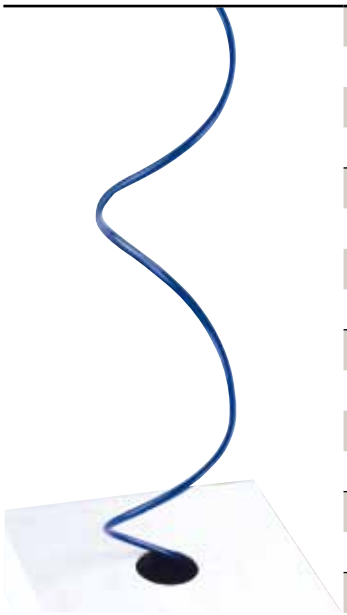
PU040
PU100
PU060, MPS/06
PU080, PU120, MPS/08

Coiled



PU10, PU19
PU15, MPC06
PU12
PU08
MPC08

Straight Hoses — RECTUFLEX



Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Part Number Blue*	Part Number Red*
2,5 x 4,0		25	PU040/025/03	PU040/025/02
2,5 x 4,0		50	PU040/050/03	PU040/050/02
2,5 x 4,0		100	PU040/100/03	PU040/100/02
4,0 x 6,0		25	PU060/025/03	PU060/025/02
4,0 x 6,0		50	PU060/050/03	PU060/050/02
4,0 x 6,0		100	PU060/100/03	PU060/100/02
6,0 x 8,0		25	PU080/025/03	PU080/025/02
6,0 x 8,0		50	PU080/050/03	PU080/050/02
6,0 x 8,0		100	PU080/100/03	PU080/100/02
6,5 x 10,0		25	PU100/025/03	PU100/025/02
9,0 x 12,0		25	PU120/025/03	PU120/025/02

* Hoses in black or transparent available on request.

Multicolor straight — RECTUFLEX



Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Part Number 2-color	Part Number 4-color
4,0 x 6,0		25	MPS02/06/025	MPS04/06/025
6,0 x 8,0		25	MPS02/08/025	MPS04/08/025

⚠ Please consider our security advices on the pages 12/13 ⚠

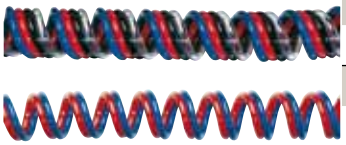
Completely assembled — RECTUFLEX



with straight extensions 508 mm and 127mm

Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Connection	Part Number
5,0 x 8,0	40	2	G 1/4	PU08/020/DV
5,0 x 8,0	40	3	G 1/4	PU08/030/DV
5,0 x 8,0	40	4	G 1/4	PU08/040/DV
5,0 x 8,0	40	6	G 1/4	PU08/060/DV
5,0 x 8,0	40	7,5	G 1/4	PU08/075/DV
6,3 x 9,5	60	2	G 1/4	PU10/020/DV
6,3 x 9,5	60	3	G 1/4	PU10/030/DV
6,3 x 9,5	60	4	G 1/4	PU10/040/DV
6,3 x 9,5	60	6	G 1/4	PU10/060/DV
6,3 x 9,5	60	7,5	G 1/4	PU10/75/DV
8,0 x 12,0	80	3	G 3/8	PU12/030/DV
8,0 x 12,0	80	4	G 3/8	PU12/040/DV
8,0 x 12,0	80	6	G 3/8	PU12/060/DV
8,0 x 12,0	80	7,5	G 3/8	PU12/075/DV
9,5 x 15,0	110	3	G 3/8	PU15/030/DV
9,5 x 15,0	110	4	G 3/8	PU15/040/DV
9,5 x 15,0	110	6	G 3/8	PU15/060/DV
9,5 x 15,0	110	7,5	G 3/8	PU15/075/DV
12,0 x 19,0	110	6	R 1/2	PU19/060/DV
12,0 x 19,0	110	7,5	R 1/2	PU19/075/DV

