

RECTUS

TEMA

Nycail

RECTUS



Flexibility
Know-How
Competence
Innovation
Success

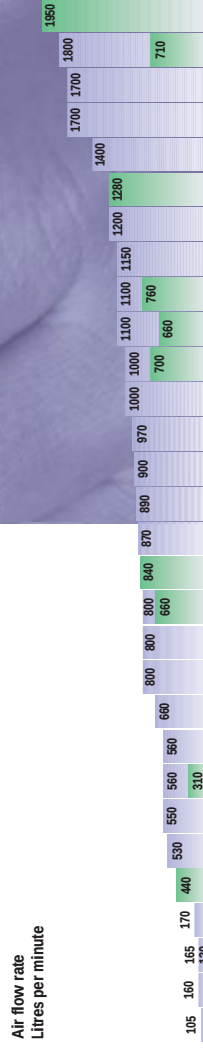
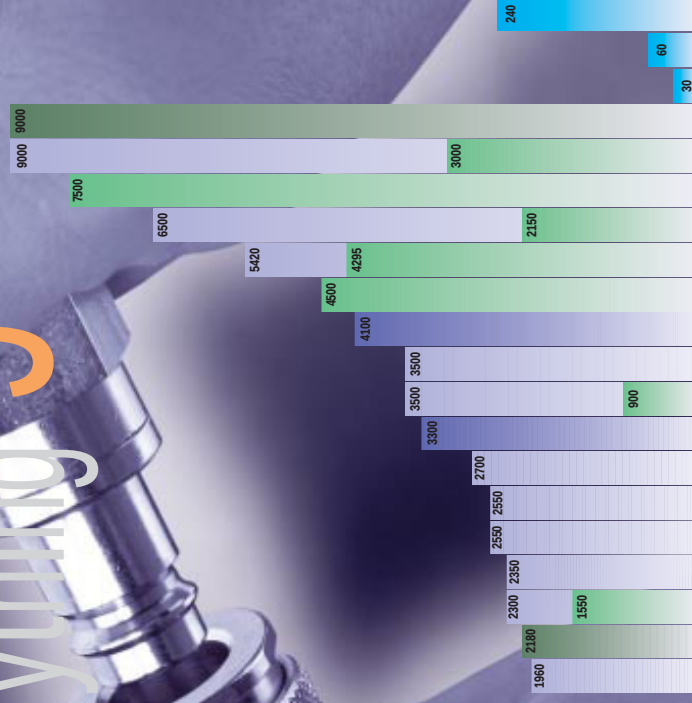
Catalog 2003
Quick Connect Couplings



connecting
everything

Use this flow rate diagram to find the right RECTUS

coupling series for your application at a glance.

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Important notes for catalog users:

- Please note that the technical data, specifications and drawings in the catalog are not binding. This information is subject to change without notice in the interest of improvement.
- July 2003: With the actual catalog the older versions are no longer valid.

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Dear Business Friends,

You are now looking at the latest RECTUS General Catalog, a compendium of quick connect couplings that offers you a tailor-made solution for every application. This compact catalog contains 50 years of practical experience, untiring research work and the specialized knowledge that makes RECTUS one of the world's leading sources for quick connect couplings. By using our tried and tested procedures along with our experience and innovativeness, RECTUS offers the best solutions to meet your individual requirements. Our

technical specialists will be pleased to provide you answers to your toughest quick connect coupling problems.

Best regards,

A blue ink handwritten signature, likely of Peter W. Klein, written in a cursive style.

Peter W. Klein, President RECTUS GmbH



Structure of RECTUS Part Numbers

Hose connection TF = Hose Barb TS = Panel Mount with Hose Barb TP = for Parker plug-in Hose TR = Hose Barb 90° TH = Hose Barb 45° TG = Hose conn. in acc. with DIN 8542 TE = Front Panel Installation, Hose Barb Panel Mount Plastic Hose Connection KE = Front Panel Installation, Plastic Hose Panel Mount KO = with Hose Nut KK = with Spring Guard KS = Panel Mount, with Hose Nut and Compression Nut	Male Thread AW = Whitworth pipe thread, parallel AK = Whitworth pipe thread, tapered AN = NPT thread AS = Whitworth pipe thread, parallel, DIN 2353 MP = Metric, Serto plan AD = Metric thread, DIN 2353 AM = Metric thread AF = UNF thread WP = Whitworth pipe thread, Serto Plan SS = Serto plan metric, Serto plan	Female Thread IW = Whitworth pipe thread, parallel IK = Whitworth pipe thread, tapered IF = UNF thread IN = NPSF thread IL = Whitworth pipe thread, left-hand IM = Metric thread IP = Female thread, PG VG = Valve thread Other Connections KL = Clamp insert for plug-in connection PV = Fixing connection for PVC hoses DS = Double plug-in nipple
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26	KA	AW	13	M	P	X
Series No. ...	Couplings KA = Single Shut-Off KB = Double Shut-Off KF = Straight-Through KS = Safety (single shut-off) KD = Safety (double shut-off) KL = Dry Break (double shut-off) KE = Self-Venting System Plugs SF = Straight-Through SB = Double Shut-Off SS = Safety (straight-through) SD = Safety (double shut-off) SR = Recoil Eliminator SL = Dry Break (double shut-off)	Thread Sizes 10 = G 1/8" 13 = G 1/4" 17 = G 3/8" 21 = G 1/2" 26 = G 3/4" 33 = G 1" Hose Connection e. g. 0,6 = for 6 mm clear width	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 04 = 3 x 4 mm 05 = 3 x 5 mm 06 = 4 x 6 mm 08 = 6 x 8 mm 10 = 8 x 10 mm 12 = 9 x 12 mm	Material M = Brass S = Steel R = Stainless steel AISI 303 E = Stainless steel AISI 316 Ti A = Aluminium D = Delrin F = PVDF	Seal X = without seal P = Buna N V = Viton E = Ethylene-Propylene S = Silicone K = Kalrez	Finish X = without galvanised finish N = Nickel plated C = Chrome plated Z = Zinc plated D = Durnicoated B = Gunmetal

We develop coupling systems that are convincing in all respects.

RECTUS has developed coupling systems to link up transport

lines for liquid and gaseous mediums, not only for the traditio-

nal production requirements in all industries, but for specific

markets such as the medical, underwater, aerospace, bre-

thing air, high seas and
"off-road"

industries
as well.

Quick connect couplings

and fittings are

exceedingly sensitive components in a supply system. They

must be easy to operate and absolutely leak-proof. Recognizing

this, RECTUS products have proven their efficiency and

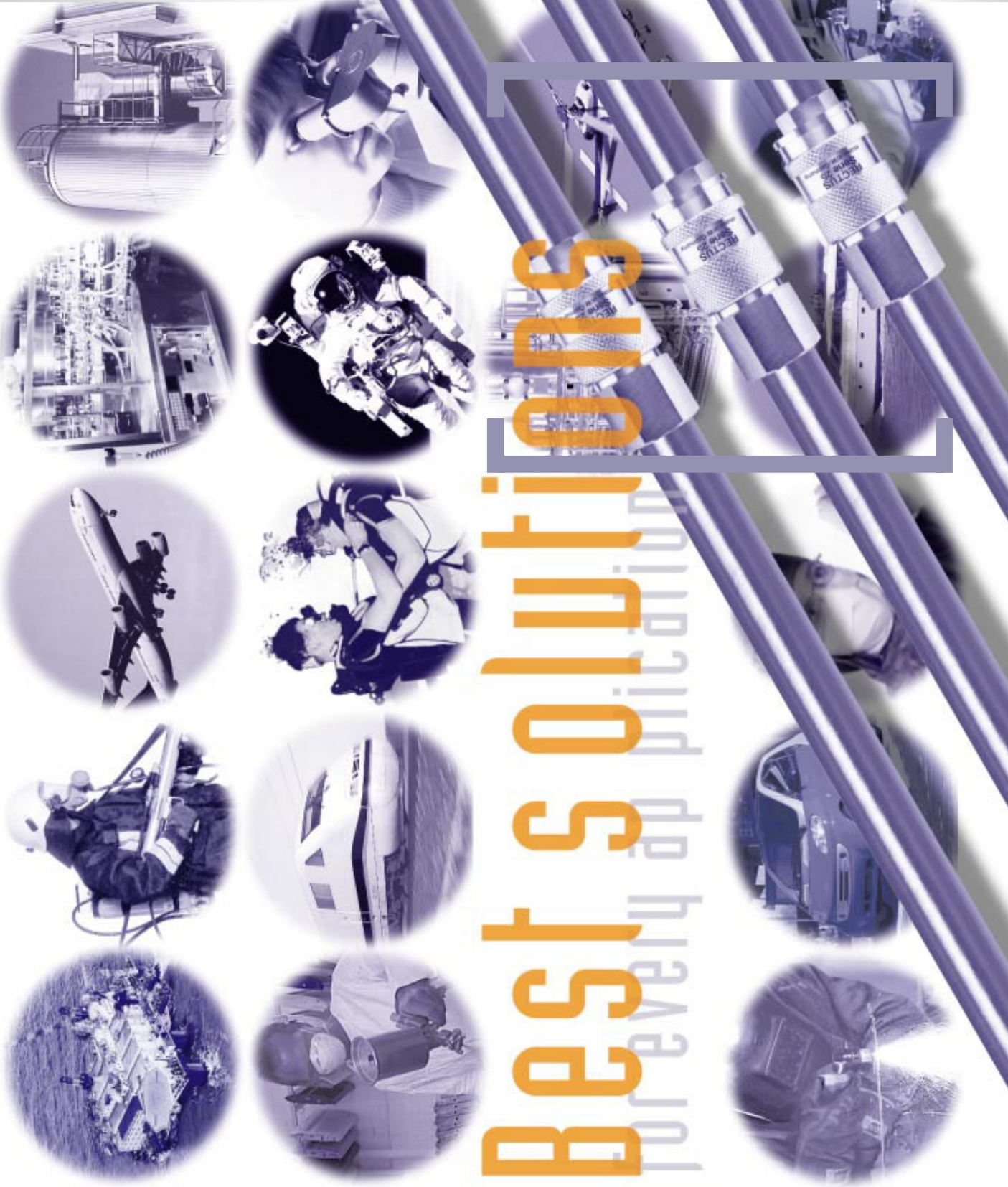
reliability over the years and continue to offer high quality and

cost-effective products to meet your particular application

requirements.



Best Solutions for every application



1950	Walter Klein Schweißtechnik established in Stuttgart- Feuerbach.	1963	We moved into new pre- mises in Nussdorf and concentrated fully on the development, pro- duction and marketing of quick connect couplings.	1974	Peter Klein joined the company - international marketing activities expanded.	1980	New administration building completed.	1983	RECTUS Norge A/S established in Vestby, Norway.	1985	Production facility further enlarged.	1994	Joint venture set up with Hungarian partners - RECTUS KFT established in Szekszard, Hungary.	1996	Modern high-bay warehouse with logistics centre built and commis- sioned. RECTUS Vertriebs GmbH established in Breitenfurt, Austria.
1953	We produced the first quick connect coupling for welding technology and moved to Stuttgart- Zuffenhausen.	1970	Production facility enlarged - machine outfit expanded.	1975	OBAC AB established in Malmo, Sweden.	1981	RECTUS Corp. established in Sparta, N.J., USA.	1984	IPL established in Formby, UK.	1991	RECTUS JAPAN established in Tokyo.	1995	RECTUS sro founded in Ledec, Czech Republic.	1997	RECTUS Iberica established.

We have been setting
standards in coupling
technology for 50 years.

The successful corporate development of RECTUS is the
result of continuous, uncompromising research and develop-
ment work allowing us to set new standards in the field of
quick connect couplings. Today, with 50 years of experience
and growth, we are able to provide our customers with
the knowledge and efficiency that have won RECTUS world-
wide recognition.



We meet the highest quality standards.

For RECTUS, product quality has always been the top priority. Raw material, components and finished parts are inspected at all levels of production. Also, certificates and test reports from the most respected independent laboratories confirm our excellent production quality. For our customers, this means assurance of a safer and more reliable product. These record achievements are due primarily to the quality consciousness of our staff as well as to our modern technical facilities and state-of-the-art equipment. At

RECTUS, "Precision" is not just an often forgotten catchword - it is a practise that is put into use every day!



DIN EN ISO 9001
Qualitätsmanagementsystem



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Our services.
Available throughout the
world.

Providing comprehensive service and reliable customer support are RECTUS hallmarks. We have our own production facilities, sales branches and a global network of qualified dealers offering our customers the availability of individualized assistance. In addition, our modern, state-of-the-art

logistics system allows us to offer our customers punctual delivery of our products. Our policy is to deliver standard products from stock within 24 hours of receiving the order.



Service
Worldwide

Steel



Brass



Aluminium



Flexibility

Delrin



PVDF



Stainless Steel



1.4305 / AISI 303
1.4571 / AISI 316 Ti
1.4404 / AISI 316 L

We can supply the appropriate material to satisfy any job specification.

Extreme temperatures, highly aggressive mediums and exceedingly sensitive production processes are given consideration in our research and development work. Our coupling systems must meet all of these challenges to remain at the forefront of the industry. We achieve this through a combination of precision valve technology



along with the use of application specific materials.

RECTUS materials range from steel to brass over aluminium to high-quality thermoplastics and stainless steel. We comply with the stringent demands of the pharmaceutical and foodstuffs industries as well as with clean room and sterile room technology. Our customers can feel assured that RECTUS will supply them with the ideal combination of material and technology.

Our developments
lead the way.

Here are two examples:

RectuLoc

With the introduction of the innovative RectuLoc sealing system for connecting threads, RECTUS has replaced the laborious "angel hair" or teflon tape sealing method. On request, tapered threads can be coated with RectuLoc while parallel threads can be supplied with a RectuLoc Seal. In each of these systems, an effective seal is formed resulting in a greater resistance to aggressive mediums and a greater tolerance for high pressure and temperatures. Also, because of the lubricating effect of the sealant, the couplings can be used several times without influencing the sealing effect.



Our designers
produce solutions
with a future.

UltraFlo

In order to increase the air flow rate in the coupling, RECTUS has developed the UltraFlo valve. This high-flow system (found in RECTUS Series 22, 23, 25 + 27) increases the efficiency of the coupling by about 80% compared to conventional designs. The compressed air supply to pneumatic tools is improved significantly, leading to a sharp rise in productivity. Energy costs drop in proportion, and since UltraFlo couplings with their increased efficiency can be used for practically all compressed air installations. As a result, the user also benefits from the flexibility offered by the various RECTUS UltraFlo Series.



We continue to set
new standards in quality
and safety.

With the development of the one-hand, quick connect coupling, RECTUS has made a significant contribution to improving the function and the industrial safety of the pneumatic coupling. Continued design improvements for the complicated internal mechanisms of the modern coupling and optimizing the technology available with respect to various performance requirements are among the most important tasks of RECTUS research today.

The RECTUS quick connect coupling — a simple operation.

To connect the coupling, the plug is simply pressed into the coupling. The locking sleeve moves forward and locks automatically. To disconnect the coupling, the locking sleeve is pushed back with one hand and the plug is released from the coupling. The other hand remains free for safety measures.

Technical fundamentals

Conversion of temperature units

°F → °C	°F → °C	°C → °F	°C → °F
-40	+105	-40	+221
-35	+110	-35	+230
-30	+115	-30	+239
-25	+120	-25	+248
-20	+125	-20	+257
-15	+130	-15	+266
-10	+135	-10	+275
-5	+140	-5	+284
0	+145	0	+293
+5	+150	+5	+302
+10	+155	+10	+311
+15	+160	+15	+320
+20	+165	+20	+329
+25	+170	+25	+338
+30	+175	+30	+347
+35	+180	+35	+356
+40	+185	+40	+365
+45	+190	+45	+374
+50	+195	+50	+383
+55	+200	+55	+392
+60	+205	+60	+401
+65	+210	+65	+410
+70	+215	+70	+419
+75	+220	+75	+428
+80	+225	+80	+437
+85	+230	+85	+446
+90	+235	+90	+455
+95	+240	+95	+464
+100	+245	+100	+473
	+250	+100	+482

Simply the
BEST

Conversion of flow rate units

l/min →	Cfm →	m ³ /h →	l/min →	Cfm →	m ³ /h →
600	21	36	4800	170	288
1200	43	72	5400	191	324
1800	64	108	6000	213	360
2400	85	144	6600	234	396
3000	106	180	7200	255	432
3600	128	216	7800	277	468
4200	149	252			

Vacuum units

Negative pressure (mm Hg)	Vacuum (%)	Absolut pressure (mbar)	Neg. press. (mbar)
0	0	1000	0
-75	10	900	-100
-100	13.3	867	-133
-150	20	800	-200
-200	26.7	733	-267
-225	30	700	-300
-300	40	600	-400
-375	50	500	-500
-400	53.3	467	-533
-450	60	400	-600
-500	66.7	333	-667
-525	70	300	-700
-600	80	200	-800
-675	90	100	-900
-690	92	80	-920
-760	100	0	-1000

Conversion of pressure units

bar →	PSI →	bar →	PSI →
1	14.5	30	435
3	43.5	35	508
6	87	50	725
8	116	70	1015
10	145	100	1450
12	174	150	2175
15	217.5	200	2900
20	290	250	3625
25	363		

Thread dimensions in mm

Nominal thread	External dia. d (mm)	Core dia. d ₁ (mm)	Nominal thread	External dia. dia.	Core dia. d ₁ (mm)
1/8	7.723	6.561	1 1/8	37.887	34.939
1/6	9.728	8.566	1 1/4	41.910	38.952
1/4	13.157	11.445	1 1/2	47.803	44.845
3/8	16.662	14.950	1 3/4	53.746	50.788
1/2	20.955	18.631	2	59.614	56.656
5/8	22.911	20.587	2 1/4	65.710	62.752
3/4	26.441	24.117	2 1/2	75.184	72.226
7/8	30.201	27.877	2 3/4	81.534	78.576
1	33.249	30.291			

Single shut-off quick connect couplings by RECTUS set worldwide standards for the very best quality and reliability.

Single Shut-Off Quick Connect Couplings

Applications:

Machinery
construction



You have, therefore, decided in favour of a brand name that will meet your requirements – and more. With the RECTUS range of products, you have a wide selection of different versions for gaseous and liquid mediums – from the smallest quick connect coupling in the world (02 series) to large-format couplings with a nominal diameter of 300 mm² (39 series). These reliably functioning systems can meet an enormous range of requirements.

Brass

Steel

1.4305 / AISI 303

1.4571 / AISI 316 Ti

1.4404 / AISI 316 L

Stainless Steel

To meet the high standards in medical, laboratory or chemical technology, as well as in many other sensitive areas, RECTUS can supply you with corrosion and acid-resistant quick connect couplings made of stainless steel. To adapt to the aggressiveness of various mediums, the seals are available in Viton (standard design), Ethylene-Propylene, Buna N or Kalrez.

High-Tech

Over 90% of all RECTUS quick connect couplings have been designed according to this tried and tested single-handed system – most of them are fitted with the easy-flowing UltraFlo valve.

Welding engineering
Powder coating
Mould making
Laser technology
Varnishing technology
Medical technology
Metal working
Control equipment
Food and beverage technology
Compressed air technology
Pneumatic
Robot technology
Model construction
Air conditioning systems
Water- and gas conditioning
Transporting systems
Textile industry
Automotive industry

RECTUS

Nominal Diameter **1,5** = 1,8 mm²

02 KA series

Technical Description

The 02 series is the smallest quick connect coupling made anywhere in the world today. The single hand operation makes it user friendly and suitable for a variety of applications.

Advantages

A high quality coupling having extremely small dimensions. Single handed operation, high flow with low pressure loss.

Applications

Medical engineering, dental equipment, laboratory installations, chemistry, measuring and control equipment, analysis engineering, mikro pneumatic, mechanical engineering, conditional employment with liquids, cause of construction size.

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

Coupling

Brass
Brass
Brass
Brass
Brass
AISI 301
AISI 420
Buna N

Additional Version

Nickel Plated

Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
AISI 301
AISI 420
Buna N

Plug

Plug

Brass, Nickel Plated

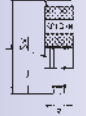
Couplings



Male Thread



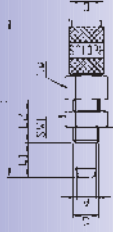
Female Thread



Hose Barb

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
M 3	6	19	6,5	3					Standard Design Nickel Plated	02KA AM03 MPX 02KA AM03 MPN
M 3	6	19	6,5	3					Standard Design Nickel Plated	02KA IM03 MPX 02KA IM03 MPN
2 mm	6	21	6,5	5,5					Standard Design Nickel Plated	02KA TF02 MPX 02KA TF02 MPN
3 mm	6	22	6,5	6,5					Standard Design Nickel Plated	02KA TF03 MPX 02KA TF03 MPN

Couplings

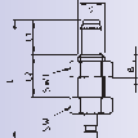


Panel Mount,
Hose Barb

Plugs



Hose Barb

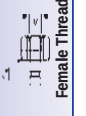


Panel Mount,
Hose Barb

Plugs



Male Thread



Female Thread

02

The smallest, fully functional single hand operated quick connect coupling in the world.



RECTUS®

Nominal Diameter **2,5** = 5 mm²

50 KA series

Technical Description
50 series is a very small single hand operated quick connect coupling made of brass. Due to its compact dimensions and interchangeability it can be used for a multitude of applications.

Advantages
Small dimensions, single-handed operation, multitude of connecting options.

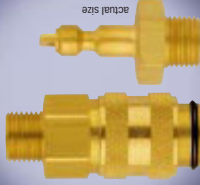
Applications
Medical engineering, laboratory installations, learning systems, metering hoppers.

Interchangeability
WALTHER LP-002

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

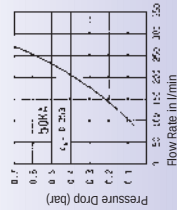
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

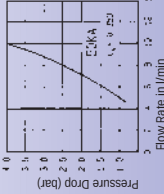


Chart

Air



Water



Standard Version

Additional Version

Nickel Plated

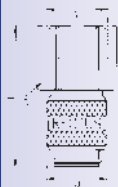
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
AISI 301
AISI 420
Buna N

Brass, Nickel Plated

Couplings



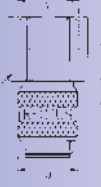
Male Thread



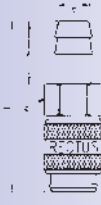
Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	36	16	7					Standard Design Nickel Plated	50KA AW10 MPXS 50KA AW10 MPNS
G 1/4	17	38	16	9					Standard Design Nickel Plated	50KA AW13 MPXS 50KA AW13 MPNS
G 3/8	19	38	16	9					Standard Design Nickel Plated	50KA AW17 MPXS 50KA AW17 MPNS
G 1/8	14	36	16	9					Standard Design Nickel Plated	50KA IW10 MPXS 50KA IW10 MPNS

Couplings



Female Thread



Hose Barb

Plugs

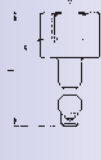


Hose Barb

Plugs



Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	30	7						Standard Design Nickel Plated	50SF AW10 MXX 50SF AW10 MXN
G 1/8	14	30	7						Standard Design Nickel Plated	50SF IW10 MXX 50SF IW10 MXN

Nominal Diameter **2,7** = 6 mm²

20 KA series

Technical Description
Our 20 series is the second smallest single hand operated quick connect coupling on the market. It can be supplied as either single shut-off or straight through (no valve) design.

Advantages
A quality coupling having extremely small dimensions. Single handed operation, high flow with low pressure loss.

Applications
Medical engineering, dental equipment, laboratory installations, chemistry, measuring and control equipment, analysis engineering, mini pneumatic, mechanical engineering.

Interchangeability

WALTHER 06-03, RECTUS 91

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

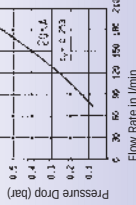
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

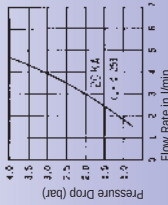


actual size

Chart



Air



Water

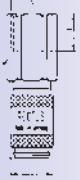
Material	Standard Version	Additional Versions
Coupling		Nickel Plated
Back Body	Brass	Brass, Nickel Plated
Valve Body	Brass	Brass, Nickel Plated
Sleeve	Brass	Brass, Nickel Plated
Valve	Brass	Brass
Spring and Locking Ring	Brass	Brass
Locking Balls	Brass	Brass
Seals	Brass	Brass

Plug	Brass
Plug	Brass, Nickel Plated

Couplings



Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
M 5	9	26	10	5					Standard Design	20KA AM05 MPX
									Nickel Plated	20KA AM05 MPN
									AISI 303	20KA AM05 RVX
									AISI 316 Ti	20KA AM05 EVX
G 1/8	11	28	10	7					Standard Design	20KA AW10 MPX
									Nickel Plated	20KA AW10 MPN
									AISI 303	20KA AW10 RVX
									AISI 316 Ti	20KA AW10 EVX
M 5	9	26	10	5					Standard Design	20KA IM05 MPX
									Nickel Plated	20KA IM05 MPN
									AISI 303	20KA IM05 RVX
									AISI 316 Ti	20KA IM05 EVX
G 1/8	12	28	10	7					Standard Design	20KA IW10 MPX
									Nickel Plated	20KA IW10 MPN
									AISI 303	20KA IW10 RVX
									AISI 316 Ti	20KA IW10 EVX

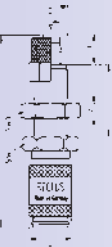
Couplings



Hose Barb



Plastic Hose Connection



Panel Mount, Plastic Hose Connection



Panel Mount, Hose Barb

Plugs



Hose Barb

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
3 mm		24	7	13					Standard Design	20SF TF03 MXX
									Nickel Plated	20SF TF03 MXN
									AISI 303	20SF TF03 RXX
									AISI 316 Ti	20SF TF03 EXX

Plugs



Hose Barb



Plastic Hose Connection



Panel Mount,
Plastic Hose Connection



Panel Mount, Hose Barb

Plugs

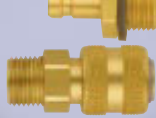


Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
4 mm			24	7	13					Standard Design	20SF TF04 MXX
										Nickel Plated	20SF TF04 MXN
										AISI 303	20SF TF04 RXX
										AISI 316 Ti	20SF TF04 EXX
5 mm			22	9	13					Standard Design	20SF TF05 MXX
										Nickel Plated	20SF TF05 MXN
										AISI 303	20SF TF05 RXX
3 x 4 mm		7	25		7	5			M 7 x 0.5	Standard Design	20SF K004 MXX
										Nickel Plated	20SF K004 MXN
										AISI 303	20SF K004 RXX
										AISI 316 Ti	20SF K004 EXX
3 x 5 mm		7	25		7	5			M 7 x 0.5	Standard Design	20SF K005 MXX
										Nickel Plated	20SF K005 MXN
										AISI 303	20SF K005 RXX
4 x 6 mm		8	25		7	5			M 8 x 0.5	Standard Design	20SF K006 MXX
										Nickel Plated	20SF K006 MXN
										AISI 303	20SF K006 RXX
										AISI 316 Ti	20SF K006 EXX
3 x 4 mm		11	38		7	17	11	3	M 7 x 0.5	Standard Design	20SF KS04 MXX
										Nickel Plated	20SF KS04 MXN
3 x 5 mm		11	38		7	17	11	3	M 7 x 0.5	Standard Design	20SF KS05 MXX
										Nickel Plated	20SF KS05 MXN
4 x 6 mm		12	38		7	17	12	3	M 8 x 0.5	Standard Design	20SF KS06 MXX
										Nickel Plated	20SF KS06 MXN
										AISI 303	20SF KS06 RXX
3 mm		12	45		13	18	11	3.5	M 7 x 0.5	Standard Design	20SF TS03 MXX
										Nickel Plated	20SF TS03 MXN
4 mm		12	45		13	17	11	3	M 7 x 0.5	Standard Design	20SF TS04 MXX
										Nickel Plated	20SF TS04 MXN



actual size

Nominal Diameter **2,7** = 6 mm²

91 KA series

Technical Description

The 91 series is a variation of the 20 series couplings. The valve has been shortened in respect that the plug seals prior to open the couplings valve. In spite of the short valve the well-proven single hand operation is retained, as the ball-lock is replaced by a pin-lock. This extends the external diameter of the sleeve from 10 mm to 13 mm.

Advantages

No leakage occurs when connecting as the plug is already seated tightly before the valve is opened. This makes it especially suitable for working with liquids.

Applications

Medical engineering, re-fillable systems, pressure air systems, air tools.

Interchangeability

RECTUS 20, WALTHER 06-003

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Additional Version

Nickel Plated

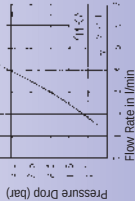
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 303
AISI 420
Buna N

Chart

Air



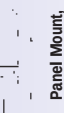
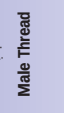
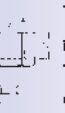
Water



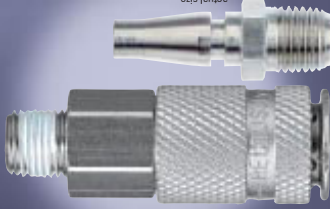
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
M 5		9	26	13	5				Standard Design	91KA AM05 MPX
									Nickel Plated	91KA AM05 MPN
									Standard Design	91KA AW10 MPX
									Nickel Plated	91KA AW10 MPN
G 1/8		11	28	13	7				Standard Design	91KA IM05 MPX
									Nickel Plated	91KA IM05 MPN
									Standard Design	91KA IW10 MPX
									Nickel Plated	91KA IW10 MPN
3 mm		9	25	13	5				Standard Design	91KA IM05 MPX
									Nickel Plated	91KA IM05 MPN
									Standard Design	91KA IW10 MPX
									Nickel Plated	91KA IW10 MPN
4 mm		12	28	13	7				Standard Design	91KA IM05 MPX
									Nickel Plated	91KA IM05 MPN
									Standard Design	91KA IW10 MPX
									Nickel Plated	91KA IW10 MPN

Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	3 mm			24	7	13					Standard Design	20SF TF03 MXX
	4 mm			24	7	13					Nickel Plated	20SF TF03 MXN
											Standard Design	20SF TF04 MXX
											Nickel Plated	20SF TF04 MXN
	5 mm			22	9	13					Standard Design	20SF TF05 MXX
											Nickel Plated	20SF TF05 MXN
	3 x 4 mm		7	25		7	5		M 7 x 0.5		Standard Design	20SF KO04 MXX
											Nickel Plated	20SF KO04 MXN
	3 x 5 mm		7	25		7	5		M 7 x 0.5		Standard Design	20SF KO05 MXX
											Nickel Plated	20SF KO05 MXN
	4 x 6 mm		8	25		7	5		M 8 x 0.5		Standard Design	20SF KO06 MXX
											Nickel Plated	20SF KO06 MXN
	3 x 4 mm		11	38		7	17	11	3	M 7 x 0.5	Standard Design	20SF KS04 MXX
											Nickel Plated	20SF KS04 MXN
	3 x 5 mm		11	38		7	17	11	3	M 7 x 0.5	Standard Design	20SF KS05 MXX
											Nickel Plated	20SF KS05 MXN
	4 x 6 mm		12	38		7	17	12	3	M 8 x 0.5	Standard Design	20SF KS06 MXX
											Nickel Plated	20SF KS06 MXN
	3 mm		12	45		13	18	11	4	M 7 x 0.5	Standard Design	20SF TS03 MXX
											Nickel Plated	20SF TS03 MXN
	4 mm		12	45		13	17	11	3	M 7 x 0.5	Standard Design	20SF TS04 MXX
											Nickel Plated	20SF TS04 MXN

Nominal Diameter **5** = 20 mm²
17 KA series



Technical Description
The 17 series is made of a brass/steel combination and has been specially developed for industrial use. The ULTRA-FLO valve allows considerably more flow with low pressure drop. Due to its compact dimensions and single hand operation, it can be used for a multitude of applications.

Advantages
Small size, reduced weight, single hand operation and high flow performance.

Applications
Tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability
SCHRADER NVW 5

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

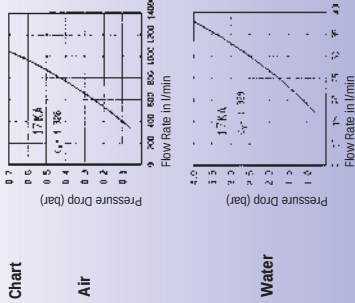
Coupling
Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Plug
Plug

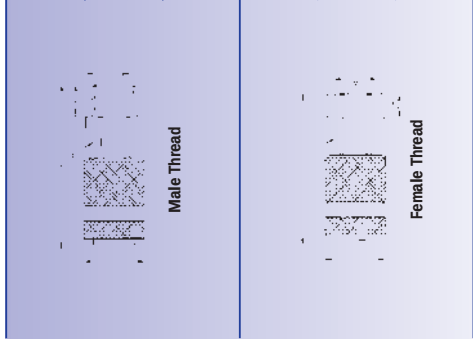
Brass, Nickel Plated
Steel Hardened and Zinc Plated
Steel Hardened, Nickel Plated
Brass
Brass
AISI 303
AISI 420
Buna N

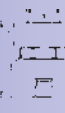
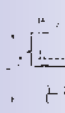
Steel Hardened, Nickel Plated

Chart

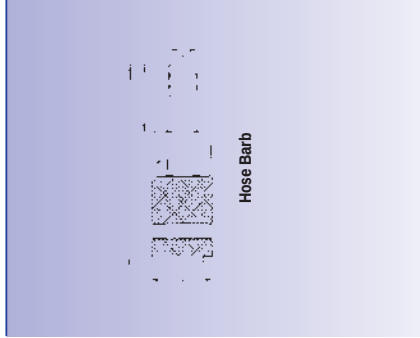


Couplings

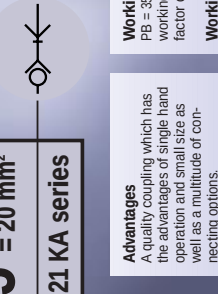


	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	M 5		7	18		5					Standard Design	20SF AM05 MXX
											Nickel Plated	20SF AM05 MXN
	G 1/8		11	20		7					Standard Design	20SF AW10 MXX
											Nickel Plated	20SF AW10 MXN
	M 5		7	17		5					Standard Design	20SF IM05 MXX
											Nickel Plated	20SF IM05 MXN
	G 1/8		12	19		7					Standard Design	20SF IW10 MXX
											Nickel Plated	20SF IW10 MXN

Couplings



Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm	19	76	23	25					Standard Design	17KA TF06 SPN
8 mm	19	76	23	25					Standard Design	17KA TF08 SPN
10 mm	19	76	23	25					Standard Design	17KA TF10 SPN
13 mm	19	76	23	25					Standard Design	17KA TF13 SPN



Nominal Diameter 5 = 20 mm ²
21 KA series

Technical Description
Our 21 series is a larger version of the 20 series. This single hand operated, quick connect coupling is ideal wherever space plays a major role. It can be supplied as straight through (no valve), single shut-off or double shut-off. This series is available in thermoplastics (page 186) as well as Rectukey (page 224) versions.

Advantages
A quality coupling which has the advantages of single hand operation and small size as well as a multitude of connecting options.

Applications
A quality coupling which has the advantages of single handed operation and small size as well as a multitude of connecting options.

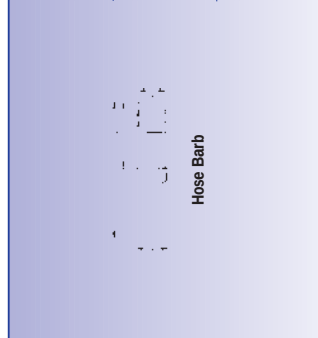
Interchangeability
RECTUS 90, CAMOZZI, EWO, KANI

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

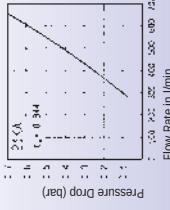
Plugs



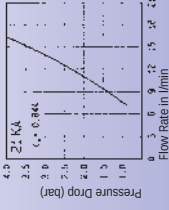
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		58	12	25					Standard Design	17SF TF06 SXN
8 mm		52	12	25					Standard Design	17SF TF08 SXN
10 mm		52	12	25					Standard Design	17SF TF10 SXN

Chart

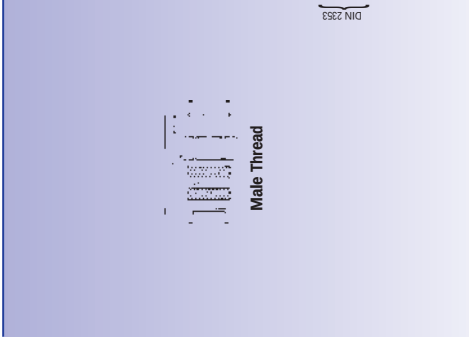
Air



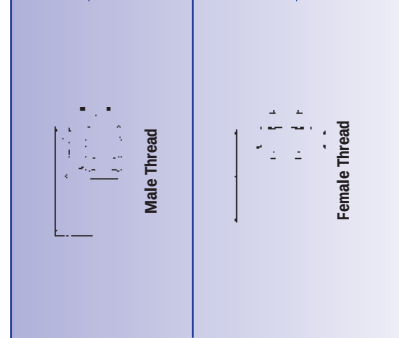
Water



Couplings



Plugs



Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/8	11	37		9					Standard Design	17SF AK10 SXN
R 1/4	14	42		12					Standard Design	17SF AK13 SXN
G 1/8	14	33		7					Standard Design	17SF IW10 SXN
G 1/4	17	33		9					Standard Design	17SF IW13 SXN

Couplings

[illegible]

Couplings

 Panel Mount, Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
	5 mm		17	60	16	17	14	17	4	M 12 x 1	21KA TS05 MPX
										Standard Design	21KA TS05 MPN
										Nickel Plated	21KA TS05 RVX
										AISI 303	
	6 mm		17	60	16	17	14	17	4	M 12 x 1	21KA TS06 MPX
										Standard Design	21KA TS06 MPN
										Nickel Plated	21KA TS06 RVX
										AISI 303	
 Panel Mount, Hose Barb	8 mm		17	60	16	17	14	17	4	M 12 x 1	21KA TS08 MPX
										Standard Design	21KA TS08 MPN
										Nickel Plated	21KA TS08 RVX
										AISI 303	
	10 mm		17	60	16	17	14	19	4	M 14 x 1	21KA TS10 MPX
										Standard Design	21KA TS10 MPN
										Nickel Plated	
 Panel Mount, Hose Barb	4 x 6 mm		14	125	16	7	6			M 10 x 1	21KA KK06 MPX
										Standard Design	21KA KK06 MPN
										Nickel Plated	
	6 x 8 mm		14	130	16	7	6			M 10 x 1	21KA KK08 MPX
										Standard Design	21KA KK08 MPN
										Nickel Plated	

Plastic Hose Connection with Spring Guard

Plugs

 Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	10 mm			33	12	17					Standard Design	21SF TF10 MXX
											Nickel Plated	21SF TF10 MXN
											AISI 303	21SF TF10 RX
											AISI 316 Ti	21SF TF10 EXX
	6 mm Parker			36	16	20					Standard Design	21SF TP06 MXX
											Nickel Plated	21SF TP06 MXN
											AISI 303	21SF TP06 RX
	4 x 6 mm			32	10	6	6			M 10 x 1	Standard Design	21SF KO06 MXX
 Hose Barb											Nickel Plated	21SF KO06 MXN
											AISI 303	21SF KO06 RX
											AISI 316 Ti	21SF KO06 EXX
	6 x 8 mm			32	12	6	6			M 12 x 1	Standard Design	21SF KO08 MXX
											Nickel Plated	21SF KO08 MXN
											AISI 303	21SF KO08 RX
											AISI 316 Ti	21SF KO08 EXX
	8 x 10 mm			36	17	9	8			M 16 x 1	Standard Design	21SF KO10 MXX
											Nickel Plated	21SF KO10 MXN
	8 x 12 mm			36	17	9	8			M 16 x 1	Standard Design	21SF KO12 MXXS
 Hose Barb	4 x 6 mm			43	14	7	18	12	3	M 10 x 1	Nickel Plated	21SF KO12 MXNS
											Standard Design	21SF KS06 MXX
											Nickel Plated	21SF KS06 MXN
											AISI 303	21SF KS06 RX
											AISI 316 Ti	21SF KS06 EXX
	6 x 8 mm			44	14	7	18	17	4	M 12 x 1	Standard Design	21SF KS08 MXX
											Nickel Plated	21SF KS08 MXN
											AISI 303	21SF KS08 RX
											Standard Design	21SF TS04 MXX
											Nickel Plated	21SF TS04 MXN
 Hose Barb	5 mm			50	14	17	14	17	4	M 12 x 1	Standard Design	21SF TS05 MXX
											Nickel Plated	21SF TS05 MXN
											Nickel Plated	21SF TS05 MXX
	6 mm			50	14	17	14	17	4	M 12 x 1	Standard Design	21SF TS06 MXX
											Nickel Plated	21SF TS06 MXN
											Standard Design	21SF TS08 MXX
											Nickel Plated	21SF TS08 MXN
 Hose Barb	8 mm			50	14	17	14	17	4	M 12 x 1	Standard Design	21SF TS09 MXX
											Nickel Plated	21SF TS09 MXN
											Standard Design	21SF TS10 MXX
											Nickel Plated	21SF TS10 MXN
	10 mm			50	17	17	14	19	4	M 14 x 1	Standard Design	21SF TS10 MXX
											Nickel Plated	21SF TS10 MXN
											Standard Design	21SF KK06 MXX
 Hose Barb	4 x 6 mm			115	6	6				M 10 x 1	Standard Design	21SF KK06 MXN
											Nickel Plated	21SF KK06 MXN
											Standard Design	21SF KK08 MXX
											Nickel Plated	21SF KK08 MXN
	6 x 8 mm			120	6	6				M 12 x 1	Standard Design	21SF KK08 MXX
											Nickel Plated	21SF KK08 MXN
											Standard Design	21SF TS09 MXX
											Nickel Plated	21SF TS09 MXN

Plastic Hose Connection with Spring Guard

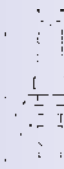
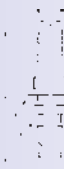
Plugs

 Male Thread	G 1/8	14	25	7		Standard Design	21SF AW10 MXX
						Nickel Plated	21SF AW10 MXN
						AlSi 303	21SF AW10 RXX
						AlSi 316 Ti	21SF AW10 EXX
						Standard Design	21SF AW13 MXX
						Nickel Plated	21SF AW13 MXN
	G 1/4	17	28	9		AlSi 303	21SF AW13 RXX
						AlSi 316 Ti	21SF AW13 EXX
						Standard Design	21SF AW17 MXX
						Nickel Plated	21SF AW17 MXN
						AlSi 303	21SF AW17 RXX
						AlSi 316 Ti	21SF AW17 EXX
	M 10 x 1	14	26	8		Standard Design	21SF AD10 MXX
						Nickel Plated	21SF AD10 MXN
						AlSi 303	21SF AM10 RXX
						Standard Design	21SF AD12 MXX
						Nickel Plated	21SF AD12 MXN
						AlSi 303	21SF AM12 RXX
	M 12 x 1.5	17	28	10		Standard Design	21SF AD14 MXX
						Nickel Plated	21SF AD14 MXN
						AlSi 303	21SF AD14 RXX
						Standard Design	21SF IW10 MXX
						Nickel Plated	21SF IW10 MXN
						AlSi 303	21SF IW10 RXX
M 14 x 1.5	17	28	10		AlSi 316 Ti	21SF IW10 EXX	
					Standard Design	21SF IW13 MXX	
					Nickel Plated	21SF IW13 MXN	
					AlSi 303	21SF IW13 RXX	
					AlSi 316 Ti	21SF IW13 EXX	
					Standard Design	21SF IW17 MXX	
G 1/8	14	25	8		Nickel Plated	21SF IW17 MXN	
					AlSi 303	21SF IW17 RXX	
					AlSi 316 Ti	21SF IW17 EXX	
					Standard Design	21SF IM10 MXX	
					Nickel Plated	21SF IM10 MXN	
					AlSi 303	21SF IM10 RXX	
G 1/4	17	25	9		Standard Design	21SF IM12 MXX	
					Nickel Plated	21SF IM12 MXN	
					AlSi 303	21SF IM12 RXX	
					Standard Design	21SF IM14 MXX	
					Nickel Plated	21SF IM14 MXN	
					AlSi 303	21SF IM14 RXX	
M 10 x 1	14	26	9		Standard Design	21SF IM14 MXX	
					Nickel Plated	21SF IM14 MXN	
					AlSi 303	21SF IM14 RXX	
					Standard Design	21SF IM12 MXX	
					Nickel Plated	21SF IM12 MXN	
					AlSi 303	21SF IM12 RXX	
M 12 x 1.5	17	27	10		Standard Design	21SF IM12 MXX	
					Nickel Plated	21SF IM12 MXN	
					AlSi 303	21SF IM12 RXX	
					Standard Design	21SF IM14 MXX	
					Nickel Plated	21SF IM14 MXN	
					AlSi 303	21SF IM14 RXX	
M 14 x 1.5	17	27	10		Standard Design	21SF IM14 MXX	
					Nickel Plated	21SF IM14 MXN	
					AlSi 303	21SF IM14 RXX	
					Standard Design	21SF IM12 MXX	
					Nickel Plated	21SF IM12 MXN	
					AlSi 303	21SF IM12 RXX	

Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	8 mm	14	46	20	17				Standard Design	90KA TF08 MPX
									Nickel Plated	90KA TF08 MPN
	9 mm	14	46	20	17				Standard Design	90KA TF09 MPX
									Nickel Plated	90KA TF09 MPN
	10 mm	14	46	20	17				Standard Design	90KA TF10 MPX
									Nickel Plated	90KA TF10 MPN

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	4 mm	32	9	17					Standard Design	21SF TF04 MXX
									Nickel Plated	21SF TF04 MXN
	5 mm	32	9	17					Standard Design	21SF TF05 MXX
									Nickel Plated	21SF TF05 MXN
	6 mm	32	9	17					Standard Design	21SF TF06 MXX
									Nickel Plated	21SF TF06 MXN
 Hose Barb	8 mm	32	9	17					Standard Design	21SF TF08 MXX
									Nickel Plated	21SF TF08 MXN
	9 mm	32	9	17					Standard Design	21SF TF09 MXX
									Nickel Plated	21SF TF09 MXN
	10 mm	32	9	17					Standard Design	21SF TF10 MXX
									Nickel Plated	21SF TF10 MXN
 Plastic Hose Connection	4 x 6 mm	32	10	6	6			M 10 x 1	Standard Design	21SF KO06 MXX
									Nickel Plated	21SF KO06 MXN
	6 x 8 mm	32	12	6	6			M 12 x 1	Standard Design	21SF KO08 MXX
									Nickel Plated	21SF KO08 MXN
	8 x 10 mm	17	36	9	8			M 16 x 1	Standard Design	21SF KO10 MXX
									Nickel Plated	21SF KO10 MXN
 Panel Mount, Plastic Hose Connection	8 x 12 mm	17	36	9	8			M 16 x 1	Standard Design	21SF KO12 MXXS
									Nickel Plated	21SF KO12 MXNS
	4 x 6 mm	14	43	7	18	12	3	M 10 x 1	Standard Design	21SF KS06 MXX
									Nickel Plated	21SF KS06 MXN
	6 x 8 mm	14	44	7	18	17	4	M 12 x 1	Standard Design	21SF KS08 MXX
									Nickel Plated	21SF KS08 MXN
 Panel Mount, Hose Barb	4 mm	14	50	17	14	14	4	M 10 x 1	Standard Design	21SF TS04 MXX
									Nickel Plated	21SF TS04 MXN
	5 mm	14	50	17	14	17	4	M 12 x 1	Standard Design	21SF TS06 MXX
									Nickel Plated	21SF TS06 MXN
	6 mm	14	50	17	14	17	4	M 12 x 1	Standard Design	21SF TS06 MXX
									Nickel Plated	21SF TS06 MXN
 Panel Mount, Hose Barb	8 mm	14	50	17	14	17	4	M 12 x 1	Standard Design	21SF TS08 MXX
									Nickel Plated	21SF TS08 MXN
	9 mm	14	50	17	14	17	4	M 12 x 1	Standard Design	21SF TS09 MXX
									Nickel Plated	21SF TS09 MXN
	10 mm	17	50	17	14	19	4	M 14 x 1	Standard Design	21SF TS10 MXX
									Nickel Plated	21SF TS10 MXN

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Plastic Hose Connection with Spring Guard	4 x 6 mm	115		6	6			M 10 x 1	Standard Design	21SF KK06 MXX
									Nickel Plated	21SF KK06 MXN
	6 x 8 mm	120		6	6			M 12 x 1	Standard Design	21SF KK08 MXX
									Nickel Plated	21SF KK08 MXN

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	G 1/8	14	25	7					Standard Design	21SF AW10 MXX
									Nickel Plated	21SF AW10 MXN
	G 1/4	17	28	9					Standard Design	21SF AW13 MXX
									Nickel Plated	21SF AW13 MXN
	G 3/8	19	28	9					Standard Design	21SF AW17 MXX
									Nickel Plated	21SF AW17 MXN
 Male Thread	M 10 x 1	14	26	8					Standard Design	21SF AD10 MXX
									Nickel Plated	21SF AD10 MXN
	M 12 x 1.5	17	28	10					Standard Design	21SF AD12 MXX
									Nickel Plated	21SF AD12 MXN
	M 14 x 1.5	19	28	10					Standard Design	21SF AD14 MXX
									Nickel Plated	21SF AD14 MXN
 Female Thread	G 1/8	14	25	9					Standard Design	21SF IW10 MXX
									Nickel Plated	21SF IW10 MXN
	G 1/4	17	25	9					Standard Design	21SF IW13 MXX
									Nickel Plated	21SF IW13 MXN
	G 3/8	19	26	9					Standard Design	21SF IW17 MXX
									Nickel Plated	21SF IW17 MXN
 Female Thread	M 10 x 1	14	26	9					Standard Design	21SF IM10 MXX
									Nickel Plated	21SF IM10 MXN
	M 12 x 1.5	17	27	10					Standard Design	21SF IM12 MXX
									Nickel Plated	21SF IM12 MXN
	M 14 x 1.5	17	27	10					Standard Design	21SF IM14 MXX
									Nickel Plated	21SF IM14 MXN

Nominal Diameter

5,5

= 25 mm²

18 KA series

Technical Description

Simple operation and slim, compact construction are the most important features of the 18 series. The ULTRA-FLO valve allows considerably more flow with low pressure drop.

Advantages

Flow-optimised ULTRA-FLOW valve, underpinning of O-ring as well as single hand operation.

Applications

Medical engineering, refill systems, compressed air systems, air tools. Limited use for liquids because of the zinc die-casting valve and the sleeve (steel hardened).

Interchangeability

STÄUBLI RBE08, CEJN 281, OETIKER, ISO C 6150 C

Working Pressure

PB = 35 bar maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna, N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Plug

Plug

Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Steel Hardened, Nickel Plated
Zinc Die-Casting, Nickel Plated
Brass
Brass
AISI 301
AISI 420
Buna N

Steel Hardened, Nickel Plated

Chart

Pressure Drop (bar)

Flow Rate in l/min

Air

Pressure Drop (bar)

Flow Rate in l/min

Water

18 KA series

actual size

18 KA series

actual size

Single Shut-Off Couplings

42

Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
9 mm	19	76	23	25					Standard Design	18KA TF09 MPN
10 mm	19	76	23	25					Standard Design	18KA TF10 MPN
13 mm	19	76	23	25					Standard Design	18KA TF13 MPN
6 x 8 mm	19	63	23	7	6			M 12 x 1	Standard Design	18KA KO08 MPN
8 x 10 mm	19	67	27	9	8			M 16 x 1	Standard Design	18KA KO10 MPN
9 x 12 mm	19	67	23	9	8			M 16 x 1	Standard Design	18KA KO12 MPN
6 x 8 mm	19	155	23	7	6			M 12 x 1	Standard Design	18KA KK08 MPN
8 x 10 mm	19	165	23	9	8			M 16 x 1	Standard Design	18KA KK10 MPN
9 x 12 mm	19	170	23	9	8			M 16 x 1	Standard Design	18KA KK12 MPN

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		59	12	25					Standard Design	18SF TF06 SXN
8 mm		59	12	25					Standard Design	18SF TF08 SXN
10 mm		59	12	25					Standard Design	18SF TF10 SXN

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	17	41		9					Standard Design	18SF AW13 SXN
G 3/8	19	41		9					Standard Design	18SF AW17 SXN
G 1/4	17	43		9					Standard Design	18SF IW13 SXN
G 3/8	19	44		9					Standard Design	18SF IW17 SXN

43

Nominal Diameter

5,5

= 25 mm²

19 KA series



Technical Description

The 19 series are couplings made of brass, however they have a hardened nickel-plated steel sleeve. The ULTRA-FLO valve guarantees greater flow capacity with very low pressure drop. The 19 series is mainly used in Great Britain.

Advantages

Single hand operation and high flow performance. Compact and light design with a multitude of connecting options.

Applications

Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability

PCL 60 (UK)

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

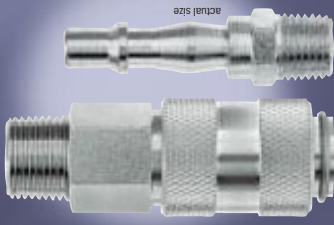
Plug

Plug

Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Steel Hardened, Nickel Plated
Zinc Die-Casting, Nickel Plated
Brass
Brass
AISI 301
AISI 420
Buna N

Steel Hardened, Nickel Plated



Chart

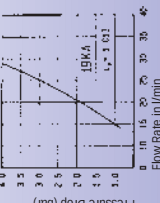
Air



Pressure Drop (bar)

Flow Rate in l/min

Water



Pressure Drop (bar)

Flow Rate in l/min

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Single Shut-Off Couplings

44

Couplings

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Hose Barb	10 mm	19	76	23	25					Standard Design	19KA TF10 MPN
	13 mm	19	76	23	25					Standard Design	19KA TF13 MPN
Plastic Hose Connection	6 x 8 mm	19	64	23	7	6			M 12 x 1	Standard Design	19KA KO8 MPN
	8 x 10 mm	19	68	23	9	8			M 16 x 1	Standard Design	19KA KO10 MPN
	9 x 12 mm	19	68	23	9	8			M 16 x 1	Standard Design	19KA KO12 MPN
	6 x 8 mm	19	160	23	7	6			M 12 x 1	Standard Design	19KA KK08 MPN
Plastic Hose Connection with Spring Guard	8 x 10 mm	19	160	23	7	6			M 16 x 1	Standard Design	19KA KK10 MPN
	9 x 12 mm	19	160	23	7	6			M 16 x 1	Standard Design	19KA KK12 MPN

Valved Plugs

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Hose Barb	6 mm		60	12	25					Standard Design	19SF TF06 SYN
	8 mm		60	12	25					Standard Design	19SF TF08 SYN
	10 mm		60	12	25					Standard Design	19SF TF10 SYN

Plugs

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Male Thread	R 1/4	14	50	12						Standard Design	19SF AK13 SYN
	R 3/8	17	50	12						Standard Design	19SF AK17 SYN
	G 1/4	17	46	9						Standard Design	19SF IW13 SYN
	G 3/8	19	47	9						Standard Design	19SF IW17 SYN

Couplings

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Male Thread	R 1/4	19	63	23	12					Standard Design	19KA AK13 MPN
	R 3/8	19	62	23	12					Standard Design	19KA AK17 MPN
	R 1/2	22	68	23	17					Standard Design	19KA AK21 MPN
	G 1/4	19	58	23	9					Standard Design	19KA IW13 MPN
Female Thread	G 3/8	19	58	23	9					Standard Design	19KA IW17 MPN
	G 1/2	24	60	23	12					Standard Design	19KA IW21 MPN
	6 mm	19	76	23	25					Standard Design	19KA TF06 MPN
	8 mm	19	76	23	25					Standard Design	19KA TF08 MPN
Hose Barb	9 mm	19	76	23	25					Standard Design	19KA TF09 MPN

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Nominal Diameter

5,5 = 25 mm²

22 KA series

Technical Description

The 22 series is fitted with the ULTRA-FLO valve, giving it superior flow characteristics to the 14 series. As a brass/steel combination, it is highly suitable for industrial use. Please order the special brass valve version for use with liquids.

Advantages

High flow performance with very low pressure drop and with a multitude of connecting options.

Applications

Air tools, automotive, compressed air, mechanical engineering, compressors, pneumatic automation.

Interchangeability

ARO 210, PARKER 50, CEJN 300, ORION 44510, RECTUS 14

Material

Coupling
Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Steel Hardened, Nickel Plated
Zinc Die-Casting, Nickel Plated
Brass
Brass
AISI 301
AISI 420
Buna N

Plug

Plug
Steel Hardened, Nickel Plated
or Brass and Brass Nickel Plated

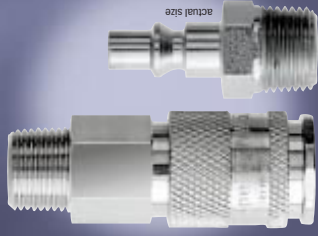
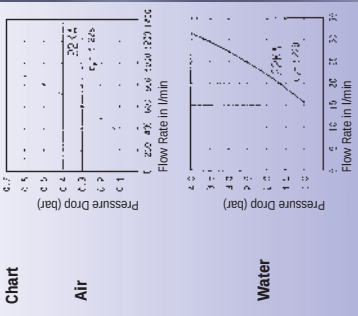
Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.



Couplings

	Male Thread									
	R 1/4	19	61	23	12				Standard Design	22KA AK13 MPN
	R 3/8	19	60	23	12				Standard Design	22KA AK17 MPN
	R 1/2	22	61	23	17				Standard Design	22KA AK21 MPN
	Female Thread									
	G 1/4	19	56	23	9				Standard Design	22KA IW13 MPN
	G 3/8	19	55	23	9				Standard Design	22KA IW17 MPN
	G 1/2	24	58	23	12				Standard Design	22KA IW21 MPN
	Hose Barb									
	6 mm	19	74	23	25				Standard Design	22KA TF06 MPN
	8 mm	19	74	23	25				Standard Design	22KA TF08 MPN
	9 mm	19	74	23	25				Standard Design	22KA TF09 MPN
	10 mm	19	74	23	25				Standard Design	22KA TF10 MPN
	13 mm	19	74	23	25				Standard Design	22KA TF13 MPN

Couplings

Plastic Hose Connection	6 x 8 mm	19	61	23	7	6	M 12 x 1	Standard Design	22KA KO08 MPN
	8 x 10 mm	19	65	23	9	8	M 16 x 1	Standard Design	22KA KO10 MPN
	9 x 12 mm	19	65	23	9	8	M 16 x 1	Standard Design	22KA KO12 MPN
Plastic Hose Connection with Spring Guard	6 x 8 mm	19	126	23	7	6	M 12 x 1	Standard Design	22KA KK08 MPN
	8 x 10 mm	19	160	23	7	6	M 16 x 1	Standard Design	22KA KK10 MPN
	9 x 12 mm	19	160	23	7	6	M 16 x 1	Standard Design	22KA KK12 MPN

Plugs

Hose Barb	Connection A					Connection B					Part Number
	Hex SW	L	D	L1	L2	Hex1 SW	B	G	Version		
	6 mm		49	12	25				Standard Design	22SF TF06 SYN	
									Brass	22SF TF06 MXX	
	8 mm		49	12	25				Brass, Nickel Plated	22SF TF06 MXN	
									Standard Design	22SF TF08 SYN	
									Brass	22SF TF08 MXX	
									Brass, Nickel Plated	22SF TF08 MXN	
	10 mm		49	12	25				Standard Design	22SF TF10 SYN	
									Brass	22SF TF10 MXX	
								Brass, Nickel Plated	22SF TF10 MXN		
13 mm		49	15	25				Standard Design	22SF TF13 SYN		
								Brass	22SF TF13 MXX		
								Brass, Nickel Plated	22SF TF13 MXN		

Plugs

	Connection A					Connection B					Part Number
	Hex SW	L	D	L1	L2	Hex1 SW	B	G	Version		
 Male Thread	R 1/4	14	41	12					Standard Design	22SF AK13 SYN	
	G 1/4								Brass	22SF AK13 MXX	
	R 3/8	17	41	12					Brass, Nickel Plated	22SF AK13 MNN	
	G 3/8								Standard Design	22SF AK17 SYN	
									Brass	22SF AK17 MXX	
									Brass, Nickel Plated	22SF AK17 MNN	
	R 1/2	22	46	17					Standard Design	22SF AK21 SYN	
	G 1/2								Brass	22SF AK21 MXX	
 Female Thread	G 1/4	17	35	9					Standard Design	22SF IW13 SYN	
									Brass	22SF IW13 MXX	
									Brass, Nickel Plated	22SF IW13 MNN	
	G 3/8	19	35	10					Standard Design	22SF IW17 SYN	
									Brass	22SF IW17 MXX	
									Brass, Nickel Plated	22SF IW17 MNN	
	G 1/2	24	38	12					Standard Design	22SF IW21 SYN	

23 KA series



23 KA series

Technical Description

The 23 series is the optimum flow alternative to the 24 series. It is fitted with the ULTRA-FLO valve and can also be used with large compressed air tools. Please order the special brass valve version for use with liquids.

Advantages

High flow performance with low pressure drop and a multitude of connecting options.

Applications

Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability

INDUSTRIAL	-20°C up to +100°C (Buna N)
INTERCHANGE 1/4,	-40°C up to +120/150°C (EPDM)
US-MIL - SPEC-C-4109,	-15°C up to +200°C (Viton®)
FORSTER, CEJN.	depending on the medium.

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

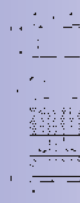
Coupling

Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Steel Hardened, Nickel Plated
Valve	Zinc Die-Casting, Nickel Plated
Inner Sleeve	Brass
Spring Plate	Brass
Spring and Locking Ring	AlSi 301
Locking Balls	AlSi 420
Seals	Buna N

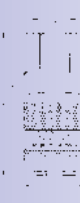
Plug

Plug
Steel Hardened, Nickel Plated
or Brass

Couplings



Male Thread



Female Thread



Hose Barth

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	59	23	12						Standard Design	23KA AK13 MPN
R 3/8	19	59	23	12						Standard Design	23KA AK17 MPN
R 1/2	22	60	23	17						Standard Design	23KA AK21 MPN
G 1/4	19	55	23	10						Standard Design	23KA IW13 MPN
G 3/8	19	54	23	9						Standard Design	23KA IW17 MPN
G 1/2	24	57	23	12						Standard Design	23KA IW21 MPN
6 mm	19	73	23	25						Standard Design	23KA TF06 MPN
8 mm	19	73	23	25						Standard Design	23KA TF08 MPN
9 mm	19	73	23	25						Standard Design	23KA TF09 MPN

Couplings

Hose Barb



Plastic Hose Connection



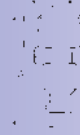
Plastic Hose Connection with Spring Guard

Plugs



Hose Barb

Plugs



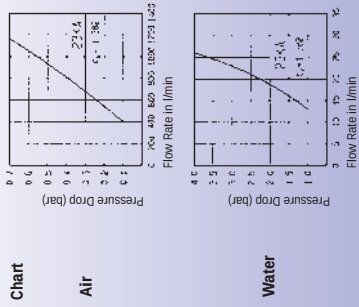
Male Thread



Female Thread



Flex-Joint, Male Thread



24 KA series



Technical Description
Durable, single hand quick connect coupling made of brass. The sealed sleeve prevents dirt from reaching the internal parts. The construction is based on the 26 series which has proven its worth many times over and can be used for a multitude of applications.

Interchangeability

ARO INDUSTRIAL INTER-
CHANGE, PARKER 50,
CEJN 310, FORSTER,
various Swiss products,
US-MIL-SPEC-C-4109,
HANSEN 3000, GROMELLE
RECTUS 23, ISO 6150 B

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

Working temperature
 -20°C up to +100°C (Buna N)
 -40°C up to +120/150°C (EPDM)
 -15°C up to +200°C (Viton®)
 depending on the medium

Applications

Applications
Air tools, automotive, compressed air, mechanical engineering compressors

Advantages

and above 1300 cc special seats are available on request.

Standard Version

Brass	AISI 301
Brass	AISI 420
Brass	Buna N
Brass	

Additional Version

Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N

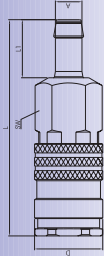
Plug

Steel Hardened, Nickel Plated
or BrassSteel Hardened, Nickel Plated
or Brass

Couplings

Couplings											
 Male Thread	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	24KA AW13 MPX
											Standard Design
	G 1/4	22	43	25	9					Nickel Plated	24KA AW13 MPN
	G 3/8	22	43	25	9					Standard Design	24KA AW17 MPX
										Nickel Plated	24KA AW17 MPN
	G 1/2	22	46	25	12					Standard Design	24KA AW21 MPX
										Nickel Plated	24KA AW21 MPN
	 Female Thread	G 1/4	22	43	25	11				Standard Design	24KA IW13 MPX
									Nickel Plated	24KA IW13 MPN	
G 3/8		22	43	25	9				Standard Design	24KA IW17 MPX	
									Nickel Plated	24KA IW17 MPN	
G 1/2	24	46	25	12				Standard Design	24KA IW21 MPX		
								Nickel Plated	24KA IW21 MPN		
 Hose Barb	6 mm	21	60	25	25				Standard Design	24KA TF06 MPX	
									Nickel Plated	24KA TF06 MPN	
	8 mm	21	60	25	25				Standard Design	24KA TF08 MPX	
									Nickel Plated	24KA TF08 MPN	
	9 mm	21	60	25	25				Standard Design	24KA TF09 MPX	
									Nickel Plated	24KA TF09 MPN	

Couplings



Working Pressure

Working Pressure
PB = 35 bar, maximum static
working pressure with safety
factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

Working Temperature*

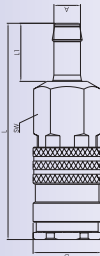
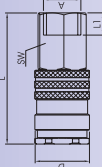
Working Temperature*
 -20°C up to +100°C (Buna N)
 -40°C up to +120/150°C (EPDM)
 -15°C up to +200°C (Viton®)
 depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

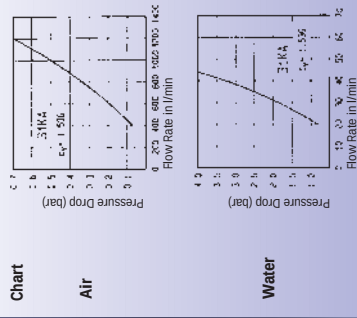
Standard Version

Standard Version
Brass, Nickel Plated
Nitride Steel, Black
Brass, Nickel Plated
Brass
Brass
AISI 301
AISI 420 C
Buna N

!



The diagram illustrates the connection of a male thread to a female thread using a plug. On the left, a vertical black bar contains the word "Plugs" in white. The main area is divided into two horizontal sections by a thin blue line. The top section, labeled "Male Thread" on the right, shows a cross-section of a male thread (a bolt) with a plug inserted into its end. The bottom section, labeled "Female Thread" on the right, shows a cross-section of a female thread (a nut) with a plug inserted into its end. The plug is a small, cylindrical component that fits into the thread. The diagram is a technical illustration showing the internal structure of the threads and the plug.



Nominal Diameter **6** = 30 mm²

51 KB series



Technical Description
Single hand operation and excellent flow characteristics are the important features of this quick connect coupling. The shut-off plug (see page 111) as well as with a straight-through plug (no valve).

Advantages
Single hand operation, good flow performance, completely nickel-plated.

Interchangeability
WALTHER SP-006

Applications
Air tools, laboratory installations, measuring and control equipment, breathing air, machinery and plant engineering.

Working Pressure
PB = 50 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Standard Version

Brass, Nickel Plated
Steel, Nickel Plated
Steel Hardened, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N

Plug

Plug
Steel Hardened, Nickel Plated

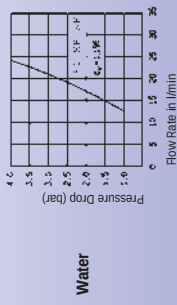


Chart

Air



Water



Couplings

Couplings													
 Male Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number	
	G 1/4		22	61	22	9					Standard Design	51KB AW13 SPN	
	G 3/8		22	61	22	9					Standard Design	51KB AW17 SPN	
	G 1/2		22	61	22	12					Standard Design	51KB AW21 SPN	
 Female Thread	G 1/4		22	63	22	12					Standard Design	51KB IW13 SPN	

Couplings

Couplings													
 Female Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number	
	G 3/8	22	63	22	12						Standard Design	51KB IW17 SPN	
	G 1/2	24	64	22	13						Standard Design	51KB IW21 SPN	
	6 mm	21	78	22	25						Standard Design	51KB TF06 SPN	
	9 mm	21	78	22	25						Standard Design	51KB TF09 SPN	
 Hose Barb	11 mm	21	78	22	25						Standard Design	51KB TF11 SPN	
	13 mm	21	78	22	25						Standard Design	51KB TF13 SPN	

Plugs

Plugs	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm			46	11	25					Standard Design	51SF TF06 SXN
 Hose Barb												
	9 mm			46	11	25					Standard Design	51SF TF09 SXN

Plugs

	Plugs												
	Connection A			Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	G 1/4	17	35		9							Standard Design	51SF AW13 SXN
	G 3/8	19	36		9							Standard Design	51SF AW17 SXN
 Female Thread													
	G 1/4	17	34		11							Standard Design	51SF IW13 SXN
	G 3/8	19	34		11							Standard Design	51SF IW17 SXN

Nominal Diameter

6

= 30 mm²

52 KB series

Technical Description

Single hand operation and excellent flow qualities are the important features of this coupling system. It can be used with a shut-off plug (see page 112) as well as a straight-through (no valve) plug.

Advantages

Single hand operation, good flow capabilities, completely nickel-plated.

Interchangeability

WALTHER LP-006

Applications

Air tools, laboratory installations, measuring and control equipment, breathing air, machinery and plant engineering.

Working Pressure

PB = 50 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Brass, Nickel Plated
Steel, Nickel Plated
Steel Hardened, Nickel Plated
Brass, Nickel Plated
Brass
Brass
AISI 301
AISI 420
Buna N

Plug

Steel Hardened, Nickel Plated

Chart

Air

Water

Couplings

Male Thread

Female Thread

Chart

Air

Pressure Drop (bar)

Flow Rate in l/min

Water

Pressure Drop (bar)

Flow Rate in l/min

Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm	21	79	25	25					Standard Design	52KB TF06 SPN
9 mm	21	80	25	25					Standard Design	52KB TF09 SPN
10 mm	21	80	25	25					Standard Design	52KB TF10 SPN
11 mm	21	80	25	25					Standard Design	52KB TF11 SPN
13 mm	21	79	25	25					Standard Design	52KB TF13 SPN

Hose Barb

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		46	12	25					Standard Design	52SF TF06 SXN
9 mm		46	12	25					Standard Design	52SF TF09 SXN
11 mm		53	13	30					Standard Design	52SF TF11 SXN
13 mm		53	15	30					Standard Design	52SF TF13 SXN

Hose Barb

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	32		7					Standard Design	52SF AW10 SXN
G 1/4	17	35		9					Standard Design	52SF AW13 SXN
G 3/8	19	35		9					Standard Design	52SF AW17 SXN
G 1/2	24	38		12					Standard Design	52SF AW21 SXN
G 1/8	14	31		7					Standard Design	52SF IW10 SXN
G 1/4	17	33		9					Standard Design	52SF IW13 SXN
G 3/8	19	33		9					Standard Design	52SF IW17 SXN
G 1/2	24	36		12					Standard Design	52SF IW21 SXN

Male Thread

Female Thread

Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	22	62	25	9					Standard Design	52KB AW13 SPN
G 3/8	22	62	25	9					Standard Design	52KB AW17 SPN
G 1/2	22	65	25	12					Standard Design	52KB AW21 SPN
G 1/4	22	62	25	10					Standard Design	52KB IW13 SPN
G 3/8	22	60	25	10					Standard Design	52KB IW17 SPN
G 1/2	22	65	25	13					Standard Design	52KB IW21 SPN

Male Thread

Female Thread

Single Shut-Off Couplings

56

Single Shut-Off Couplings

57

26 KA series



Technical Description

Standard quick connect coupling made of brass for universal use. The internal parts are protected against dirt penetration by the tight sleeve. The hardened locking pins enable it to be used in conjunction with steel plugs fitted to compressed air tools.

Advantages

Durable construction, hardened locking pins, many connecting variations, all parts are non-rusting. The connection between the intermediate coupling and the plug is tightly sealed before the valve is opened.

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

Interco

CEJN 320, RECTUS 25, and various German products.

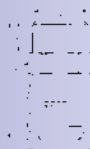
Applications

Air tools, pneumatic, safety engineering, production and assembly lines, mechanical equipment, liquids.

Material	Standard Version	Additional Version
Coupling		Nickel Plated
Back Body	Brass	Brass, Nickel Plated
Male Body	Brass	Brass, Nickel Plated
Female Body	Brass	Brass, Nickel Plated
Stem	Brass	Brass, Nickel Plated
Valve	Brass	Brass, Nickel Plated
Spring and Locking Ring	Brass	Brass, Nickel Plated
	Aluminum	Aluminum
	Aluminum	Aluminum
	Aluminum	Aluminum
Locking Balls	Aluminum	Aluminum
Seals	Buna N	Buna N



Couplings

Couplings									
									
Male Thread									
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
Male Thread	G 1/8	22	43	25	9			Standard Design	28KA AW10 MPX
								Nickel Plated	28KA AW10 MPN
	G 1/4	22	39	25	9			Standard Design	28KA AW13 MPX
								Nickel Plated	28KA AW13 MPN
	G 3/8	22	41	25	9			Standard Design	28KA AW17 MPX
								Nickel Plated	28KA AW17 MPN
	G 1/2	22	44	25	12			Standard Design	28KA AW21 MPX
								Nickel Plated	28KA AW21 MPN
	G 1/2	24	42	25	10			Standard Design	28KA AW21 MPXSB
								Nickel Plated	28KA AW21 MPXSB
	M 14 x 1,5	22	42	25	10			Standard Design	28KA AD14 MPX
								Nickel Plated	28KA AD14 MPN
M 16 x 1,5	22	43	25	11			Standard Design	28KA AD16 MPX	
							Nickel Plated	28KA AD16 MPN	
M 18 x 1,5	22	43	25	11			Standard Design	28KA AD18 MPX	
							Nickel Plated	28KA AD18 MPN	

Couplings

Couplings												
	Connection A	Hex SW	L	D	L1	L2	Hex. SW1	B	G	Version	Part Number	
 Female Thread	G 1/4	22	41	25	9					Standard Design	26KA IW13 MPX	
										Nickel Plated	26KA IW13 MPN	
	G 3/8	22	41	25	9					Standard Design	26KA IW17 MPX	
										Nickel Plated	26KA IW17 MPN	
	G 1/2	24	44	25	10					Standard Design	26KA IW21 MPX	
										Nickel Plated	26KA IW21 MPN	
	M 14 x 1.5	22	44	25	9					Standard Design	26KA IM14 MPX	
										Nickel Plated	26KA IM14 MPN	
M 15 x 1.5	22	44	25	9					Standard Design	26KA IM16 MPX		
									Nickel Plated	26KA IM16 MPN		
 Hose Barb	M 15 x 1.5	22	44	25	9					Standard Design	26KA IM18 MPX	
										Nickel Plated	26KA IM18 MPN	
	6 mm	21	58	25	25					Standard Design	26KA TF06 MPX	
										Nickel Plated	26KA TF06 MPN	
	8 mm	21	58	25	25					Standard Design	26KA TF08 MPX	
										Nickel Plated	26KA TF08 MPN	
	9 mm	21	58	25	25					Standard Design	26KA TF09 MPX	
										Nickel Plated	26KA TF09 MPN	
10 mm	21	58	25	25					Standard Design	26KA TF10 MPX		
									Nickel Plated	26KA TF10 MPN		
 Plastic Hose Connection	13 mm	21	58	25	25					Standard Design	26KA TF13 MPX	
										Nickel Plated	26KA TF13 MPN	
	6 mm Parker	21	58	25	20.5					Standard Design	26KA TP06 MPX	
										Nickel Plated	26KA TP06 MPN	
	10 mm Parker	21	58	25	24					Standard Design	26KA TP10 MPX	
										Nickel Plated	26KA TP10 MPN	
	13 mm Parker	21	58	25	28					Standard Design	26KA TP13 MPX	
										Nickel Plated	26KA TP13 MPN	
4 x 6 mm	21	58	25	7	6					Standard Design	26KA KO06 MPX	
										Nickel Plated	26KA KO06 MPN	
 Panel Mount, Hose Barb	6 x 8 mm	21	45	25	7	6				Standard Design	26KA KO08 MPX	
										Nickel Plated	26KA KO08 MPN	
	8 x 10 mm	21	49	25	9	8				Standard Design	26KA XO10 MPX	
										Nickel Plated	26KA XO10 MPN	
	9 x 12 mm	21	49	25	9	8				Standard Design	26KA XO12 MPX	
										Nickel Plated	26KA XO12 MPN	
	6 mm	21	60	25	17	10	17	4			Standard Design	26KA TS06 MPX
											Nickel Plated	26KA TS06 MPN
 Plastic Hose Connection with Spring Guard	8 mm	21	63	25	17	14	17	4		Standard Design	26KA TS08 MPX	
										Nickel Plated	26KA TS08 MPN	
	10 mm	21	72	25	14	17	4			Standard Design	26KATS10 MPX	
										Nickel Plated	26KATS10 MPN	
	6 x 8 mm	21	132	25	7	6				Standard Design	26KA KK08 MPX	
										Nickel Plated	26KA KK08 MPN	
	8 x 10 mm	21	143	25	9	8				Standard Design	26KA KK10 MPX	
										Nickel Plated	26KA KK10 MPN	
9 x 12 mm	21	150	25	9	8				Standard Design	26KA KK12 MPX		
									Nickel Plated	26KA KK12 MPN		

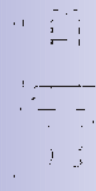
Plugs

 Hose Barb	4 mm	48	12	25					26SF TF04 MXX
									26SF TF04 MXN
	6 mm	48	12	25					26SF TF06 MXX
									26SF TF06 MXN
	8 mm	48	12	25					26SF TF08 MXX
									26SF TF08 MXN
	9 mm	48	12	25					26SF TF09 MXX
									26SF TF09 MXN
	10 mm	48	12	25					26SF TF10 MXX
									26SF TF10 MXN
 Plastic Hose Connection	13 mm	48	15	25					26SF TF13 MXX
									26SF TF13 MXN
	6 mm Parker	43	16	20/5					26SF TP06 MXX
									26SF TP06 MXN
	10 mm Parker	46	22	24					26SF TP10 MXX
									26SF TP10 MXN
	13 mm Parker	50	24	28					26SF TP13 MXX
									26SF TP13 MXN
	4 x 6 mm	34	12	7	6				26SF KO06 MXX
									26SF KO06 MXN
 Panel Mount, Hose Barb	6 x 8 mm	34	12	7	8				26SF KO08 MXX
									26SF KO08 MXN
	8 x 10 mm	17	42	9	8				26SF KO10 MXX
									26SF KO10 MXN
	9 x 12 mm	17	42	9	8				26SF KO12 MXX
									26SF KO12 MXN
	6 mm	14	56	17	14	17	4		26SF TS06 MXX
									26SF TS06 MXN
	8 mm	17	56	17	14	17	4		26SF TS08 MXX
									26SF TS08 MXN
 Plastic Hose Connection with Spring Guard	10 mm	17	56	17	14	19	4		26SF TS10 MXX
									26SF TS10 MXN
	4 x 6 mm	120	12	7	6				26SF KK06 MXX
									26SF KK06 MXN
	6 x 8 mm	127	12	7	6				26SF KK08 MXX
									26SF KK08 MXN
	8 x 10 mm	17	135	9	8				26SF KK10 MXX
									26SF KK10 MXN
	9 x 12 mm	17	142	9	8				26SF KK12 MXX
									26SF KK12 MXN

Plugs

 Male Thread	G 1/8	14	31	9					26SF AW10 MXX
									26SF AW10 MXN
	G 1/4	17	33	9					26SF AW13 MXX
									26SF AW13 MXN
	G 3/8	19	33	9					26SF AW17 MXX
									26SF AW17 MXN
	G 1/2	24	38	12					26SF AW21 MXX
									26SF AW21 MXN
	M 14 x 1.5	17	35	10					26SF AD14 MXX
									26SF AD14 MXN
 Female Thread	M 16 x 1.5	19	36	11					26SF AD16 MXX
									26SF AD16 MXN
	M 18 x 1.5	22	37	11					26SF AD18 MXX
									26SF AD18 MXN
	G 1/8	14	30	7					26SF IW10 MXX
									26SF IW10 MXN
	G 1/4	17	33	10					26SF IW13 MXX
									26SF IW13 MXN
	G 3/8	19	33	10					26SF IW17 MXX
									26SF IW17 MXN
 Flex-Joint Male Thread	G 1/2	24	35	12					26SF IW21 MXX
									26SF IW21 MXN
	M 14 x 1.5	17	33	10					26SF IM14 MXX
									26SF IM14 MXN
	M 16 x 1.5	19	33	10					26SF IM16 MXX
									26SF IM16 MXN
	M 18 x 1.5	22	36	13					26SF IM18 MXX
									26SF IM18 MXN
	R 1/4	17	64	11					25FA AK13 SPN

Recoil Eliminators

 Hose Barb	6 mm	21	60	25					26SR TF06 MXX
									26SR TF06 MXN
	8 mm	21	60	25					26SR TF08 MXX
									26SR TF08 MXN
	9 mm	21	60	25					26SR TF09 MXX
									26SR TF09 MXN
	10 mm	21	60	25					26SR TF10 MXX
									26SR TF10 MXN
	13 mm	21	60	25					26SR TF13 MXX
									26SR TF13 MXN

Nominal Diameter **7,5** = 45 mm²

13 KA series



Technical Description
The 13 series has been developed based on the 25 series design. Unlike the disposable couplings common on the Asian market, it is made of brass and offers practical single hand operation.

Advantages

Due to the structural advantages offered by the pin locking system, rust and corrosion is eliminated. Good flow performance and a multitude of connecting options. The single hand operation and the reduced weight are important advantages, especially when used by female workers.

Applications

Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability

NITTO-KOHKI 200, CEJN 314, RECTUS 03

Working Pressure

P8 = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/130°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C, special seals are available on request.

Standard Version

Material

Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Pins
Seals

Additional Version

Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N

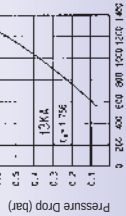
Plug

Steel Hardened, Nickel Plated

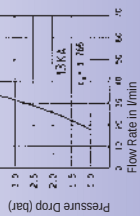
Steel Hardened, Nickel Plated

Chart

Air



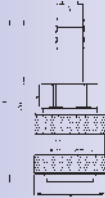
Water



Couplings



Female Thread



Hose Barb

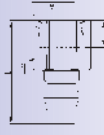
Plugs

Hose Barb

Plugs

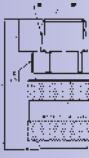


Male Thread



Female Thread

Couplings



Male Thread

Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	22	45	27	9					Standard Design	13KA IW17 MPX
									Nickel Plated	13KA IW17 MPN
G 1/2	24	48	27	12					Standard Design	13KA IW21 MPX
									Nickel Plated	13KA IW21 MPN
6 mm	21	62	27	25					Standard Design	13KA TF06 MPX
									Nickel Plated	13KA TF06 MPN
8 mm	21	62	27	25					Standard Design	13KA TF08 MPX
									Nickel Plated	13KA TF08 MPN
10 mm	21	62	27	25					Standard Design	13KA TF10 MPX
									Nickel Plated	13KA TF10 MPN
13 mm	21	62	27	25					Standard Design	13KA TF13 MPX
									Nickel Plated	13KA TF13 MPN

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm	48	15	25						Standard Design	13SF TF06 SYN
8 mm	48	15	25						Standard Design	13SF TF08 SYN
10 mm	48	15	25						Standard Design	13SF TF10 SYN
13 mm	48	15	25						Standard Design	13SF TF13 SYN

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	14	37	12						Standard Design	13SF AK13 SYN
R 3/8	17	37	12						Standard Design	13SF AK17 SYN
R 1/2	22	44	17						Standard Design	13SF AK21 SYN
G 1/4	17	32	9						Standard Design	13SF IW13 SYN
G 3/8	19	33	9						Standard Design	13SF IW17 SYN

Nominal Diameter

7,8 = 48 mm²

25 KA series

Technical Description
Low pressure drop due to the optimum flow ULTRA-FLO valve and superior plug sealing capabilities are the advantages as compared to other designs. Please order the special brass valve version for use with liquids.

Advantages
Tough construction, many connecting variations, widely interchangeable.

Applications
Air tools, laboratory installations, chemistry, measuring and control equipment, breathing air, diving equipment, safety engineering, mechanical engineering, construction.

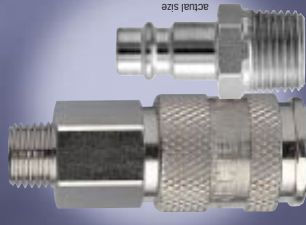
Interchangeability
CEJN 320, RECTUS 26, and various German products.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

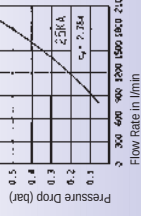
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

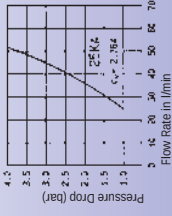
25 KA series also available as coded version (see page 226).