Multicolor coiled — RECTUFLEX



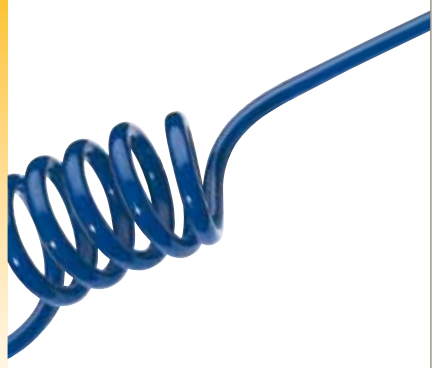
Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Part Number 2-color	Part Number 4-color
4,0 x 6,0	60	2,5	MPC02/06/025	MPC04/06/025
4,0 x 6,0	60	6	MPC02/06/060	MPC04/06/060
4,0 x 6,0	60	7,5	MPC02/06/075	MPC04/06/075
6,0 x 8,0	60	2,5	MPC02/08/025	MPC04/08/025
6,0 x 8,0	60	6	MPC02/08/060	MPC04/08/060
6,0 x 8,0	60	7,5	MPC02/08/075	MPC04/08/075

⚠ Please consider our security advices on the pages 12/13 ⚠

Recoil Hoses

Polyurethane Hose with Straight Extension

RECTUFLEX



Technical Description
The extremely elastic Nycoil polyurethane hose with straight extension (100 mm at the con- necting end, coils in various lengths, 2000 mm at the tool con- nection end) has the same favourable properties as our conventional coiled hoses: high shape recovery, low looping tendency, higher abrasion re- sistance, outstanding stability with very low empty weight. In addition, the straight extensions guarantee more freedom of movement and easier handling in the hard working process.

Advantages
- Extremely flexible – resists kinking
- Impervious to abrasions, heat and oil
- Specially developed swivel fittings offer lowest possible air flow restrictions
- Specially designed retainer sleeve also provides strain relief
- Superior elasticity and coil memory
- Working length is 80% of total hose length
- Very small bending radius and tight coil diameter economizes on work and storage space
- 25% lighter than rubber – easy handling
- Highly resistant to wear – five times the life of rubber
- Low tension – easy to work with
- Eases user fatigue
- Swivel fittings nickel plated
- Greater freedom of movement and easy handling through straight extensions at both ends
- Easy do-it-yourself assembly of couplings, plugs or fixed screw connections (on request with protective sleeve)

Applications
- Pneumatic control
- Air tools
- Assembly workstations
- Laboratories
- Electronic assemblies
- Robotics
- Machine tools
- Instrumentation
- Automobile Industry

Working Temperature Hose:
-40°C up to +75°C

Working Temperature Hose Assembled:
-20°C up to +70°C

Maximum operating pressure:
see chart

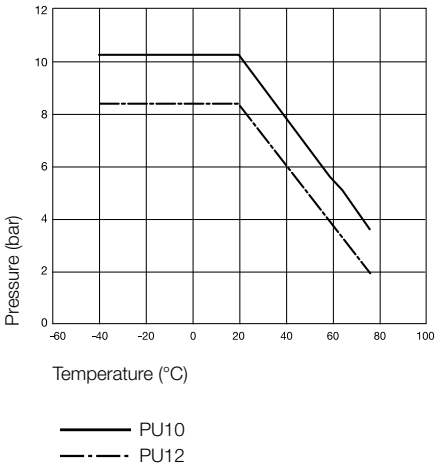
Durometer:
95 Shore A

Color:
blue (Other colors available on request)

All technical data refers to air applications. We will gladly assist you for other media.

Flow diagrams

Relation Working Pressure / Temperature
The pressure specifications apply only for the hose and not for the connection fittings.



Polyurethane Hose with Straight Extension — RECTUFLEX



Inside x Outside ø mm	Nominal Outside Diameter mm	3 m* Part Number	6 m* Part Number	7,5 m* Part Number
6,3 x 9,5	60	PU10/230	PU10/260	PU10/275
8,0 x 12,0	60	PU12/230	PU12/260	PU12/275

* total hose length

Fittings — RECTUFLEX

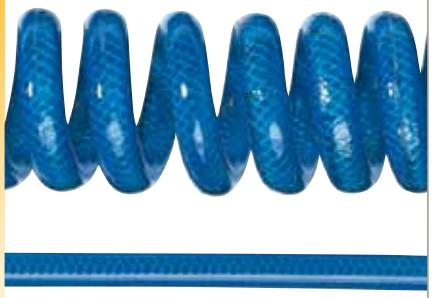
	Easy do-it-yourself assembly for coupling and plug 25 Series for PU 10 and PU 12 hoses	Part Number
	Coupling with spring guard for PU10	25KAKU10SPN
	Coupling with spring guard for PU12	25KAKU12SPN
	Plug with spring guard for PU10	26SFKU10MXN
	Plug with spring guard for PU12	26SFKU12MXN
	Fixed screw connection with spring guard for PU10	SV17/10AN
	Fixed screw connection with spring guard for PU12	SV17/12AN
	Protective sleeve (black)	T1300-351BK

⚠ Please consider our security advices on the pages 12/13 ⚠

Straight and Coiled

Polyurethane Inner Braided Hose

SUPERBRAID



Technical Description
Superbraid polyurethane recoil hose is extruded with an inner braid for additional strength. This „integral piece“ process eliminates the need of bonding individual layers of hoses, braiding and cover which tend toseparate overtime due to bending, flexing and pulsating. Superbraid combines the durability of bulkier hoses with the kink resistance and elasti- city of polyurethane to make
a tough, long lasting hose that is user friendly. Superbraid can be used with either our barb and sleeve fittings or reusable polyurethane fittings.

Advantages
- Same flexibility as a polyurethane hose
- Usable at 15 bar (safety factor of 4 to 1)
- Flexible even at -40°C
- Highly kinking resistant; virtually undamaged by twisting or crushing
- Extremely flexible and easy to use; minimizes worker fatigue
- Superior elasticity and coil memory
- Excellent abrasion resistance;
- 6 to 10 times better than rubber or nylon
- Factory applied thread sealant supplied on male swivel fitting
- Very small bending radius and tight coil diameter economizes on work and storage space
- Both fittings nickel plated

Working Temperature:
-40°C up to +75°C

Maximum Operating Pressure:
see chart

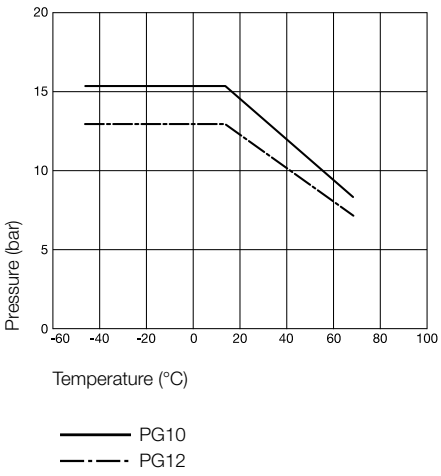
Durometer:
85 Shore A

Color:
light blue -transparent-

All technical data refers to air applications. We will gladly assist you for other media.

Flow diagrams

Relation Working Pressure / Temperature
The pressure specifications apply only for the hose and not for the connection fittings.



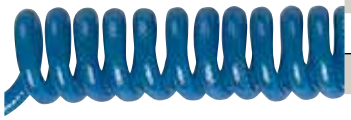
Straight Hoses — SUPERBRAID



with fabric lining

Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Connection	Part Number
6,3 x 9,5		25		PG10/025
7,9 x 11,7		25		PG12/025

Coiled Hoses — SUPERBRAID



with fabric lining

Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Connection	Part Number
6,3 x 9,5	42	3	G 1/4	PG10/030/DV
6,3 x 9,5	42	6	G 1/4	PG10/060/DV
6,3 x 9,5	42	7,5	G 1/4	PG10/075/DV
7,9 x 11,7	55	3	G 3/8	PG12/030/DV
7,9 x 11,7	55	6	G 3/8	PG12/060/DV
7,9 x 11,7	55	7,5	G 3/8	PG12/075/DV
fully assembled with 2x nickel-plated, swivel screw connections				