Chart



Air



Water

Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Steel Hardened, Nickel Plated
Zinc Die-Casting, Nickel Plated
Brass
Brass
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Additional Versions
AISI 303
AISI 303
AISI 316 Ti
AISI 303
AISI 303
AISI 316 Ti
AISI 303
AISI 303
AISI 316 Ti
AISI 301
AISI 316
Viton®
Viton®

Steel Hardened, Nickel Plated

AISI 303

AISI 316 Ti

Couplings



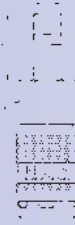
Male Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	60	23	12					Standard Design	25KA AK13 MPN
G 1/4	19	59	23	10.5					AISI 303	25KA AW13 RVX
G 1/4	19	59	23	10.5					AISI 316 Ti	25KA AW13 EVX
R 3/8	19	60	23	12					Standard Design	25KA AK17 MPN
G 3/8	19	57.5	23	9					AISI 303	25KA AW17 RVX
G 3/8	19	57.5	23	9					AISI 316 Ti	25KA AW17 EVX
R 1/2	22	61	23	17					Standard Design	25KA AK21 MPN
G 1/2	24	60.5	23	12					AISI 303	25KA AW21 RVX
G 1/2	24	60.5	23	12					AISI 316 Ti	25KA AW21 EVX
M 14 x 1.5	19	59	23	10					Standard Design	25KA AD14 MPN
									AISI 303	25KA AM14 RVX
									AISI 316 Ti	25KA AM14 EVX
M 16 x 1.5	19	60	23	11					Standard Design	25KA AD16 MPN
									AISI 303	25KA AM16 RVX
									AISI 316 Ti	25KA AM16 EVX
M 18 x 1.5	19	60	23	11					Standard Design	25KA AD18 MPN
									AISI 303	25KA AM18 RVX

Couplings



Female Thread



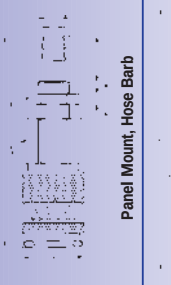
Hose Barb



Plastic Hose Connection

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	19	56	23	10					Standard Design	25KA IW13 MPN
									AISI 303	25KA IW13 RVX
									AISI 316 Ti	25KA IW13 EVX
G 3/8	19	55	23	9					Standard Design	25KA IW17 MPN
									AISI 303	25KA IW17 RVX
									AISI 316 Ti	25KA IW17 EVX
G 1/2	24	58	23	12					Standard Design	25KA IW21 MPN
									AISI 303	25KA IW21 RVX
									AISI 316 Ti	25KA IW21 EVX
M 14 x 1.5	19	55	23	9					Standard Design	25KA IM14 MPN
									AISI 303	25KA IM14 RVX
									AISI 316 Ti	25KA IM14 EVX
M 16 x 1.5	19	55	23	9					Standard Design	25KA IM16 MPN
									AISI 303	25KA IM16 RVX
									AISI 316 Ti	25KA IM16 EVX
M 18 x 1.5	22	56	23	9					Standard Design	25KA IM18 MPN
									AISI 303	25KA IM18 RVX
									AISI 316 Ti	25KA IM18 EVX
6 mm	19	74	23	25					Standard Design	25KA TF06 MPN
									AISI 303	25KA TF06 RVX
									AISI 316 Ti	25KA TF06 EVX
8 mm	19	74	23	25					Standard Design	25KA TF08 MPN
									AISI 303	25KA TF08 RVX
									AISI 316 Ti	25KA TF08 EVX
9 mm	19	74	23	25					Standard Design	25KA TF09 MPN
									AISI 303	25KA TF09 RVX
									AISI 316 Ti	25KA TF09 EVX
10 mm	19	74	23	25					Standard Design	25KA TF10 MPN
									AISI 303	25KA TF10 RVX
									AISI 316 Ti	25KA TF10 EVX
13 mm	19	74	23	25					Standard Design	25KA TF13 MPN
									AISI 303	25KA TF13 RVX
									AISI 316 Ti	25KA TF13 EVX
6 mm Parker	19	69	23	20					Standard Design	25KA TP06 MPN
10 mm Parker	19	73	23	24					Standard Design	25KA TP10 MPN
13 mm Parker	19	76	23	28					Standard Design	25KA TP13 MPN
6 x 8 mm	19	61	23	7	6			M 12 x 1	Standard Design	25KA KO08 MPN
									AISI 303	25KA KO08 RVX
									AISI 316 Ti	25KA KO08 EVX
8 x 10 mm	19	65	23	9	8			M 16 x 1	Standard Design	25KA KO10 MPN
									AISI 303	25KA KO10 RVX
									AISI 316 Ti	25KA KO10 EVX
9 x 12 mm	19	65	23	9	8			M 16 x 1	Standard Design	25KA KO12 MPN
									AISI 303	25KA KO12 RVX
									AISI 316 Ti	25KA KO12 EVX

Couplings

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm		19	76	23	17	10	17	4	M 12 x 1	Standard Design	25KA TS06 MPN
	8 mm		19	80	23	17	14	17	4	M 12 x 1	Standard Design	25KA TS08 MPN
	10 mm		19	87	23	25	14	17	4	G 1/4	Standard Design	25KA TS10 MPN
	6 x 8 mm		19	144	23	7	6			M 12 x 1	Standard Design	25KA KK08 MPN
	8 x 10 mm		19	155	23	9	8			M 16 x 1	Standard Design	25KA KK10 MPN
	9 x 12 mm		19	162	23	9	8			M 16 x 1	Standard Design	25KA KK12 MPN

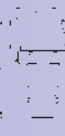
Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm			48	12	25					Standard Design	25SF TF06 SXN
	8 mm			48	12	25					AISI 303	25SF TF06 RXX
	9 mm			48	12	25					Standard Design	25SF TF08 SXN
	10 mm			48	12	25					AISI 303	25SF TF08 RXX
	13 mm			48	15	25					AISI 316 Ti	25SF TF08 EXX
	4 x 6 mm			34	12	7	6			M 10 x 1	Standard Design	25SF TF09 RXX
	6 x 8 mm			34	12	7	6			M 12 x 1	Standard Design	25SF TF10 RXX
	8 x 10 mm		17	42	9	8				M 16 x 1	Brass	25SF KO10 MXN
	9 x 12 mm		17	42	9	8				M 16 x 1	Brass	25SF KO12 MXX
	6 mm			56	17	14	17	4		M 12 x 1	Brass	26 SF TS06 MPN
	8 mm			56	17	14	17	4		M 12 x 1	Nickel Plated	26 SF TS06 RXX
	10 mm			56	17	14	17	4		M 12 x 1	Standard Design	26 SF TS08 MPN
	13 mm			56	17	14	17	4		M 12 x 1	Standard Design	26 SF TS08 RXX
	4 x 6 mm			34	12	7	6			M 10 x 1	Standard Design	25SF TF06 SXN

Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	8 mm		14	56	17	14	17	4		M 12 x 1	Brass	26SF TS08 MXX
	10 mm		17	56	17	14	19	4		M 14 x 1	Brass	26SF TS10 MXX
	4 x 6 mm			111	12	7	6			M 10 x 1	Brass	26SF KK06 MXX
	6 x 8 mm			120	12	7	6			M 12 x 1	Brass	26SF KK08 MXX
	8 x 10 mm		17	132	9	8				M 16 x 1	Brass	26SF KK10 MXN
	9 x 12 mm		17	139	9	8				M 16 x 1	Brass	26SF KK12 MXN
											Nickel Plated	26SF KK12 MXN
											Nickel Plated	26SF KK12 MXN

Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/8		13	33	9						Standard Design	25SF AK10 SXN
	G 1/8		14	31	7						AISI 303	25SF AW10 RXX
	G 1/8		14	31	7						AISI 316 Ti	25SF AW10 EXX
	R 1/4		14	37	12						Standard Design	25SF AK13 SXN
	G 1/4		17	33	9						AISI 303	25SF AW13 RXX
	G 1/4		17	33	9						AISI 316 Ti	25SF AW13 EXX
	R 3/8		17	37	12						Standard Design	25SF AK17 SXN
	G 3/8		19	33	9						AISI 303	25SF AW17 RXX
	G 3/8		19	33	9						AISI 316 Ti	25SF AW17 EXX
	R 1/2		22	43	17						Standard Design	25SF AK21 SXN
	G 1/2		24	38	12						AISI 303	25SF AW21 RXX
	G 1/2		24	38	12						AISI 316 Ti	25SF AW21 EXX
	M 14 x 1.5		17	35	10						Standard Design	25SF AD14 SXN
	M 16 x 1.5		19	36	11						Standard Design	25SF AD16 SYN



Female Thread

Plugs

Female Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	M 16 x 1,5		19	33		10					Standard Design	25SF IM16 SXN
											ANSI 303	25SF IM16 PXX
	M 18 x 1,5		22	36		13					Standard Design	25SF IM18 SXN
											ANSI 303	25SF IM18 PXX
Flex Joint, Male Thread	R 1/4		17	64		11					Standard Design	25FA AK13 SPN



Flex Joint, Male Thread

Recoil Eliminator

Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm		21	60		25					Standard Design	26SR TF06 MXX
											Nickel Plated	26SR TF06 MXN
	8 mm		21	60		25					Standard Design	26SR TF08 MXX
											Nickel Plated	26SR TF08 MXN
	9 mm		21	60		25					Standard Design	26SR TF09 MXX
											Nickel Plated	26SR TF09 MXN
	10 mm		21	60		25					Standard Design	26SR TF10 MXX
											Nickel Plated	26SR TF10 MXN
	13 mm		21	60		25					Standard Design	26SR TF13 MXX
											Nickel Plated	26SR TF13 MXN

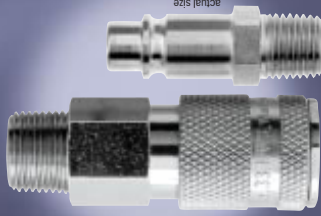


Hose Barb

Nominal Diameter

8 = 50 mm²

33 KA series



Technical Description
The 33 series is used as an interchangeable alternative to the standard couplings commonly used in Scandinavia with compressors and compressed air tools.

Advantages
Extremely high flow performance due to the RECTUS ULTRA-FLO valve, many connecting variations and a multitude of uses.

Applications
All tools, automotive, compressed air, mechanical engineering, compressors.

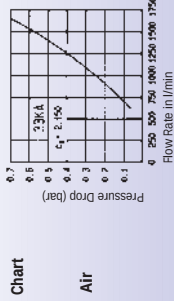
Interchangeability
Atlas Copco QTC 10

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

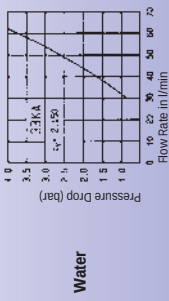
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Chart



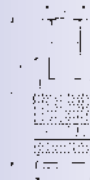
Water



Couplings



Male Thread



Female Thread

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Couplings



Female Thread



Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	19	54	23	9						Standard Design	33KA IW17 SPN
G 1/2	24	57	23	12						Standard Design	33KA IW21 SPN
6 mm	19	73	23	25						Standard Design	33KA TF06 SPN
8 mm	19	73	23	25						Standard Design	33KA TF08 SPN
10 mm	19	73	23	25						Standard Design	33KA TF10 SPN
13 mm	19	73	23	25						Standard Design	33KA TF13 SPN

Plugs



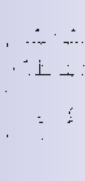
Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm	52	14	25							Standard Design	33SF TF06 SXN
8 mm	52	14	25							Standard Design	33SF TF08 SXN
10 mm	52	15	25							Standard Design	33SF TF10 SXN
13 mm	52	15	25							Standard Design	33SF TF13 SXN

Plugs



Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/8	14	40	9							Standard Design	33SF AK10 SXN
R 1/4	14	42	12							Standard Design	33SF AK13 SXN
R 3/8	17	42	12							Standard Design	33SF AK17 SXN
R 1/2	22	47	17							Standard Design	33SF AK21 SXN
G 1/8	14	34	7							Standard Design	33SF IW10 SXN
G 1/4	17	37	9							Standard Design	33SF IW13 SXN
G 3/8	17	37	9							Standard Design	33SF IW17 SXN
G 1/2	24	42	12							Standard Design	33SF IW21 SXN

Nominal Diameter **8** = 50 mm²

84 KA series



Technical Description
Simple operation and compact construction are the most important features of the 84 series. The RECTUS ULTRA-FLO valve allows high flow performance with low pressure drop.

Advantages
Valve body and sleeve are made of nickel plated steel. Underpinning of the O-ring while sealing, 6-way ball-locking system.

Applications
Air tools, automotive, industry.

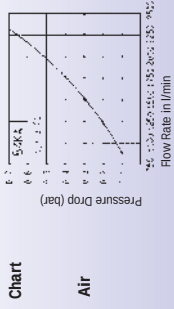
Interchangeability
STAUBLI RBE 08

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

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

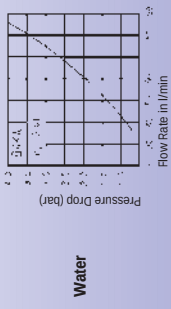
* At a temperature below -20°C and above +150°C special seals are available on request.

Chart

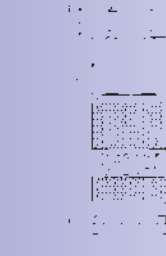


Air

Water



Couplings



Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	27	83	29	12						Standard Design	84KA AW13 SPN
G 3/8	27	83	29	12						Standard Design	84KA AW17 SPN
G 1/2	27	83	29	15						Standard Design	84KA AW21 SPN
G 1/4	27	81	29	13						Standard Design	84KA IW13 SPN

Couplings

	Female Thread	
	Hose Barb	

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	27	81	29	14						Standard Design	84KA IW18 SPN
	27	81	29	12						Standard Design	84KA IW21 SPN
8 mm	27	97	29	25						Standard Design	84KA TF08 SPN
	27	97	29	25						Standard Design	84KA TF09 SPN
10 mm	27	97	29	25						Standard Design	84KA TF10 SPN
13 mm	27	97	29	25						Standard Design	84KA TF13 SPN
16 mm	27	97	29	25						Standard Design	84KA TF16 SPN

Plugs

	Hose Barb	

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		65	16	25						Standard Design	84SF TF08 SXN
8 mm		65	16	25						Standard Design	84SF TF08 SXN
9 mm		65	16	25						Standard Design	84SF TF09 SXN
10 mm		65	16	25						Standard Design	84SF TF10 SXN
13 mm		65	16	25						Standard Design	84SF TF13 SXN
16 mm		67	20	25						Standard Design	84SF TF16 SXN

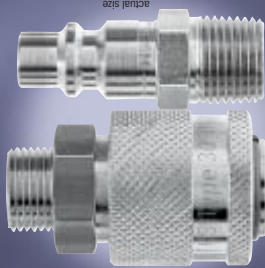
Plugs

	Male Thread	
	Female Thread	

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	17	57		12						Standard Design	84SF AW13 SXN
G 3/8	21	59		12						Standard Design	84SF AW17 SXN
G 1/2	24	64	15							Standard Design	84SF AW21 SXN
G 1/4	17	53	9							Standard Design	84SF IW13 SXN
G 3/8	19	54	9							Standard Design	84SF IW17 SXN
G 1/2	24	58	12							Standard Design	84SF IW21 SXN

Nominal Diameter **8,5** = 60 mm²

30 KA series



Technical Description
The 30 series is a rugged coupling with a pin locking system and steel valve body. This coupling system is common in the USA. The plug profile is made according to the US MIL-NORM C 4109 3/8".

Advantages
Valve body made of hardened steel, many connecting variations and a multitude of uses.

Applications
Air tools, automotive, compressed air, mechanical engineering, compressors.

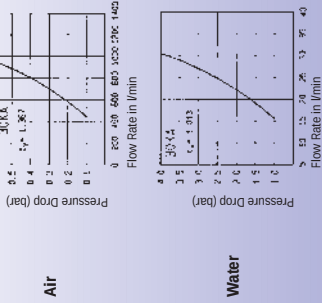
Interchangeability
INDUSTRIAL, INTERCHANGE 3/8", US-MIL-SPEC-C-4109, GROMELLE 900, ARO, HANSEN 4000, PARKER 30 3/8", ISO 6150 B

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

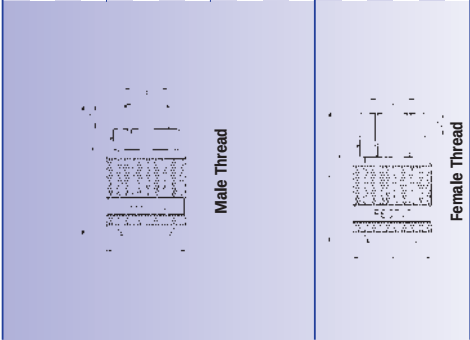
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Chart

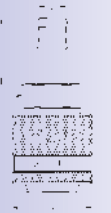
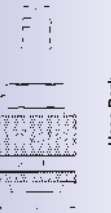


Couplings



Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4		22	49	30	9					Standard Design	30KA AW13 SPX
										Nickel Plated	30KA AW13 SPN
G 3/8		22	49	30	9					Standard Design	30KA AW17 SPX
										Nickel Plated	30KA AW17 SPN
G 1/2		22	52	30	12					Standard Design	30KA AW21 SPX
										Nickel Plated	30KA AW21 SPN
G 1/4		22	49	30	11					Standard Design	30KA IW13 SPX
										Nickel Plated	30KA IW13 SPN

Couplings

Female Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/8		22	49	30	9					Standard Design	30KA IW17 SPX
											Nickel Plated	30KA IW17 SPN
	G 1/2		24	52	30	12					Standard Design	30KA IW21 SPX
											Nickel Plated	30KA IW21 SPN
	6 mm		21	66	30	25					Standard Design	30KA TF06 SPX
											Nickel Plated	30KA TF06 SPN
	8 mm		21	66	30	25					Standard Design	30KA TF08 SPX
											Nickel Plated	30KA TF08 SPN
	10 mm		21	66	30	25					Standard Design	30KA TF10 SPX
											Nickel Plated	30KA TF10 SPN
	13 mm		21	66	30	25					Standard Design	30KA TF13 SPX
											Nickel Plated	30KA TF13 SPN

Plugs

Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm			55	16	25					Standard Design	30SF TF06 SXN
											Standard Design	30SF TF08 SXN
	8 mm			55	16	25					Standard Design	30SF TF09 SXN
											Standard Design	30SF TF10 SXN
	10 mm			55	16	25					Standard Design	30SF TF10 SXN
											Standard Design	30SF TF13 SXN
	13 mm			55	16	25					Standard Design	30SF TF13 SXN
											Standard Design	30SF TF13 SXN

Plugs

Male Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 1/4		17	42		9					Standard Design	30SF AW13 SXN
											Standard Design	30SF AW17 SXN
	G 3/8		19	42		9					Standard Design	30SF AW17 SXN
											Standard Design	30SF AW21 SXN
	G 1/2		24	46		12					Standard Design	30SF AW21 SXN
											Standard Design	30SF AW21 SXN
	G 1/4		17	40		10					Standard Design	30SF IW13 SXN
											Standard Design	30SF IW17 SXN

Female Thread

Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/8		19	42		10					Standard Design	30SF IW17 SXN
											Standard Design	30SF IW21 SXN
	G 1/2		24	43		12					Standard Design	30SF IW21 SXN
											Standard Design	30SF IW21 SXN

Nominal Diameter **9** = 63 mm²
40 KA series



Technical Description
The RECTUS 40 series single hand operated quick connect coupling is made from brass with a pin locking system. A sealed sleeve ensures that dirt cannot reach the internal parts.

Advantages
rough corrosion resistant
brass construction, single hand operation, O-ring seal.

Applications
Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability
ARO 301, ORION 44520, ORION 44530

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Pins
Seals

Standard Version

Brass
Brass
Brass
Brass
AISI 301
AISI 420
Buna N

Additional Version

Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N

Plug

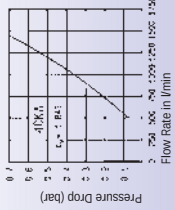
Plug

Steel Hardened, Nickel Plated

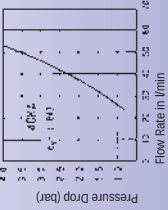
Steel Hardened, Nickel Plated

Chart

Air



Water



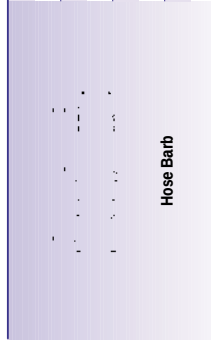
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	27	46	32	10					Standard Design	40KA IW17 MPX
									Nickel Plated	40KA IW17 MPN
G 1/2	27	46	32	11					Standard Design	40KA IW21 MPX
									Nickel Plated	40KA IW21 MPN
									Standard Design	40KA IW21 MPX
									Nickel Plated	40KA IW21 MPN

Plugs

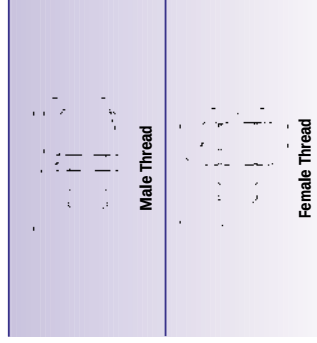
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		51	16	25					Standard Design	40SF TF06 SXN
									Standard Design	40SF TF06 SXN
									Standard Design	40SF TF06 SXN
									Standard Design	40SF TF06 SXN
									Standard Design	40SF TF06 SXN
									Standard Design	40SF TF06 SXN

Plugs



Hose Barb

Plugs



Male Thread

Female Thread

Did you know...
...that RECTUS is represented at the most important exhibition sites in the world? Find out the latest dates and exhibition data in the Internet at:

www.rectus.de

See you there!

RECTUS[®]

Nominal Diameter 10 = 80 mm²

27 KA series



Technical Description
Our ULTRA-FLO valve allows optimum flow in comparison to the size of the coupling. The coupling valve seals during the connection process. Please order the special brass valve version for use with liquids.

Advantages
Extremely high flow performance due to the RECTUS ULTRA-FLO valve, durable construction, many connecting options.

Applications
High performance air tools, production lines, construction, mechanical engineering.

Interchangeability
CEJN 410

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C bis +316°C (Kaltrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Steel Hardened, Nickel Plated
Brass
Brass
AISI 301
AISI 420
Buna N

Additional Versions

AISI 303
AISI 303
AISI 303
AISI 303
AISI 303
AISI 303
AISI 301
AISI 316
Viton®

Plug

Steel Hardened, Nickel Plated

AISI 303

AISI 316 Ti

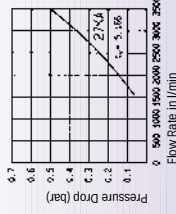
Couplings



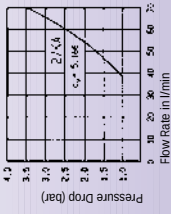
Male Thread

Chart

Air



Water



Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	24	63	27	12					Standard Design	27KA AK13 MPN
G 1/4	24	56.5	27	9					AISI 303	27KA AW13 RVX
	24	56.5	27	9					AISI 316 Ti	27KA AW13 EVX
R 3/8	24	63	27	12					Standard Design	27KA AK17 MPN
G 3/8	24	56.5	27	9					AISI 303	27KA AW17 RVX
G 3/8	24	56.5	27	9					AISI 316 Ti	27KA AW17 EVX
R 1/2	24	65	27	17					Standard Design	27KA AK21 MPN
G 1/2	24	56.5	27	12					AISI 303	27KA AW21 RVX
G 1/2	24	56.5	27	12					AISI 316 Ti	27KA AW21 EVX
R 3/4	27	65	27	17					Standard Design	27KA AK26 MPN
G 3/4	32	59.5	27	16					AISI 303	27KA AW26 RVX
G 3/4	32	59.5	27	16					AISI 316 Ti	27KA AW26 EVX

Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
G 1/4	24	56	27	10				Standard Design	27KA IW13 MPN
								AISI 303	27KA IW13 RVX
								AISI 316 Ti	27KA IW13 EVX
G 3/8	24	56	27	11				Standard Design	27KA IW17 MPN
								AISI 303	27KA IW17 RVX
								AISI 316 Ti	27KA IW17 EVX
G 1/2	24	56	27	12				Standard Design	27KA IW21 MPN
								AISI 303	27KA IW21 RVX
								AISI 316 Ti	27KA IW21 EVX
G 3/4	32	60	27	16				Standard Design	27KA IW26 MPN
								AISI 303	27KA IW26 RVX
								AISI 316 Ti	27KA IW26 EVX
6 mm	24	76	27	25				Standard Design	27KA TF06 MPN
								AISI 303	27KA TF06 RVX
								AISI 316 Ti	27KA TF06 EVX
8 mm	24	76	27	25				Standard Design	27KA TF08 MPN
								AISI 303	27KA TF08 RVX
								AISI 316 Ti	27KA TF08 EVX
9 mm	24	76	27	25				Standard Design	27KA TF09 MPN
								AISI 303	27KA TF09 RVX
								AISI 316 Ti	27KA TF09 EVX
10 mm	24	76	27	25				Standard Design	27KA TF10 MPN
								AISI 303	27KA TF10 RVX
								AISI 316 Ti	27KA TF10 EVX
13 mm	24	76	27	25				Standard Design	27KA TF13 MPN
								AISI 303	27KA TF13 RVX
								AISI 316 Ti	27KA TF13 EVX
16 mm	24	76	27	25				Standard Design	27KA TF16 MPN
								AISI 303	27KA TF16 RVX
								AISI 316 Ti	27KA TF16 EVX
19 mm	24	76	27	25				Standard Design	27KA TF19 MPN
								AISI 303	27KA TF19 RVX
								AISI 316 Ti	27KA TF19 EVX



Female Thread



Hose Barb

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		48	15	25					Standard Design	27SF TF06 SXN
									AISI 303	27SF TF06 RXX
									AISI 316 Ti	27SF TF06 EXX
8 mm		48	15	25					Standard Design	27SF TF08 SXN
									AISI 303	27SF TF08 RXX
									AISI 316 Ti	27SF TF08 EXX
9 mm		48	15	25					Standard Design	27SF TF09 SXN
									AISI 303	27SF TF09 RXX
									AISI 316 Ti	27SF TF09 EXX
10 mm		48	15	25					Standard Design	27SF TF10 SXN
									AISI 303	27SF TF10 RXX
									AISI 316 Ti	27SF TF10 EXX
13 mm		48	15	25					Standard Design	27SF TF13 SXN
									AISI 303	27SF TF13 RXX
									AISI 316 Ti	27SF TF13 EXX
16 mm		49	18	25					Standard Design	27SF TF16 SXN
									AISI 303	27SF TF16 RXX
									AISI 316 Ti	27SF TF16 EXX
19 mm		49	21	25					Standard Design	27SF TF19 SXN
									AISI 303	27SF TF19 RXX
									AISI 316 Ti	27SF TF19 EXX



Hose Barb

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	17	40	12						Standard Design	27SF AK13 SXN
		19	36.5	9					AISI 303	27SF AW13 RXX
									AISI 316 Ti	27SF AW13 EXX
R 3/8	17	40	12						Standard Design	27SF AK17 SXN
		19	36.5	9					AISI 303	27SF AW17 RXX
		19	36.5	9					AISI 316 Ti	27SF AW17 EXX
R 1/2	22	45	17						Standard Design	27SF AK21 SXN
		24	40	12					AISI 303	27SF AW21 RXX
		24	40	12					AISI 316 Ti	27SF AW21 EXX
R 3/4	27	48	19						Standard Design	27SF AK26 SXN
		32	45	16					AISI 303	27SF AW26 RXX
		32	45	16					AISI 316 Ti	27SF AW26 EXX
G 1/4	17	33	9						Standard Design	27SF IW13 SXN
									AISI 303	27SF IW13 RXX
									AISI 316 Ti	27SF IW13 EXX
G 3/8	19	33	9						Standard Design	27SF IW17 SXN
									AISI 303	27SF IW17 RXX
									AISI 316 Ti	27SF IW17 EXX
G 1/2	24	37	12						Standard Design	27SF IW21 SXN
									AISI 303	27SF IW21 RXX
									AISI 316 Ti	27SF IW21 EXX
G 3/4	32	42	16						Standard Design	27SF IW26 SXN
									AISI 303	27SF IW26 RXX
									AISI 316 Ti	27SF IW26 EXX



Male Thread

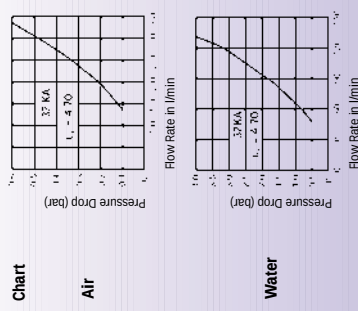


Female Thread

32 KA series



Female Thread



Nominal Diameter **10** = 80 mm²

34 KA series

Technical Description

The 34 series is an exceptionally durable coupling and is used in Scandinavia as a high quality industrial coupling.

Advantages

Extremely high flow performance due to the RECTUS ULTRA-FLO valve. Valve body and sleeve made of steel. The coupling is completely nickel plated.

Applications

Air, tools, compressed air, mechanical engineering, compressors.

Interchangeability

Atlas Copco QIC 15

Working Pressure

P8 = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

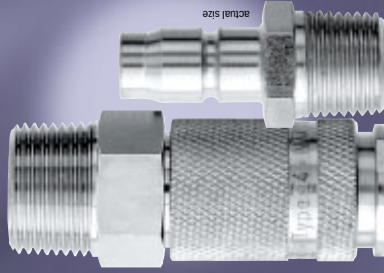
* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

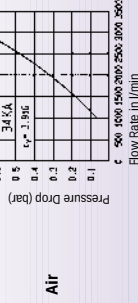
Brass, Nickel Plated
Steel, Nickel Plated
Steel, Nickel Hardened, Nickel Plated
Brass
Brass
Brass
AISI 301
AISI 420
Buna N

Plug

Plug
Steel Hardened, Nickel Plated



Chart



Water



Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Inner Sleeve
Spring Plate
Spring and Locking Ring
Locking Balls
Seals

Plug

Plug
Steel Hardened, Nickel Plated

Couplings



Female Thread



Hose Barb

Plugs



Hose Barb

Plugs



Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	24	64	28	9					Standard Design	34KA IW13 SPN
G 3/8	24	64	28	12					Standard Design	34KA IW17 SPN
G 1/2	24	64	28	12					Standard Design	34KA IW21 SPN
G 3/4	32	68	28	16					Standard Design	34KA IW26 SPN
6 mm	24	84	28	25					Standard Design	34KA TF06 SPN
8 mm	24	84	28	25					Standard Design	34KA TF08 SPN
10 mm	24	84	28	25					Standard Design	34KA TF10 SPN
13 mm	24	84	28	25					Standard Design	34KA TF13 SPN
16 mm	24	84	28	25					Standard Design	34KA TF16 SPN
19 mm	24	84	28	25					Standard Design	34KA TF19 SPN

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		55	15	25					Standard Design	34SF TF06 SXN
10 mm		55	15	25					Standard Design	34SF TF10 SXN
13 mm		55	15	25					Standard Design	34SF TF13 SXN
16 mm		55	18	25					Standard Design	34SF TF16 SXN

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 3/8	19	46		12					Standard Design	34SF AK17 SXN
R 1/2	22	52		17					Standard Design	34SF AK21 SXN
G 3/8	19	40	9						Standard Design	34SF IW17 SXN
G 1/2	24	44	12						Standard Design	34SF IW21 SXN

Couplings



Male Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	24	70	28	12					Standard Design	34KA AK13 SPN
R 3/8	24	70	28	12					Standard Design	34KA AK17 SPN
R 1/2	24	72	28	17					Standard Design	34KA AK21 SPN
R 3/4	27	72	28	17					Standard Design	34KA AK26 SPN

Nominal Diameter

11 = 95 mm²

37 KA series

Technical Description
The 37 series is an exceptionally durable brass coupling, the plug profile is made according to the US MIL-NORM C-4109. The coupling system is used mainly in the US and in France.

Advantages
Tough construction, many connecting variations, optimum plug sealing.

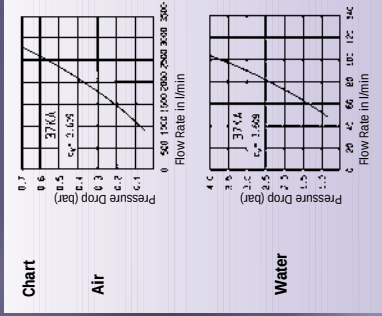
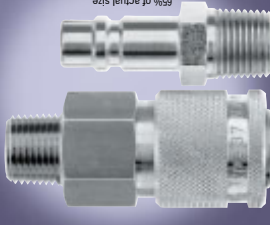
Applications
Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability
Industrial Interchange 1/2" US-MIL-NORM C-4109 1/2", GROMELLE 1300, ISO 6150-B-17, HANSEN 5000

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.



Material

Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Pins
Seals

Standard Version

Brass
Brass
Brass
Brass
AISI 301
AISI 420
Buna N

Additional Version

Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N

Plug
Plug

Steel Hardened, Nickel Plated

Technical Description
The 37 series is an exceptionally durable brass coupling, the plug profile is made according to the US MIL-NORM C-4109. The coupling system is used mainly in the US and in France.

Advantages
Tough construction, many connecting variations, optimum plug sealing.

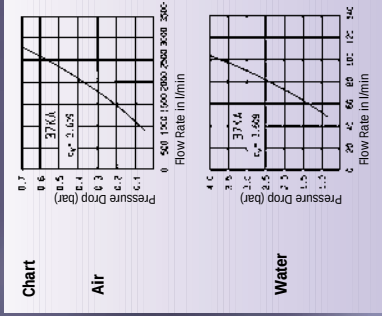
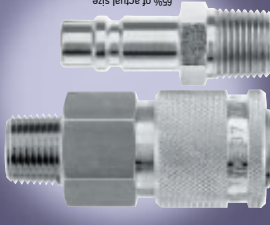
Applications
Air tools, automotive, compressed air, mechanical engineering, compressors.

Interchangeability
Industrial Interchange 1/2" US-MIL-NORM C-4109 1/2", GROMELLE 1300, ISO 6150-B-17, HANSEN 5000

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.



Couplings



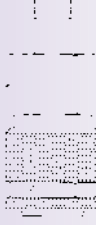
Male Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
1/4 NPT	30	76	35	12					Standard Design	37KA AN13 MPX
									Nickel Plated	37KA AN13 MPN
3/8 NPT	30	74	35	12					Standard Design	37KA AN17 MPX
									Nickel Plated	37KA AN17 MPN
G 3/8									Standard Design	37KA AW17 MPX
									Nickel Plated	37KA AW17 MPN
1/2 NPT	30	79	35	17					Standard Design	37KA AN21 MPX
									Nickel Plated	37KA AN21 MPN
G 1/2									Standard Design	37KA AW21 MPX
									Nickel Plated	37KA AW21 MPN
3/4 NPT	30	81	35	19					Standard Design	37KA AN26 MPX
									Nickel Plated	37KA AN26 MPN
G 3/4									Standard Design	37KA AW26 MPX
									Nickel Plated	37KA AW26 MPN

Couplings

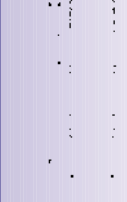


Female Thread



Hose Barb

Plugs



Hose Barb

Plugs



Male Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
1/4 NPT	17	53		12					Standard Design	37SF AN13 SXN
3/8 NPT	17	53		12					Standard Design	37SF AN17 SXN
1/2 NPT	22	59		17					Standard Design	37SF AN21 SXN
G 1/2									Standard Design	37SF AN21 SXN
3/4 NPT	27	62		19					Standard Design	37SF AN26 SXN
3/8 NPSF	19	56		19					Standard Design	37SF IW17 SXN
G 3/8									Standard Design	37SF IW17 SXN
1/2 NPSF	24	61		23					Standard Design	37SF IW21 SXN
G 1/2									Standard Design	37SF IW21 SXN
3/4 NPSF	32	62		24					Standard Design	37SF IW26 SXN
G 3/4									Standard Design	37SF IW26 SXN

57 KB series



Technical Description

Due to its rugged construction, the 57 series is designed for the use with large compressed air devices. These couplings can be used with shut-off plugs (see page 132) as well as straight through (no valve) plugs.

Advantages

Advantages
Single hand operation and superior flow performance due to the ULTRA-FLO valve are the salient characteristics of the 57 series.

Applications

Applications
Mechanical and plant engineering. Especially for liquids and gaseous mediums.

Interchangeability

WALTHER LP-012

Working Pressure

working pressure with safety factor of 4 to 1.

Working Temperature*

- 20°C up to +100°C (Buna N)
- 40°C up to +120/150°C (EPDM)
- 15°C up to +200°C (Viton®)

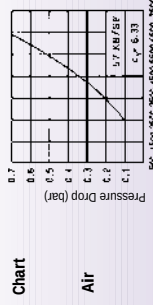
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

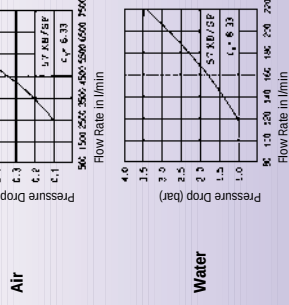


size:

Chart



Air



Water



Couplings

[illegible]

Couplings



Female Thread



Hose Barb

Plugs

[illegible]

Plugs

Plugs	Connection A	Hex SW	L	D	L1	L2	Hed. SW1	B	G	Version	Part Number
	G 3/8	27	49	12						Standard Design	57SF AW17 SXN
	G 1/2	27	52	15						Standard Design	57SF AW21 SXN
	G 3/4	32	55	17						Standard Design	57SF AW26 SXN
	G 1	41	60	20						Standard Design	57SF AW33 SXN
	G 1/2	27	48	15						Standard Design	57SF IW21 SXN
	G 3/4	32	54	20						Standard Design	57SF IW26 SXN
Female Thread											

Nominal Diameter **13** = 130 mm²

29 KA series



Technical Description
Exceptionally rugged steel coupling with single hand operation. The O-ring seal lies inside the plug front and is well protected against any external effects. Rough handling does not effect its sealing capability.

Advantages
Very good flow performance due to the optimum flow ULTRA-FLO valve.

Applications

Air tools, compressed air, mechanical engineering, building machinery, mining,

Working Pressure

PB = 3/8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals

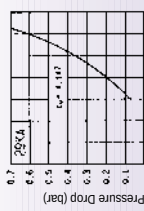
Standard Version

Steel, Zinc Plated
Steel Hardened, Zinc Plated
Brass
AISI 301
AISI 420
Buna N

Plug

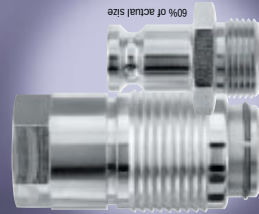
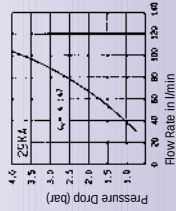
Plug
Steel Hardened, Zinc Plated

Chart



Air

Water



60% of actual size

Applications

Air tools, compressed air, mechanical engineering, building machinery, mining,

Working Pressure

PB = 3/8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals

Standard Version

Steel, Zinc Plated
Steel Hardened, Zinc Plated
Brass
AISI 301
AISI 420
Buna N

Plug

Plug
Steel Hardened, Zinc Plated

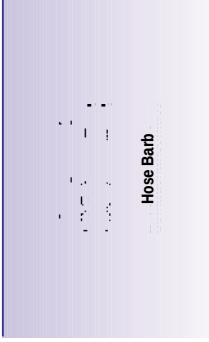
Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2		32	78	40	13					Standard Design	29KA IW21 SPZ
G 3/4		32	78	40	16					Standard Design	29KA IW26 SPZ

Plugs

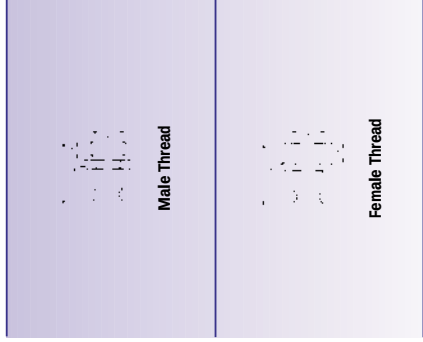
Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
13 mm			76	22	49					Standard Design	29SF TF13 SPZ

Plugs



Hose Barb

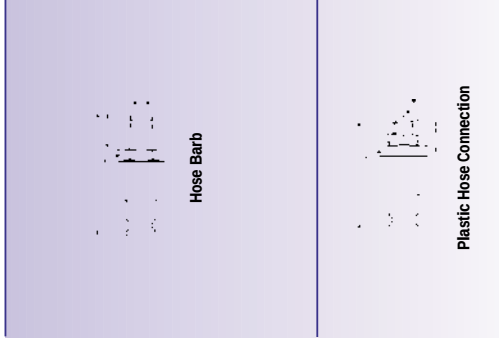
Plugs



Male Thread

Female Thread

Recoil Eliminator



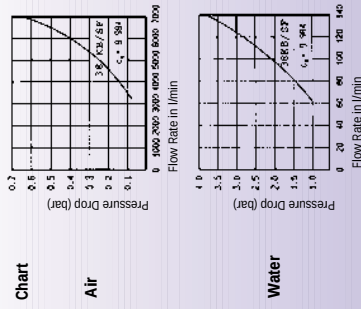
Hose Barb

Plastic Hose Connection

Female Thread

Female Thread

	G 1	41	61	24			
Standard Design							
Nickel Plated							
38SF IW33 MXX							
38SF IW33 MXN							



Nominal Diameter

19 = 300 mm²

39 KB series



Technical Description
This single hand operated brass coupling can be used with plugs having a shut-off valve (see page 136) as well as with straight-through (no valve).

Advantages
Extremely high flow performance due to the RECTUS ULTRA-FLO valve. Compact construction.

Applications
Mechanical engineering, construction, liquid and gas sampling.

Interchangeability
HANSEN 7000-1"

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

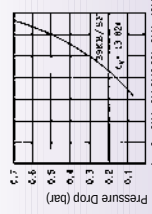
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.



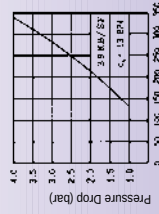
60% of actual size

Chart



Air

Water



Standard Version

Additional Version

- Material**
- Coupling**
- Back Body
 - Valve Body
 - Sleeve
 - Valve
 - Inner Sleeve
 - Spring Plate
 - Spring and Locking Ring
 - Locking Balls
 - Seals

- Nickel Plated**
- Brass, Nickel Plated
 - Brass, Nickel Plated
 - Brass, Nickel Plated
 - Brass
 - Brass
 - Brass
 - AISI 301
 - AISI 420
 - Buna N

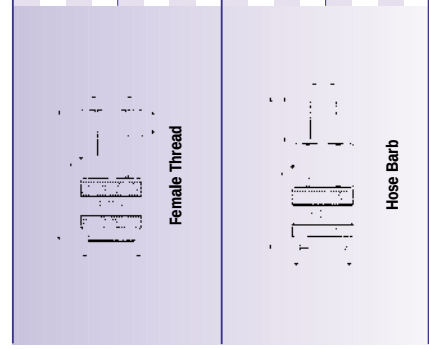
Plug

Brass, Nickel Plated

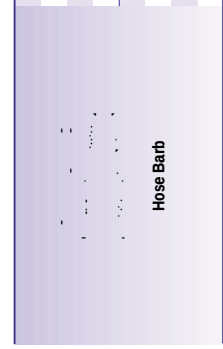
Couplings

Male Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/4		41	95	46	16					Standard Design	39KB AW26 MPX
											Nickel Plated	39KB AW26 MPN
	G 1		41	98	46	19					Standard Design <th>39KB AW33 MPX</th>	39KB AW33 MPX
											Nickel Plated	39KB AW33 MPN
	G 1 1/4		46	98	46	19					Standard Design <th>39KB AW42 MPX</th>	39KB AW42 MPX
											Nickel Plated	39KB AW42 MPN
	G 3/4		41	99	46	20					Standard Design <th>39KB IW26 MPX</th>	39KB IW26 MPX
											Nickel Plated	39KB IW26 MPN
											Standard Design <th>39KB IW33 MPX</th>	39KB IW33 MPX
											Nickel Plated	39KB IW33 MPN
	G 1 1/4		50	70	26						Standard Design <th>39SF IW42 MPX</th>	39SF IW42 MPX
											Nickel Plated	39SF IW42 MPN
											Standard Design <th>39SF IW42 MPX</th>	39SF IW42 MPX
											Nickel Plated	39SF IW42 MPN

Couplings



Plugs



Plugs



The RECTUS range of double shut-off quick connect couplings is the ultimate solution for handling dangerous mediums. The advanced valve technology used in the connecting components guarantees safe shut-off when disconnecting – the dry break fitting even prevents the formation of droplets.

Double Shut-Off Quick Connect Couplings

In addition, the single hand operation of our quick connect couplings makes them user friendly and ergonomic. Each component is state-of-the-art and optimized for the application connection. You can select from a multitude of products...

Applications:

Water preparation
Medical technology
Chemical industry
Machinery construction



System technologies
Air conditioning technology
Clean-room technology
Semi-conductor industry
Welding technology
Laser technology
Container filling systems
Food industry
Beverage industry
Refining
Laboratories

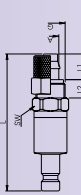
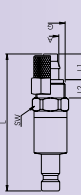
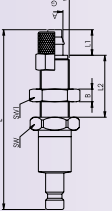
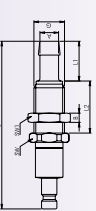
KB-System

During connecting, a pin opens the shut-off valve in the valved plug and enables the through-flow. For double shut-off coupling systems, please always order the KB version as a pin-type valved plug cannot be combined with a single shut-off KA coupling (no through-flow).