⚠ Please consider our security advices on the pages 12/13 ⚠

Polyurethane Inner Braided Hose

ULTRA-LITE SUPERBRAID



Technical Description
Thanks to the special produc- tion techniques, this hose keeps what it promises, even after frequent use and under extreme conditions. Ultra-Lite is made of polyurethane which is rein-forced by a hose braid made of Dacron Polyester. Unlike conventional 3-layer textile hoses where the indi- vidual layers are not perma- nently bonded to each other, our Nycoil Ultra-Lite is specially made. The hose is heated and the different layers, textile and PU, melt to form a permanent bond with each other. Thanks to this pro-cess, the Ultra-Lite is extremely flexible and, above all, extremely durable. Its high level of flexibility and low weight make for easy handling. The Ultra-Lite retains it properties down to temperatures as low as -40°C.

Advantages
- Approx. 20% lighter than comparable hoses
- Further weight reduction through production of threaded couplings and hose nuts in light aluminium
- This allows us to reduce the total weight of the hose system, with all advantages of easy hose handling
- Extremely flexible even down to -40°C
- Anti-kink
- Highly temperature-resistant
- Easy do-it-yourself assembly
- of couplings, plugs or fixed screw connections from various Rectus series (available with protective sleeve on request)

Working Temperature:
-40°C up to +75°C

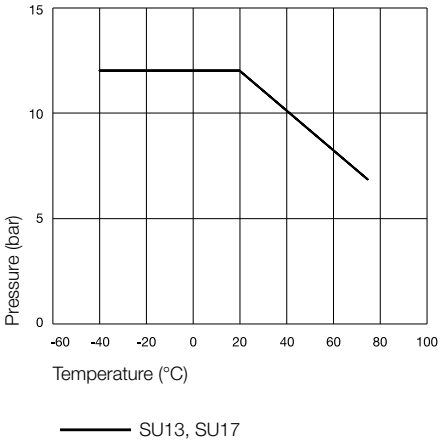
Maximum Operating Pressure:
see chart

Color:
yellow

All technical data refers to air applications. We will gladly assistant you for other media.

Flow diagrams

Relation Working Pressure / Temperature
The pressure specifications apply only for the hose and not for the connection fittings.



Straight Hose — ULTRA-LITE SUPERBRAID



Inside x Outside ø mm	Coil Outside Diameter mm	Working Length m	Weight g/m	Part Number
9,5 x 13,0		25	75	SU13/025/05
12,7 x 17,4		25	127	SU17/025/05

Self-assembly connections for SU13 — ULTRA-LITE SUPERBRAID

For matching protective sleeves for the protec- tion of the surfaces please refer to Page 350	Series	Flow at 6 bar (Pressure drop 0,5 bar) in l/min	Weight g	Part Number
	Coupling Series 1600	2100	100	1600KAKU13SPN
	Coupling Series 31	1060	90	31KAKU13SPN
	Coupling Series 1400	960	90	1400KAKU13SPN
	Plug Series 26 (1600)		50	26SFKU13MXN
	Plug Series 31		55	31SFKU13MXN
	Plug Series 23 (1400)		55	23SFKU13MXN
	fixed screw connection G 3/8		50	SV17/13AN
	fixed screw connection G 1/2 f. SU17		60	SV21/17AN

⚠ Please consider our security advices on the pages 12/13 ⚠

PVC Inner Braided Hose

RECTUSOFT



Technical Description
The new generation of highly flexible Rectus hoses consists of a textile-reinforced, 3-ply PVC hose with a smooth inner tube, polyester thread insert and abrasion-proof outer covering.