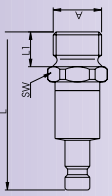
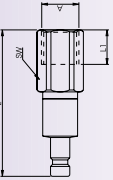
KL-System

We have achieved the splash-protected, dry break-type shut-off with the help of a modified valve shape. This dry break coupling system is the ideal solution for dealing with aggressive mediums.

Valved Plugs

Connection A			Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Hose Barb		5 mm	8	36		13					Standard Design	20SB TF05 MPX
											Nickel Plated	20SB TF05 MPN
											AISI 303	20SB TF05 RVX
Plastic Hose Connection		3 x 4 mm	9	30,5		7	5			M 7 x 0,5	Standard Design	20SB KO04 MPX
											Nickel Plated	20SB KO04 MPN
											AISI 303	20SB KO04 RVX
Panel Mount, Plastic Hose Connection		3 x 5 mm	9	30,5		7	5			M 7 x 0,5	Standard Design	20SB KO05 MPX
											Nickel Plated	20SB KO05 MPN
											AISI 303	20SB KO05 RVX
Panel Mount, Hose Barb		4 x 5 mm	9	30,5		7	5			M 8 x 0,5	Standard Design	20SB KO06 MPX
											Nickel Plated	20SB KO06 MPN
											AISI 303	20SB KO06 RVX
		3 x 4 mm	12	46,5		7	17	11	3	M 7 x 0,5	Standard Design	20SB KO06 MPX
											Nickel Plated	20SB KO06 MPN
											AISI 303	20SB KO06 RVX
		3 x 5 mm	12	46,5		7	17	11	3	M 7 x 0,5	Standard Design	20SB KS05 MPX
											Nickel Plated	20SB KS05 MPN
											AISI 303	20SB KS05 RVX
		4 x 6 mm	12	46,5		7	17	12	3,5	M 8 x 0,5	Standard Design	20SB KS06 MPX
											Nickel Plated	20SB KS06 MPN
											AISI 303	20SB KS06 RVX
		3 mm	12	52,5		13	17	11	3	M 7 x 0,5	Standard Design	20SB TS03 MPX
											Nickel Plated	20SB TS03 MPN
											AISI 303	20SB TS03 RVX
		4 mm	12	52,5		13	17	11	3	M 7 x 0,5	Standard Design	20SB TS04 MPX
											Nickel Plated	20SB TS04 MPN
											AISI 303	20SB TS04 RVX
		6 mm	12	52,5		13	17	12	3	M 10 x 1	Standard Design	20SB TS06 MPX
											Nickel Plated	20SB TS06 MPN
											AISI 303	20SB TS06 RVX

Valved Plugs

Connection A			Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
		M 5	9	28		5					Standard Design	20SB AM05 MPX
											Nickel Plated	20SB AM05 MPN
											AISI 303	20SB AM05 RVX
		G 1/8	11	30		7					Standard Design	20SB AW10 MPX
											Nickel Plated	20SB AW10 MPN
											AISI 303	20SB AW10 RVX
		M 5	9	26		5					Standard Design	20SB IM05 MPX
											Nickel Plated	20SB IM05 MPN
											AISI 303	20SB IM05 RVX
		G 1/8	12	30		7					Standard Design	20SB IW10 MPX
											Nickel Plated	20SB IW10 MPN
											AISI 303	20SB IW10 RVX
											Standard Design	20SB AD10 MPX
											Nickel Plated	20SB AD10 MPN
											AISI 303	20SB AD10 RVX

Nominal Diameter **5** = 20 mm²

21 KB series

Technical Description
Both the couplings and the plugs are fitted with a valve. While both valves are opened, guaranteeing full flow, as soon as the connection is made. The valves close when disconnected, which prevents the medium from leaking out.

Advantages
A quality coupling with extremely compact dimensions. Single handed operation, high flow rate with a multitude of connecting possibilities.

Applications
Air tools, pneumatic, medical engineering, breathing air, diving equipment, measuring and control equipment, laboratory installations, chemistry, analysis and dosage engineering.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

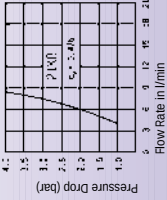
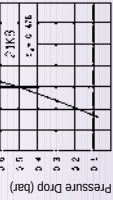
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalex®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

21 series made of thermoplastics see page 186.



Chart



Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	36	16	7					Standard Design	21KB AW10 MPX
									Nickel Plated	21KB AW10 MPN
									AISI 303	21KB AW10 RVX
G 1/4	17	38	16	9					Standard Design	21KB AW13 MPX
									Nickel Plated	21KB AW13 MPN
									AISI 303	21KB AW13 RVX
G 3/8	19	38	16	9					Standard Design	21KB AW17 MPX
									Nickel Plated	21KB AW17 MPN
									AISI 303	21KB AW17 RVX
M 10 x 1	14	37	16	8					Standard Design	21KB AD10 MPX
									Nickel Plated	21KB AD10 MPN
									AISI 303	21KB AD10 RVX

Couplings

Front Panel Installation,
Hose Barb Panel Mount

Connection A	Hex SW	L	D	L1	L2	HexL SWL	B	G	Version	Part Number
10 mm	22	46	24	17	16	24	5	M20 x 1	Standard Design	21KB TE10 MPX
									Nickel Plated	21KB TE10 MPN
4 mm	14	60	16	17	14	14	4	M10 x 1	Standard Design	21KB TS04 MPX
									Nickel Plated	21KB TS04 MPN
5 mm	17	60	16	17	14	17	4	M12 x 1	Standard Design	21KB TS05 MPX
									Nickel Plated	21KB TS05 MPN
									AISI 303	21KB TS05 RVX
6 mm	17	60	16	17	14	17	4	M12 x 1	Standard Design	21KB TS06 MPX
									Nickel Plated	21KB TS06 MPN
									AISI 303	21KB TS06 RVX
8 mm	17	60	16	17	14	17	4	M12 x 1	Standard Design	21KB TS08 MPX
									Nickel Plated	21KB TS08 MPN
									AISI 303	21KB TS08 RVX
10 mm	17	60	16	17	14	19	4	M14 x 1	Standard Design	21KB TS10 MPX
									Nickel Plated	21KB TS10 MPN
4 x 6 mm	14	125	16	7	6			M10 x 1	Standard Design	21KB KK06 MPX
									Nickel Plated	21KB KK06 MPN
									AISI 303	21KB KK06 RVX
6 x 8 mm	14	130	16	7	6			M10 x 1	Standard Design	21KB KK08 MPX
									Nickel Plated	21KB KK08 MPN



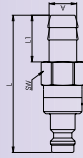
Panel Mount,
Hose Barb



Plastic Hose Connection with Spring Guard

Valved Plugs

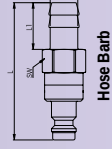
Connection A	Hex SW	L	D	L1	L2	HexL SWL	B	G	Version	Part Number
4 mm	14	50		17					Standard Design	21SB TF04 MPX
									Nickel Plated	21SB TF04 MPN
									AISI 303	21SB TF04 RVX
5 mm	14	50		17					Standard Design	21SB TF05 MPX
									Nickel Plated	21SB TF05 MPN
									AISI 303	21SB TF05 RVX
6 mm	14	50		17					AISI 316 Ti	21SB TF05 EVX
									Standard Design	21SB TF06 MPX
									Nickel Plated	21SB TF06 MPN
8 mm	14	50		17					AISI 303	21SB TF06 RVX
									AISI 316 Ti	21SB TF06 EVX
									Standard Design	21SB TF08 MPX
									Nickel Plated	21SB TF08 MPN
									AISI 303	21SB TF08 RVX
									AISI 316 Ti	21SB TF08 EVX



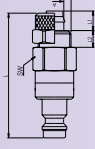
Hose Barb

Valved Plugs

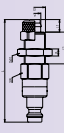
Connection A	Hex SW	L	D	L1	L2	HexL SWL	B	G	Version	Part Number
9 mm	14	50		17					Standard Design	21SB TF09 MPX
									Nickel Plated	21SB TF09 MPN
									AISI 303	21SB TF09 RVX
10 mm	14	50		17					AISI 316 Ti	21SB TF09 EVX
									Standard Design	21SB TF10 MPX
									Nickel Plated	21SB TF10 MPN
6 mm Parker	14	54		20					AISI 303	21SB TF10 RVX
									AISI 316 Ti	21SB TF10 EVX
4 x 6 mm	14	46		7	6			M10 x 1	Standard Design	21SB TP06 MPX
									Nickel Plated	21SB TP06 MPN
									AISI 303	21SB TP06 RVX
4 x 6 mm	14	46		7	6			M10 x 1	Standard Design	21SB KO06 MPX
									Nickel Plated	21SB KO06 MPN
									AISI 303	21SB KO06 RVX
6 x 8 mm	14	46		7	6			M12 x 1	AISI 316 Ti	21SB KO06 EVX
									Standard Design	21SB KO08 MPX
									Nickel Plated	21SB KO08 MPN
4 x 6 mm	14	58		7	18	12	3	M10 x 1	AISI 316 Ti	21SB KO08 EVX
									Standard Design	21SB KS06 MPX
									Nickel Plated	21SB KS06 MPN
6 x 8 mm	17	58		7	18	17	4	M12 x 1	AISI 316 Ti	21SB KS06 EVX
									Standard Design	21SB KS08 MPX
									Nickel Plated	21SB KS08 MPN
4 mm	14	64		17	14	14	4	M10 x 1	AISI 303	21SB KS08 RVX
									Standard Design	21SB TS04 MPX
									Nickel Plated	21SB TS04 MPN
5 mm	14	64		17	14	14	4	M12 x 1	Standard Design	21SB TS05 MPX
									Nickel Plated	21SB TS05 MPN
									AISI 303	21SB TS05 RVX
6 mm	14	64		17	14	17	4	M12 x 1	Standard Design	21SB TS06 MPX
									Nickel Plated	21SB TS06 MPN
									AISI 303	21SB TS06 RVX
8 mm	14	64		17	14	17	4	M12 x 1	Standard Design	21SB TS08 MPX
									Nickel Plated	21SB TS08 MPN
									AISI 303	21SB TS08 RVX
9 mm	14	64		17	14	17	4	M12 x 1	Standard Design	21SB TS09 MPX
									Nickel Plated	21SB TS09 MPN
									AISI 303	21SB TS09 RVX
10 mm	17	64		17	14	19	4	M14 x 1	Standard Design	21SB TS10 MPX
									Nickel Plated	21SB TS10 MPN
									AISI 303	21SB TS10 RVX
4 x 6 mm	14	130		7	6			M10 x 1	Standard Design	21SB KK06 MPX
									Nickel Plated	21SB KK06 MPN
									Standard Design	21SB KK08 MPX
6 x 8 mm	14	135		7	6			M12 x 1	Nickel Plated	21SB KK08 MPN
									Standard Design	
									Nickel Plated	



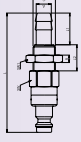
Hose Barb



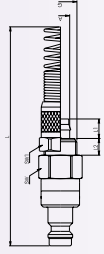
Plastic Hose Connection



Panel Mount,
Plastic Hose Connection

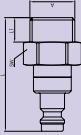
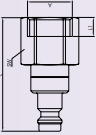


Panel Mount,
Hose Barb



Plastic Hose Connection with Spring Guard

Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	G 1/8	14	40		7					Standard Design	2LSB AW10 MPX
										Nickel Plated	2LSB AW10 MPN
										AISI 303	2LSB AW10 RVX
	G 1/4	17	42		9					AISI 316 Ti	2LSB AW10 EVX
										Standard Design	2LSB AW13 MPX
										Nickel Plated	2LSB AW13 MPN
	G 3/8									AISI 303	2LSB AW13 RVX
										AISI 316 Ti	2LSB AW13 EVX
										Standard Design	2LSB AW17 MPX
	M 12 x 1.5	19	42		9					Nickel Plated	2LSB AW17 MPN
										AISI 303	2LSB AW17 RVX
										AISI 316 Ti	2LSB AW17 EVX
 Female Thread	G 1/8	14	40		7					Standard Design	2LSB IW10 MPX
										Nickel Plated	2LSB IW10 MPN
										AISI 303	2LSB IW10 RVX
	G 1/4	17	42		7					AISI 316 Ti	2LSB IW10 EVX
										Standard Design	2LSB IW13 MPX
										Nickel Plated	2LSB IW13 MPN
	G 3/8									AISI 303	2LSB IW13 RVX
										AISI 316 Ti	2LSB IW13 EVX
										Standard Design	2LSB IW17 MPX
	M 10 x 1	19	42		7					Nickel Plated	2LSB IW17 MPN
										AISI 303	2LSB IW17 RVX
										AISI 316 Ti	2LSB IW17 EVX
	M 12 x 1.5	14	40		7					Standard Design	2LSB IM10 MPX
										Nickel Plated	2LSB IM10 MPN
										AISI 303	2LSB IM10 RVX
	M 14 x 1.5	17	42		7					Standard Design	2LSB IM12 MPX
										Nickel Plated	2LSB IM12 MPN
										AISI 303	2LSB IM12 RVX
	M 14 x 1.5	17	42		7					Standard Design	2LSB IM14 MPX
										Nickel Plated	2LSB IM14 MPN
										AISI 303	2LSB IM14 RVX

Nominal Diameter **5** = 20 mm²

21 KL series



Technical Description
Both the coupling as well as the plug are fitted with a valve. During the connection process, the plug and the coupling seal prior to open both valves. Both valves close simultaneously when disconnected, allowing the coupling and plug to be separated afterward.

Applications
Medical engineering, chemistry, laboratory installations, mechanical engineering.

Working Pressure
PB = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®) depending on the medium.

Advantages
Minimum (hardly noticeable) leakage occurs when disconnecting. Air is not trapped in during the connecting process.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material
Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Inner Sleeve
Seal bonnet

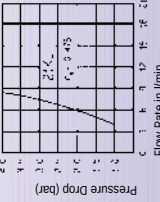
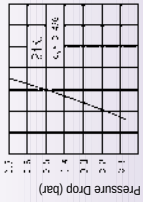
Standard Version
Brass
Brass
Brass
Brass
AISI 301
AISI 420
Buna N
Brass
Brass

Additional Versions
Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N
Brass
Brass

Additional Versions
AISI 303
AISI 316 Ti
AISI 303
AISI 316 Ti
AISI 303
AISI 316 Ti
AISI 301
AISI 316 Ti
AISI 316
Viton®
AISI 303
AISI 316 Ti
AISI 303
AISI 316 Ti

Plug
Plug Profile
Back Body
Valve
Spring
Seal

Additional Versions
AISI 303
AISI 316 Ti
AISI 303
AISI 316 Ti
AISI 303
AISI 316 Ti
AISI 301
AISI 316 Ti
Viton®



Couplings



Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	36	16	7					Standard Design	21KL AW10 MPX
									Nickel Plated	21KL AW10 MPN
									AISI 303	21KL AW10 RVX
G 1/4	17	38	16	9					AISI 316 Ti	21KL AW10 EVX
									Standard Design	21KL AW13 MPX
									Nickel Plated	21KL AW13 MPN
G 3/8	19	38	16	9					AISI 303	21KL AW13 RVX
									AISI 316 Ti	21KL AW13 EVX
									Standard Design	21KL AW17 MPX
M 12 x 1.5	17	39	16	10					Nickel Plated	21KL AW17 MPN
									AISI 303	21KL AW17 RVX
									AISI 316 Ti	21KL AW17 EVX
M 14 x 1.5	17	39	16	10					Standard Design	21KL AD12 MPX
									Nickel Plated	21KL AD12 MPN
									AISI 303	21KL AM12 RVX

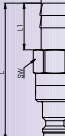
Couplings

Male Thread	Connection A	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	Part Number
 Male Thread	M 14 x 1.5	17	39	16	10				Standard Design	21KL AD14 MPX
									Nickel Plated	21KL AD14 MPN
									AlSi 303	21KL AM14 RVX
	G 1/8	14	36	16	9				Standard Design	21KL IW10 MPX
									Nickel Plated	21KL IW10 MPN
									AlSi 303	21KL IW10 RVX
	G 1/4	17	38	16	9				AlSi 316 Ti	21KL IW10 EVX
									Standard Design	21KL IW13 MPX
									Nickel Plated	21KL IW13 MPN
									AlSi 303	21KL IW13 RVX
 Female Thread	G 3/8	19	38	16	9				Standard Design	21KL IW17 MPX
									Nickel Plated	21KL IW17 MPN
									AlSi 303	21KL IW17 RVX
	M 12 x 1.5	17	38	16	6				AlSi 316 Ti	21KL IW17 EVX
									Standard Design	21KL IM12 MPX
									Nickel Plated	21KL IM12 MPN
									AlSi 303	21KL IM12 RVX
									Standard Design	21KL IM14 MPX
									Nickel Plated	21KL IM14 MPN
									AlSi 303	21KL IM14 RVX
 Hose Barb	4 mm	14	46	16	17				Standard Design	21KL TF04 MPX
									Nickel Plated	21KL TF04 MPN
									AlSi 303	21KL TF04 RVX
	5 mm	14	46	16	17				AlSi 316 Ti	21KL TF04 EVX
									AlSi 303	21KL TF05 RVX
									AlSi 316 Ti	21KL TF05 EVX
	6 mm	14	46	16	17				Standard Design	21KL TF06 MPX
									Nickel Plated	21KL TF06 MPN
									AlSi 303	21KL TF06 RVX
	8 mm	14	46	16	17				AlSi 316 Ti	21KL TF06 EVX
 Hose Barb	8 mm	14	46	16	17				Standard Design	21KL TF08 MPX
									Nickel Plated	21KL TF08 MPN
									AlSi 303	21KL TF08 RVX
	9 mm	14	46	16	17				AlSi 316 Ti	21KL TF08 EVX
									Standard Design	21KL TF09 MPX
									Nickel Plated	21KL TF09 MPN
	10 mm	14	46	16	17				AlSi 303	21KL TF09 RVX
									AlSi 316 Ti	21KL TF09 EVX
									Standard Design	21KL TF10 MPX
									Nickel Plated	21KL TF10 MPN
 Hose Barb									AlSi 303	21KL TF10 RVX
									AlSi 316 Ti	21KL TF10 EVX

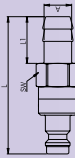
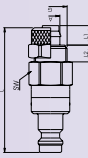
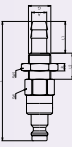
Couplings

Hose Barb	Connection A	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	6 mm Parker	14	50	16	20				Standard Design	21KL TP06 MPX
									Nickel Plated	21KL TP06 MPN
									AlSi 303	21KL TP06 RVX
 Plastic Hose Connection	4 x 6 mm	14	42	16	7	6		M 10 x 1	Standard Design	21KL KO06 MPX
									Nickel Plated	21KL KO06 MPN
									AlSi 303	21KL KO06 RVX
	6 x 8 mm	14	42	16	7	6		M 12 x 1	AlSi 316 Ti	21KL KO06 EVX
									Standard Design	21KL KO08 MPX
									Nickel Plated	21KL KO08 MPN
 Panel Mount, Plastic Hose Connection	4 x 6 mm	14	54	16	7	14	4	M 10 x 1	AlSi 303	21KL KO08 RVX
									AlSi 316 Ti	21KL KO08 EVX
									Standard Design	21KL KS06 MPX
	6 x 8 mm	17	54	16	7	18	4	M 12 x 1	Nickel Plated	21KL KS06 MPN
									AlSi 303	21KL KS06 RVX
									AlSi 316 Ti	21KL KS06 EVX
 Panel Mount, Hose Barb	4 mm	14	60	16	17	14	4	M 10 x 1	Standard Design	21KL TS04 MPX
									Nickel Plated	21KL TS04 MPN
									Standard Design	21KL TS05 MPX
	5 mm	17	60	16	17	14	4	M 12 x 1	Nickel Plated	21KL TS05 MPN
									AlSi 303	21KL TS05 RVX
									Standard Design	21KL TS06 MPX
 Panel Mount, Hose Barb	6 mm	17	60	16	17	14	4	M 12 x 1	Nickel Plated	21KL TS06 MPN
									AlSi 303	21KL TS06 RVX
									Standard Design	21KL TS08 MPX
	8 mm	17	60	16	17	14	4	M 12 x 1	Nickel Plated	21KL TS08 MPN
									AlSi 303	21KL TS08 RVX
									Standard Design	21KL TS10 MPX
 Plastic Hose Connection with Spring Guard	4 x 6 mm	14	125	16	7	6		M 10 x 1	Nickel Plated	21KL KK06 MPX
									Nickel Plated	21KL KK06 MPN
									Standard Design	21KL KK08 MPX
	6 x 8 mm	14	130	16	7	6		M 10 x 1	Nickel Plated	21KL KK08 MPN
									Standard Design	21KL KK08 MPX
									Nickel Plated	21KL KK08 MPN

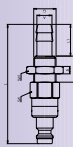
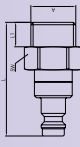
Valved Plugs

Hose Barb	Connection A	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	4 mm	14	50	17					Standard Design	21SL TF04 MPX
									Nickel Plated	21SL TF04 MPN
									AlSi 303	21SL TF04 RVX
	5 mm	14	50	17					AlSi 316 Ti	21SL TF04 EVX
									AlSi 303	21SL TF05 RVX
									AlSi 316 Ti	21SL TF05 EVX

Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	6 mm	14	50		17					Standard Design	21SL TF06 MPX
										Nickel Plated	21SL TF06 MPN
										AISI 303	21SL TF06 RVX
										AISI 316 Ti	21SL TF06 EVX
	8 mm	14	50		17					Standard Design	21SL TF08 MPX
										Nickel Plated	21SL TF08 MPN
										AISI 303	21SL TF08 RVX
										AISI 316 Ti	21SL TF08 EVX
	9 mm	14	50		17					Standard Design	21SL TF09 MPX
										Nickel Plated	21SL TF09 MPN
										AISI 303	21SL TF09 RVX
										AISI 316 Ti	21SL TF09 EVX
	10 mm	14	50		17					Standard Design	21SL TF10 MPX
										Nickel Plated	21SL TF10 MPN
										AISI 303	21SL TF10 RVX
										AISI 316 Ti	21SL TF10 EVX
	6 mm Parker	14	54		20					Standard Design	21SL TP06 MPX
										Nickel Plated	21SL TP06 MPN
										AISI 303	21SL TP06 RVX
 Plastic Hose Connection	4 x 6 mm	14	46		7	6			M 10 x 1	Standard Design	21SL KO06 MPX
										Nickel Plated	21SL KO06 MPN
										AISI 303	21SL KO06 RVX
										AISI 316 Ti	21SL KO06 EVX
	6 x 8 mm	14	46		7	6			M 12 x 1	Standard Design	21SL KO08 MPX
										Nickel Plated	21SL KO08 MPN
										AISI 303	21SL KO08 RVX
										AISI 316 Ti	21SL KO08 EVX
	4 x 6 mm	14	58		7	18	12	3	M 10 x 1	Standard Design	21SL KS06 MPX
										Nickel Plated	21SL KS06 MPN
										AISI 303	21SL KS06 RVX
										AISI 316 Ti	21SL KS06 EVX
	6 x 8 mm	17	58		7	18	17	4	M 12 x 1	Standard Design	21SL KS08 MPX
										Nickel Plated	21SL KS08 MPN
										AISI 303	21SL KS08 RVX
	4 mm	14	64		17	14	14	4	M 10 x 1	Standard Design	21SL TS04 MPX
										Nickel Plated	21SL TS04 MPN
	5 mm	14	64		17	14	14	4	M 12 x 1	Standard Design	21SL TS05 MPX
										Nickel Plated	21SL TS05 MPN
 Panel Mount, Hose Barb	6 mm	14	64		17	14	17	4	M 12 x 1	Standard Design	21SL TS06 MPX
										Nickel Plated	21SL TS06 MPN
										AISI 303	21SL TS06 RVX
	8 mm	14	64		17	14	17	4	M 12 x 1	Standard Design	21SL TS08 MPX
										Nickel Plated	21SL TS08 MPN
										AISI 303	21SL TS08 RVX

Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Panel Mount, Hose Barb	9 mm	14	64		17	14	17	4	M 12 x 1	Standard Design	21SL TS09 MPX
										Nickel Plated	21SL TS09 MPN
										AISI 303	21SL TS09 RVX
	10 mm	17	64		17	14	19	4	M 14 x 1	Standard Design	21SL TS10 MPX
										Nickel Plated	21SL TS10 MPN
										AISI 303	21SL TS10 RVX
	4 x 6 mm	14	130		7	6			M 10 x 1	Standard Design	21SL KK06 MPX
										Nickel Plated	21SL KK06 MPN
	6 x 8 mm	14	135		6				M 12 x 1	Standard Design	21SL KK08 MPX
										Nickel Plated	21SL KK08 MPN
 Male Thread	G 1/8	14	40		7					Standard Design	21SL AW10 MPX
										Nickel Plated	21SL AW10 MPN
										AISI 303	21SL AW10 RVX
										AISI 316 Ti	21SL AW10 EVX
	G 1/4	17	42		9					Standard Design	21SL AW13 MPX
										Nickel Plated	21SL AW13 MPN
										AISI 303	21SL AW13 RVX
										AISI 316 Ti	21SL AW13 EVX
	G 3/8	19	42		9					Standard Design	21SL AW17 MPX
										Nickel Plated	21SL AW17 MPN
										AISI 303	21SL AW17 RVX
	M 12 x 1.5	17	43		10					Standard Design	21SL AW17 EVX
										Nickel Plated	21SL AD12 MPX
										AISI 303	21SL AD12 MPN
										AISI 316 Ti	21SL AD12 RVX
	M 14 x 1.5	17	43		10					Standard Design	21SL AD14 MPX
										Nickel Plated	21SL AD14 MPN
										AISI 303	21SL AD14 RVX
	G 1/8	14	40		7					Standard Design	21SL IW10 MPX
										Nickel Plated	21SL IW10 MPN
										AISI 303	21SL IW10 RVX
										AISI 316 Ti	21SL IW10 EVX
	G 3/8	19	42		7					Standard Design	21SL IW17 MPX
										Nickel Plated	21SL IW17 MPN
										AISI 303	21SL IW17 RVX
										AISI 316 Ti	21SL IW17 EVX
	M 12 x 1.5	17	42		7					Standard Design	21SL IM12 MPX
										Nickel Plated	21SL IM12 MPN
										AISI 303	21SL IM12 RVX
	M 14 x 1.5	17	42		7					Standard Design	21SL IM14 MPX
										Nickel Plated	21SL IM14 MPN
										AISI 303	21SL IM14 RVX

Nominal Diameter

6

= 30 mm²

51 KB series

Technical Description
The 51 KB model is a tough steel coupling used for high operating pressures up to a maximum of 50 bar. The shut-off coupling can be connected to plugs with a shut-off valve as well as straight through (non-valved) plugs (see page 55).

Advantages
Single handed operation (the sleeve does not have to be pushed back when being connected) excellent flow rates. Connected parts made of hardened steel with galvanised surface for additional protection.

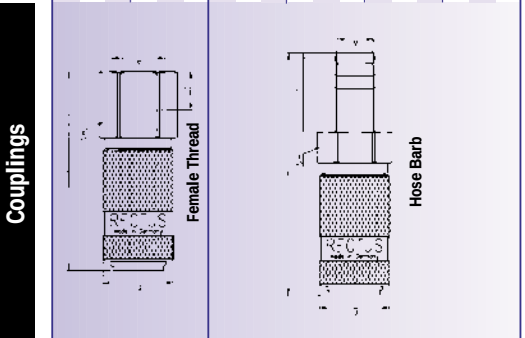
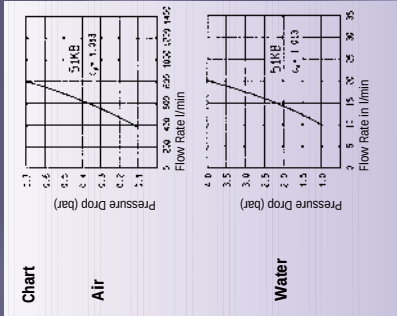
Applications
Air tools, laboratory installations, chemistry, measuring and control equipment, breathing air, diving equipment, mechanical engineering, plant engineering.

Working Pressure
PB = 50 bar, maximum static working pressure with safety factor of 4 to 1.

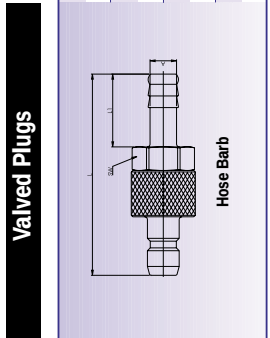
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

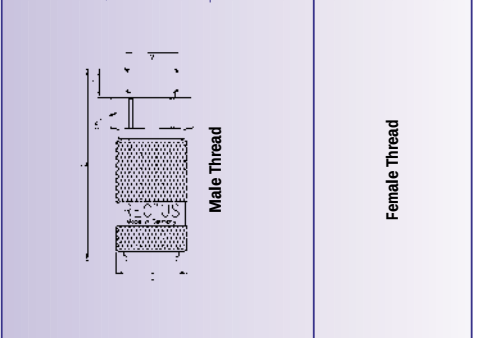
Standard Version	
Material	
Coupling	Brass, Nickel Plated Steel, Nickel Plated Steel Hardened, Nickel Plated Brass, Nickel Plated AISI 301 AISI 420 Buna N Brass
Plug	Steel Hardened, Nickel Plated Brass, Nickel Plated Brass, Nickel Plated AISI 301 Buna N Brass



Couplings



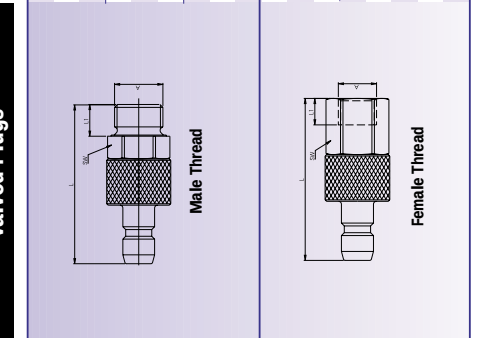
Valved Plugs



Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4		22	61	22	9					Standard Design	51KB AW13 SPN
G 3/8		22	61	22	9					Standard Design	51KB AW17 SPN
G 1/2		22	61	22	12					Standard Design	51KB AW21 SPN
G 1/4		22	61	22	12					Standard Design	51KB IW13 SPN

Valved Plugs



Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8		22	61	22	12					Standard Design	51KB IW17 SPN
G 1/2		24	64	22	13					Standard Design	51KB IW21 SPN
6 mm		21	78	22	25					Standard Design	51KB TF06 SPN
9 mm		21	78	22	25					Standard Design	51KB TF09 SPN
11 mm		21	78	22	25					Standard Design	51KB TF11 SPN
13 mm		21	78	22	25					Standard Design	51KB TF13 SPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
6 mm		21	65.5		25					Standard Design	51SB TF06 SPN
9 mm		21	65.5		25					Standard Design	51SB TF09 SPN
11 mm		21	65.5		25					Standard Design	51SB TF11 SPN
13 mm		21	65.5		25					Standard Design	51SB TF13 SPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4		19	54		8					Standard Design	51SB AW13 SPN
G 3/8		22	49.5		9					Standard Design	51SB AW17 SPN
G 1/2		22	49.5		12					Standard Design	51SB AW21 SPN
G 1/4		22	51.5		12					Standard Design	51SB IW13 SPN
G 3/8		22	51.5		12					Standard Design	51SB IW17 SPN

Nominal Diameter **6** = 30 mm²

52 KB series

Technical Description
The 52 model is a tough steel coupling used for gaseous or liquid mediums in the low pressure range up to a maximum of 50 bar. The shut-off coupling can be connected to both shut-off plugs as well as straight-through (non-valved) plugs (see page 57).

Advantages
Single handed operation (the sleeve does not have to be pushed back when being connected) excellent flow rates. Connecting parts made of hardened steel with galvanized surface for additional protection.

Applications
Air tools, laboratory installations, chemistry, measuring and control equipment, breathing air, diving equipment, mechanical engineering, plant engineering.

Working Pressure
PB = 50 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

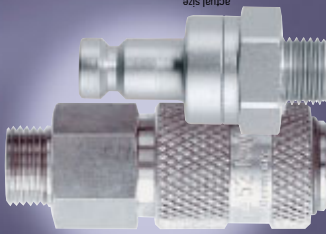
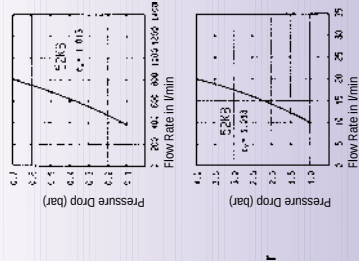
* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material	
Coupling	
Back Body	Brass, Nickel Plated
Valve Body	Steel, Nickel Plated
Sleeve	Steel Hardened, Nickel Plated
Valve	Brass, Nickel Plated
Spring and Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	Buna N
Inner Sleeve	Brass
Spring Plate	Brass

Plug	
Plug Profile	Steel Hardened, Nickel Plated
Back Body	Brass, Nickel Plated
Valve	Brass, Nickel Plated
Spring	AISI 301
Seal	Buna N

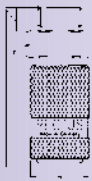
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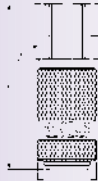
actual size



Couplings



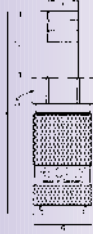
Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	22	62	25	9					Standard Design	52KB AW13 SPN
G 3/8	22	62	25	9					Standard Design	52KB AW17 SPN
G 1/2	22	65	25	12					Standard Design	52KB AW21 SPN
G 1/4	22	62	25	10					Standard Design	52KB IW13 SPN
G 3/8	22	60	25	10					Standard Design	52KB IW17 SPN
G 1/2	22	65	25	13					Standard Design	52KB IW21 SPN

Couplings



Hose Barb

Valved Plugs



Hose Barb



Plastic Hose Connection



Plastic Hose Connection with Spring Guard

Valved Plugs



Male Thread



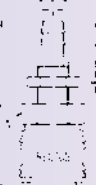
Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	22	48		9					Standard Design	52SB AW13 SPN
G 3/8	22	48		9					Standard Design	52SB AW17 SPN
G 1/2	22	48		12					Standard Design	52SB AW21 SPN
G 1/4	22	48		9					Standard Design	52SB IW13 SPN
G 3/8	22	48		9					Standard Design	52SB IW17 SPN
G 1/2	24	50		12					Standard Design	52SB IW21 SPN

Couplings

[illegible]

Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	10 mm	21	58	25	25					Standard Design	26KB TF10 MPX
										Nickel Plated	26KB TF10 MPN
	13 mm	21	58	25	25					Standard Design	26KB TF13 MPX
										Nickel Plated	26KB TF13 MPN
	6 mm Parker	21	58	25	20.5					Standard Design	26KB TP06 MPX
										Nickel Plated	26KB TP06 MPN
	10 mm Parker	21	58	25	24					Standard Design	26KB TP10 MPX
										Nickel Plated	26KB TP10 MPN
	13 mm Parker	21	58	25	28					Standard Design	26KB TP13 MPX
										Nickel Plated	26KB TP13 MPN
 Plastic Hose Connection	6 x 8 mm	21	45	25	7	6			M 12 x 1	Standard Design	26KB KO08 MPX
										Nickel Plated	26KB KO08 MPN
	8 x 10 mm	21	49	25	9	8			M 16 x 1	Standard Design	26KB KO10 MPX
										Nickel Plated	26KB KO10 MPN
	9 x 12 mm	21	49	25	9	8			M 16 x 1	Standard Design	26KB KO12 MPX
										Nickel Plated	26KB KO12 MPN
	6 mm	21	60	25	17	10	17	4	M 12 x 1	Standard Design	26KB TS06 MPX
										Nickel Plated	26KB TS06 MPN
	8 mm	21	63	25	17	14	17	4	M 12 x 1	Standard Design	26KB TS08 MPX
										Nickel Plated	26KB TS08 MPN
 Panel Mount, Hose Barb	10 mm	21	72	25	25	14	17	4	G 1/4	Standard Design	26KB TS10 MPX
										Nickel Plated	26KB TS10 MPN
	6 x 8 mm	21	132	25	7	6			M 12 x 1	Standard Design	26KB KK08 MPX
										Nickel Plated	26KB KK08 MPN
	8 x 10 mm	21	143	25	9	8			M 16 x 1	Standard Design	26KB KK10 MPX
										Nickel Plated	26KB KK10 MPN
	9 x 12 mm	21	150	25	9	8			M 16 x 1	Standard Design	26KB KK12 MPX
										Nickel Plated	26KB KK12 MPN
Valved plugs for all 26 KB series see on pages 121, 123 and 124 (same as 25 KB series!).											

Nominal Diameter **7,4 = 42 mm²**

25 KB series

Technical Description
The 25 KB series, designed specifically for liquid mediums, is a double shut-off version of our very popular 25 KA compressed air model and is most suitable for liquid mediums. The valves in both the coupling and the plug are opened when connected. Both valves close virtually simultaneously when disconnected, ensuring minimum leakage loss.

Advantages
Single handed operation (the

sleeve does not have to be pushed back when being connected), all individual parts are made of non-rusting materials, smooth operation due to the ball locking system.

Applications
Laboratory equipment, air and gas sampling, air tools.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

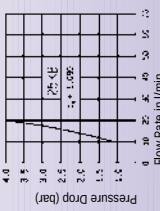
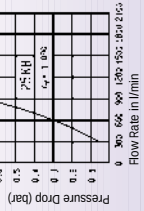
* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Additional Versions

Coupling	Nickel Plated	AISI 303	AISI 316 Ti
Back Body	Brass, Nickel Plated	AISI 303	AISI 316 Ti
Valve Body	Brass, Nickel Plated	AISI 303	AISI 316 Ti
Sleeve	Brass, Nickel Plated	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring and Locking Ring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls	AISI 420	AISI 316	AISI 316
Seals	Buna N	Viton®	Viton®
Inner Sleeve	Brass	AISI 303	AISI 316 Ti
Spring Plate	Brass	AISI 303	AISI 316 Ti
Plug			
Plug Profile	Brass, Nickel Plated	AISI 303	AISI 316 Ti
Back Body	Brass, Nickel Plated	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring	AISI 301	AISI 301	AISI 316 Ti
Seal	Buna N	Viton®	Viton®

Chart



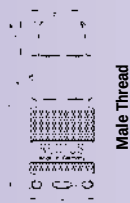
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	60	23	12					Standard Design	25KB AK13 BPX
									Nickel Plated	25KB AK13 BPN
G 1/4	19	59	23	10.5					AISI 303	25KB AW13 RVX
									AISI 316 Ti	25KB AW13 EVX
R 3/8	19	60	23	12					Standard Design	25KB AK17 BPX
									Nickel Plated	25KB AK17 BPN
G 3/8	19	57.5	23	9					AISI 303	25KB AW17 RVX
									AISI 316 Ti	25KB AW17 EVX
R 1/2	22	61	23	17					Standard Design	25KB AK21 BPX
									Nickel Plated	25KB AK21 BPN
G 1/2	24	60.5	23	12					AISI 303	25KB AW21 RVX
									AISI 316 Ti	25KB AW21 EVX
M 14 x 1.5	19	59	23	10					Standard Design	25KB AD14 BPX
									Nickel Plated	25KB AD14 BPN
									AISI 303	25KB AML4 RVX
									AISI 316 Ti	25KB AML4 EVX

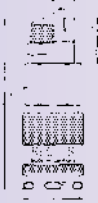
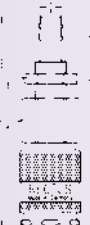


Male Thread

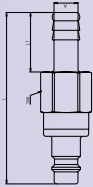
Couplings

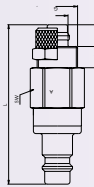
 Male Thread	DIN 2352	 Female Thread	M 16 x 1.5	19	60	23	11				Standard Design	25KB AD16 BPX
										Nickel Plated	25KB AD16 BPN	
										AISI 303	25KB AM16 RVX	
										AISI 316 Ti	25KB AM16 EVX	
	DIN 2353		M 18 x 1.5	19	60	23	11				Standard Design	25KB AD18 BPX
										Nickel Plated	25KB AD18 BPN	
										AISI 303	25KB AM18 RVX	
 Hose Barb			G 1/4	19	56	23	10				Standard Design	25KB IW13 BPX
										Nickel Plated	25KB IW13 BPN	
										AISI 303	25KB IW13 RVX	
										AISI 316 Ti	25KB IW13 EVX	
			G 3/8	19	55	23	9				Standard Design	25KB IW17 BPX
										Nickel Plated	25KB IW17 BPN	
										AISI 303	25KB IW17 RVX	
										AISI 316 Ti	25KB IW17 EVX	
 Hose Barb			G 1/2	24	58	23	12				Standard Design	25KB IW21 BPX
										Nickel Plated	25KB IW21 BPN	
										AISI 303	25KB IW21 RVX	
										AISI 316 Ti	25KB IW21 EVX	
			M 14 x 1.5	19	55	23	9				Standard Design	25KB IM14 BPX
										Nickel Plated	25KB IM14 BPN	
										AISI 303	25KB IM14 RVX	
 Hose Barb			M 16 x 1.5	19	55	23	9				Standard Design	25KB IM16 BPX
										Nickel Plated	25KB IM16 BPN	
										AISI 303	25KB IM16 RVX	
			M 18 x 1.5	22	56	23	9				Standard Design	25KB IM18 BPX
										Nickel Plated	25KB IM18 BPN	
										AISI 303	25KB IM18 RVX	
 Hose Barb	6 mm			19	74	23	25				Standard Design	25KB TF06 BPX
										Nickel Plated	25KB TF06 BPN	
										AISI 303	25KB TF06 RVX	
										AISI 316 Ti	25KB TF06 EVX	
	8 mm			19	74	23	25				Standard Design	25KB TF08 BPX
										Nickel Plated	25KB TF08 BPN	
										AISI 303	25KB TF08 RVX	
										AISI 316 Ti	25KB TF08 EVX	
 Hose Barb	9 mm			19	74	23	25				Standard Design	25KB TF09 BPX
										Nickel Plated	25KB TF09 BPN	
										AISI 303	25KB TF09 RVX	
										AISI 316 Ti	25KB TF09 EVX	
	10 mm			19	74	23	25				Standard Design	25KB TF10 BPX
										Nickel Plated	25KB TF10 BPN	
										AISI 303	25KB TF10 RVX	
										AISI 316 Ti	25KB TF10 EVX	

Couplings

 Hose Barb	13 mm	19	74	23	25				Standard Design	25KB TF13 BPX		
									Nickel Plated	25KB TF13 BPN		
									AISI 303	25KB TF13 RVX		
									AISI 316 Ti	25KB TF13 EVX		
	6 mm Parker		19	69	23	20			Standard Design	25KB TP06 BPX		
								Nickel Plated	25KB TP06 BPN			
		10 mm Parker	19	73	23	24			Standard Design	25KB TP10 BPX		
								Nickel Plated	25KB TP10 BPN			
	13 mm Parker	19	76	23	28			Standard Design	25KB TP13 BPX			
								Nickel Plated	25KB TP13 BPN			
 Plastic Hose Connection	6 x 8 mm	19	61	23	7	6		M 12 x 1	Standard Design	25KB KO08 BPX		
									Nickel Plated	25KB KO08 BPN		
									AISI 303	25KB KO08 RVX		
									AISI 316 Ti	25KB KO08 EVX		
	8 x 10 mm		19	65	23	9	8		M 16 x 1	Standard Design	25KB KO10 BPX	
									Nickel Plated	25KB KO10 BPN		
									AISI 303	25KB KO10 RVX		
		9 x 12 mm	19	65	23	9	8		M 16 x 1	Standard Design	25KB KO12 BPX	
								Nickel Plated	25KB KO12 BPN			
								AISI 303	25KB KO12 RVX			
								AISI 316 Ti	25KB KO12 EVX			
	6 mm	19	76	23	17	10	17	4	M 12 x 1	Standard Design	25KB TS06 BPX	
									Nickel Plated	25KB TS06 BPN		
									AISI 303	25KB TS06 RVX		
 Panel Mount, Hose Barb	8 mm	19	80	23	17	14	17	4	M 12 x 1	Standard Design	25KB TS08 BPX	
									Nickel Plated	25KB TS08 BPN		
									AISI 303	25KB TS08 RVX		
	10 mm		19	87	23	25	14	17	4	G 1/4	Standard Design	25KB TS10 BPX
									Nickel Plated	25KB TS10 BPN		
									AISI 303	25KB TS10 RVX		
		6 x 8 mm	19	144	23	7	6		M 12 x 1	Standard Design	25KB KK08 BPX	
								Nickel Plated	25KB KK08 BPN			
								AISI 303	25KB KK08 RVX			
 Plastic Hose Connection with Spring Guard	8 x 10 mm	19	155	23	9	8		M 16 x 1	Standard Design	25KB KK10 BPX		
									Nickel Plated	25KB KK10 BPN		
	9 x 12 mm		19	162	23	9	8		M 16 x 1	Standard Design	25KB KK12 BPX	
									Nickel Plated	25KB KK12 BPN		