Advantages
- Low weight
- Very high flexibility
- Highly resistant
- High resistance to pressure
- UV-resistant
- Long service life
- shock and tread- resistant, non-buckling
- mani- facturer‘s imprint with technical specifications
- TÜV-certified

Working Temperature:
-15°C up to +60°C

Maximum Operating Pressure at +23°C:
15 bar

Bursting Pressure at +23°C:
63 bar

Color:
light blue

Straight Hoses

RECTUSOFT



Inside x Outside ø mm	Coil Outside Diameter mm	Package Unit	Part Number
6,3 x 11,0	45	50	PVC06/050/03
9,0 x 14,5	63	50	PVC09/050/03
12,7 x 19,0	89	50	PVC12/050/03

⚠ Please consider our security advices on the pages 12/13 ⚠

Hose Accessories

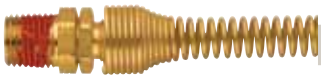
Hose Cutter



(up to outside Diameter 14 mm)

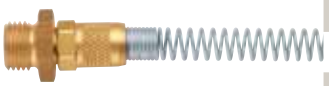
L	L1	Part Number
79	25	RP71-00

Swivelling Spring Guard



Connection mm	HEX	Length	Version	Part Number
R 1/8 3,1 x 4,7	11		Brass	DV10/05
R 1/4 4,8 x 6,3	14		Brass	DV13/06
R 1/4 6,3 x 7,9	14		Brass	DV13/08
R 1/4 7,9 x 9,5	15		Brass	DV13/10
R 3/8 9,5 x 11,8	19		Brass	DV17/12
R 1/2 12,7 x 15,8	22		Brass	DV21/16

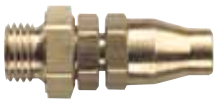
Fixed Spring Guard



with spring guard
* with inner cone 45°

Connection mm	HEX	Length	Version	Part Number
M 5 4,0 x 6,0	8	103	Brass	SV05/06
G 1/8 4,0 x 6,0	12	103	Brass	SV10/06
G 1/8 6,0 x 8,0	12	106	Brass	SV10/08
G 1/4 4,0 x 6,0	17	103	Brass	SV13/06
G 1/4 6,0 x 8,0	17	106	Brass	SV13/08
G 1/4 8,0 x 10,0	17	119	Brass	SV13/10
G 1/4 9,0 x 12,0	17	123	Brass	SV13/12
G 3/8 6,0 x 8,0 *	19	106	Brass	SV17/08
G 3/8 8,0 x 10,0 *	19	119	Brass	SV17/10
G 3/8 9,0 x 12,0 *	19	123	Brass	SV17/12

Reusable Swivel Fittings



swivelling

Connection mm	for Hose	Part Number
G 1/4	PU08	PV13/08
G 1/4	PU10	PV13/10
G 3/8	PU12	PV17/12
G 3/8	PU15	PV17/15

Worm Drive Hose Clips



Spread mm	Height mm	Part Number
10-16	8	KA1016
12 - 22	8	KA1222
16 - 27	8	KA1627
23 - 35	9	KA2335
30 - 45	9	KA3045
32 - 50	12	KA3250
40 - 60	12	KA4060
50 - 70	12	KA5070
60 - 80	12	KA6080

‚O'-Clips



Spread mm	Height mm	Part Number
5 - 7	6	KB0507
7 - 9	7	KB0709
9 - 11	7	KB0911
11 - 13	7	KB1113
13 - 15	7,5	KB1315
15 - 18	8	KB1518
17 - 20	8,5	KB1720
20 - 23	9	KB2023
25 - 28	10	KB2528
28 - 31	10	KB2831
31 - 34	10	KB3134
34 - 37	10	KB3437
37 - 40	10	KB3740
40 - 43	10	KB4043
43 - 46	10	KB4346

⚠ Please consider our security advices on the pages 12/13 ⚠

Hose Drum



Description	Connection	Working Length m	Working Pressure bar	Part Number
- PU-Hose (9,0 x 14,5), black	Series 25KA	15	15	DST915-25
- Casing made of polypropylene				
- no mechanical guidance				
- Completely assembled with				
coupling and plug 25 series				
- CE-certified				

⚠ Please consider our security advices on the pages 12/13 ⚠

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1300	Stainless Steel	204
14	Brass/Steel	46
14	Self-Venting	284
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1400	Self-Venting	288
1423	Brass/Steel	66
1600	Brass/Steel	106
1600	Self-Venting	294
1625	Brass/Steel	108
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1700	Self-Venting	296
1727	Brass/Steel	138
18	Brass/Steel	50
18	Self-Venting	286
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1800	Stainless Steel	220
19	Brass/Steel	52
1900	Brass/Steel	160
20	Brass/Steel	20
20	Stainless Steel	180
204	Brass/Steel	26
204	Stainless Steel	190
206	Brass/Steel	74
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21	Brass/Steel	30
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21	Thermoplastic	232
21	Safety	270
21	Coded Systems	298
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24	Brass/Steel	70
24	Self-Venting	290
25	Brass/Steel	98
25	Stainless Steel	208
25	Safety	274
25	Coded Systems	302
26	Brass/Steel	84
26	Stainless Steel	202
26	Self-Venting	292
27	Brass/Steel	130
27	Stainless Steel	216
28	Safety	278
29	Brass/Steel	164
30	Brass/Steel	124
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34	Brass/Steel	146
37	Brass/Steel	152
38	Brass/Steel	166
39	Brass/Steel	170
40	Brass/Steel	128
41	Brass/Steel	148
42	Brass/Steel	150
45	Brass/Steel	122
48	Thermoplastic	240
50	Brass/Steel	18
51	Brass/Steel	76
52	Brass/Steel	80
57	Brass/Steel	156
65–67	Coded Systems	306
70	Brass/Steel	174
70	Stainless Steel	224
70	Thermoplastic	246
84	Brass/Steel	112
93	Brass/Steel	114
95	Breathing Air	280
96	Breathing Air	282
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Notices

Notices

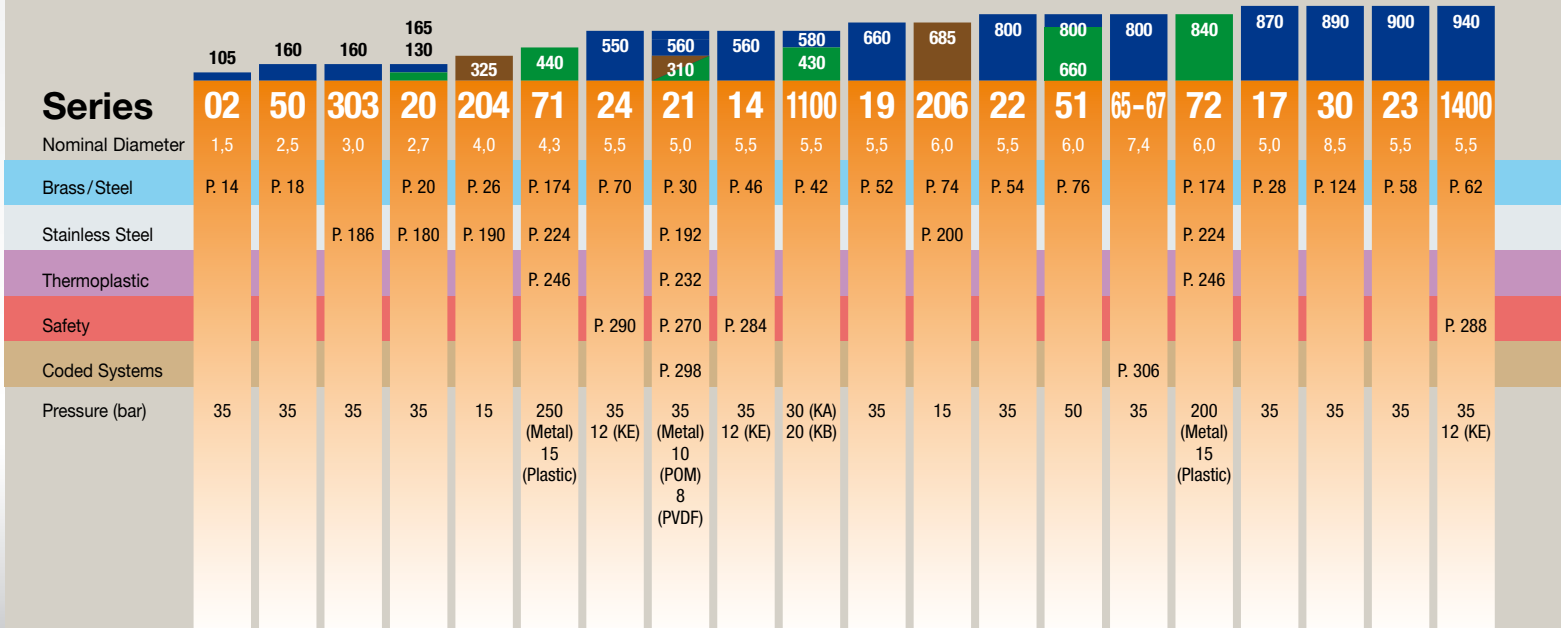
ALL OUR PERFORMANCE CAPACITY AT A GLANCE.