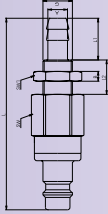
Couplings

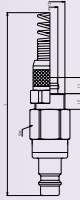
Couplings		Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb		6 mm	21	60		25					Standard Design	25SB TF06 MPX
											Nickel Plated	25SB TF06 MPN
			19	72		25					AISI 303	25SB TF06 RVX
											AISI 316 Ti	25SB TF06 EVX
		8 mm	21	60		25					Standard Design	25SB TF08 MPX
											Nickel Plated	25SB TF08 MPN
			19	72		25					AISI 303	25SB TF08 RVX
											AISI 316 Ti	25SB TF08 EVX
		9 mm	21	60		25					Standard Design	25SB TF09 MPX
											Nickel Plated	25SB TF09 MPN
			19	72		25					AISI 303	25SB TF09 RVX
											AISI 316 Ti	25SB TF09 EVX
		10 mm	21	60		25					Standard Design	25SB TF10 MPX
											Nickel Plated	25SB TF10 MPN
			19	72		25					AISI 303	25SB TF10 RVX
											AISI 316 Ti	25SB TF10 EVX
		13 mm	21	60		25					Standard Design	25SB TF13 MPX
											Nickel Plated	25SB TF13 MPN
			19	72		25					AISI 303	25SB TF13 RVX
											AISI 316 Ti	25SB TF13 EVX
		6 mm Parker	19	67.5		20.5					Standard Design	25SB TP06 MPX
											Nickel Plated	25SB TP06 MPN
		10 mm Parker	19	71		24					Standard Design	25SB TP10 MPX
											Nickel Plated	25SB TP10 MPN
		13 mm Parker	19	83		28					Standard Design	25SB TP13 MPX
											Nickel Plated	25SB TP13 MPN
		4 x 6 mm	21	47		7	6			M 10 x 1	Standard Design	25SB KO06 MPX
											Nickel Plated	25SB KO06 MPN
			19	59		7	6			M 10 x 1	AISI 303	25SB KO06 RVX
		6 x 8 mm	21	47		7	6			M 12 x 1	Standard Design	25SB KO08 MPX
											Nickel Plated	25SB KO08 MPN
			19	59		7	6			M 12 x 1	AISI 303	25SB KO08 RVX
											AISI 316 Ti	25SB KO08 EVX
		8 x 10 mm	21	51		8.5	8.5			M 16 x 1	Standard Design	25SB KO10 MPX
											Nickel Plated	25SB KO10 MPN
			19	63		8.5	8.5			M 16 x 1	AISI 303	25 SB KO10 RVX
		9 x 12 mm	21	51		8.5	8.5			M 16 x 1	Standard Design	25SB KO12 MPX
											Nickel Plated	25SB KO12 MPN
			19	63		8.5	8.5			M 16 x 1	AISI 303	25SB KO12 RVX
											AISI 316 Ti	25SB KO12 EVX



Plastic Hose Connection

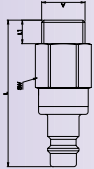
Valved Plugs

Valved Plugs		Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Panel Mount, Hose Barb		6 mm	21	62		17	10	17	4	M 12 x 1	Standard Design	25SB TS06 MPX
											Nickel Plated	25SB TS06 MPN
			19	74		17	10	17	4	M 12 x 1	AISI 303	25SB TS06 RVX
		8 mm	21	65		17	14	17	4	M 12 x 1	Standard Design	25SB TS08 MPX
											Nickel Plated	25SB TS08 MPN
			19	78		17	14	17	4	M 12 x 1	AISI 303	25SB TS08 RVX
		10 mm	21	74		25	14	17	3.5	G 1/4	Standard Design	25SB TS10 MPX
											Nickel Plated	25SB TS10 MPN
			19	7		25	14	17	3.5	G 1/4	AISI 303	25SB TS10 RVX
		4 x 6 mm	19	120		7	6			M 10 x 1	Standard Design	25SB KK06 MPX
											Nickel Plated	25SB KK06 MPN
		6 x 8 mm	19	135		7	6			M 12 x 1	Standard Design	25SB KK08 MPX
											Nickel Plated	25SB KK08 MPN
		8 x 10 mm	19	145		8.5	8.5			M 16 x 1	Standard Design	25SB KK10 MPX
											Nickel Plated	25SB KK10 MPN
		9 x 12 mm	19	150		8.5	8.5			M 16 x 1	Standard Design	25SB KK12 MPX
											Nickel Plated	25SB KK12 MPN



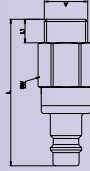
Plastic Hose Connection
with Spring Guard

Valved Plugs

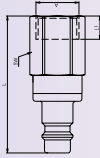
Valved Plugs		Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread		G 1/8	22	44.5		9					Standard Design	25SB AW10 MPX
											Nickel Plated	25SB AW10 MPN
			19	54		7					AISI 303	25 SB AW10 RVX
											AISI 316 Ti	25 SB AW10 EVX
		G 1/4	22	43		9					Standard Design	25SB AW13 MPX
											Nickel Plated	25SB AW13 MPN
			19	56		9					AISI 303	25 SB AW13 RVX
											AISI 316 Ti	25 SB AW13 EVX
		G 3/8	22	43		9					Standard Design	25SB AW17 MPX
											Nickel Plated	25SB AW17 MPN
			19	56		9					AISI 303	25 SB AW17 RVX
											AISI 316 Ti	25 SB AW17 EVX
		G 1/2	22	46		12					Standard Design	25SB AW21 MPX
											Nickel Plated	25SB AW21 MPN
			24	59		12					AISI 303	25 SB AW21 RVX
											AISI 316 Ti	25 SB AW21 EVX

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
M 14 x 1.5 DIN 2353	22	44		10					Standard Design	25SB AD14 MPX
									Nickel Plated	25SB AD14 MPN
	19	57		10					AIISI 303	25 SB AM14 RVX
									AIISI 316 Ti	25 SB AM14 EVX
M 16 x 1.5 DIN 2353	22	45		11					Standard Design	25SB AD16 MPX
									Nickel Plated	25SB AD16 MPN
	19	58		11					AIISI 303	25 SB AM16 RVX
									AIISI 316 Ti	25 SB AM16 EVX
M 18 x 1.5 DIN 2353	22	45		11					Standard Design	25SB AD18 MPX
									Nickel Plated	25SB AD18 MPN
	19	58		11					AIISI 303	25 SB AM18 RVX
G 1/4	22	43		10					Standard Design	25SB IW13 MPX
									Nickel Plated	25SB IW13 MPN
	19	54		10					AIISI 303	25 SB IW13 EVX
									AIISI 316 Ti	25 SB IW13 EVX
G 3/8	22	43		9					Standard Design	25SB IW17 MPX
									Nickel Plated	25SB IW17 MPN
	19	54		9					AIISI 303	25 SB IW17 RVX
									AIISI 316 Ti	25 SB IW17 EVX
G 1/2	24	46		12					Standard Design	25SB IW21 MPX
									Nickel Plated	25SB IW21 MPN
	24	56		12					AIISI 303	25 SB IW21 RVX
									AIISI 316 Ti	25 SB IW21 EVX
M 14 x 1.5	22	43		9					Standard Design	25SB IM14 MPX
									Nickel Plated	25SB IM14 MPN
	19	53		9					AIISI 303	25 SB IM14 RVX
M 16 x 1.5	22	43		9					Standard Design	25SB IM16 MPX
									Nickel Plated	25SB IM16 MPN
	19	53		9					AIISI 303	25 SB IM16 RVX
M 18 x 1.5	22	43		9					Standard Design	25SB IM18 MPX
									Nickel Plated	25SB IM18 MPN
	22	53		9					AIISI 303	25 SB IM18 RVX



Male Thread



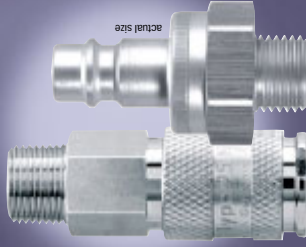
Female Thread

All Rectus quick connect couplings are also available in various grades of stainless steel for special requirements.



1.4305 / AISI 303
1.4571 / AISI 316 Ti
1.4404 / AISI 316 L
RECTUS®

Nominal Diameter **7,4 = 42 mm²**
25 KL series



Technical Description
Both the coupling and the plug are fitted with a valve. During the connection process, the plug and the coupling seal valves close simultaneously when disconnected, allowing the coupling and plug to be separated afterward while keeping the medium without leakage.

Advantages
Minimum (hardly noticeable) leakage occurs when disconnecting. Air is not trapped in during the connecting process.

Applications
Medical engineering, chemistry and laboratory installations, mechanical engineering.

Working Pressure
PB = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®) depending on the medium.

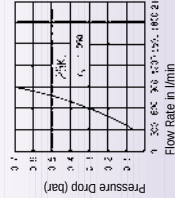
* At a temperature below -20°C and above +150°C special seals are available on request.

Material	Standard Version	Additional Versions
Coupling		Nickel Plated
Back Body	Brass, Nickel Plated	AISI 303
Valve Body	Brass, Nickel Plated	AISI 316 Ti
Sleeve	Brass, Nickel Plated	AISI 303
Valve	Brass	AISI 303
Spring and Locking Ring	AISI 301	AISI 316 Ti
Locking Balls	AISI 420	AISI 416
Seals	Buna N	Viton®
Seal Bonnet	Brass	AISI 303
Inner Sleeve	Brass	AISI 316 Ti

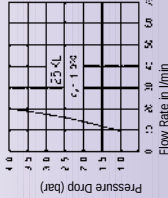
Plug		
Plug Profile	Brass, Nickel Plated	AISI 303
Back Body	Brass, Nickel Plated	AISI 316 Ti
Valve	Brass, Nickel Plated	AISI 303
Spring	AISI 301	AISI 316 Ti
Seal	Buna N	Viton®

Chart

Air



Water



Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	60	23	12					Standard Design	25KL AK13 BPN
G 1/4	19	59	23	10.5					AIISI 303	25KL AM13 RVX
									AIISI 316 Ti	25KL AM13 EVX
R 3/8	19	60	23	12					Standard Design	25KL AK17 BPN
G 3/8	19	57.5	23	9					AIISI 303	25KL AM17 RVX
									AIISI 316 Ti	25KL AM17 EVX
R 1/2	22	61	23	17					Standard Design	25KL AK21 BPN
G 1/2	24	60.5	23	12					AIISI 303	25KL AM21 RVX
									AIISI 316 Ti	25KL AM21 EVX
M 14 x 1.5	19	59	23	10					Standard Design	25KL AD14 BPN
									AIISI 303	25KL AM14 RVX
									AIISI 316 Ti	25KL AM14 EVX

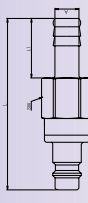
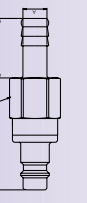


Male Thread

Couplings

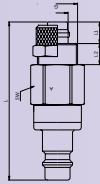
 Male Thread	DIN 2353	M 16 x 1.5	Connection A	Hex SW	L	D	L1	Hex1 SW1	G	Version	Part Number
				19	60	23	11			Standard Design	25KL AD16 BPN
										AISI 303	25KL AM16 RVX
	DIN 2353	M 18 x 1.5								AISI 316 Ti	25KL AM16 EVX
				19	60	23	11			Standard Design	25KL AD18 BPN
										AISI 303	25KL AM18 RVX
			G 1/4	19	56	23	10			Standard Design	25KL IW13 BPN
										AISI 303	25KL IW13 RVX
										AISI 316 Ti	25KL IW13 EVX
 Female Thread		G 3/8		19	55	23	9			Standard Design	25KL IW17 BPN
										AISI 303	25KL IW17 RVX
										AISI 316 Ti	25KL IW17 EVX
		G 1/2		24	58	23	12			Standard Design	25KL IW21 BPN
										AISI 303	25KL IW21 RVX
										AISI 316 Ti	25KL IW21 EVX
			M 14 x 1.5	19	55	23	9			Standard Design	25KL IM14 BPN
										AISI 303	25KL IM14 RVX
			M 18 x 1.5	19	55	23	9			Standard Design	25KL IM16 BPN
										AISI 303	25KL IM16 RVX
			M 18 x 1.5	22	56	23	9			Standard Design	25KL IM18 BPN
 Hose Barb	6 mm			19	74	23	25			Standard Design	25SL TF06 BPN
										AISI 303	25SL TF06 RVX
										AISI 316 Ti	25SL TF06 EVX
	8 mm			19	74	23	25			Standard Design	25SL TF08 BPN
										AISI 303	25SL TF08 RVX
										AISI 316 Ti	25SL TF08 EVX
	9 mm			19	74	23	25			Standard Design	25SL TF09 BPN
										AISI 303	25SL TF09 RVX
										AISI 316 Ti	25SL TF09 EVX
	10 mm			19	74	23	25			Standard Design	25SL TF10 BPN
										AISI 303	25SL TF10 RVX
										AISI 316 Ti	25SL TF10 EVX

Couplings

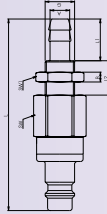
 Hose Barb	13 mm		Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
				19	74	23	25				Standard Design	25KL TF13 BPN
											AISI 303	25KL TF13 RVX
											AISI 316 Ti	25KL TF13 EVX
	6 x 8 mm			19	67	23	7	6		M 12 x 1	Standard Design	25KL KO08 BPN
											AISI 303	25KL KO08 RVX
											AISI 316 Ti	25KL KO08 EVX
	8 x 10 mm			19	65	23	9	8		M 16 x 1	Standard Design	25KL KO10 BPN
											AISI 303	25KL KO10 RVX
 Plastic Hose Connection with Spring Guard	9 x 12 mm			19	65	23	9	8		M 16 x 1	Standard Design	25KL KO12 BPN
											AISI 303	25KL KO12 RVX
											AISI 316 Ti	25KL KO12 EVX
	6 x 8 mm			19	144	23	7	6		M 12 x 1	Standard Design	25KL KK08 BPN
	8 x 10 mm			19	155	23	9	8		M 16 x 1	Standard Design	25KL KK10 BPN
	9 x 12 mm			19	162	23	9	8		M 16 x 1	Standard Design	25KL KK12 BPN
 Hose Barb	6 mm		Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
				21	60		25				Standard Design	25SL TF06 MPX
											Nickel Plated	25SL TF06 MPN
				19	75	25	25				AISI 303	25SL TF06 RVX
											AISI 316 Ti	25SL TF06 EVX
				21	60		25				Standard Design	25SL TF08 MPX
	8 mm										Nickel Plated	25SL TF08 MPN
				19	72	25	25				AISI 303	25SL TF08 RVX
											AISI 316 Ti	25SL TF08 EVX
	9 mm			21	60	25	25				Standard Design	25SL TF09 MPX
											Nickel Plated	25SL TF09 MPN
				19	72	25	25				AISI 303	25SL TF09 RVX
 Hose Barb	10 mm			21	60		25				AISI 316 Ti	25SL TF09 EVX
											Standard Design	25SL TF10 MPX
											Nickel Plated	25SL TF10 MPN
				19	72	25	25				AISI 303	25SL TF10 RVX
											AISI 316 Ti	25SL TF10 EVX

Valved Plugs

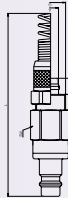
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
Hose Barb	13 mm	21	60	25				Standard Design	25SL TF13 MPX
								Nickel Plated	25SL TF13 MPN
		19	72	25				AISI 303	25SL TF13 RVX
								AISI 316 Ti	25SL TF13 EVX
Plastic Hose Connection	6 x 8 mm	21	47	7	6		M 12 x 1	Standard Design	25SL KO8 MPX
								Nickel Plated	25SL KO8 MPN
		19	59	7	6		M 12 x 1	AISI 303	25SL KO8 RVX
								AISI 316 Ti	25SL KO8 EVX
Plastic Hose Connection	8 x 10 mm	21	51	8.5	8.5		M 16 x 1	Standard Design	25SL KO10 MPX
								Nickel Plated	25SL KO10 MPN
		19	63	8.5	8.5		M 16 x 1	AISI 303	25 SL KO10 RVX
Panel Mount, Hose Barb	9 x 12 mm	21	51	8.5	8.5		M 16 x 1	Standard Design	25SL KO12 MPX
								Nickel Plated	25SL KO12 MPN
		19	63	8.5	8.5		M 16 x 1	AISI 303	25SL KO12 RVX
								AISI 316 Ti	25SL KO12 EVX
Panel Mount, Hose Barb	6 mm	21	62	17	10	17	4	Standard Design	25SL TS06 MPX
								Nickel Plated	25SL TS06 MPN
		19	74	17	10	17	4	AISI 303	25SL TS06 RVX
Panel Mount, Hose Barb	8 mm	21	65	17	14	17	4	Standard Design	25SL TS08 MPX
								Nickel Plated	25SL TS08 MPN
		19	78	17	14	17	4	AISI 303	25SL TS08 RVX
Panel Mount, Hose Barb	10 mm	21	74	25	14	7	3.5	Standard Design	25SL TS10 MPX
								Nickel Plated	25SL TS10 MPN
		19	78	17	14	17	3.5	AISI 303	25SL TS10 RVX
Panel Mount, Hose Barb	6 x 8 mm	19	135	7	6		M 12 x 1	Standard Design	25SL KK08 MPX
								Nickel Plated	25SL KK08 MPN
Panel Mount, Hose Barb	8 x 10 mm	19	145	8.5	8.5		M 16 x 1	Standard Design	25SL KK10 MPX
								Nickel Plated	25SL KK10 MPN
Panel Mount, Hose Barb	9 x 12 mm	19	150	8.5	8.5		M 16 x 1	Standard Design	25SL KK12 MPX
								Nickel Plated	25SL KK12 MPN



Plastic Hose Connection



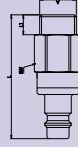
Panel Mount, Hose Barb



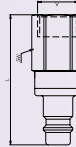
Plastic Hose Connection with Spring Guard

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Version	Part Number
G 1/4	22	43	9					Standard Design	25SL AW13 MPX
								Nickel Plated	25SL AW13 MPN
		19	56	9				AISI 303	25 SL AW13 RVX
								AISI 316 Ti	25 SL AW13 EVX
G 3/8	22	43	9					Standard Design	25SL AW17 MPX
								Nickel Plated	25SL AW17 MPN
		19	56	9				AISI 303	25 SL AW17 RVX
								AISI 316 Ti	25 SL AW17 EVX
G 1/2	22	46	12					Standard Design	25SL AW21 MPX
								Nickel Plated	25SL AW21 MPN
	24	59	12					AISI 303	25 SL AW21 RVX
								AISI 316 Ti	25 SL AW21 EVX
M 14 x 1.5	22	44	10					Standard Design	25SL AD14 MPX
								Nickel Plated	25SL AD14 MPN
	19	57	10					AISI 303	25 SL AM14 RVX
								AISI 316 Ti	25 SL AM14 EVX
M 16 x 1.5	22	45	11					Standard Design	25SL AD16 MPX
								Nickel Plated	25SL AD16 MPN
	19	58	11					AISI 303	25 SL AM16 RVX
								AISI 316 Ti	25 SL AM16 EVX
M 18 x 1.5	22	45	11					Standard Design	25SL AD18 MPX
								Nickel Plated	25SL AD18 MPN
	19	58	11					AISI 303	25 SL AM18 RVX
G 1/4	22	43	10					Standard Design	25SL IW13 MPX
								Nickel Plated	25SL IW13 MPN
	19	54	10					AISI 303	25 SL IW13 RVX
								AISI 316 Ti	25 SL IW13 EVX
G 3/8	22	43	9					Standard Design	25SL IW17 MPX
								Nickel Plated	25SL IW17 MPN
	19	53	9					AISI 303	25 SL IW17 RVX
								AISI 316 Ti	25 SL IW17 EVX
G 1/2	24	46	12					Standard Design	25SL IW21 MPX
								Nickel Plated	25SL IW21 MPN
	24	56	12					AISI 303	25 SL IW21 RVX
								AISI 316 Ti	25 SL IW21 EVX
M 14 x 1.5	22	43	9					Standard Design	25SL IM14 MPX
								Nickel Plated	25SL IM14 MPN
	19	53	9					AISI 303	25 SL IM14 RVX
M 16 x 1.5	22	43	9					Standard Design	25SL IM16 MPX
								Nickel Plated	25SL IM16 MPN
	19	53	9					AISI 303	25 SL IM16 RVX
M 18 x 1.5	22	43	9					Standard Design	25SL IM18 MPX
								Nickel Plated	25SL IM18 MPN
	22	53	9					AISI 303	25 SL IM18 RVX



Male Thread



Female Thread



Nominal Diameter **10** = 80 mm²

27 KB series

Technical Description

The 27 KB series is a double shut-off version based on our well proven Z1 KA compressed air model. In this case, the steel sleeve has been replaced by a brass sleeve for additional protection from corrosion. The valves in both the coupling and the plug are opened when connected. Both valves close virtually simultaneously when disconnected, ensuring minimum leakage loss.

Advantages

Single handed operation (the sleeve does not have to be pushed back when being connected), all individual parts are made of non-rusting materials, smooth operation due to the ball locking system.

Working Temperature

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Applications

Laboratory installations, gas sampling, air tools

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Material

Coupling

Brass
Back Body
Valve Body
Sleeve
Valve
Brass
Spring and Locking Ring
Locking Balls
Seals
Buna N
Brass
Spring Plate
Brass

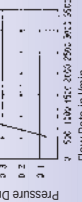
Additional Versions

Nickel Plated

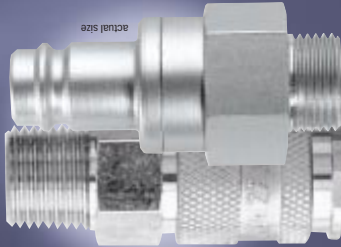
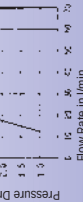
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
AISI 416
Viton®
AISI 303
AISI 316 Ti

Chart

Air

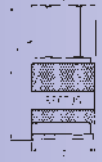


Water

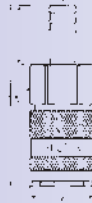


actual size

Couplings

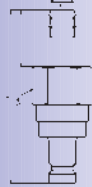


Female Thread



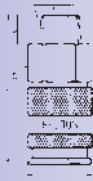
Hose Barb

Valved Plugs



Hose Barb

Couplings

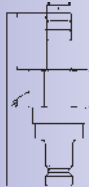


Male Thread

Connection A	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	Part Number
R 1/4	24	63	27	12				Standard Design	27KB AK13 BPX
								Nickel Plated	27KB AK13 BPN
G 1/4	24	56	27	9				AISI 303	27KB AW13 RVX
								AISI 316 Ti	27KB AW13 EVX
R 3/8	24	63	27	12				Standard Design	27KB AK17 BPX
								Nickel Plated	27KB AK17 BPN
G 3/8	24	56,5	27	9				AISI 303	27KB AW17 RVX
								AISI 316 Ti	27KB AW17 EVX
R 1/2	24	65	27	17				Standard Design	27KB AK21 BPX
								Nickel Plated	27KB AK21 BPN
G 1/2	24	56,5	27	12				AISI 303	27KB AW21 RVX
								AISI 316 Ti	27KB AW21 EVX
R 3/4	27	65	27	17				Standard Design	27KB AK26 BPX
								Nickel Plated	27KB AK26 BPN
G 3/4	32	59,5	27	16				AISI 303	27KB AW26 RVX
								AISI 316 Ti	27KB AW26 EVX

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	24	56	27	10					Standard Design	27KB IW13 BPX
									Nickel Plated	27KB IW13 BPN
									AISI 303	27KB IW13 RVX
									AISI 316 Ti	27KB IW13 EVX
G 3/8	24	56	27	11					Standard Design	27KB IW17 BPX
									Nickel Plated	27KB IW17 BPN
									AISI 303	27KB IW17 RVX
									AISI 316 Ti	27KB IW17 EVX
G 1/2	24	56	27	12					Standard Design	27KB IW21 BPX
									Nickel Plated	27KB IW21 BPN
									AISI 303	27KB IW21 RVX
									AISI 316 Ti	27KB IW21 EVX
G 3/4	32	60	27	16					Standard Design	27KB IW26 BPX
									Nickel Plated	27KB IW26 BPN
									AISI 303	27KB IW26 RVX
									AISI 316 Ti	27KB IW26 EVX
6 mm	24	76	27	25					Standard Design	27KB TF06 BPX
									Nickel Plated	27KB TF06 BPN
8 mm	24	76	27	25					Standard Design	27KB TF08 BPX
									Nickel Plated	27KB TF08 BPN
9 mm	24	76	27	25					Standard Design	27KB TF09 BPX
									Nickel Plated	27KB TF09 BPN
									AISI 303	27KB TF09 RVX
									AISI 316 Ti	27KB TF09 EVX
10 mm	24	76	27	25					Standard Design	27KB TF10 BPX
									Nickel Plated	27KB TF10 BPN
13 mm	24	76	27	25					Standard Design	27KB TF13 BPX
									Nickel Plated	27KB TF13 BPN
									AISI 303	27KB TF13 RVX
									AISI 316 Ti	27KB TF13 EVX
16 mm	24	76	27	25					Standard Design	27KB TF16 BPX
									Nickel Plated	27KB TF16 BPN
									AISI 303	27KB TF16 RVX
									AISI 316 Ti	27KB TF16 EVX
19 mm	24	76	27	25					Standard Design	27KB TF19 BPX
									Nickel Plated	27KB TF19 BPN
									AISI 303	27KB TF19 RVX
									AISI 316 Ti	27KB TF19 EVX

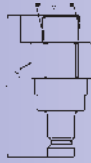
Valved Plugs



Hose Barb

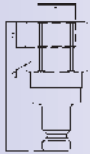
Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
10 mm		24	74		25					Standard Design	27SB TF10 MPX
										Nickel Plated	27SB TF10 MPN
										AISI 303	27SB TF10 RVX
13 mm		24	74		25					Standard Design	27SB TF13 MPX
										Nickel Plated	27SB TF13 MPN
										AISI 303	27SB TF13 RVX
16 mm		24	74		25					AISI 316 Ti	27SB TF13 EVX
										Standard Design	27SB TF16 MPX
										Nickel Plated	27SB TF16 MPN
19 mm										AISI 303	27SB TF16 RVX
										AISI 316 Ti	27SB TF16 EVX
		24	74		25					Standard Design	27SB TF19 MPX
										Nickel Plated	27SB TF19 MPN
										AISI 303	27SB TF19 RVX
										AISI 316 Ti	27SB TF19 EVX

Valved Plugs

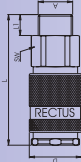


Male Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4		24	60.5		12					Standard Design	27SB AK13 MPX
										Nickel Plated	27SB AK13 MPN
		24	55.5		9					AISI 303	27SB AW13 RVX
R 3/8		24	60.5		12					Standard Design	27SB AK17 MPX
										Nickel Plated	27SB AK17 MPN
		24	55.5		9					AISI 303	27SB AW17 RVX
R 1/2										AISI 316 Ti	27SB AW17 EVX
		24	62.5		17					Standard Design	27SB AK21 MPX
										Nickel Plated	27SB AK21 MPN
G 1/2		24	57.5		12					AISI 303	27SB AW21 RVX
										AISI 316 Ti	27SB AW21 EVX
										Standard Design	27SB AK26 MPX
G 3/4		27	62.5		17					Nickel Plated	27SB AK26 MPN
										AISI 303	27SB AW26 RVX
		32	58.5		16					AISI 316 Ti	27SB AW26 EVX
G 1/4		24	54.5		9					Standard Design	27SB IW13 MPX
										Nickel Plated	27SB IW13 MPN
										AISI 303	27SB IW13 RVX
G 3/8										AISI 316 Ti	27SB IW13 EVX
		24	54.5		9					Standard Design	27SB IW17 MPX
										Nickel Plated	27SB IW17 MPN
G 1/2										AISI 303	27SB IW17 RVX
		24	54.5		12					AISI 316 Ti	27SB IW17 EVX
										Standard Design	27SB IW21 MPX
G 3/4										Nickel Plated	27SB IW21 MPN
										AISI 303	27SB IW21 RVX
		32	58.5		16					AISI 316 Ti	27SB IW21 EVX
										Standard Design	27SB IW26 MPX
										Nickel Plated	27SB IW26 MPN
										AISI 303	27SB IW26 RVX
										AISI 316 Ti	27SB IW26 EVX



Female Thread



Male Thread

Female Thread

Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2		34	98	40	12					Standard Design	57KB AW21 SPN
G 3/4		34	100	40	16					Standard Design	57KB AW26 SPN
G 1		41	100	40	19					Standard Design	57KB AW33 SPN
G 1/2		34	100	40	19					Standard Design	57KB IW21 SPN

Nominal Diameter 12 = 115 mm²
57 KB series



Technical Description
The 57 coupling series can be used with both straight-through (non-valved) plugs (see page 87) as well as shut-off plugs. This system is not always suitable for use with water since there is a risk of corrosion of the steel parts used in spite of being galvanized.

Advantages
The 57 series features single handed operation and high flow rates due to the ULTRA-FLO valve.

Applications
Mechanical and plant engineering. For liquids and gaseous mediums.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Plug

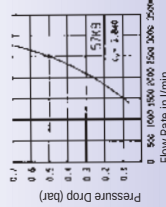
Plug Profile
Back Body
Valve
Spring
Seal
Spring Plate

Standard Version

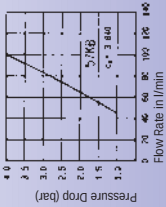
Brass, Nickel Plated
Steel, Nickel Plated
Steel Hardened, Nickel Plated
Brass, Nickel Plated
AISI 301
AISI 420
Buna N
Brass, Nickel Plated

Chart

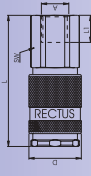
Air



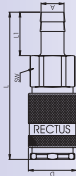
Water



Couplings

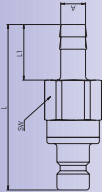


Female Thread



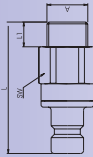
Hose Barb

Valved Plugs

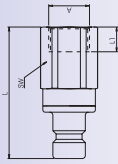


Hose Barb

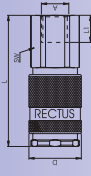
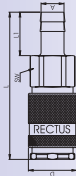
Plugs

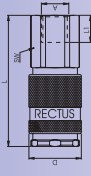


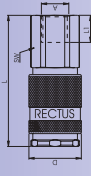
Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/4	34	100	40	16					Standard Design	57KB IW26 SPN
	G 1	41	101	40	20					Standard Design	57KB IW33 SPN
	16 mm	34	122	40	36					Standard Design	57KB TF16 SPN
	19 mm	34	122	40	36					Standard Design	57KB TF19 SPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	13 mm	34	101		28					Standard Design	57SB TF13 SPN
	16 mm	34	107		36					Standard Design	57SB TF16 SPN
	19 mm	34	107		36					Standard Design	57SB TF19 SPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/8	34	86		12					Standard Design	57SB AW17 SPN
	G 1/2	34	83		12					Standard Design	57SB AW21 SPN
	G 3/4	34	85		16					Standard Design	57SB AW26 SPN
	G 1	41	85		19					Standard Design	57SB AW33 SPN
	G 1/2	34	85		19					Standard Design	57SB IW21 SPN
	G 3/4	34	85		16					Standard Design	57SB IW26 SPN

Nominal Diameter

15 = 175 mm²

38 KB series

Technical Description
The 38 series is a single handed coupling made of brass. It can be connected with both shut-off plugs as well as plugs without a shut-off valve.

Advantages
Compact construction, extremely high flow rates due to the ULTRA-FLO valve. All individual parts are manufactured from non-rusting materials.

Applications
Refrigerating circuit, compressed air, mechanical engineering.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

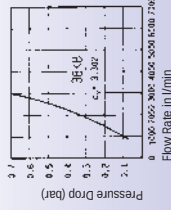
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

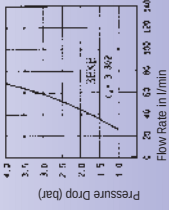
Material	Standard Version	Additional Versions Nickel Plated
Coupling	Brass	Brass, Nickel Plated
Back Body	Brass	Brass, Nickel Plated
Valve Body	Brass	Brass, Nickel Plated
Sleeve	Brass	Brass
Valve	Brass	Brass
Spring and Locking Ring	AISI 301	AISI 301
Locking Balls	AISI 420	AISI 420
Seals	Buna N	Buna N
Inner Sleeve	Brass	Brass
Spring Plate	Brass	Brass
Plug	Brass	Brass, Nickel Plated
Plug Profile	Brass	Brass, Nickel Plated
Back Body	Brass	Brass, Nickel Plated
Valve	AISI 301	AISI 301
Spring and Locking Ring	Buna N	Buna N
Seal	Brass	Brass
Spring Plate	Brass	Brass

Chart

Air



Water



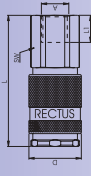
Couplings



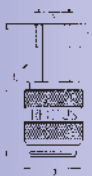
Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/8	34	86		12					Standard Design	57SB AW17 SPN
	G 1/2	34	83		12					Standard Design	57SB AW21 SPN
	G 3/4	34	85		16					Standard Design	57SB AW26 SPN
	G 1	41	85		19					Standard Design	57SB AW33 SPN
	G 1/2	34	85		19					Standard Design	57SB IW21 SPN
	G 3/4	34	85		16					Standard Design	57SB IW26 SPN

Couplings

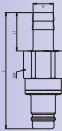


Female Thread



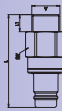
Hose Barb

Valved Plugs



Hose Barb

Valved Plugs



Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	34	91	40	14						Standard Design	38KB IW26 MPX
										Nickel Plated	38KB IW26 MPN
G 1	41	92	40	20						Standard Design	38KB IW33 MPX
										Nickel Plated	38KB IW33 MPN
13 mm	34	105	40	28						Standard Design	38KB TF13 MPX
										Nickel Plated	38KB TF13 MPN
16 mm	34	113	40	36						Standard Design	38KB TF16 MPX
										Nickel Plated	38KB TF16 MPN
19 mm	34	113	40	36						Standard Design	38KB TF19 MPX
										Nickel Plated	38KB TF19 MPN
25 mm	34	109	40	36						Standard Design	38KB TF25 MPX
										Nickel Plated	38KB TF25 MPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
13 mm	34	103		28						Standard Design	38SB TF13 MPX
										Nickel Plated	38SB TF13 MPN
16 mm	34	109		36						Standard Design	38SB TF16 MPX
										Nickel Plated	38SB TF16 MPN
19 mm	34	109		36						Standard Design	38SB TF19 MPX
										Nickel Plated	38SB TF19 MPN
25 mm	34	105		36						Standard Design	38SB TF25 MPX
										Nickel Plated	38SB TF25 MPN

Nominal Diameter

19 = 300 mm²

39 KB series



Technical Description
This single handed coupling made of brass can be connected with both shut-off plugs and without a shut-off valve.

Advantages
Extremely high flow rates due to the RECTUS ULTRA-FLO valve. Compact construction. All individual parts are manufactured from non-rusting materials.

Applications
Refrigerating circuit, compressed air, mechanical engineering.

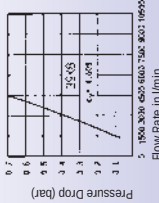
Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

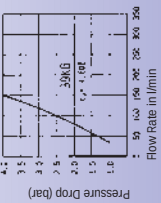
* At a temperature below -20°C and above +150°C special seals are available on request.

Chart

Air



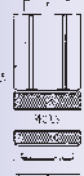
Water



Couplings



Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	41	95	46	16						Standard Design	39KB AW26 MPX
										Nickel Plated	39KB AW26 MPN
G 1	41	98	46	19						Standard Design	39KB AW33 MPX
										Nickel Plated	39KB AW33 MPN
G 1 1/4	46	98	46	19						Standard Design	39KB AW42 MPX
										Nickel Plated	39KB AW42 MPN
G 3/4	41	99	46	20						Standard Design	39KB IW26 MPX
										Nickel Plated	39KB IW26 MPN

Couplings

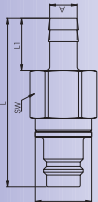


Female Thread



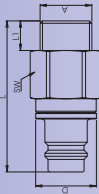
Hose Barb

Valved Plugs

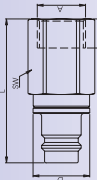


Hose Barb

Valved Plugs



Male Thread



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	41	100	46	20						Standard Design	39KB IW33 MPX
										Nickel Plated	39KB IW33 MPN
G 1/4	50	105	46	22						Standard Design	39KB IW42 MPX
										Nickel Plated	39KB IW42 MPN
19 mm	41	115	46	36						Standard Design	39KB TF19 MPX
										Nickel Plated	39KB TF19 MPN
25 mm	41	125	46	48						Standard Design	39KB TF25 MPX
										Nickel Plated	39KB TF25 MPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
19 mm	41	114	36							Standard Design	39SB TF19 MPX
										Nickel Plated	39SB TF19 MPN
25 mm	41	124	48							Standard Design	39SB TF25 MPX
										Nickel Plated	39SB TF25 MPN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	41	92	16							Standard Design	39SB AW26 MPX
										Nickel Plated	39SB AW26 MPN
G 1	41	95	19							Standard Design	39SB AW33 MPX
										Nickel Plated	39SB AW33 MPN
G 1 1/4	46	95	19							Standard Design	39SB AW42 MPX
										Nickel Plated	39SB AW42 MPN
G 3/4	41	96	16							Standard Design	39SB IW26 MPX
										Nickel Plated	39SB IW26 MPN
G 1	41	97	24							Standard Design	39SB IW33 MPX
										Nickel Plated	39SB IW33 MPN
G 1 1/4	50	102	26							Standard Design	39SB IW42 MPX
										Nickel Plated	39SB IW42 MPN

Nominal Diameter **19** = 300 mm²

39 KL series

Technical Description

Both the coupling and the plug are fitted with valves. During the connection process, the plug and the coupling seal prior to open both valves. Both valves close simultaneously when disconnected, allowing the coupling and plug to be separated afterward.

Advantages

Minimum leakage when disconnecting leaves only a slight film of the medium left on the front part of the plug. Air is not trapped in during the coupling process, depending on the medium.

Applications

Medical engineering, mechanical engineering.

Working Pressure

PE = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C bis +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material Coupling

Brass
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Seal Bonnet
Inner Sleeve

Plug

Brass
Plug Profile
Back Body
Valve
Spring
Seal
Spring Plate

Standard Version

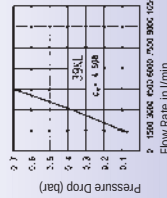
Brass
Brass
Brass
Brass
Brass
AISI 301
AISI 420
Buna N
Brass
Brass

Additional Versions Nickel Plated

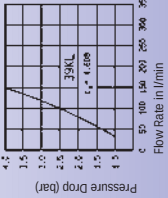
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
AISI 301
AISI 420
Buna N
Brass
Brass

Chart

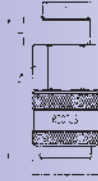
Air



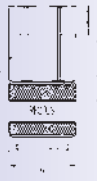
Water



Couplings



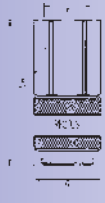
Male Thread



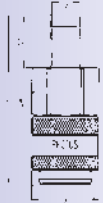
Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	41	92	16							Standard Design	39SB AW26 MPX
										Nickel Plated	39SB AW26 MPN
G 1	41	95	19							Standard Design	39SB AW33 MPX
										Nickel Plated	39SB AW33 MPN
G 1 1/4	46	95	19							Standard Design	39SB AW42 MPX
										Nickel Plated	39SB AW42 MPN
G 3/4	41	96	16							Standard Design	39SB IW26 MPX
										Nickel Plated	39SB IW26 MPN
G 1	41	97	24							Standard Design	39SB IW33 MPX
										Nickel Plated	39SB IW33 MPN
G 1 1/4	50	102	26							Standard Design	39SB IW42 MPX
										Nickel Plated	39SB IW42 MPN

Couplings



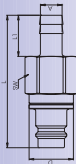
Female Thread



Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1	41	100	46	20						Standard Design	39KL IW33 MPX
										Nickel Plated	39KL IW33 MPN
G 1 1/4	50	105	46	22						Standard Design	39KL IW42 MPX
										Nickel Plated	39KL IW42 MPN
19 mm	41	115	46	36						Standard Design	39KL TF19 MPX
										Nickel Plated	39KL TF19 MPN
25 mm	41	125	46	48						Standard Design	39KL TF25 MPX
										Nickel Plated	39KL TF25 MPN

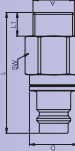
Valved Plugs



Hose Barb

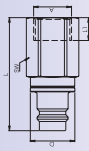
Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
19 mm	41	114	36							Standard Design	39SL TF19 MPX
										Nickel Plated	39SL TF19 MPN
25 mm	41	124	48							Standard Design	39SL TF25 MPX
										Nickel Plated	39SL TF25 MPN

Valved Plugs



Male Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	41	92	16							Standard Design	39SL AW26 MPX
										Nickel Plated	39SL AW26 MPN
G 1	41	95	19							Standard Design	39SL AW33 MPX
										Nickel Plated	39SL AW33 MPN
G 1 1/4	46	95	19							Standard Design	39SL AW42 MPX
										Nickel Plated	39SL AW42 MPN
G 3/4	41	96	16							Standard Design	39SL IW26 MPX
										Nickel Plated	39SL IW26 MPN



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1	41	97	24							Standard Design	39SL IW33 MPX
										Nickel Plated	39SL IW33 MPN
G 1 1/4	50	102	26							Standard Design	39SL IW42 MPX
										Nickel Plated	39SL IW42 MPN

Nominal Diameter **25 = 490 mm²****225 KL series**

Technical Description

The 225 KL coupling system was developed for the chemical and beverage industries for filling and draining containers. There is no leakage loss whatsoever during the connecting as well as the disconnecting process. The EPDM seals conform to the FDA regulations.

Advantages

High flow rates, easy to clean, simple to dismantle, moving parts are encapsulated and external to the product flow. The screwed connection allows manual connection even at a pressure of 4 bar.

Applications

Pharmaceutical, food and beverage.

Working Pressure

PB = 16 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material Coupling

Cap Nut
Valve Body
Spring Plate
Valve
Locking Ring
Spring
Seals

Plug

Valve Plug
Sleeve
Locking Ring
Valve
Spring
Seal
Spring

Couplings



Male Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1 1/2	65	99	70	19						Standard Design	225KL AW48 CEX

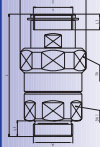
Valved Plugs



Female Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1 1/2	75	85.5	80	19			50			Standard Design	225SL IW48 CEX

Couplings + Plugs



Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1 1/2	75	149	80	19			65			Standard Design	225 AW48 IW48 CE

Nominal Diameter **4,3** = 15 mm²

71 KB series

Technical Description
The 71 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Advantages
This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Applications
Liquids, paper machines, refri-gerating circuit, rail vehicle.

Working Pressure
PB = 250 bar (brass)
PB = 250 bar (stainless steel), maximum static working pressure until 50°C with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Standard Version

Additional Versions

Material

Coupling

Back Body

Sleeve

Valve

Spring and Locking Ring

Locking Balls

Seals

Spring Plate

Plug

Plug Profile

Valve

Spring

Seal

Spring Plate

Material

Standard Version

Additional Versions

Material

Coupling

Back Body

Sleeve

Valve

Spring and Locking Ring

Locking Balls

Seals

Spring Plate

Plug

Plug Profile

Valve

Spring

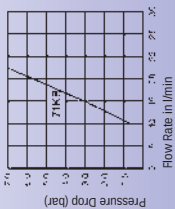
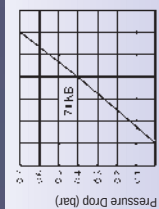
Seal

Spring Plate

Chart

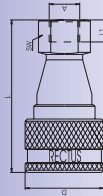
Air

Water



Couplings

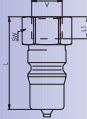
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	48,5	25	7					Standard Design	71KB IW10 MPX
									AISI 303	71KB IW10 RVX
									AISI 316 Ti	71KB IW10 EVX



Female Thread

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/8	14	29,5		7					Standard Design	71SB IW10 MPX
									AISI 303	71SB IW10 RVX
									AISI 316 Ti	71SB IW10 EVX



Female Thread

Nominal Diameter **6** = 30 mm²

72 KB series

Technical Description
The 72 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Advantages
This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Applications
Liquids, paper machines, refri-gerating circuit, rail vehicle.

Working Pressure
PB = 200 bar (brass)
PB = 250 bar (stainless steel), maximum static working pressure until 50°C with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Standard Version

Additional Versions

Material

Coupling

Back Body

Sleeve

Valve

Spring and Locking Ring

Locking Balls

Seals

Spring Plate

Plug

Plug Profile

Valve

Spring

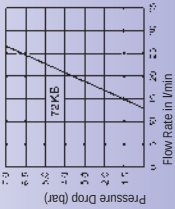
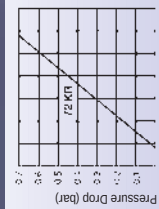
Spring Plate

Seal

Chart

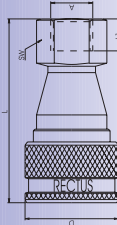
Air

Water



Couplings

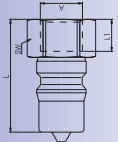
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	19	57,5	29	10					Standard Design	72KB IW13 MPX
									AISI 303	72KB IW13 RVX
									AISI 316 Ti	72KB IW13 EVX



Female Thread

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	19	35		10					Standard Design	72SB IW13 MPX
									AISI 303	72SB IW13 RVX
									AISI 316 Ti	72SB IW13 EVX



Female Thread

Nominal Diameter **7,5** = 44 mm²

73 KB series

Technical Description
The 73 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Applications
Liquids, paper machines, refri-
gerating circuit, rail vehicle.

Working Pressure
PB = 200 bar (brass)
PB = 250 bar (stainless steel),
maximum static working
pressure until 50°C with safety
factor of 4 to 1.

Working Pressure*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C
and above +150°C special seals
are available on request.

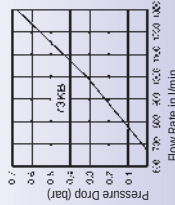
Advantages
This coupling requires two han-
ded operation (the sleeve
must be manually pulled back
when connecting).

Material	Standard Version	Additional Versions	POM (Plastic)
Coupling			(see page 200)
Back Body	Brass	AISI 303	AISI 316 Ti
Sleeve	Brass	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring and Locking Ring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls	AISI 420	AISI 316	
Seals	Buna N	Viton®	
Spring Plate	Brass	AISI 301	AISI 316 Ti

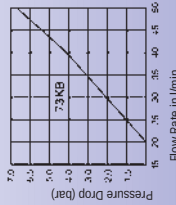
Plug
Plug Profile
Valve
Spring
Spring Plate
Seal

Chart

Air

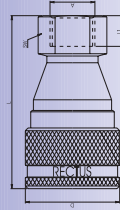


Water



90% of actual size

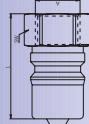
Couplings



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	22	64	35	11,5					Standard Design	73KB IW17 MPX
									AISI 303	73KB IW17 RVX
									AISI 316 Ti	73KB IW17 EVX

Valved Plugs



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	22	39		11,5					Standard Design	73SB IW17 MPX
									AISI 303	73SB IW17 RVX
									AISI 316 Ti	73SB IW17 EVX

Nominal Diameter **11** = 95 mm²

74 KB series

Technical Description
The 74 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Applications
Liquids, paper machines, refri-
gerating circuit, rail vehicle.

Working Pressure
PB = 150 bar (brass)
PB = 250 bar (stainless steel),
maximum static working
pressure until 50°C with
safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C
and above +150°C special seals
are available on request.

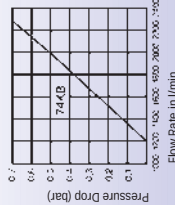
Advantages
This coupling requires two han-
ded operation (the sleeve must
be manually pulled back when
connecting).

Material	Standard Version	Additional Versions	POM (Plastic)
Coupling			(see page 201)
Back Body	Brass	AISI 303	AISI 316 Ti
Sleeve	Brass	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring and Locking Ring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls	AISI 420	AISI 316	
Seals	Buna N	Viton®	
Spring Plate	Brass	AISI 316 Ti	AISI 316 Ti

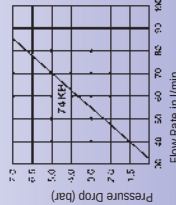
Plug
Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

Chart

Air

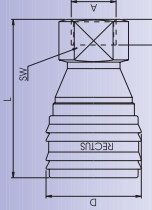


Water



75% of actual size

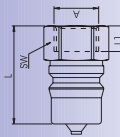
Couplings



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	27	76	44,5	16					Standard Design	74KB IW21 MPX
									AISI 303	74KB IW21 RVX
									AISI 316 Ti	74KB IW21 EVX

Valved Plugs



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	27	48		16					Standard Design	74SB IW21 MPX
									AISI 303	74SB IW21 RVX
									AISI 316 Ti	74SB IW21 EVX

Nominal Diameter **13** = 133 mm²

75 KB series

Technical Description
The 75 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Applications
Liquids, paper machines, refrigerating circuit, rail vehicle.

Working Pressure
PB = 100 bar (brass)
PB = 160 bar (stainless steel), maximum static working pressure until 50°C with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

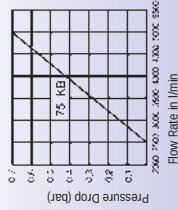
Advantages
This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Material	Standard Version	Additional Versions
Coupling		AI SI 303 AI SI 316 Ti POM (Plastic) (see page 202)
Back Body	Brass	AI SI 303 AI SI 316 Ti
Sleeve	Brass	AI SI 303 AI SI 316 Ti
Valve	Brass	AI SI 303 AI SI 316 Ti
Spring and Locking Ring	AI SI 301	AI SI 301 AI SI 316 Ti
Locking Balls	AI SI 420	AI SI 316
Seals	Buna N	Viton®
Spring Plate	Brass	AI SI 301 AI SI 316 Ti

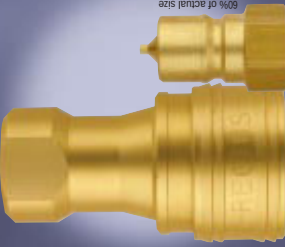
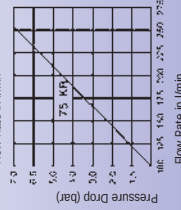
Plug
Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

Chart

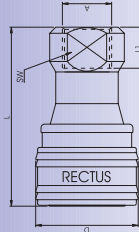
Air



Water



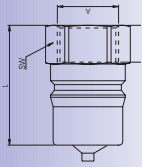
Couplings



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	34	96	55	24					Standard Design	75KB IW26 MPX
									AI SI 303	75KB IW26 RVX
									AI SI 316 Ti	75KB IW26 EVX

Valved Plugs



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4	36	60		24					Standard Design	75SB IW26 MPX
									AI SI 303	75SB IW26 RVX
									AI SI 316 Ti	75SB IW26 EVX

Nominal Diameter **20** = 314 mm²

76 KB series

Technical Description
The 76 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting materials.

Applications
Liquids, paper machines, refrigerating circuit, rail vehicle.

Working Pressure
PB = 100 bar (brass)
PB = 100 bar (stainless steel), maximum static working pressure until 50°C with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

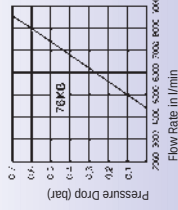
Advantages
This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Material	Standard Version	Additional Versions
Coupling		AI SI 303 AI SI 316 Ti POM (Plastic) (see page 203)
Back Body	Brass	AI SI 303 AI SI 316 Ti
Sleeve	Brass	AI SI 303 AI SI 316 Ti
Valve	Brass	AI SI 303 AI SI 316 Ti
Spring and Locking Ring	AI SI 316 Ti	AI SI 316 Ti
Locking Balls	AI SI 420	AI SI 316
Seals	Buna N	Viton®
Spring and Locking Ring	Brass	AI SI 301 AI SI 316 Ti

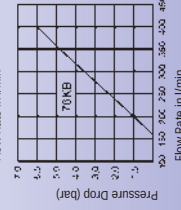
Plug
Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

Chart

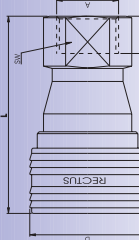
Air



Water



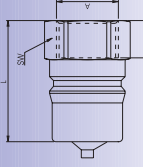
Couplings



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1	41	105.5	62	24					Standard Design	76KB IW33 MPX
									AI SI 303	76KB IW33 RVX
									AI SI 316 Ti	76KB IW33 EVX

Valved Plugs



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1	41	65		24					Standard Design	76SB IW33 MPX
									AI SI 303	76SB IW33 RVX
									AI SI 316 Ti	76SB IW33 EVX

Reliable protection of humans and the environment is a challenge that also plays an important role in the world of connection technology. In addition to the classic tasks in respiratory protection (e.g. for divers or firemen), there are also innumerable other hazardous areas where extreme safety requirements are necessary, (e.g. in medical and laboratory technologies, the chemical industry or in compressed air applications). RECTUS quick connect couplings with their patented safety locks have

Quick Connect Couplings for Safety

an excellent reputation in these types of applications. When it comes to completely preventing unintentional disconnection or cutting off a pressurized connection, RECTUS systems work with the highest precision and safety.

The KS series couplings are standard couplings equipped with an additional safety lock. Before a coupling can be disconnected, the plug must be deliberately pushed further into the coupling before it can be disconnected by pulling the sleeve back. This RECTUS patented system for reliability prevents the unintentional loosening of connections.

25KS

1
Improved industrial safety through patented, single operated ventilation technology with a two step locking system.

14/24/26KE

2
Softforming instead of metal: the new sleeve, made of high-tech plastic, is lighter and prevents the scratching of surfaces.

Applications:
Breathing apparatus
Laboratory technology
Diving equipment
Salvage equipment
Fire-fighting technology
Textile industry
Gas applications



Automobile industry
Filling stations
Heating systems
Medical technology
Chemical system technologies
Gas technology
Paint mixing systems
Semiconductor industry
Analysis equipment

EN 983
ISO 4414
ISO 6150



Nominal Diameter **5** = 20 mm²

21 KS series



Technical description

The 21 KS coupling is similar to our 21 KA miniature coupling which has a proven track record for reliability, however, it also uses an additional safety locking system. When being disconnected, the plug must first be pushed further into the coupling before it can be disconnected. This prevents unintentional disconnection.

Advantages

A quality coupling with compact dimensions. The safety locking system prevents unauthorized disconnection. A multitude of connecting variations.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®)
depending on the medium.

Applications

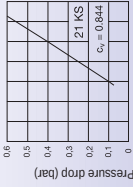
Breathing air, laboratory engineering, medical engineering.

Working Pressure

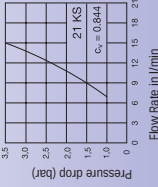
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Chart

Air



Water



Couplings

	Connection A				Connection B				Part Number
	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	
 Male Thread	G 1/8	14	36	16	7			Standard Design	21KS AW10 MPX
								Nickel Plated	21KS AW10 MPN
	G 1/4	17	38	16	9			Standard Design	21KS AW13 MPX
								Nickel Plated	21KS AW13 MPN
	G 3/8	19	38	16	9			Standard Design	21KS AW17 MPX
								Nickel Plated	21KS AW17 MPN
 Female Thread	M 12 x 1.5	17	39	16	10			Standard Design	21KS AD12 MPX
								Nickel Plated	21KS AD12 MPN
	M 14 x 1.5	17	39	16	10			Standard Design	21KS AD14 MPX
								Nickel Plated	21KS AD14 MPN
	G 1/8	14	36	16	9			Standard Design	21KS IW10 MPX
								Nickel Plated	21KS IW10 MPN
 Hose Barb	G 1/4	17	38	16	9			Standard Design	21KS IW13 MPX
								Nickel Plated	21KS IW13 MPN
	G 3/8	19	38	16	6			Standard Design	21KS IW17 MPX
								Nickel Plated	21KS IW17 MPN
	M 12 x 1.5	17	38	16	6			Standard Design	21KS IM12 MPX
								Nickel Plated	21KS IM12 MPN
	M 14 x 1.5	17	38	16	6			Standard Design	21KS IM14 MPX
								Nickel Plated	21KS IM14 MPN
	4 mm	14	46	16	17			Standard Design	21KS TF04 MPX
								Nickel Plated	21KS TF04 MPN

	Connection A		L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	5 mm	14	46	16	17					Standard Design	21KS TF05 MPX
										Nickel Plated	21KS TF05 MPN
	6 mm	14	46	16	17					Standard Design	21KS TF06 MPX
										Nickel Plated	21KS TF06 MPN
	8 mm	14	46	16	17					Standard Design	21KS TF08 MPX
										Nickel Plated	21KS TF08 MPN
 Plastic Hose Connection	9 mm	14	46	16	17					Standard Design	21KS TF09 MPX
										Nickel Plated	21KS TF09 MPN
	10 mm	14	46	16	17					Standard Design	21KS TF10 MPX
										Nickel Plated	21KS TF10 MPN
	4 x 6 mm	14	42	16	7	6			M 10 x 1	Standard Design	21KS KO06 MPX
										Nickel Plated	21KS KO06 MPN
 Panel Mount, Plastic Hose Connection	6 x 8 mm	14	42	16	7	6			M 12 x 1	Standard Design	21KS KO08 MPX
										Nickel Plated	21KS KO08 MPN
	4 x 6 mm	14	54	16	7	18	14	4	M 10 x 1	Standard Design	21KS KS06 MPX
										Nickel Plated	21KS KS06 MPN
	6 x 8 mm	17	54	16	7	18	17	4	M 12 x 1	Standard Design	21KS KS08 MPX
										Nickel Plated	21KS KS08 MPN
 Panel Mount, Hose Barb	4 mm	14	60	16	17	14	4		M 10 x 1	Standard Design	21KS TS04 MPX
										Nickel Plated	21KS TS04 MPN
	5 mm	17	60	16	17	14	4		M 12 x 1	Standard Design	21KS TS05 MPX
										Nickel Plated	21KS TS05 MPN
	6 mm	17	60	16	17	14	4		M 12 x 1	Standard Design	21KS TS06 MPX
										Nickel Plated	21KS TS06 MPN
	8 mm	17	60	16	17	14	4		M 12 x 1	Standard Design	21KS TS08 MPX
										Nickel Plated	21KS TS08 MPN

Plugs

	Connection A				Connection B				Part Number
	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	
 Male Thread	G 1/8	14	25	7				Standard Design	21SS AW10 MXX
								Nickel Plated	21SS AW10 MXN
	G 1/4	17	28	9				Standard Design	21SS AW13 MXX
 Female Thread	G 1/8	14	25	8				Standard Design	21SS IW10 MXX
								Nickel Plated	21SS IW10 MXN
	G 1/4	17	25	9				Standard Design	21SS IW13 MXX
								Nickel Plated	21SS IW13 MXN

Plugs

	Connection A				Connection B				Part Number
	Hex SW	L	D	L1	Hex1 SW1	B	G	Version	
 Hose Barb	4 mm	32	9	17				Standard Design	21SS TF04 MXX
								Nickel Plated	21SS TF04 MXN
	6 mm	32	9	17				Standard Design	21SS TF06 MXX
								Nickel Plated	21SS TF06 MXN
	8 mm	32	9	17				Standard Design	21SS TF08 MXX
								Nickel Plated	21SS TF08 MXN
	9 mm	33	10	17				Standard Design	21SS TF09 MXX
								Nickel Plated	21SS TF09 MXN
	10 mm	33	12	17				Standard Design	21SS TF10 MXX
								Nickel Plated	21SS TF10 MXN

Nominal Diameter

5 = 20 mm²

21 KD series



Technical Description
The coupling as well as the plug are fitted with a valve. Both valves are opened when the connection is made which guarantees immediate flow. The valves close when disconnected which prevents the medium from leaking. The special locking system, based on 21 KS, prevents from unintentional disconnection.

Advantages
A quality coupling with compact dimensions, high flow rate with a multitude of connecting possibilities. The safety unlocking system prevents unintentional disconnection.

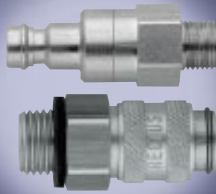
Applications
Breathing air, laboratory engineering, medical engineering.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
0°C up to +316°C (Kalrez®)
-15°C up to +200°C (Viton®) depending on the medium.

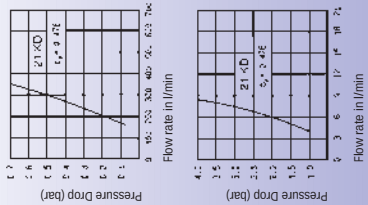
*At a temperature below -20°C and above +150°C special seals are available on request.

Material	Standard Version
Coupling	
Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Brass, Nickel Plated
Valve	Brass
Spring and Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	Buna N
Plug	
Plug Profile	Brass, Nickel Plated
Back Body	Brass, Nickel Plated
Valve	Brass
Spring	AISI301
Seal	Buna N



actual size

Chart



Couplings

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	G 1/8	14	36	16	7					Standard Design	21KD AW10 MPN
	G 1/4	17	38	16	9					Standard Design	21KD AW13 MPN
	G 3/8	19	38	16	9					Standard Design	21KD AW17 MPN
 Female Thread	G 1/8	14	36	16	9					Standard Design	21KD IW10 MPN
	G 1/4	17	38	16	9					Standard Design	21KD IW13 MPN
	G 3/8	19	38	16	9					Standard Design	21KD IW17 MPN
 Hose Barb	6 mm	14	46	16	17					Standard Design	21KD TF06 MPN
	8 mm	14	46	16	17					Standard Design	21KD TF08 MPN
	10 mm	14	46	16	17					Standard Design	21KD TF10 MPN

Valved Plugs

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	G 1/8	14	40	7						Standard Design	21SD AW10 MPN
	G 1/4	17	42	9						Standard Design	21SD AW13 MPN
	G 3/8	19	42	9						Standard Design	21SD AW17 MPN
 Female Thread	G 1/8	14	40	7						Standard Design	21SD IW10 MPN
	G 1/4	17	42	7						Standard Design	21SD IW13 MPN
	G 3/8	19	42	7						Standard Design	21SD IW17 MPN

Valved Plugs

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	6 mm	14	50	17						Standard Design	21SD TF06 MPN
	8 mm	14	50	17						Standard Design	21SD TF08 MPN
	10 mm	14	50	17						Standard Design	21SD TF10 MPN

The 21 KD series. For more safety in respiratory and medical technology. The integrated safety release mechanism means that accidental opening of the coupling can be completely ruled out.

Nominal Diameter **5 = 20 mm²**

SSV 21 series

Technical Description
The quick connect 21 SSV fitting is DIN-DVGW-approved, and meets test certificate NG-4311 AQ 1414. All safety provisions and regulations according to DIN 4815 part 5 (03.88) have been complied with. Supplied complete with a protective cover and operating instructions.

Advantages
The quick connect coupling can only be separated from the plug after the shut-off valve has closed. Double safety is guaranteed by the shut-off valve and the valve in the coupling.

Applications
Camping, breeding, laboratory, learning systems.

Working Pressure
PB = 4 bar, maximum static working pressure with safety factor of 4 to 1.

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

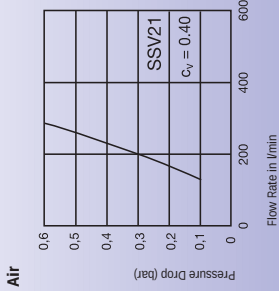
Standard Version

Material	Brass
Coupling	Back Body Valve Body Sleeve Valve Spring and Locking Ring Locking Balls Seals Protection Cap Plug
Shut-Off Plug	Body Membrane, O-Ring Twist Grip Spindle Spring
	Brass NBR Nylon C 40 AISI 302



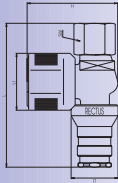
60% of actual size

Chart



Coupling with Valve

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
M 14 x 1,5	17	73	22	28		43			Standard Design	SSV21 AM14



Male Thread

Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
6 mm DIN		49,5	10	33,5					Standard Design	21SF TD06 MXX
8 mm		36	9	21,5					Standard Design	21SF TZ08 MXX



Hose Barb

Nominal Diameter **5,5 = 25 mm²**

14 KE series

Technical Description
The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug into the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system, before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve

back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

Advantages

The system fulfils the requirements of ISO 4414.

- Increased safety standards in the work place
- the plastic sleeve does not scratch working surfaces

Applications
For compressed air applications, industrial equipment, garage equipment, assembly line.

Caution
Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUS plugs made of steel.

Working Pressure
PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature

-20°C up to +60°C (Buna N) depending on the medium.

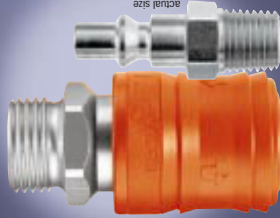
Standard Version

Material	Steel
Coupling	Back Body Valve Body Sleeve Valve Spring Locking Balls Seals PinS
	Brass, Nickel Plated Brass, Nickel Plated Thermoplastic Brass AISI 301 AISI 420 Buna N AISI 420

Steel Hardened, Nickel Plated

Plug

Chart



actual size

Couplings

Connection A	Hex SW	L	D	L1	L2	B	G	Version	Part Number
R 1/4	22	58	31	9				Standard Design	14KE AK13 MPN
R 3/8	22	58	31	9				Standard Design	14KE AK17 MPN
R 1/2	24	63	31	12				Standard Design	14KE AK21 MPN
G 1/4	22		31	9				Standard Design	14KE IW13 MPN
G 3/8	22		31	9				Standard Design	14KE IW17 MPN
G 1/2	24		31	12				Standard Design	14KE IW21 MPN
6 mm	22		31	25				Standard Design	14KE TF06 MPN
8 mm	22		31	25				Standard Design	14KE TF08 MPN
9 mm	22		31	25				Standard Design	14KE TF09 MPN
10 mm	22		31	25				Standard Design	14KE TF10 MPN
13 mm	22		31	25				Standard Design	14KE TF13 MPN



Male Thread



Female Thread



Hose Barb

Plugs

 Male Thread	Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	R 1/8	12	35		9					Standard Design	22SF AK10 SXN
	R 1/4	14	41		12					Standard Design	22SF AK13 SXN
	R 3/8	17	41		12					Standard Design	22SF AK17 SXN
	R 1/2	22	46		17					Standard Design	22SF AK21 SXN
 Female Thread	G 1/4	17	35		9					Standard Design	22SF IW13 SXN
	G 3/8	19	35		10					Standard Design	22SF IW17 SXN
	G 1/2	24	38		12					Standard Design	22SF IW21 SXN

Valved Plugs

 Hose Barb	Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	6 mm		49	12	25					Standard Design	22SF TF06 SXN
	8 mm		49	12	25					Standard Design	22SF TF08 SXN
	9 mm		49	12	25					Standard Design	22SF TF09 SXN
	10 mm		49	12	25					Standard Design	22SF TF10 SXN
	13 mm		49	12	25					Standard Design	22SF TF13 SXN

First vent and then release – with one hand. The automatic safety system of a RECTUS self venting coupling significantly improves protection for staff and for the surrounding area.



Nominal Diameter **5,5 = 25 mm²**
18 KE series

Technical Description
The 18 KE series is a safety coupling with a self venting system. When the sleeve is pulled back the plug is released, however, it still remains locked to the coupling. The coupling's valve closes while the downstream air supply line is vented simultaneously. Afterward it can be disconnected without any danger by pulling the sleeve back a second time to completely release the plug from the coupling.

Advantages
Connected in the same manner as all standard couplings – single handed operation. The venting process takes place without any danger to the operators during the disconnecting process – no danger of being hit by a whipping hose that is still pressurized. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place.

Applications
Compressed air applications, industrial equipment, garage equipment, assembly line.

Caution
Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUS plugs made of steel.

Working Pressure
PB = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature
-20 °C up to +60 °C (Buna N) depending on the medium.

Standard Version

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Pins

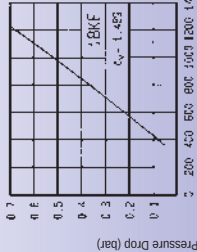
Brass, Nickel Plated
Steel, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N
AISI 420

Plug

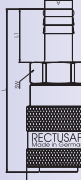
Steel Hardened, Nickel Plated

Chart

Air



Couplings

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	R 1/4	24	67	30	12				Standard Design	18KE AK13 SPN
	R 3/8	24	67	30	12				Standard Design	18KE AK17 SPN
	R 1/2	24	72	30	17				Standard Design	18KE AK21 SPN
 Female Thread	G 1/4	24	63	30	10				Standard Design	18KE IW13 SPN
	G 3/8	24	60	30	9				Standard Design	18KE IW17 SPN
	G 1/2	24	65	30	12				Standard Design	18KE IW21 SPN
 Hose Barb	6 mm	24	81	30	25				Standard Design	18KE TF06 SPN
	8 mm	24	81	30	25				Standard Design	18KE TF08 SPN
	9 mm	24	81	30	25				Standard Design	18KE TF09 SPN
	10 mm	24	81	30	25				Standard Design	18KE TF10 SPN
	13 mm	24	81	30	25				Standard Design	18KE TF13 SPN

Plugs

Connection A		Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	G 1/4	17	41		9					Standard Design	18SF AW13 SXN
	G 3/8	19	41		9					Standard Design	18SF AW17 SXN
	G 1/4	17	43		9					Standard Design	18SF IW13 SXN
	G 3/8	19	44		9					Standard Design	18SF IW17 SXN

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	6 mm	56	12	25					Standard Design	18SF TF06 SXN
	8 mm	56	12	25					Standard Design	18SF TF08 SXN
	9 mm	56	12	25					Standard Design	18SF TF09 SXN
	10 mm	56	12	25					Standard Design	18SF TF10 SXN
	13 mm	56	12	25					Standard Design	18SF TF13 SXN

When high safety standards are required, RECTUS quality is the ideal solution. Our products are manufactured in the most modern production facilities and are subjected to exhaustive functional tests. They provide you with top performance – made in Germany.



Nominal Diameter **5,5 = 25 mm²**
22 KE series

Technical Description
The 22 KE series is a safety coupling with a self venting system. When the sleeve is pulled back the plug is released, however, it still remains locked to the coupler. The coupling's valve closes while the downstream air supply line is vented simultaneously. Afterward it can be disconnected without any danger by pulling the sleeve back a second time to completely release the plug from the coupling.

Advantages
Connected in the same manner as all standard couplings – single handed operation. Self-venting process takes place without any danger to the operators during the disconnecting process – no danger of being hit by a whipping hose that is still pressurized. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place.

Applications
Compressed air applications, industrial equipment, garage equipment, assembly line.

Caution
Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUS plugs made of steel.

Working Pressure
PB = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature
-20 °C up to +60 °C (Buna N) depending on the medium.

Standard Version

Material

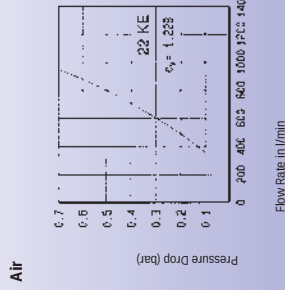
Coupling

Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Pins

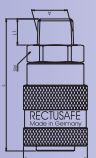
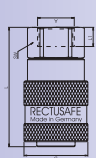
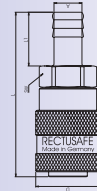
Plug

Steel Hardened, Nickel Plated

Chart



Couplings

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	R 1/4	24	64	30	12				Standard Design	22KE AK13 SPN
	R 3/8	24	64	30	12				Standard Design	22KE AK17 SPN
	R 1/2	24	68	30	17				Standard Design	22KE AK21 SPN
	G 1/4	24	60	30	10				Standard Design	22KE IW13 SPN
	G 3/8	24	57	30	9				Standard Design	22KE IW17 SPN
	G 1/2	24	62	30	12				Standard Design	22KE IW21 SPN
	6 mm	24	78	30	25				Standard Design	22KE TF06 SPN
	8 mm	24	78	30	25				Standard Design	22KE TF08 SPN
	9 mm	24	78	30	25				Standard Design	22KE TF09 SPN
	10 mm	24	78	30	25				Standard Design	22KE TF10 SPN
13 mm	24	78	30	25					Standard Design	22KE TF13 SPN

Plugs

Connection A		Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	R 1/8	12	35		9					Standard Design	22SF AK10 SXN
	R 1/4	14	41		12					Standard Design	22SF AK13 SXN
	R 3/8	17	41		12					Standard Design	22SF AK17 SXN
	R 1/2	22	46		17					Standard Design	22SF AK21 SXN
 Female Thread	G 1/4	17	35		9					Standard Design	22SF IW13 SXN
	G 3/8	19	35		10					Standard Design	22SF IW17 SXN
	G 1/2	24	38		12					Standard Design	22SF IW21 SXN

Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Hose Barb	6 mm	49	12	25					Standard Design	22SF TF06 SXN
	8 mm	49	12	25					Standard Design	22SF TF08 SXN
	9 mm	49	12	25					Standard Design	22SF TF09 SXN
	10 mm	49	12	25					Standard Design	22SF TF10 SXN
	13 mm	49	12	25					Standard Design	22SF TF13 SXN

No more hemp or teflon tape sealing methods! We can coat tapered threads on request with Rectuloc, or supply parallel threads with Rectuloc seals. This innovative sealing system is absolutely reliable – with all mediums! It offers considerable savings in assembly time and offers significantly more safety. Ask for RECTUS quick connect couplings with Rectuloc sealing technology...



Nominal Diameter

5,5 = 25 mm²

23 KE series



Technical Description
The 23 KE series is a safety coupling with a self venting system. When the sleeve is pulled back the plug is released, however, it still remains locked to the coupling. The coupling's valve closes while the downstream air supply line is vented simultaneously. Afterward it can be disconnected without any danger by pulling the sleeve back a second time to completely release the plug from the coupling.

Advantages
Coupled in the same manner as all standard couplings – single handed operation. Self-venting process takes place without any danger to the operators during the disconnecting process – no danger or being hit by a whipping hose that is still pressurized. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place.

Applications
Compressed air applications, industrial equipment, garage equipment, assembly line.

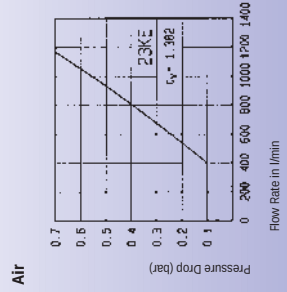
Caution
Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUS plugs made of steel.

Working Pressure
PB = 8 bar, maximum static working pressure with safety factor of 4 to 1.

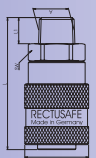
Working Temperature
-20 °C up to +60 °C (Buna N) depending on the medium.

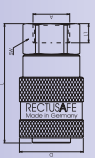
- Material**
- Coupling**
- Back Body
 - Valve Body
 - Sleeve
 - Valve
 - Spring and Locking Ring
 - Locking Balls
 - Seals
 - Pins
- Plug**
- Steel Hardened, Nickel Plated
- Standard Version**
- Brass, Nickel Plated
 - Steel, Nickel Plated
 - Brass, Nickel Plated
 - Brass
 - AISI 301
 - AISI 420
 - Buna N
 - AISI 420

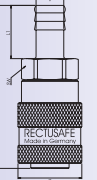
Chart



Couplings

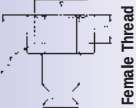

Male Thread


Female Thread


Hose Barb

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
R 1/4	24	65	30	12					Standard Design	23KE AK19 SPN
	24	65	30	12					Standard Design	23KE AK17 SPN
	24	69	30	17					Standard Design	23KE AK21 SPN
G 1/4	24	61	30	10					Standard Design	23KE IW13 SPN
	24	58	30	9					Standard Design	23KE IW17 SPN
	24	63	30	10					Standard Design	23KE IW21 SPN
6 mm	24	79	30	25					Standard Design	23KE TF06 SPN
	24	79	30	25					Standard Design	23KE TF08 SPN
	24	79	30	25					Standard Design	23KE TF09 SPN
	24	79	30	25					Standard Design	23KE TF10 SPN
	24	79	30	25					Standard Design	23KE TF13 SPN

Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	R 1/8	13	39	9					Standard Design	23SF AK10 SXN
	R 1/4	14	42	12					Standard Design	23SF AK13 SXN
	R 3/8	17	42	12					Standard Design	23SF AK17 SXN
	R 1/2	22	48	17					Standard Design	23SF AK21 SXN
	G 1/8	14	36	9					Standard Design	23SF IW10 SXN
	G 1/4	17	36	9					Standard Design	23SF IW13 SXN
	G 3/8	19	36	9					Standard Design	23SF IW17 SXN
	G 1/2	24	39	12					Standard Design	23SF IW21 SXN

Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	6 mm	51	14	25					Standard Design	23SF TF08 SXN
	8 mm	51	14	25					Standard Design	23SF TF08 SXN
	9 mm	51	14	25					Standard Design	23SF TF09 SXN
	10 mm	51	14	25					Standard Design	23SF TF10 SXN
	13 mm	51	14	25					Standard Design	23SF TF13 SXN

The 24 KE series. The new self-venting coupling with the high-tech plastic sleeve protects sensitive working surfaces from scratches and other damage better than straight metal couplings.

NEW!

Improved accident prevention through patented single hand operated system

Longer service life through sturdy quality of workmanship

Optimum surface protection through sleeve design in soft plastic



RECTUS®

Nominal Diameter 5,5 = 25 mm² 24 KE series



Technical Description
The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug into the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system, before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve

back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

Advantages

- The system fulfils the requirements of ISO 4414.
- Increased safety standards in the work place
- The plastic sleeve does not scratch working surfaces

Material

Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Balls
Plus
Seals
Locking Balls

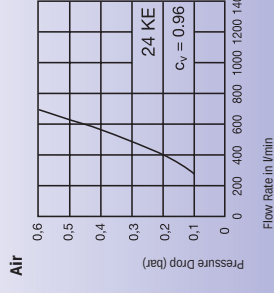
Standard Version

Brass, Nickel Plated
Brass, Nickel Plated
Thermoplastic
Brass
AISI 301
AISI 420
Buna N
AISI 420

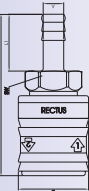
Plug

Steel Hardened, Nickel Plated

Chart



Couplings

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
	R 1/4	22	58	31	9				Standard Design	24KE AK13 MPN
	R 3/8	22	58	31	9				Standard Design	24KE AK17 MPN
	R 1/2	24	63	31	12				Standard Design	24KE AK21 MPN
	G 1/4	22	57	31	9				Standard Design	24KE IW13 MPN
	G 3/8	22	57	31	9				Standard Design	24KE IW17 MPN
	G 1/2	24	60	31	12				Standard Design	24KE IW21 MPN
	6 mm	22	71	31	25				Standard Design	24KE TF08 MPN
	8 mm	22	71	31	25				Standard Design	24KE TF08 MPN
	9 mm	22	71	31	25				Standard Design	24KE TF09 MPN
	10 mm	22	71	31	25				Standard Design	24KE TF10 MPN
13 mm	22	71	31	25					Standard Design	24KE TF13 MPN

Plugs

Connection A		Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	R 1/8	13	39		9					Standard Design	23SF AK10 SXN
	R 1/4	14	42		12					Standard Design	23SF AK13 SXN
	R 3/8	17	42		12					Standard Design	23SF AK17 SXN
	R 1/2	22	48		17					Standard Design	23SF AK21 SXN
 Female Thread	G 1/8	14	36		9					Standard Design	23SF IW10 SXN
	G 1/4	17	36		9					Standard Design	23SF IW13 SXN
	G 3/8	19	36		9					Standard Design	23SF IW17 SXN
	G 1/2	24	39		12					Standard Design	23SF IW21 SXN

Plugs

Connection A		Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Hose Barb	6 mm		51	14	25					Standard Design	23SF TF06 SXN
	8 mm		51	14	25					Standard Design	23SF TF08 SXN
	9 mm		51	14	25					Standard Design	23SF TF09 SXN
	10 mm		51	14	25					Standard Design	23SF TF10 SXN
	13 mm		51	14	25					Standard Design	23SF TF13 SXN

One system. Twice as safe.

The new RECTUS 26KE single-handed self-venting coupling.

1

Improved industrial safety through patented single hand operated self-venting technology with a two step locking system.



2

Softforming instead of metal: the new high-tech plastic sleeve is lighter and prevents the scratching of surfaces.



Nominal Diameter **7,4 = 43 mm²**
26 KE series



Technical Description
The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug into the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve

back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

Advantages
The system fulfils the requirements of ISO 4414.
- increased safety standards in the work place
- the plastic sleeve does not scratch working surfaces

Applications
Compressed air, industrial equipment, garage equipment, assembly line.

Caution
Not recommended for direct reconnection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUS plugs made of steel.

Working Pressure
PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20° C up to +60° C (Buna N) depending on the medium.

* At a temperature below -20° C and above +150° C special seals are available on request

Standard Version

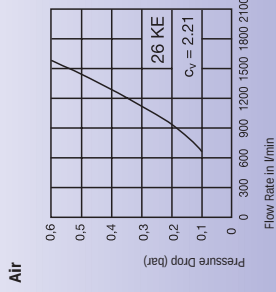
Material
Coupling
Back Body
Valve Body
Sleeve
Valve
Spring
Locking Balls
Seals
Pins

Brass, Nickel Plated
Brass, Nickel Plated
Thermoplastic
Brass
AISI 301
AISI 420
Buna N
AISI 420

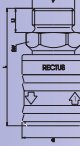
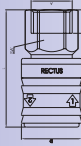
Plug

Steel Hardened, Nickel Plated

Chart



Couplings

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	G 1/4	22	55	31	9				Standard Design	26KE AW13 MPN
	G 3/8	22	55	31	9				Standard Design	26KE AW17 MPN
	G 1/2	24	58	31	12				Standard Design	26KE AW21 MPN
 Female Thread	G 1/4	22	57	31	9				Standard Design	26KE IW13 MPN
	G 3/8	22	57	31	9				Standard Design	26KE IW17 MPN
	G 1/2	24	60	31	12				Standard Design	26KE IW21 MPN
 Hose Barb	6 mm	22	71	31	25				Standard Design	26KE TF06 MPN
	8 mm	22	71	31	25				Standard Design	26KE TF08 MPN
	9 mm	22	71	31	25				Standard Design	26KE TF09 MPN
	10 mm	22	71	31	25				Standard Design	26KE TF10 MPN
13 mm	22	71	31	25					Standard Design	26KE TF13 MPN

Plugs

Connection A		Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	R 1/8	13	33		9					Standard Design	25SE AK10 SYN
	R 1/4	14	37		12					Standard Design	25SE AK13 SYN
	R 3/8	17	37		12					Standard Design	25SE AK17 SYN
	R 1/2	22	43		17					Standard Design	25SE AK21 SYN
 Female Thread	G 1/8	14	30		7					Standard Design	25SE IW10 SYN
	G 1/4	17	33		9					Standard Design	25SE IW13 SYN
	G 3/8	19	33		9					Standard Design	25SE IW17 SYN
	G 1/2	24	36		12					Standard Design	25SE IW21 SYN

Plugs

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Hose Barb	6 mm		48	12	25				Standard Design	25SE TF06 SYN
	8 mm		48	12	25				Standard Design	25SE TF08 SYN
	9 mm		48	12	25				Standard Design	25SE TF09 SYN
	10 mm		48	12	25				Standard Design	25SE TF10 SYN
	13 mm		48	12	25				Standard Design	25SE TF13 SYN



ONLINE?
www.rectus.de

Use the Internet to find out
about exhibition dates,
new products and many
interesting subjects
related to quick connect
couplings. Our site is
worth a visit!

Nominal Diameter
7,4 = 43 mm²
95 KS series



Technical Description
The 95 KS coupling system has a safety lock. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked. This prevents unintentional disconnection.

Advantages
Disconnecting the safety coupling is only possible after the plug has first been pushed further into the coupling. Cannot be interconnected with the 95 KS series. Single handed operation with a multitude of connecting possibilities. High flow rates due to the ULTRA-FLO valve.

Applications
Breathing air, ring circuit system, lifting bas, weld and cut engineering, diving equipment.

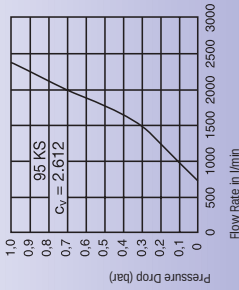
Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Chart

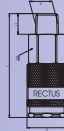
Air



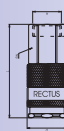
Material	Standard Version	Additional Version
Coupling		AISI 303 / Brass
Back Body	Brass, Nickel Plated	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated	AISI 303
Sleeve	Brass, Nickel Plated	Brass, Nickel Plated
Valve	Zinc Die-Casting, Nickel Plated	Zinc Die-Casting, Nickel Plated
Spring and Locking Ring	AISI 301	AISI 301
Locking Balls	AISI 420	AISI 420
Seals	Buna N	Buna N
Distance Sleeve	Brass	AISI 303
Spring Plate	Brass	Brass

Plug
Brass, Nickel Plated

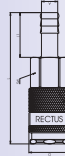
Couplings



Male Thread



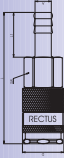
Female Thread



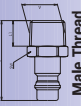
Hose Barb

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	61	23	12					Standard Design	95KS AK13 BPN
									AISI 303/Brass	95KS AK13 RPN
									Standard Design	95KS AK17 BPN
									AISI 303/Brass	95KS AK17 RPN
R 3/8	19	60	23	12					Standard Design	95KS AK21 BPN
									AISI 303/Brass	95KS AK21 RPN
									Standard Design	95KS AK21 BPN
									AISI 303/Brass	95KS AK21 RPN
R 1/2	22	61	23	17					Standard Design	95KS AK21 BPN
									AISI 303/Brass	95KS AK21 RPN
									Standard Design	95KS AK21 BPN
									AISI 303/Brass	95KS AK21 RPN
G 1/4	19	56	23	10					Standard Design	95KS IW13 BPN
									AISI 303/Brass	95KS IW13 RPN
									Standard Design	95KS IW17 BPN
									AISI 303/Brass	95KS IW17 RPN
G 3/8	19	55	23	9					Standard Design	95KS IW21 BPN
									AISI 303/Brass	95KS IW21 RPN
									Standard Design	95KS IW21 BPN
									AISI 303/Brass	95KS IW21 RPN
G 1/2	24	58	23	12					Standard Design	95KS TF06 BPN
									AISI 303/Brass	95KS TF06 RPN
									Standard Design	95KS TF07 BPN
									AISI 303/Brass	95KS TF07 RPN
6 mm	19	74	23	25					Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN
									Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN
7 mm	20	77	23	22					Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN
									Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN
8 mm	19	74	23	25					Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN
									Standard Design	95KS TF08 BPN
									AISI 303/Brass	95KS TF08 RPN

Couplings

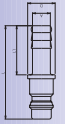
 Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex SW1	B	G	Version	Part Number
	9 mm		19	74	23	25					Standard Design	96KS TF09 BPN
	10 mm		19	74	23	25					ANSI 303/Brass	96KS TF09 BPN
	13 mm		19	74	23	25					Standard Design	96KS TF10 BPN

Plugs

 Male Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/4		14	38,5		12					Standard Design	95SS AK13 MXN
	R 3/8		17	38,5		12					Standard Design	95SS AK17 MXN
	G 1/4		17	33		9					Standard Design	95SS IW13 MXN

 Female Thread	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	G 3/8		19	33		9					Standard Design	95SS IW17 MXN

Plugs

 Hose Barb	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm			47,5	14	25					Standard Design	95SS TF06 MXN
	9 mm			47,5	14	25					Standard Design	95SS TF09 MXN

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	10 mm			47,5	14	25					Standard Design	95SS TF10 MXN

Nominal Diameter
7,4 = 43 mm²

96 KS series

Technical Description

The 96 KS coupling system has a safety lock. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked. This prevents unintentional disconnection.