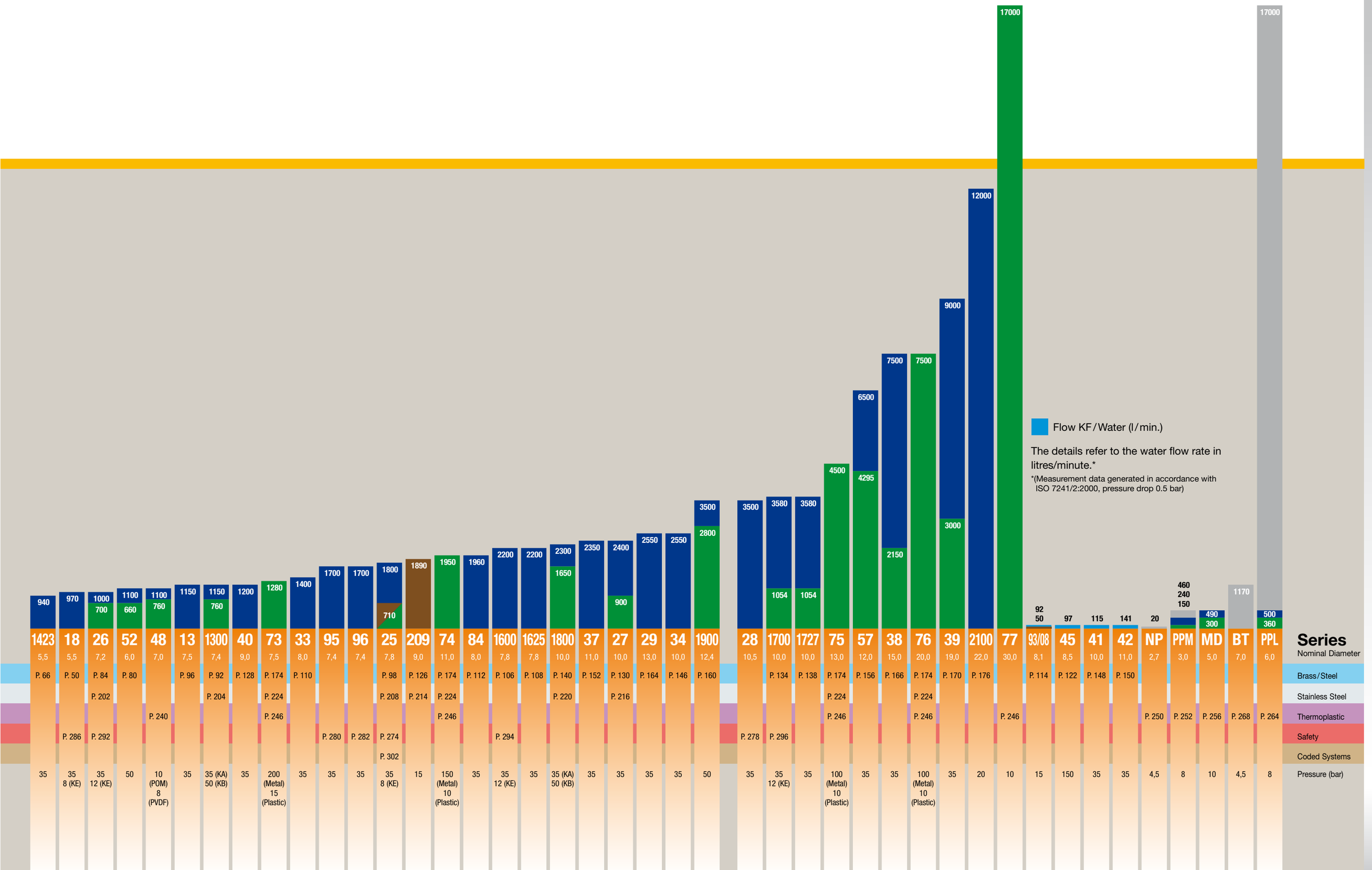
Using this flow rate diagram, you can identify at a glance the coupling series suited to your application and the corresponding operating pressure.

- Flow KL (l/min.) – leak-free coupling systems
- Flow KB (l/min.) – double shut-off coupling systems
- Flow KA (l/min.) – single shut-off coupling systems
- Flow KF (l/min.) – straight-through coupling systems

The details refer to the air flow rate in litres/minute.*

*(Measurement data generated in accordance with ISO 6358; CCTOP RP50P at input pressure 6 bar, pressure drop 0.5 bar)




Flow KF/Water (l/min.)
The details refer to the water flow rate in litres/minute.*
*(Measurement data generated in accordance with ISO 7241/2:2000, pressure drop 0.5 bar)
Series
Nominal Diameter
Brass/Steel
Stainless Steel
Thermoplastic
Safety
Coded Systems
Pressure (bar)
1423 5,5 P. 66 35
18 5,5 P. 50 P. 286 35 8 (KE)
26 7,2 P. 84 P. 202 P. 292 35 12 (KE)
52 6,0 P. 80 50
48 7,0 P. 240 10 (POM) 8 (PVDF)
13 7,5 P. 96 35
1300 7,4 P. 92 P. 204 35 (KA) 50 (KB)
40 9,0 P. 128 35
73 7,5 P. 174 P. 224 P. 246 200 (Metal) 15 (Plastic)
33 8,0 P. 110 35
95 7,4 P. 280 35
96 7,4 P. 282 35
25 7,8 P. 98 P. 208 P. 274 P. 302 35 8 (KE)
209 9,0 P. 126 P. 214 15
74 11,0 P. 174 P. 224 P. 246 150 (Metal) 10 (Plastic)
84 8,0 P. 112 35
1600 7,8 P. 106 P. 294 35 12 (KE)
1625 7,8 P. 108 35
1800 10,0 P. 140 P. 220 35 (KA) 50 (KB)
37 11,0 P. 152 35
27 10,0 P. 130 P. 216 35
29 13,0 P. 164 35
34 10,0 P. 146 35
1900 12,4 P. 160 50
28 10,5 P. 278 35
1700 10,0 P. 134 P. 296 35 12 (KE)
1727 10,0 P. 138 35
75 13,0 P. 174 P. 224 P. 246 100 (Metal) 10 (Plastic)
57 12,0 P. 156 35
38 15,0 P. 166 35
76 20,0 P. 174 P. 224 P. 246 100 (Metal) 10 (Plastic)
39 19,0 P. 170 35
2100 22,0 P. 176 20
77 30,0 P. 246 10
93/08 8,1 P. 114 15
45 8,5 P. 122 150
41 10,0 P. 148 35
42 11,0 P. 150 35
NP 2,7 P. 250 4,5
PPM 3,0 P. 252 8
MD 5,0 P. 256 10
BT 7,0 P. 268 4,5
PPL 6,0 P. 264 8

Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO_2 controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydrostatic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/ controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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