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Advantages

Disconnecting the safety coupling is only possible after the plug has first been pushed further into the coupling. Has a multitude of connecting possibilities. High flow rates due to the ULTRA-FLO valve.

Applications

Breathing air ring circuit system, lifting bas, weld and cut engineering, diving equipment.

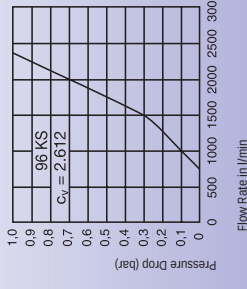
Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.

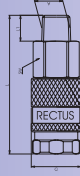
* At a temperature below -20°C and above +150°C special seals are available on request.

Chart

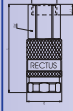
Air



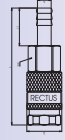
Couplings



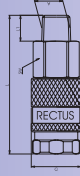
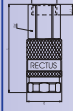
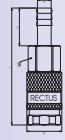
Male Thread



Female Thread



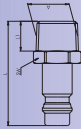
Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	R 1/4	19	65	23	12					Standard Design	96KS AK13 BPN
	R 3/8	19	64	23	12					Standard Design	96KS AK17 BPN
	G 3/8	19	62	23	9					ANSI 303	96KS AW17 RVX
	R 1/2	22	66	23	17					Standard Design	96KS AK21 BPN
 Female Thread	G 1/4	19	60	23	10					Standard Design	96KS IW13 BPN
	G 3/8	19	59	23	9					Standard Design	96KS IW17 BPN
 Hose Barb	6 mm	19	78	23	25					Standard Design	96KS TF06 BPN
	7 mm	20	77	23	22					Standard Design	96KS TF07 BPN
	9 mm	19	78	23	25					Standard Design	96KS TF09 BPN
	10 mm	19	78	23	25					Standard Design	96KS TF10 BPN
	13 mm	19	78	23	25					Standard Design	96KS TF13 BPN

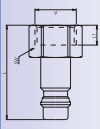
Only RECTUS has quick connect couplings with the UltraFlo valve. The favorable flow characteristics of this design increase the flow performance and thus the efficiency of various systems by about 80%!



Plugs



Male Thread

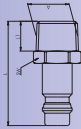
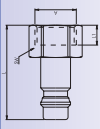


Female Thread

Plugs



Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/4	14	42		12					Standard Design	96SS AK13 MXN
	R 3/8	17	42		12					Standard Design	96SS AK17 MXN
	G 3/8	19	38		9				ALSI 303		96SS AW17 RXN
	G 1/4	17	38		10					Standard Design	96SS IW13 MXN
	G 3/8	19	38		10					Standard Design	96SS IW17 MXN

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm		51	12	25					Standard Design	96SS TF06 MXN
	9 mm		51	12	25					Standard Design	96SS TF09 MXN
	13 mm		53	15	25					Standard Design	96SS TF13 MXN

Nominal Diameter **7,8** = 48 mm²
25 KS series



Technical Description
The 25 KS coupling is based on the technology used in the 25 KA industrial coupling, however, it also uses an additional safety locking system. To disconnect, the plug must first be pushed further into the coupling before it can be unlocked. The safety lock prevents unintentional disconnection.

connecting possibilities. High flow rates due to the ULTRA-FLO valve.
Applications
Breathing air, ring circuit system, lifting bas, weld and cut engineering, diving equipment.
Working Pressure
PB = 35 bar (Brass).
PB = 70 bar (with steel body and steel seal), maximum static working pressure with safety factor of 4 to 1.

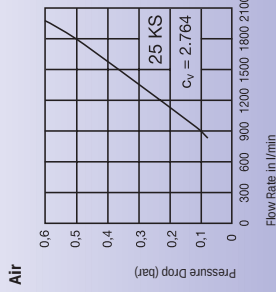
Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®) depending on the medium.
* At a temperature below -20°C and above +150°C special seals are available on request.

Advantages
Quality coupling with small dimensions. Safety locking system, disconnection is only possible after the plug is pushed in. Has a multitude of

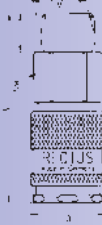
Material
Standard Version
Back Body: Brass
Valve Body: Steel, Nickel Plated
Sleeve: Steel Hardened, Nickel Plated
Valve: Brass
Spring and Locking Ring: AISI 301
Locking Balls: AISI 420
Seals: Buna N
Distance Sleeve: Brass
Spring Plate: Brass
Plug: Steel Hardened, Nickel Plated

Additional Versions
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N
Brass
Brass
Brass, Nickel Plated

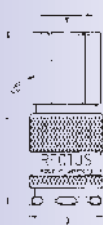
Chart



Couplings



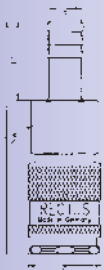
Male Thread



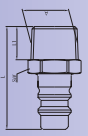
Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	19	60	23	12					Standard Design	25KS AK13 SPN
									Brass	25KS AK13 BPX
R 3/8	19	60	23	12					Brass, Nickel Plated	25KS AK13 BPN
									Standard Design	25KS AK17 SPN
R 1/2	22	61	23	17					Brass	25KS AK17 BPX
									Brass, Nickel Plated	25KS AK17 BPN
G 1/4	19	56	23	10					Standard Design	25KS AK21 SPN
									Brass	25KS AK21 BPX
G 3/8	19	55	23	9					Brass, Nickel Plated	25KS AK21 BPN
									Standard Design	25KS IW13 SPN
G 1/2	24	58	23	12					Brass	25KS IW13 BPX
									Brass, Nickel Plated	25KS IW17 SPN
									Standard Design	25KS IW17 BPN
									Brass	25KS IW21 SPN
									Brass, Nickel Plated	25KS IW21 BPX

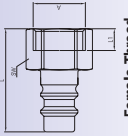
Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm	19	74	23	25					Standard Design	25KS TF06 SPN
										Brass	25KS TF06 BPX
										Brass, Nickel Plated	25KS TF06 BPN
										Standard Design	25KS TF08 SPN
	8 mm	19	74	23	25					Brass	25KS TF08 BPX
										Brass, Nickel Plated	25KS TF08 BPN
	9 mm	19	74	23	25					Standard Design	25KS TF09 SPN
										Brass	25KS TF09 BPX
	10 mm									Brass, Nickel Plated	25KS TF09 BPN
		19	74	23	25					Standard Design	25KS TF10 SPN
										Brass	25KS TF10 BPX
										Brass, Nickel Plated	25KS TF10 BPN
	13 mm	19	74	23	25					Standard Design	25KS TF13 SPN
										Brass	25KS TF13 BPX
										Brass, Nickel Plated	25KS TF13 BPN

Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/8	13	33		9					Standard Design	25SS AK10 SYN
	R 1/4	14	37		12					Standard Design	25SS AK13 SYN
	G 1/4	17	33		9					Brass	25SS AW13 MXX
	G 1/4	17	33		9					Brass, Nickel Plated	25SS AW13 MXN
										Standard Design	25SS AK17 SYN
	R 3/8	17	37		12						
	R 1/2	22	43		17					Standard Design	25SS AK21 SYN
	G 1/2	24	38		12					Brass, Nickel Plated	25SS AW21 MXN
										Standard Design	25SS IW13 SYN
		17	33		9						
	G 3/8	19	33		9					Standard Design	25SS IW17 SYN
	G 1/2	24	36		12					Standard Design	25SS IW21 SYN

Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm		48	12	25					Standard Design	25SS TF06 SYN
	8 mm		48	12	25					Standard Design	25SS TF08 SYN
	9 mm		48	12	25					Brass, Nickel Plated	25SS TF08 MXN
										Standard Design	25SS TF09 SYN
	10 mm		48	12	25					Standard Design	25SS TF10 SYN
										Brass, Nickel Plated	25SS TF10 MXN
	13 mm		48	15	25					Standard Version	25SS TF13 SYN

Nominal Diameter

7,4 = 43 mm²

25 KD series

Technical Description
Both the coupling and the plug are fitted with a valve. Both valves are opened when the connection is made, guaranteeing the immediate flow. The valves close when disconnected which prevents the medium from flowing back. To disconnect, the plug must be first pushed further into the coupling before it can be unlocked and released.

Advantages
Quality coupling with small dimensions, high flow rate with a multitude of connecting possibilities. Non-slip sleeve can also be operated when wearing safety gloves.

Applications
Breathing air, medical engineering, diving equipment.

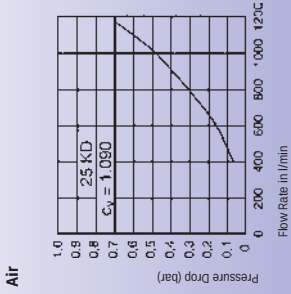
Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +315°C (Kalrez®)
depending on the medium.

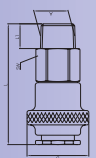
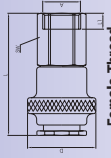
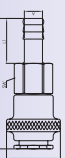
* At a temperature below -20°C and above +150°C special seals are available on request.

Material	Standard Version
Coupling	
Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Brass, Nickel Plated
Valve	Brass
Spring and Locking Ring	AlSi 301
Locking Balls	AlSi 420
Seals	Buna N
Plug	
Plug Profile	Brass, Nickel Plated
Back Body	Brass, Nickel Plated
Valve	Brass
Spring	AlSi 420
Seal	Buna N

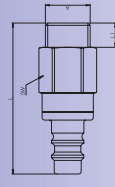
Chart



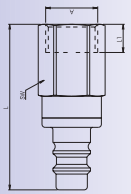
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/4	19	60	30	12				Standard Design	25KO AK13 BPN
	R 3/8	19	60	30	12				Standard Design	25KO AK17 BPN
	R 1/2	22	61	30	17				Standard Design	25KO AK21 BPN
	G 1/4	19	56	30	10				Standard Design	25KO IW13 BPN
	G 3/8	19	55	30	9				Standard Design	25KO IW17 BPN
	G 1/2	24	58	30	12				Standard Design	25KO IW21 BPN
										
	6 mm	19	74	30	25				Standard Design	25KO TF06 BPN
	8 mm	19	74	30	25				Standard Design	25KO TF08 BPN
	9 mm	19	74	30	25				Standard Design	25KO TF09 BPN
	10 mm	19	74	30	25				Standard Design	25KO TF10 BPN
	13 mm	19	74	30	25				Standard Design	25KO TF13 BPN

Plugs

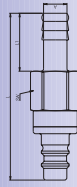


Male Thread



Female Thread

Plugs



Hose Barb

Rectusafe

25 KE



BIA

Norm 2000 003

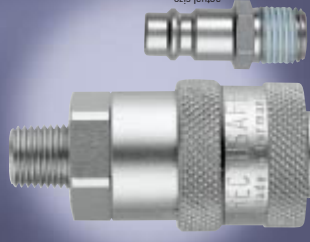
ISO 4414

The 25 KE safety quick connect coupling meets the strict approval criteria of the BIA and the ISO 4414 standard. This innovative system is the ultimate in the compressed air field.

RECTUSAFE®

Nominal Diameter **7,8 = 48 mm²**

Serie 25 KE



Advantages

Connected in the same manner as all standard couplings - single handed operation. The venting process takes place without any danger to the operator's during the disconnecting process - no danger of being hit by a whipping hose that is still pressurized. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place and is BIA certified.

Technical Description

The 25 KE series is a safety coupling with a self venting system. When the sleeve is pushed back the plug is released, however, it still remains locked to the coupling. The coupling valve closes while the downstream air supply line is vented simultaneously. Afterward it can be disconnected without any danger by pushing the sleeve back a second time to completely release the plug from the coupling.

Applications

Compressed air applications, industrial equipment, garage equipment, assembly line.

Caution

Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original RECTUSAFE plugs made of steel.

Working Pressure

PG = 8 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20 °C up to +60 °C (Buna N) depending on the medium.

* At a temperature below -20 °C and above +150 °C special seals are available on request.

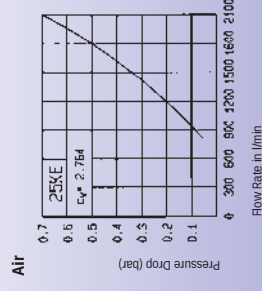
Standard Version

Brass, Nickel Plated
Steel, Nickel Plated
Brass, Nickel Plated
Brass
AISI 301
AISI 420
Buna N
AISI 420

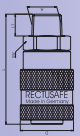
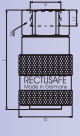
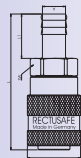
Plugs

Steel Hardened, Nickel Plated

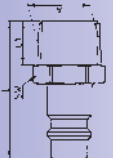
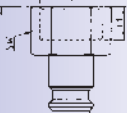
Chart



Couplings

Connection A	Hex SW	L	D	L1	L2	H	B	G	Version	Part Number
 Male Thread	R 1/4	24	62	30	12				Standard Design	25KE AK13 SPN
	R 3/8	24	62	30	12				Standard Design	25KE AK17 SPN
	R 1/2	24	67	30	17				Standard Design	25KE AK21 SPN
 Female Thread	G 1/4	24	59	30	10				Standard Design	25KE IW13 SPN
	G 3/8	24	56	30	9				Standard Design	25KE IW17 SPN
	G 1/2	24	61	30	12				Standard Design	25KE IW21 SPN
 Hose Barb	6 mm	24	77	30	25				Standard Design	25KE TF06 SPN
	8 mm	24	77	30	25				Standard Design	25KE TF08 SPN
	9 mm	24	77	30	25				Standard Design	25KE TF09 SPN
	10 mm	24	77	30	25				Standard Design	25KE TF10 SPN
	13 mm	24	77	30	25				Standard Design	25KE TF13 SPN

Plugs

	Connection A		L	D	L1	L2	H	B	G	Version	Part Number
	Hex SW	Hex									
		R 1/8	13	33	9					Standard Design	25SE AK10 SXN
		R 1/4	14	37	12					Standard Design	25SE AK13 SXN
		R 3/8	17	37	12					Standard Design	25SE AK17 SXN
		R 1/2	22	43	17					Standard Design	25SE AK21 SXN
											
		G 1/8	14	30	7					Standard Design	25SE IW10 SXN
		G 1/4	17	33	9					Standard Design	25SE IW13 SXN
		G 3/8	19	33	9					Standard Design	25SE IW17 SXN
		G 1/2	24	36	12					Standard Design	25SE IW21 SXN

Plugs

	Connection A		L	D	L1	L2	H	B	G	Version	Part Number
	Hex SW	Hex									
		6 mm	48	12	25					Standard Design	25SE TF06 SXN
		8 mm	48	12	25					Standard Design	25SE TF08 SXN
		9 mm	48	12	25					Standard Design	25SE TF09 SXN
		10 mm	48	12	25					Standard Design	25SE TF10 SXN
		13 mm	48	15	25					Standard Design	25SE TF13 SXN

The locking system of a RECTUS KS series safety quick connect coupling. Patented technology for the highest standards.

Safety First

 **RECTUS**

Nominal Diameter **10,5 = 85 mm²**

28 KS series

Technical Description
The 28 KS safety coupling is a larger version of the 25 KS series. The plug must be pushed further into the coupling before it can be disconnected, which prevents unintentional disconnection. The plug profile conforms with the CETOP RP 59 P-15 standard.

Advantages
High quality coupling made of steel. Safety locking system; disconnection is only possible after the plug is pushed in. Single handed operation with a multitude of connecting possibilities. High flow rate due to the ULTRA-FLO valve.

Applications
Compressed air applications; filling station, breathing air (fit for limited use with liquids).

Standard Version

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals

Plug

Brass, Nickel Plated
Steel, Nickel Plated
Steel Hardened, Nickel Plated
Brass
AISI 301
AISI 420
Buna N
Steel Hardened, Nickel Plated

Working Pressure

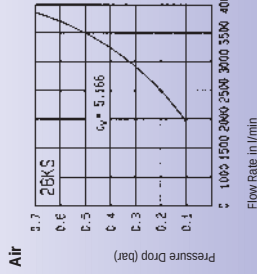
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

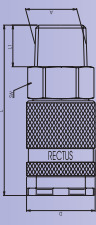
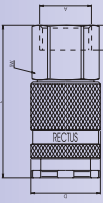
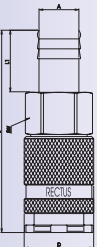
-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

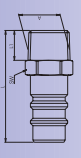
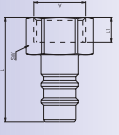
Chart



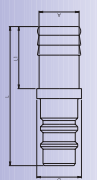
Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 3/8	24	67,5	28	12					Standard Design	28KS AK17 SPN
	R 1/2	24	69,5	28	17					Standard Design	28KS AK21 SPN
	R 3/4	27	69,5	28	17					Standard Design	28KS AK26 SPN
	G 3/8	24	61,5	28	12					Standard Design	28KS IW17 SPN
	G 1/2	24	61,5	28	12					Standard Design	28KS IW21 SPN
	G 3/4	32	65,5	28	16					Standard Design	28KS IW26 SPN
	13 mm	24	81,5	28	25					Standard Design	28KS TF13 SPN
	16 mm	24	81,5	28	25					Standard Design	28KS TF16 SPN
	19 mm	24	81,5	28	25					Standard Design	28KS TF19 SPN

Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Male Thread	R 3/8	17	45		12					Standard Design	28SS AK17 SXN
	R 1/2	22	50		17					Standard Design	28SS AK21 SXN
	R 3/4	27	51		17					Standard Design	28SS AK26 SXN
 Female Thread	G 3/8	19	39		9					Standard Design	28SS IW17 SXN
	G 1/2	24	42		12					Standard Design	28SS IW21 SXN
	G 3/4	32	47		16					Standard Design	28SS IW26 SXN

Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
 Hose Barb	10 mm		54	15	25					Standard Design	28SS TFL0 SXN
	13 mm		54	15	25					Standard Design	28SS TFL3 SXN
	16 mm		56	18	25					Standard Design	28SS TFL6 SXN
	19 mm		56	21	25					Standard Design	28SS TFL9 SXN

Welcome to the world of RECTUS[®]



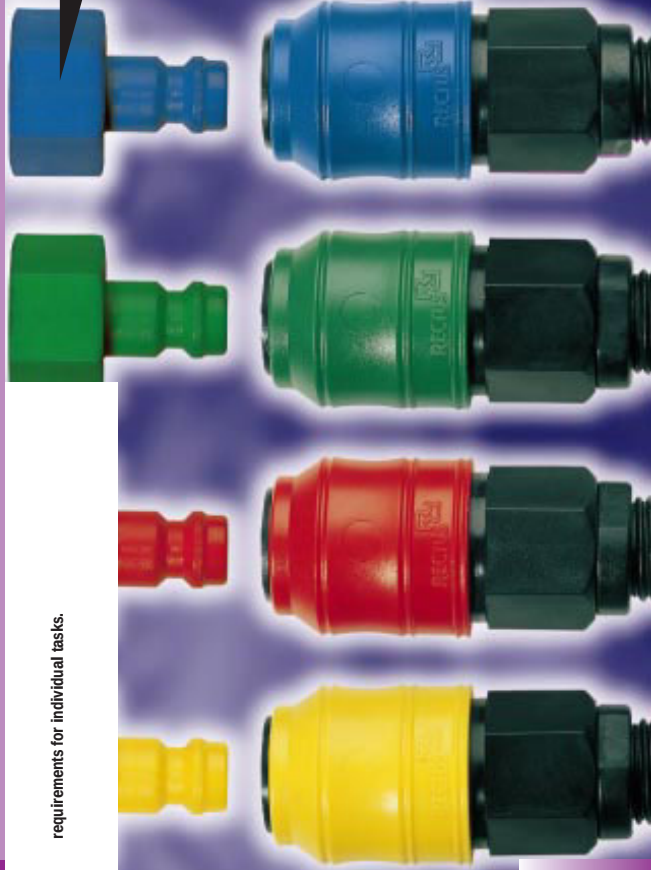
The RECTUS range of quick connect couplings made of thermoplastics is a lot more than just a useful supplement to the series produced in steel or stainless steel. In many industries, the demand for lighter materials that optimally meet physical and technical requirements has increased. RECTUS' customers in these industries have benefited from 50 years of experience in the development and production of high quality coupling systems. This provides you with ideal solutions for the majority of your application needs by using proven systems from the RECTUS product line. Our innovative engineers accept any challenge when it comes to special

Thermoplastic couplings

requirements for individual tasks.

21 and 48 series

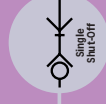
To prevent making wrong connections, RECTUS offers color-coded plastic couplings and plugs.



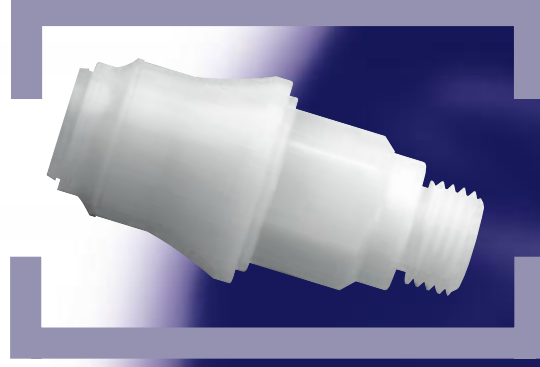
These small thermoplastic couplings with straight, cylindrical sleeves are ideally suited for installation in spots that are difficult to access and are very easy to handle.



Applications:
Automobile industry
Shipbuilding industry
Pharmaceutical technology
Machinery construction
Water preparation
Rail car industry
Chemical industry
Electroplating plant
Medical technology
Printing machinery



▼ The thermoplastic coupling with a conical sleeve is perfectly tailored to meet clean room requirements. It is no problem to handle the couplings when wearing protective gloves because of their practical ergonomic design.



The well proven, quick connect coupling system made of thermoplastic polymer is distinguished by unequalled 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.

RectuPom



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

RectuChem



RectuChem+

This quick connect coupling system completely made of solid plastic is extremely resistant to all organic and mineral mediums. 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 mediums that must not be contaminated by metal radicals.

This chart is intended as a guide only and is not to be considered as a recommendation to use RECTUS couplings in a specific application or with specific fluid. For more information please ask the RECTUS experts.

Resistance to chemicals / RectuChem (PVDF)

● = recommended

▲ = restricted usage

■ = not recommended

Chemicals	Temperature					Temperature				
	20° C	50° C	70° C	100° C	120° C	20° C	50° C	70° C	100° C	120° C
Acetaldehyde	■	■	■	■	■	●	●	●	●	●
Acetanhydride	■	■	■	■	■	●	●	●	●	●
Acetic acid (50%)	●	●	●	●	●	●	●	●	●	●
Acetic acid (80%)	●	●	●	●	●	●	●	●	●	●
Acetic acid (100%)	●	●	▲	■	■	●	●	●	●	●
Acetone	●	●	●	●	●	●	●	●	●	●
Acetone (50% water)	▲	▲	▲	▲	▲	●	●	●	●	●
Acetone nitrile	●	●	●	●	●	●	●	●	●	●
Acetophenone	■	■	■	■	■	●	●	●	●	●
Acetyl acetone	■	■	■	■	■	●	●	●	●	●
Acetyl chloride	■	■	■	■	■	●	●	●	●	●
Acryl nitrile	●	●	●	●	●	●	●	●	●	●
Adipic acid, diluted	●	●	●	●	●	●	●	●	●	●
Allyl chloride	●	●	●	●	●	●	●	●	●	●
Aluminium chloride	●	●	●	●	●	●	●	●	●	●
Aluminium chloride (50%)	●	●	●	●	●	●	●	●	●	●
Aluminium fluoride	●	●	●	●	●	●	●	●	●	●
Aluminium fluoride (50%)	●	●	●	●	●	●	●	●	●	●
Aluminium hydroxide	●	●	●	●	●	●	●	●	●	●
Aluminium nitrate	●	●	●	●	●	●	●	●	●	●
Aluminium nitrate (50%)	●	●	●	●	●	●	●	●	●	●
Aluminium potassium sulphate	●	●	●	●	●	●	●	●	●	●
Aluminium sulphate	●	●	●	●	●	●	●	●	●	●
Ammonia (30%)	●	●	●	●	●	●	●	●	●	●
Ammonia, anhydrous	●	●	●	●	●	●	●	●	●	●
Ammonium aluminium sulphate	●	●	●	●	●	●	●	●	●	●
Ammonium carbonate	●	●	●	●	●	●	●	●	●	●
Ammonium chloride	●	●	●	●	●	●	●	●	●	●
Ammonium fluoride	●	●	●	●	●	●	●	●	●	●
Ammonium hydroxide	●	●	●	●	●	●	●	●	●	●
Ammonium nitrate	●	●	●	●	●	●	●	●	●	●
Ammonium phosphate	●	●	●	●	●	●	●	●	●	●
Ammonium sulphate	●	●	●	●	●	●	●	●	●	●
Ammonium sulphide	●	●	●	●	●	●	●	●	●	●
Amyl acetate	●	●	●	●	●	●	●	●	●	●
Amyl alcohol	●	●	●	●	●	●	●	●	●	●
Amyl chloride	●	●	●	●	●	●	●	●	●	●
Amyl chloride (50%)	●	●	●	●	●	●	●	●	●	●
Aniline	●	●	●	●	●	●	●	●	●	●
Antimonic chloride	●	●	●	●	●	●	●	●	●	●
Aqua regia	●	●	●	●	●	●	●	●	●	●
Arsenic acid	●	●	●	●	●	●	●	●	●	●
Barium carbonate	●	●	●	●	●	●	●	●	●	●
Barium chloride	●	●	●	●	●	●	●	●	●	●
Barium hydroxide	●	●	●	●	●	●	●	●	●	●
Barium sulphide	●	●	●	●	●	●	●	●	●	●
Benzaldehyde	▲	▲	▲	▲	▲	●	●	●	●	●
Benzene	●	●	●	●	●	●	●	●	●	●
Benzene sulphonic acid	●	●	●	●	●	●	●	●	●	●
Benzoic acid	●	●	●	●	●	●	●	●	●	●
Benzyl methyl ester	●	●	●	●	●	●	●	●	●	●
Benzyl alcohol	●	●	●	●	●	●	●	●	●	●
Benzyl chloride	●	●	●	●	●	●	●	●	●	●
Borax	●	●	●	●	●	●	●	●	●	●
Boric acid	●	●	●	●	●	●	●	●	●	●
Bromic acid	●	●	●	●	●	●	●	●	●	●
Bromine, dry	●	●	●	●	●	●	●	●	●	●
Buadiene	●	●	●	●	●	●	●	●	●	●
n-Butanol	●	●	●	●	●	●	●	●	●	●
sec-Butanol	●	●	●	●	●	●	●	●	●	●
tert-Butanol	●	●	●	●	●	●	●	●	●	●
Butene	●	●	●	●	●	●	●	●	●	●
Butyl acrylate	●	●	●	●	●	●	●	●	●	●
Butyl acetate	●	●	●	●	●	●	●	●	●	●
n-Butyl amine	●	●	●	●	●	●	●	●	●	●
sec-Butyl amine	●	●	●	●	●	●	●	●	●	●
tert-Butyl amine	●	●	●	●	●	●	●	●	●	●
n-Butyl bromide	●	●	●	●	●	●	●	●	●	●
n-Butyl chloride	●	●	●	●	●	●	●	●	●	●
Butyl glycol	●	●	●	●	●	●	●	●	●	●
n-Butyl mercaptane	●	●	●	●	●	●	●	●	●	●
Butyl phenol	●	●	●	●	●	●	●	●	●	●
Butyric acid	●	●	●	●	●	●	●	●	●	●
γ-Butyrol acetone	●	●	●	●	●	●	●	●	●	●
Calcium carbonate	●	●	●	●	●	●	●	●	●	●
Calcium chloride	●	●	●	●	●	●	●	●	●	●
Calcium chloride	●	●	●	●	●	●	●	●	●	●
Calcium disulphate	●	●	●	●	●	●	●	●	●	●
Calcium hydrogen sulphite	●	●	●	●	●	●	●	●	●	●
Calcium hydroxide	●	●	●	●	●	●	●	●	●	●
Calcium hypochlorite	●	●	●	●	●	●	●	●	●	●
Calcium nitrate	●	●	●	●	●	●	●	●	●	●
Calcium sulphate	●	●	●	●	●	●	●	●	●	●
Capric acid	●	●	●	●	●	●	●	●	●	●
Caprylic acid	●	●	●	●	●	●	●	●	●	●
Carbon dioxide, wet	●	●	●	●	●	●	●	●	●	●
Carbon dioxide, anhydrous	●	●	●	●	●	●	●	●	●	●
Carbon disulphide	●	●	●	●	●	●	●	●	●	●
Carbon tetrachloride	●	●	●	●	●	●	●	●	●	●
Caustic soda (10%)	●	●	●	●	●	●	●	●	●	●
Caustic soda (50%)	●	●	●	●	●	●	●	●	●	●
Chloric acid gas	●	●	●	●	●	●	●	●	●	●
Chlorine (5% in CCl ₄)	●	●	●	●	●	●	●	●	●	●
Chlorine dioxide (15%)	●	●	●	●	●	●	●	●	●	●
Chlorine, wet	●	●	●	●	●	●	●	●	●	●
Chlorine, dry	●	●	●	●	●	●	●	●	●	●
(Mono-)chloroacetic acid (50%)	●	●	●	●	●	●	●	●	●	●
(Mono-)chloroacetic acid (100%)	●	●	●	●	●	●	●	●	●	●
Chlorobenzene	●	●	●	●	●	●	●	●	●	●
Chlorodifluoromethane	●	●	●	●	●	●	●	●	●	●
Chloroform	●	●	●	●	●	●	●	●	●	●
Chlorosulfonic acid	●	●	●	●	●	●	●	●	●	●
Chromic acid (5%)	●	●	●	●	●	●	●	●	●	●
Chromyl chloride	●	●	●	●	●	●	●	●	●	●
Citric acid	●	●	●	●	●	●	●	●	●	●
Citric acid (50%)	●	●	●	●	●	●	●	●	●	●
Coconut oil	●	●	●	●	●	●	●	●	●	●

Chemicals	Temperature					Chemicals	Temperature				
	20° C	50° C	70° C	100° C	120° C		20° C	50° C	70° C	100° C	120° C
Coke oven gas	●	●	●	●	●	Gear oil ARAL Montanol GM 220	●	●	●	●	●
Copper chloride	●	●	●	●	●	Gear oil BP Energol H-PC 220	●	●	●	●	●
Copper cyanide	●	●	●	●	●	Gear oil Shell Tellus oil 32	●	●	●	●	●
Copper fluoride	●	●	●	●	●	Gear oil Shell Tonna oil T 220	●	●	●	●	●
Copper nitrate	●	●	●	●	●	Glucose	●	●	●	●	●
Copper sulphate	●	●	●	●	●	Glycerol	●	●	●	●	●
Com al	●	●	●	●	●	1, 2-Glycol	●	●	●	●	●
Crotonaldehyde	●	●	▲	●	●	Glycolic acid (hydroxyacetic acid)	●	●	●	■	●
Crude oil	●	●	●	●	●	Heptane	●	●	●	●	●
Mineral oil	●	●	●	●	●	Hexamethyldisilazan (HMDS)	●	●	●	●	●
Cyclohexane	●	●	●	●	●	Hexane	●	●	●	●	●
Cyclohexanol	●	●	●	▲	●	Hydrazine UDMH 50/50	●	▲	●	●	●
Cyclohexanone	●	●	●	●	●	Hydrotic acid (48% + 1.2% I ₂)	●	●	●	●	●
Dextrine	●	●	●	●	●	Hydrogen	●	●	●	●	●
Diacetone alcohol	●	●	▲	■	●	Hydrogen bromide	●	●	●	●	●
o-Dichlorobenzene	●	●	●	●	●	Hydrogen cyanide	●	●	●	●	●
Dichlorodifluoromethane	●	●	●	●	●	Hydrogen fluoride (35%)	●	●	●	●	●
Diesel fuel	●	●	●	●	●	Hydrogen fluoride (70%)	●	●	●	●	●
Diethylamine	●	●	■	■	●	Hydrogen fluoride (100%)	●	●	●	●	●
Diethyletlenamine	●	●	▲	■	●	Hydrogen peroxide (30%)	●	●	●	●	●
Diethyl ether	●	●	●	●	●	Hydrogen peroxide (50%)	●	●	●	●	●
Diglycolic acid	●	●	▲	●	●	Hydrogen phosphide	●	●	●	●	●
Disobutyl ketone	●	●	●	●	●	Hydrogen sulphide, wet	●	●	●	●	●
Disopropyl ether	●	●	●	●	●	Hydrogen sulphide, anhydrous	●	●	●	●	●
N, N-Dimethyl acetamide	■	■	■	■	■	Hypochoorous acid	●	●	●	●	●
Dimethyl amine	■	▲	■	■	■	Iodine, dry	●	●	●	●	●
Dimethyl aniline	●	●	■	■	■	Iodine, wet	●	●	●	●	●
Dimethyl formamide	●	●	■	■	■	Iodoform	●	●	●	●	●
Dimethyl phthalate	●	▲	■	■	■	Isocetane	●	●	●	●	●
1, 4-Dioxane	■	■	■	■	■	Jat propulsion fuel IP4 and IP5	●	●	●	●	●
Epichlorohydrine	■	■	■	■	■	Kerosine	●	●	●	●	●
Ethyl acetate	●	▲	■	■	■	Lactic acid	●	●	▲	●	●
Ethyl crilate	●	▲	■	■	■	Lauroic acid	●	●	●	●	●
Ethyl alcohol	●	●	●	●	●	Lauryl chloride	●	●	●	●	●
Ethyl chloride	●	●	●	●	●	Lead acetate	●	●	●	●	●
Ethylene bromide (1, 2-Dibromothane)	●	●	●	●	●	Lead tetraethyl	●	●	●	●	●
Ethylene chloride (1, 2-Dichlorethane)	●	●	●	●	●	Linseed oil	●	●	●	●	●
Ethylene chlorohydrine	●	▲	■	■	■	Undecic acid	●	●	●	●	●
Ethylene diamine	■	■	■	■	■	Magnesium carbonate	●	●	●	●	●
Ethylene glycol	●	●	●	●	●	Magnesium chloride	●	●	●	●	●
Ethylene oxide	●	●	●	●	●	Magnesium hydroxide	●	●	●	●	●
Fats (triglycerides of long or medium chain fatty acids)	●	●	●	●	●	Magnesium nitrate	●	●	●	●	●
Fatty acids (long chain)	●	●	●	●	●	Magnesium sulphate	●	●	●	●	●
Fatty acids (medium chain)	●	●	●	●	●	Maleic acid	●	●	●	●	●
Ferrous chloride	●	●	●	●	●	Mercury	●	●	●	●	●
Ferrous chloride (5%)	●	●	●	●	●	Mercuric chloride	●	●	●	●	●
Ferrous nitrate	●	●	●	●	●	Mercuric cyanide	●	●	●	●	●
Ferric nitrate	●	●	●	●	●	Mercuric nitrate	●	●	●	●	●
Ferrous sulphate	●	●	●	●	●	Methane	●	●	●	●	●
Ferric sulphate	●	●	●	●	●	Methane sulfonic acid (50%)	●	●	●	●	●
Ferric sulphate (50%)	●	●	●	●	●	Methyl alcohol	●	●	●	●	●
Fluorine	●	●	●	●	●	Methyl bromide	●	●	●	●	●
Formaldehyde (37% Formalin, Wz)	●	●	●	●	●	Methyl chloride	●	●	●	●	●
Formic acid	●	●	●	●	●	Methylene chloride	▲	▲	●	●	●
Furane	■	■	■	■	■	Methyl ethyl ketone	■	■	■	■	■
Furfural	▲	■	■	■	■	Methyl isobutyl ketone	●	▲	●	●	●
Fuel oil (EL)	●	●	●	●	●	N-Methylpyrrolidone	●	●	●	●	●
Galic acid	●	▲	●	●	●	Milk	●	●	●	●	●
Gear oil ARAL Energol 32	●	●	●	●	●	Mineral Oil	●	●	●	●	●
						Monooethanol amnia	■	■	■	■	■

Chemicals	Temperature					Chemicals	Temperature				
	20° C	50° C	70° C	100° C	120° C		20° C	50° C	70° C	100° C	120° C
Morpholine	▲	■	■	■	■	Naphthaline	●	●	●	●	●
Naphtha	●	●	●	●	●	Naphthalene	●	●	●	▲	●
Sodium acetate	●	●	●	●	●	Natriumdisulfat	●	●	●	●	●
Sodium benzoate	●	●	●	●	●	Natural gas	●	●	●	●	●
Sodium bicarbonate	●	●	●	●	●	Niacin (nicotinic acid)	●	●	●	●	●
(Sodium nitrogen carbonate)	●	●	●	●	●	Nickel chloride	●	●	●	●	●
Sodium bisphate	●	●	●	●	●	Nickel nitrate	●	●	●	●	●
(Sodium hydrogen sulphite)	●	●	●	●	●	Nickel sulphate	●	●	●	●	●
Sodium bisphite	●	●	●	●	●	Nicotine	●	▲	▲	●	●
(Sodium hydrogen sulphate)	●	●	●	●	●	Nitrating acid	●	●	▲	●	●
Sodium bromide	●	●	●	●	●	Nitric acid (15%/30%)	●	●	●	●	●
Sodium carbonate	●	●	●	●	●	Nitric acid (65%)	●	●	●	●	●
Sodium carbonate (40%)	●	●	●	●	●	Nitric acid (fuming)	▲	▲	▲	●	●
Sodium chloride	●	●	●	●	●	Nitrobenzene	●	▲	■	●	●
Sodium chlorite	●	●	●	●	●	Nitrogen dioxide	●	●	●	●	●
Sodium cyanide	●	●	●	●	●	Nitromethane	▲	■	●	●	●
Sodium hypochlorite	●	●	●	●	●	Nitrous acid	●	●	●	●	●
Sodium nitrate	●	●	●	●	●	Octane	●	●	●	●	●
Sodium nitrite	●	●	●	●	●	Octene	●	●	●	●	●
Sodium peroxide	●	●	●	●	●	Oil (triglyceride)	●	●	●	●	●
Sodium phosphate	●	●	●	●	●	Oleic acid	●	●	●	●	●
Sodium silicate	●	●	●	●	●	Oleum	■	■	■	●	●
Sodium sulphate	●	●	●	●	●	Oxalic acid	●	●	▲	■	●
Sodium sulphide	●	●	●	●	●	Oxygen	●	●	●	●	●
Sodium sulphite	●	●	●	●	●	Ozone	●	●	●	●	●
Sodium thiosulphate	●	●	●	●	●	Palmitic o. hexadecylic acid	●	●	●	●	●
Silicic acid	●	●	●	●	●	Paraldehyde	●	●	●	●	●
Sulphur	●	●	●	●	●	Perchloroethylene	●	●	●	●	●
Sulphur chloride	●	●	●	●	●	Perchloric acid (10%)	●	●	●	●	●
Sulphur dioxide	●	●	●	●	●	Perchloric acid (72%)	●	●	●	●	●
Sulphuric acid (50%)	●	●	●	●	●	Petrol (Gasoline (non-leaded)	●	●	●	●	●
Sulphuric acid (60%)	●	●	●	●	●	Phenol (10%)	●	●	●	●	●
Sulphuric acid (80%)	●	●	●	●	●	Phenol (100%)	●	●	●	▲	●
Sulphuric acid (95%)	●	●	●	▲	■	Phenylhydrazine	●	●	●	●	●
Sulphuric acid (fuming/morohydrate)	■	■	■	■	■	Phosphorus pentoxide	●	●	●	●	●
Sulphur trioxide	■	■	■	■	■	Phosphoric acid (30%)	●	●	●	●	●
Sulphurous acid	●	●	●	●	●	Phosphoric acid (65%)	●	●	●	●	●
Synthesis gas	●	●	●	●	●	Phosphorous chloride	●	●	●	●	●
Tail oil o. liquid rosin	●	●	●	●	●	Phthalic acid	●	●	●	●	●
Tetrachlorethylene	●	●	●	●	●	Picric acid	●	●	●	●	●
Tetrahydrofuran	▲	■	■	■	■	Potassium bromide/carbonate	●	●	●	●	●
Tetramethyl ammonium hydroxide (5%)	●	●	●	●	●	Potassium chloratochloride	●	●	●	●	●
Thionyl chloride	●	▲	●	●	●	Potassium cyanidedichromate	●	●	●	●	●
Titanium tetrachloride	●	●	●	●	●	Potassium ferrocyanide	●	●	●	●	●
Toluol (toluene)	●	●	●	●	●	Potassium hydroxide	●	●	●	●	●
Triethyl phosphate	●	●	●	●	●	Potassium nitrate/permanganate	●	●	●	●	●
Trichloroacetic acid	●	▲	●	■	■	Potassium sulphate	●	●	●	●	●
1,1,1-Trichloroethane	●	●	●	●	●	Potassium sulphide	●	●	●	●	●
Trichloroethylene	●	●	●	●	●	Propane	●	●	●	●	●
Trichlorofluoromethane	●	●	●	●	●	Propanol	●	●	▲	■	●
Triethyl amine	●	●	●	●	●	Propylene carbonate	■	■	■	■	■
Urea (50%)	●	●	●	●	●	Propylene oxide	■	■	■	■	■
Vinyl acetate	●	●	●	●	●	Pyridine	■	■	■	■	■
Water	●	●	●	●	●	Pyrogallic acid	●	●	●	●	●
Xylool (xylene)	●	●	●	●	●	Salicylic acid	●	●	●	●	●
Zn chloride	●	●	●	●	●	Sea water	●	●	●	●	●
Zn chloride (50%)	●	●	●	●	●	Silicon tetrachloride	●	●	●	●	●
Zn nitrate	●	●	●	●	●	Silver cyanide	●	●	●	●	●
Zn nitrate (50%)	●	●	●	●	●	Silver nitrate	●	●	●	●	●
Zn sulphate	●	●	●	●	●						
Zn sulphate (50%)	●	●	●	●	●						

Resistance to chemicals / RectuPom

- = recommended
▲ = limited usage
■ = not recommended

- weight increase < 3% or weight loss < 0.5% and/or decrease in tensile strength < 15%
weight increase 3 - 8% or weight loss 0.5 - 3% and/or decrease in tensile strength 15 - 30%
weight increase > 8% or weight loss > 3% and/or decrease in tensile strength > 30%

Chemicals	Temperature 20° C 60° C	Chemicals	Temperature 20° C 60° C
Acetic acid (10%)	●	Fluorocarbons (partially halogenated)	■
Acetic acid (80%)	▲	Fluorocarbons (perhalogenated)	●
Acetone	●	Formaldehyde (40%)	●
Acetylene tetrabromide	▲	Formic acid (10%)*	●
Ammonia	●	Fuel oil EL	●
Ammonium sulphate	●	Galbanum resin	●
*Hoechst (10%) (pH 5.8)	■	*Genantir/trap water 1:1	■
Benzene	▲	(4-1% Dioxac C, Shell)	■
Benzene with 15 to 20% methanol	●	Glacial acetic acid	▲
Butanol	●	Glycerol	●
Butyl acetate	●	Glycol	●
Butyraldehyde	▲	Glycol/distilled water 48 : 52	●
Butyric acid (1%)*	●	*Grison GBF 1 (5g to 100g H ₂ O)	●
Butyric acid (88%)	▲	Hydrochloric acid (10%)	■
Calcium ammonium nitrate	●	Hydrogen peroxide (30%)*	■
Calcium chloride (10%)	●	Hydroxydichloroethyl	●
Calcium nitrate	●	Ink ("Pelikan ink, blue-black)	■
*Hoechst (10%) (pH 6.4)	●	Isopropyl alcohol	●
Cananga oil	●	Jet fuel JP 1 + 4 (Shell)	●
Carbon disulphide	●	Lactic acid (10%)*	▲
Carbon tetrachloride	▲	Lactic acid (90%)*	▲
Chlorobenzene	▲	Lavender oil, highest-quality	●
Chloroform	■	Leinograss oil	●
Chromic acid (3%)	▲	Lime, chlorinated (approx. 10%)	●
Citric acid (10%)	■	Methanol	●
*Clophen A 60 (Bayer)	●	Methyl acetate	▲
Coffee ("Nescafe")	●	Methyl bromide	■
(10%, pH 5.8)	●	Methyl ethyl ketone	▲
*Complex Typ Gelb 15 + 15 + 15	●	Methyl glycol	▲
(10%, pH 5.8)	●	Methyl glycol acetate	▲
*Complex Typ NP 20 + 20 + 0	●	Methylene bromide	■
(10%, pH 5.7)	●	Methylene chloride, technical	■
*Complex Typ Rot 13 + 13 + 21	●	Mineral oil	●
(10%, pH 5.4)	●	*Mobil oil SAE 20	●
Copper sulphate (10%)	●	Mobil oil HD SAE 20 after 3000 km	●
Developer solution 1:100	●	N-Hexane	●
(pH 10.4) ("Rodinal Agfa")	●	Natural gas	●
Developer solution 1:50	■	Nickel sulphate (10%)	●
(pH 10.9) ("Rodinal Agfa")	●	Nitric acid (10%)	■
Dibutyl phthalate	●	Nitrous gases	■
Diethyl phthalate	●	Oil of cloves	■
Dioctyl sebacate	●	Olive oil	■
Dioxane	▲	Ozone	■
Engine oil BP HF 20	●	Peat water (pH 3.7)	■
Engine oil SAE 40 (Castrol)	●	Perchloroethylene	■
Ethanol (96%)	●	Petrol, standard-grade	●
Ether (DAB 6)	●	Petrol/benzene mixture	●
Ethyl acetat	▲	Petroleum	●
Ethyl chloride (DAB 6)	●	Petroleum fraction	●
Ethyl glycol	▲	(boiling point 100-140° C)	■
Ferric chloride (10%)	▲	Phenol	■
	■	Phosphoric acid (25%)	●

The results were obtained using injection-moulded, 1 mm thick test samples after a test duration of 60 days. During the test, the test samples were not under the influence of any external tension.

* Because of the acid or oxidizing nature of these chemicals, trials are recommended before prolonged contact with RECTUS.

Media Chart O-Rings

- = little or no effect
▲ = weak to moderate effect
■ = strong attack to complete destruction
◆ = no data available; probably suitable; test before use
✕ = no data available; probably not suitable

Media	Buna N	Seals	Ethylene propylene
Acetone	■	■	●
Acetylene	●	●	●
Aero-engine oils JP 3/4/5/6	●	●	●
Ammonia, 100%	▲	■	■
Ammonium sulphate	●	●	●
Anil acetate	■	■	●
Aniline	■	■	◆
Arsenic acid, aq.	●	●	●
Beer	●	●	●
Benzoic acid, aq.	●	●	●
Benzyl alcohol	◆	◆	✕
Black dye	▲	●	●
Borax, aq.	●	●	●
Boric acid, aq.	■	●	●
Brake fluids (glycol ether)	■	◆	●
Butadiene	●	●	■
Butane, gaseous	■	■	■
Butanol, aq.	●	▲	●
Butyl acetate	■	■	▲
Butyl alcohol	■	◆	●
Butyne diol	●	●	●
Butyraldehyde	◆	◆	▲
Calcium nitrate, aq.	●	●	●
Calcium phosphate, aq.	●	●	●
Camphorated oil	●	▲	■
Carbon dioxide	●	●	●
Carbon dioxide, dry	●	●	●
Carbon disulphide	■	●	■
Carbon tetrachloride	■	●	■
Chloramine, aq.	●	◆	●
Chloride of lime, aq.	■	●	●
Chlorine	■	●	●
Chlorine water, saturated	■	●	●
Chromic acid, aq.	●	●	✕
Citric acid, aq.	●	●	●
Coconut fat	●	●	■
Coconut oil	●	●	■
Coking-oven gas	●	●	■
Crods oil	●	●	■
Cyclohexane	●	●	■
Cyclohexanol	◆	◆	■
Desmophen 2000	●	✕	✕
Detergent, synthetic	●	●	●
Detergents	●	▲	●
Dextrin, aq.	■	●	●
Dichloroacetic acid	■	■	●
Diesel fuel	●	●	■
Diglycolic acid, aq.	▲	●	■
Dimethyl ether	■	■	●
Dimethylamine	■	■	●
Engine oils	●	●	■
Ethane	●	●	●
Ethyl acrylate	■	■	✕

	Buna N	Viton®	Ethylene propylene
Ethyl benzene	■	▲	■
Ethyl chloride	▲	▲	▲
Ethylene diamine	■	■	▲
Ethylene glycol	●	●	●
Fatty acids	▲	●	◆
Fluoroallic acid, aq.	●	●	●
Fish oil	●	●	▲
Formaldehyde, aq.	▲	◆	●
Formamide	■	▲	●
Gas oil	●	●	■
Glucose, aq.	●	●	■
Glycerol, aq.	●	●	●
Glycol, aq.	●	●	●
Glycolic acid, aq. 37%	●	●	●
Heptane	●	●	■
Hexachlorobutadiene	■	●	◆
Hexane	●	●	●
Hydrochloric acid	▲	▲	●
Hydrogen	●	●	●
Hydrogen chloride gas	■	●	●
Hydrogen sulphide, dry aqueous	▲	●	●
Hydrosulphite, aq.	▲	◆	●
Isocetane	●	●	■
Isopropyl alcohol	▲	▲	●
Lactic acid, aq.	●	●	●
Lavender oil	▲	●	◆
Lead acetate, aq.	●	●	●
Lithium bromide, aq.	●	●	●
Machine oil, mineral	●	●	■
Magnesium sulphate, aq.	●	●	●
Mercury salts, aq.	●	●	●
Methane	●	●	▲
Methyl alcohol	▲	■	■
Mineral oil	●	◆	■
Mustard gas	◆	◆	●
Nitrogen	●	●	●
Nitrogen tetroxide	■	■	●
Nitroglycol, aq.	■	●	◆
Octane	✕	●	●
Oleic acid	●	●	■
Paraffin/Paraffin oil	●	●	■
Petrol	●	●	■
Petroleum	●	●	■
Propylene glycol	●	●	●
Sea water	●	●	●
Silicone grease/Silicone oil	●	●	●
Soda, aq.	■	▲	■
Sodium chloride	■	●	●
Sodium chloride, aq.	●	●	●
Sodium nitrate, aq.	●	●	●
Sodium phosphate, aq.	●	●	●
Steam	▲	●	●
Syrene	■	▲	■
Sulphur	◆	●	●
Sulphur trioxide	▲	●	▲
Sulphuric acid	▲	●	●
Sulphuryl chloride	■	■	▲
Tartaric acid, aq.	■	■	●
Titanium tetrachloride	●	▲	●
Town gas, benzene-free	●	●	●

Nominal Diameter **5** = 20 mm²**21 KB series****Technical Description**

The 21 series made of POM and PVDF is the next step in the evolution of material for couplings traditionally made of brass and stainless steel which have proven themselves over the years. A new type of locking system made of plastic with a non-slip sleeve considerably expands the application possibilities of this small, quick connect coupling.

Advantages

The coupling is fitted with a double shut-off valve which enables it to be connected to a single shut-off (non-valve) plug as well as a double shut-off (valved) plug. The coupling is also available as a straight-through coupling (without a valve). The 21 series eliminates the danger of mix-ups by color coding of the coupling and the respective plug. This system guarantees the elimination of mix-ups when mediums are connected.

Applications

Drinking water, medical engineering, food sector, in laboratories, liquid, gases.

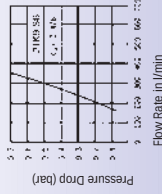
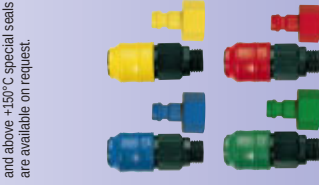
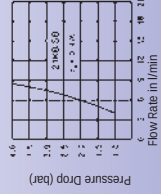
Working Pressure

PB = 10 bar (POM, 20°C)
PB = 8 bar (PVDF, 20°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +130°C (POM)
-20°C up to +120°C (PVDF) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Chart**Air****Water****RectuChem Standard****RectuPom Standard****Coupling**

Valve Body
Sleeve
Valve
Spring
Locking System
Seals
Back Body

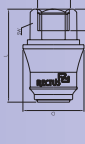
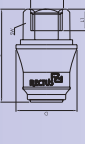
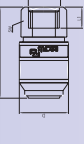
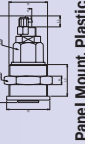
Plug

Plug Profile
Valve
Spring
Adapter
Seal

PVDF: white
PVDF: white
POM: black
POM: black
AISI 316 Ti
PVDF: white
Viton®
PVDF: white
PVDF: white
PVDF: white
AISI 316 Ti
PVDF: white
Viton®

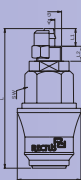
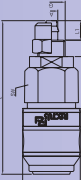
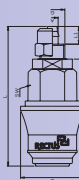
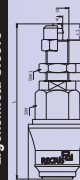
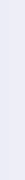
Couplings

	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve 	G 1/4 o.	17	50	25.5	7					Standard Design	21KB AW10 DPX	21KB AW10 FVX
Male Thread 												
Straight Sleeve 												
Male Thread 												
Ergonomical Sleeve 	G 1/4 o.	17	50	21	7					Standard Design	21KB AW10 DPXGB 21KB AW10 DPXGG 21KB AW10 DPXGR 21KB AW10 DPXGY	21KB AW10 FVXGB 21KB AW10 FVXGG 21KB AW10 FVXGR 21KB AW10 FVXGY
Male Thread 												
Ergonomical Sleeve 	G 1/4 o.	17	50	25.5	7					Standard Design	21KB AW13 DPX	21KB AW13 FVX
Male Thread 												

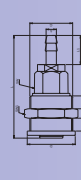
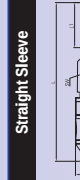
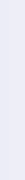
Couplings**Straight Sleeve****Male Thread****Ergonomical Sleeve****Female Thread****Straight Sleeve****Female Thread****Ergonomical Sleeve****Female Thread****Straight Sleeve****Female Thread****for Front Panel Installation****Panel Mount, Plastic Hose Connection****for Front Panel Installation****for PVDF- and PE-Hoses****for PVDF- and PE-Hoses**

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 o.	17	50	21	7					Standard Design	21KB AW13 DPXGB 21KB AW13 DPXGG 21KB AW13 DPXGR 21KB AW13 DPXGY	21KB AW13 FVXGB 21KB AW13 FVXGG 21KB AW13 FVXGR 21KB AW13 FVXGY
G 1/8 i.	17	53	25.5	8					Standard Design	21KB IW10 DPX	21KB IW10 FVX
G 1/8 i.	17	53	21	8					Standard Design	21KB IW10 DPXGB 21KB IW10 DPXGG 21KB IW10 DPXGR 21KB IW10 DPXGY	21KB IW10 FVXGB 21KB IW10 FVXGG 21KB IW10 FVXGR 21KB IW10 FVXGY
G 1/4 i.	17	39	25.5	9					Standard Design	21KB IW13 DPX	21KB IW13 FVX
G 1/4 i.	17	39	21	8					Standard Design	21KB IW13 DPXGB 21KB IW13 DPXGG 21KB IW13 DPXGR 21KB IW13 DPXGY	21KB IW13 FVXGB 21KB IW13 FVXGG 21KB IW13 FVXGR 21KB IW13 FVXGY
4 x 6 mm	17	56	28	7	20.5	27	7	M 25 x 1	Standard Design	21KB KE06 DPX	21KB KE06 FVX
6 x 8 mm	17	56	28	7	20.5	27	7	M 25 x 1	Standard Design	21KB KE08 DPX	21KB KE08 FVX
4 x 6 mm	17	62	28	7	20.5	27	7	M 25 x 1	Standard Design		21KB FR06 FVX
6 x 8 mm	17	66	28	7	20.5	27	7	M 25 x 1	Standard Design		21KB FR08 FVX
4 x 6 mm	17	62	25.5	17				M 10 x 1	Standard Design		21KB KP06 FVX
6 x 8 mm	17	66	25.5	17				M 12 x 1	Standard Design		21 KB KP08 FVX

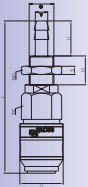
Couplings

Couplings		Connection A		Hex SW	L	D	L1	L2	Hex SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve		4 x 6 mm	17	56	25,5	6	7				M 10 x 1	Standard Design	21KB KO06 DPX	21KB KO06 FVX
														
Plastic Hose Connection														
Straight Sleeve		4 x 6 mm	17	56	21	6	7				M 10 x 1	Standard Design	21KB KO06 DPXGB	21KB KO06 FVXGB
												blue	21KB KO06 DPXGB	21KB KO06 FVXGB
Plastic Hose Connection												green	21KB KO06 DPXGG	21KB KO06 FVXGG
Straight Sleeve												red	21KB KO06 DPXGR	21KB KO06 FVXGR
												yellow	21KB KO06 DPXGY	21KB KO06 FVXGY
Plastic Hose Connection														
Straight Sleeve		6 x 8 mm	17	56	21/25,5	6	7				M 12 x 1	Standard Design	21KB KO08 DPX	21KB KO08 FVX
														
Plastic Hose Connection														
Straight Sleeve		6 x 8 mm	17	56	21	6	7				M 12 x 1	Standard Design	21KB KO08 DPXGB	21KB KO08 FVXGB
												blue	21KB KO08 DPXGB	21KB KO08 FVXGB
Plastic Hose Connection												green	21KB KO08 DPXGG	21KB KO08 FVXGG
Straight Sleeve												red	21KB KO08 DPXGR	21KB KO08 FVXGR
												yellow	21KB KO08 DPXGY	21KB KO08 FVXGY
Plastic Hose Connection														
Straight Sleeve		4 x 6 mm	17	68	21	7	18	14		4	M 10 x 1	Standard Design	21KB KS06 DPXGB	21KB KS06 FVXGB
												blue	21KB KS06 DPXGB	21KB KS06 FVXGB
Plastic Hose Connection												green	21KB KS06 DPXGG	21KB KS06 FVXGG
Straight Sleeve												red	21KB KS06 DPXGR	21KB KS06 FVXGR
												yellow	21KB KS06 DPXGY	21KB KS06 FVXGY
Plastic Hose Connection														
Straight Sleeve		6 x 8 mm	17	68	25,5	7	18	17		4	M 12 x 1	Standard Design	21KB KS08 DPX	21KB KS08 FVX
														
Plastic Hose Connection														
Straight Sleeve		6 x 8 mm	17	68	21	7	18	17		4	M 12 x 1	Standard Design	21KB KS08 DPXGB	21KB KS08 FVXGB
												blue	21KB KS08 DPXGB	21KB KS08 FVXGB
Plastic Hose Connection												green	21KB KS08 DPXGG	21KB KS08 FVXGG
Straight Sleeve												red	21KB KS08 DPXGR	21KB KS08 FVXGR
												yellow	21KB KS08 DPXGY	21KB KS08 FVXGY
Plastic Hose Connection														

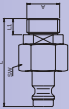
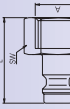
Couplings

Couplings															
for Front Panel Installation															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	4 mm	17	60	28	17	20.5	27	7	M 25 x 1	Standard Design	21KB TE04 DPX	21KB TE04 FVX			
	6 mm	17	60	28	17	20.5	27	7	M 25 x 1	Standard Design	21KB TE06 DPX	21KB TE06 FVX			
Panel Mount, Hose Barb															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	4 mm	17	60	25.5	17					Standard Design	21KB TF04 DPX	21KB TF04 FVX			
Straight Sleeve															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	4 mm	17	60	21	17					Standard Design	21KB TF04 DPXG	21KB TF04 FVXG			
										blue	21KB TF04 DPXGB	21KB TF04 FVXGB			
										green	21KB TF04 DPXGG	21KB TF04 FVXGG			
Hose Barb															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	6 mm	17	60	25.5	17					Standard Design	21KB TF06 DPX	21KB TF06 FVX			
Straight Sleeve															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	6 mm	17	60	21	17					Standard Design	21KB TF06 DPXG	21KB TF06 FVXG			
										blue	21KB TF06 DPXGB	21KB TF06 FVXGB			
										green	21KB TF06 DPXGG	21KB TF06 FVXGG			
Hose Barb															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	6 mm	17	60	21	17					Standard Design	21KB TF06 DPXGR	21KB TF06 FVXGR			
										red	21KB TF06 DPXGR	21KB TF06 FVXGR			
										yellow	21KB TF06 DPXGY	21KB TF06 FVXGY			
Straight Sleeve															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	4 mm	17	74	25.5	17	14	14	4	M 10 x 1	Standard Design	21KB TS04 DPX	21KB TS04 FVX			
Panel Mount, Hose Barb															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	4 mm	17	74	21	17	14	14	4	M 10 x 1	Standard Design	21KB TS04 DPXG	21KB TS04 FVXG			
										blue	21KB TS04 DPXGB	21KB TS04 FVXGB			
										green	21KB TS04 DPXGG	21KB TS04 FVXGG			
Hose Barb															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	6 mm	17	74	25.5	17	14	14	4	M 10 x 1	Standard Design	21KB TS04 DPXGR	21KB TS04 FVXGR			
										red	21KB TS04 DPXGR	21KB TS04 FVXGR			
										yellow	21KB TS04 DPXGY	21KB TS04 FVXGY			
Straight Sleeve															
	Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number			
	6 mm	17	74	25.5	17	14	14	4	M 10 x 1	Standard Design	21KB TS06 DPX	21KB TS06 FVX			

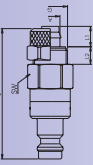
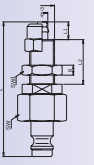
Couplings

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
 Panel Mount, Hose Barb	6 mm	17	74	21	17	14	17	4	M 12 x 1	Standard Design	21KB TS06 DPXG	21KB TS06 FVYG
										blue	21KB TS06 DPXGB	21KB TS06 FVXGB
										green	21KB TS06 DPXGG	21KB TS06 FVXGG
										red	21KB TS06 DPXGR	21KB TS06 FVXGR
										yellow	21KB TS06 DPXGY	21KB TS06 FVXGY

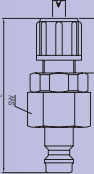
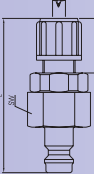
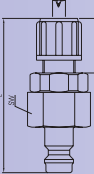
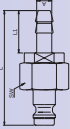
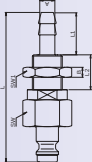
Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
 Male Thread	G 1/8 o.	17	36	7						Standard Design	21SB AW10 DPX	21SB AW10 FVX
										blue	21SB AW10 DPXB	21SB AW10 FVXB
										green	21SB AW10 DPXG	21SB AW10 FVXG
										red	21SB AW10 DPXR	21SB AW10 FVXR
										yellow	21SB AW10 DPXY	21SB AW10 FVXY
	G 1/4 o.	17	38	7						Standard Design	21SB AW13 DPX	21SB AW13 FVX
										blue	21SB AW13 DPXB	21SB AW13 FVXB
										green	21SB AW13 DPXG	21SB AW13 FVXG
										red	21SB AW13 DPXR	21SB AW13 FVXR
										yellow	21SB AW13 DPXY	21SB AW13 FVXY
 Female Thread	G 1/8 i.	17	39	8						Standard Design	21SB IW10 DPX	21SB IW10 FVX
										blue	21SB IW10 DPXB	21SB IW10 FVXB
										green	21SB IW10 DPXG	21SB IW10 FVXG
										red	21SB IW10 DPXR	21SB IW10 FVXR
										yellow	21SB IW10 DPXY	21SB IW10 FVXY
	G 1/4 i.	17	42	10						Standard Design	21SB IW13 DPX	21SB IW13 FVX
										blue	21SB IW13 DPXB	21SB IW13 FVXB
										green	21SB IW13 DPXG	21SB IW13 FVXG
										red	21SB IW13 DPXR	21SB IW13 FVXR
										yellow	21SB IW13 DPXY	21SB IW13 FVXY

Valved Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
4 x 6 mm	 Plastic Hose Connection	17	42	7	7	6				Standard Design	21SB KO06 DPX	21SB KO06 FVX
										blue	21SB KO06 DPXB	21SB KO06 FVXB
										green	21SB KO06 DPXG	21SB KO06 FVXG
										red	21SB KO06 DPXR	21SB KO06 FVXR
										yellow	21SB KO06 DPXY	21SB KO06 FVXY
6 x 8 mm		17	42	7	7	6				Standard Design	21SB KO08 DPX	21SB KO08 FVX
										blue	21SB KO08 DPXB	21SB KO08 FVXB
										green	21SB KO08 DPXG	21SB KO08 FVXG
										red	21SB KO08 DPXR	21SB KO08 FVXR
										yellow	21SB KO08 DPXY	21SB KO08 FVXY
4 x 6 mm	 Panel Mount, Plastic Hose Connection	17	54	7	18	14	14	4	M 10 x 1	Standard Design	21SB KS06 DPX	21SB KS06 FVX
										blue	21SB KS06 DPXB	21SB KS06 FVXB
										green	21SB KS06 DPXG	21SB KS06 FVXG
										red	21SB KS06 DPXR	21SB KS06 FVXR
										yellow	21SB KS06 DPXY	21SB KS06 FVXY

Valved Plugs

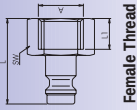
Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
6 x 8 mm	 Panel Mount, Plastic Hose Connection	17	54	7	18	17	17	4	M 12 x 1	Standard Design	21SB KS08 DPX	21SB KS08 FVX
										blue	21SB KS08 DPXB	21SB KS08 FVXB
										green	21SB KS08 DPXG	21SB KS08 FVXG
										red	21SB KS08 DPXR	21SB KS08 FVXR
										yellow	21SB KS08 DPXY	21SB KS08 FVXY
4 x 6 mm	 Panel Mount, Plastic Hose Connection	17	48	28						Standard Design	21SB KP06 FVX	21SB KP06 FVX
										blue	21SB KP06 FVXB	21SB KP06 FVXB
										green	21SB KP06 FVXG	21SB KP06 FVXG
										red	21SB KP06 FVXR	21SB KP06 FVXR
										yellow	21SB KP06 FVXY	21SB KP06 FVXY
6 x 8 mm	 Panel Mount, Plastic Hose Connection	17	52	28						Standard Design	21SB KP08 FVX	21SB KP08 FVX
										blue	21SB KP08 FVXB	21SB KP08 FVXB
										green	21SB KP08 FVXG	21SB KP08 FVXG
										red	21SB KP08 FVXR	21SB KP08 FVXR
										yellow	21SB KP08 FVXY	21SB KP08 FVXY
4 mm	 Hose Barb	17	46	17						Standard Design	21SB TF04 DPX	21SB TF04 FVX
										blue	21SB TF04 DPXB	21SB TF04 FVXB
										green	21SB TF04 DPXG	21SB TF04 FVXG
										red	21SB TF04 DPXR	21SB TF04 FVXR
										yellow	21SB TF04 DPXY	21SB TF04 FVXY
6 mm		17	46	17						Standard Design	21SB TF06 DPX	21SB TF06 FVX
										blue	21SB TF06 DPXB	21SB TF06 FVXB
										green	21SB TF06 DPXG	21SB TF06 FVXG
										red	21SB TF06 DPXR	21SB TF06 FVXR
										yellow	21SB TF06 DPXY	21SB TF06 FVXY
4 mm	 Panel Mount, Hose Barb	17	60	7	14	14	14	4	M 10 x 1	Standard Design	21SB TS04 DPX	21SB TS04 FVX
										blue	21SB TS04 DPXB	21SB TS04 FVXB
										green	21SB TS04 DPXG	21SB TS04 FVXG
										red	21SB TS04 DPXR	21SB TS04 FVXR
										yellow	21SB TS04 DPXY	21SB TS04 FVXY
6 mm		17	60	7	14	17	17	4	M 12 x 1	Standard Design	21SB TS06 DPX	21SB TS06 FVX
										blue	21SB TS06 DPXB	21SB TS06 FVXB
										green	21SB TS06 DPXG	21SB TS06 FVXG
										red	21SB TS06 DPXR	21SB TS06 FVXR
										yellow	21SB TS06 DPXY	21SB TS06 FVXY

Plugs

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
G 1/8 o.	 Male Thread	14	25	7						Standard Design	21SF AW10 DPX	21SF AW10 FXX
										blue	21SF AW10 DPXB	21SF AW10 FXXB
										green	21SF AW10 DPXG	21SF AW10 FXXG
										red	21SF AW10 DPXR	21SF AW10 FXXR
										yellow	21SF AW10 DPXY	21SF AW10 FXXY
G 1/4 o.		17	28	9						Standard Design	21SF AW13 DPX	21SF AW13 FXX
										blue	21SF AW13 DPXB	21SF AW13 FXXB
										green	21SF AW13 DPXG	21SF AW13 FXXG
										red	21SF AW13 DPXR	21SF AW13 FXXR
										yellow	21SF AW13 DPXY	21SF AW13 FXXY

Plugs

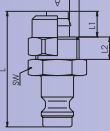
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
G 1/8 i.	14	24	8					Standard Design	21SF IW10 DXX	21SF IW10 FXX
								blue	21SF IW10 DPXB	21SF IW10 FXXB
								green	21SF IW10 DPXG	21SF IW10 FXXG
								red	21SF IW10 DPXR	21SF IW10 FXXR
G 1/4 i.								yellow	21SF IW10 DPXY	21SF IW10 FXXY
	17	25	9					Standard Design	21SB IW13 DXX	21SB IW13 FXX
								blue	21SB IW13 DXXB	21SB IW13 FXXB
								green	21SB IW13 DXXG	21SB IW13 FXXG
								red	21SB IW13 DXXR	21SB IW13 FXXR
								yellow	21SB IW13 DXXY	21SB IW13 FXXY



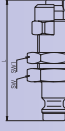
Female Thread

Plugs

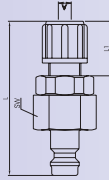
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
4 x 6 mm	14	32	7	6			M 10 x 1	Standard Design	21SF KO06 DXX	21SF KO06 FXX
								blue	21SF KO06 DPXB	21SF KO06 FXXB
								green	21SF KO06 DPXG	21SF KO06 FXXG
								red	21SF KO06 DPXR	21SF KO06 FXXR
6 x 8 mm								yellow	21SF KO06 DPXY	21SF KO06 FXXY
	14	32	7	6			M 12 x 1	Standard Design	21SF KO08 DXX	21SF KO08 FXX
								blue	21SF KO08 DPXB	21SF KO08 FXXB
								green	21SF KO08 DPXG	21SF KO08 FXXG
								red	21SF KO08 DPXR	21SF KO08 FXXR
								yellow	21SF KO08 DPXY	21SF KO08 FXXY
	14	44	7	18	14	4	M 10 x 1	Standard Design	21SF KS06 DXX	21SF KS06 FXX
								blue	21SF KS06 DPXB	21SF KS06 FXXB
6 x 8 mm								green	21SF KS06 DPXG	21SF KS06 FXXG
								red	21SF KS06 DPXR	21SF KS06 FXXR
								yellow	21SF KS06 DPXY	21SF KS06 FXXY
	14	44	7	18	17	4	M 12 x 1	Standard Design	21SF KS08 DXX	21SF KS08 FXX
								blue	21SF KS08 DPXB	21SF KS08 FXXB
								green	21SF KS08 DPXG	21SF KS08 FXXG
								red	21SF KS08 DPXR	21SF KS08 FXXR
								yellow	21SF KS08 DPXY	21SF KS08 FXXY
4 x 6 mm	17	48	28					Standard Design	21SF KP06 FXX	21SF KP06 FXX
								blue	21SF KP06 FXXB	21SF KP06 FXXB
								green	21SF KP06 FXXG	21SF KP06 FXXG
								red	21SF KP06 FXXR	21SF KP06 FXXR
6 x 8 mm								yellow	21SF KP06 FXXY	21SF KP06 FXXY
	17	52	28					Standard Design	21SF KP08 FXX	21SF KP08 FXX
								blue	21SF KP08 FXXB	21SF KP08 FXXB
								green	21SF KP08 FXXG	21SF KP08 FXXG
								red	21SF KP08 FXXR	21SF KP08 FXXR
								yellow	21SF KP08 FXXY	21SF KP08 FXXY
4 mm		32	17					Standard Design	21SF TF04 DXX	21SF TF04 FXX
								blue	21SF TF04 DPXB	21SF TF04 FXXB
								green	21SF TF04 DPXG	21SF TF04 FXXG
								red	21SF TF04 DPXR	21SF TF04 FXXR
								yellow	21SF TF04 DPXY	21SF TF04 FXXY



Plastic Hose Connection



Panel Mount,
Plastic Hose Connection



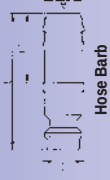
Panel Mount
for PVDF- and PE-Hoses



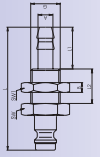
Hose Barb

Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
6 mm		32	17					Standard Design	21SF TF06 DXX	21SF TF06 FXX
								blue	21SF TF06 DPXB	21SF TF06 FXXB
								green	21SF TF06 DPXG	21SF TF06 FXXG
								red	21SF TF06 DPXR	21SF TF06 FXXR
4 mm								yellow	21SF TF06 DPXY	21SF TF06 FXXY
	14	50	17	14	14	4	M 10 x 1	Standard Design	21SF TS04 DXX	21SF TS04 FXX
								blue	21SF TS04 DPXB	21SF TS04 FXXB
								green	21SF TS04 DPXG	21SF TS04 FXXG
6 mm								red	21SF TS04 DPXR	21SF TS04 FXXR
								yellow	21SF TS04 DPXY	21SF TS04 FXXY
	14	50	17	14	17	4	M 12 x 1	Standard Design	21SF TS06 DXX	21SF TS06 FXX
								blue	21SF TS06 DPXB	21SF TS06 FXXB
								green	21SF TS06 DPXG	21SF TS06 FXXG
								red	21SF TS06 DPXR	21SF TS06 FXXR
								yellow	21SF TS06 DPXY	21SF TS06 FXXY



Hose Barb



Panel Mount,
Hose Barb

Would you like detailed, personal technical advice?
Please call the RECTUS headquarter in Nussdorf,
Germany, or your local RECTUS agent to arrange a
personal appointment. Your RECTUS sales consul-
tant will look forward to meeting you.

Nominal Diameter **7** = 38 mm²

48 KB series



Technical Description
The 48 series coupling system made of POM and PVDF has been developed for use in the medical, chemical, food handling, pharmaceutical and laboratory technology industries. The coupling is also available in a completely thermoplastic version (RectuChem®). Here the metal springs are replaced by springs made of PEEK, an extremely resistant synthetic material.

Advantages
The coupling is fitted with a double shut-off valve which enables it to be connected to a single shut-off (non-valved) plug as well as to a double shut-off (i.e. plug with valve). The coupling is also available as a straight-through coupling (valved plug).

Applications
Medical engineering, dental equipment, measuring and control equipment, laboratory, pharmaceutical.
Working Pressure
PB = 0 – 10 bar (POM, 20°C)
PB = 0 – 8 bar (PVDF, springs made of steel)
PB = 1 – 8 bar (PVDF, springs made of PEEK), maximum static working pressure with safety factor of 4 to 1.

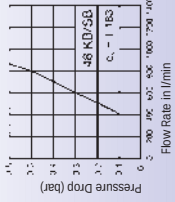
Working Temperature*
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF) depending on the medium.
* At a temperature below -20°C and above +150°C special seals are available on request.

Material	RectuPOM	RectuChem	RectuChem+
Coupling			
Valve Body	POM, black	PVDF, white	PVDF, white
Sleeve	POM, black	PVDF, white	PVDF, white
Valve	POM, black	PVDF, white	PVDF, white
Springs	AI31 301	AI31 316 Ti	PEEK 450G
Locking System	POM, black	PVDF, white	PEEK 450 G
Seals	Buna N	Viton®	Viton®
Back Body	POM, black	PVDF, white	PVDF, white

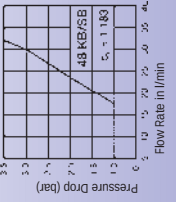
Plug			
Plug Profil	POM, black	PVDF, white	PVDF, white
Valve	POM, black	PVDF, white	PVDF, white
Spring	AI31 301	AI31 316 Ti	PEEK 450G
Adapter	POM, black	PVDF, white	PVDF, white
Seal	Buna N	Viton®	Viton®



Chart



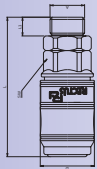
Air



Water

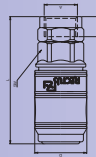
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
G 1/4 o.	21	70.5	26	9					Stand. Des.	48KB AW13 DPX	48KB AW13 FVX	48KB AW13 FVX
									blue	48KB AW13 DPXB	48KB AW13 FVXB	48KB AW13 FVPB
									green	48KB AW13 DPXG	48KB AW13 FVXG	48KB AW13 FVPG
									red	48KB AW13 DPXR	48KB AW13 FVXR	48KB AW13 FVPR
G 3/8 o.	21	67	26						yellow	48KB AW13 DPXY	48KB AW13 FVXY	48KB AW13 FVPY
									Stand. Des.	48KB AW17 DPX	48KB AW17 FVX	48KB AW17 FVP
									blue	48KB AW17 DPXB	48KB AW17 FVXB	48KB AW17 FVPB
									green	48KB AW17 DPXG	48KB AW17 FVXG	48KB AW17 FVPG
G 1/2 o.	21	73.5	26	12					red	48KB AW17 DPXR	48KB AW17 FVXR	48KB AW17 FVPR
									yellow	48KB AW17 DPXY	48KB AW17 FVXY	48KB AW17 FVPY
									Stand. Des.	48KB AW21 DPX	48KB AW21 FVX	48KB AW21 FVP
									blue	48KB AW21 DPXB	48KB AW21 FVXB	48KB AW21 FVPB
									green	48KB AW21 DPXG	48KB AW21 FVXG	48KB AW21 FVPG
									red	48KB AW21 DPXR	48KB AW21 FVXR	48KB AW21 FVPR
									yellow	48KB AW21 DPXY	48KB AW21 FVXY	48KB AW21 FVPY

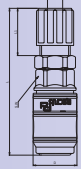


Male Thread

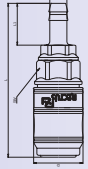
Couplings



Female Thread



for PVDF- and PE-Hoses

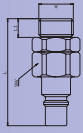


Hose Barb

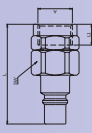
Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
G 1/4 o.	21	55	9						Stand. Des.	48SB AW13 DPX	48SB AW13 FVX	48SB AW13 FVP
									blue	48SB AW13 DPXB	48SB AW13 FVXB	48SB AW13 FVPB
									green	48SB AW13 DPXG	48SB AW13 FVXG	48SB AW13 FVPG
									red	48SB AW13 DPXR	48SB AW13 FVXR	48SB AW13 FVPR
G 3/8 o.	21	51.5	9						yellow	48SB AW13 DPXY	48SB AW13 FVXY	48SB AW13 FVPY
									Stand. Des.	48SB AW17 DPX	48SB AW17 FVX	48SB AW17 FVP
									blue	48SB AW17 DPXB	48SB AW17 FVXB	48SB AW17 FVPB
									green	48SB AW17 DPXG	48SB AW17 FVXG	48SB AW17 FVPG
									red	48SB AW17 DPXR	48SB AW17 FVXR	48SB AW17 FVPR
									yellow	48SB AW17 DPXY	48SB AW17 FVXY	48SB AW17 FVPY

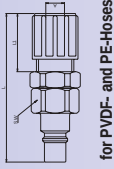
Valved Plugs



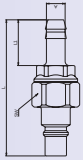
Male Thread



Female Thread



for PVDf- and PE-Hoses



Hose Barb

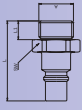
Plugs



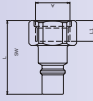
Male Thread

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
	G 3/8 o.	21	58	12						Stand. Dis.	48SB AW21 DPX	48SB AW21 FVX
										blue	48SB AW21 DPXB	48SB AW21 FVPB
										green	48SB AW21 DPXG	48SB AW21 FVPG
										red	48SB AW21 DPXR	48SB AW21 FVPR
										yellow	48SB AW21 DPXY	48SB AW21 FVPY
	G 1/4 i.	21	48	10						Stand. Dis.	48SB IW13 DPX	48SB IW13 FVX
										blue	48SB IW13 DPXB	48SB IW13 FVPB
										green	48SB IW13 DPXG	48SB IW13 FVPG
										red	48SB IW13 DPXR	48SB IW13 FVPR
										yellow	48SB IW13 DPXY	48SB IW13 FVPY
	G 3/8 i.	21	48	10						Stand. Dis.	48SB IW17 DPX	48SB IW17 FVX
										blue	48SB IW17 DPXB	48SB IW17 FVPB
										green	48SB IW17 DPXG	48SB IW17 FVPG
										red	48SB IW17 DPXR	48SB IW17 FVPR
										yellow	48SB IW17 DPXY	48SB IW17 FVPY
	G 1/2 i.	21	59	13						Stand. Dis.	48SB IW21 DPX	48SB IW21 FVX
										blue	48SB IW21 DPXB	48SB IW21 FVPB
										green	48SB IW21 DPXG	48SB IW21 FVPG
										red	48SB IW21 DPXR	48SB IW21 FVPR
										yellow	48SB IW21 DPXY	48SB IW21 FVPY
	6 x 8 mm	21	64.5	21						Stand. Dis.	48SB TF06 DPX	48SB TF06 FVX
										blue	48SB TF06 DPXB	48SB TF06 FVPB
										green	48SB TF06 DPXG	48SB TF06 FVPG
	9 x 12 mm	21	71.5	28						red	48SB TF06 DPXR	48SB TF06 FVPR
										yellow	48SB TF06 DPXY	48SB TF06 FVPY
										Stand. Dis.	48SB TF09 DPX	48SB TF09 FVX
	9 mm	21	65.5	22						blue	48SB TF09 DPXB	48SB TF09 FVPB
										green	48SB TF09 DPXG	48SB TF09 FVPG
										red	48SB TF09 DPXR	48SB TF09 FVPR
										yellow	48SB TF09 DPXY	48SB TF09 FVPY
	13 mm	21	68.5	25						Stand. Dis.	48SB TF13 DPX	48SB TF13 FVX
										blue	48SB TF13 DPXB	48SB TF13 FVPB
										green	48SB TF13 DPXG	48SB TF13 FVPG
										red	48SB TF13 DPXR	48SB TF13 FVPR
										yellow	48SB TF13 DPXY	48SB TF13 FVPY

Plugs

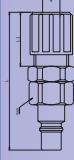


Male Thread

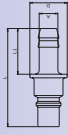


Female Thread

Plugs



for PVDf- and PE-Hoses



Hose Barb

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Color	Rectu POM Part Number	Rectu CHEM Part Number
G 3/4 o.		17	38.5	9							48SF AW13 DXH	48SF AW13 FXX
											48SF AW13 DPXB	48SF AW13 FXXB
											48SF AW13 DPXG	48SF AW13 FXXG
											48SF AW13 DPXR	48SF AW13 FXXR
											48SF AW13 DPXY	48SF AW13 FXXY

Nominal Diameter **4,3** = 15 mm²

71 KB series



Technical Description
The 71 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO 7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages
Simple, yet rugged construction guarantees the highest safety.

Applications
Sloppy water, chemistry, mechanical engineering, laboratory, food sector, ideal for applications with liquids.

Working Pressure
PB = 15 bar (at 50°C) maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

Coupling
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

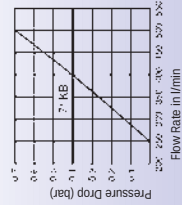
POM, white
POM, white
AISI 303
AISI 301
AISI 316
Buna N
AISI 301

Plug
Plug Profile
Valve
Spring
Seal
Spring Plate

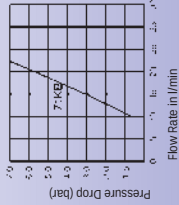
POM, white
AISI 303
AISI 301
Buna N
AISI 301

Chart

Air

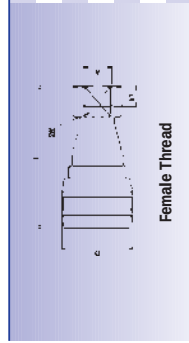


Water

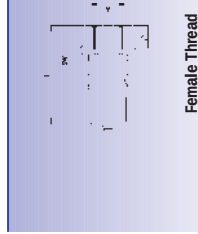


actual size

Coupling



Valved Plug



Connection A	Hex SW	L	D	L1	L2	Hexd SW1	B	G	Version	Part Number
G 1/8	14	48,5	25	7					Standard Design	71KB IW10 DPX

Connection A	Hex SW	L	D	L1	L2	Hexd SW1	B	G	Version	Part Number
G 1/8	14	29,5		7					Standard Design	71SB IW 10 DPX

Nominal Diameter **6** = 28 mm²

72 KB series



Technical Description
The 72 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO 7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages
Simple, yet rugged construction guarantees the highest safety.

Applications
Sloppy water, chemistry, mechanical engineering, laboratory, food sector, ideal for applications with liquids.

Working Pressure
PB = 15 bar (at 50°C) maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

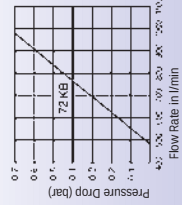
POM, white
POM, white
AISI 303
AISI 301
AISI 316
Buna N
AISI 301

Plug
Plug Profile
Valve
Spring
Spring Plate
Seal

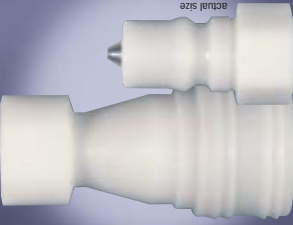
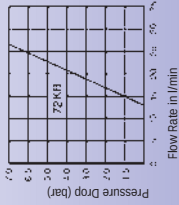
POM, white
AISI 303
AISI 301
Buna N

Chart

Air

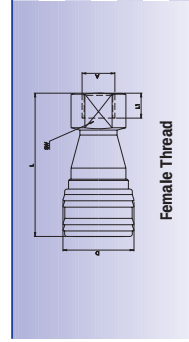


Water

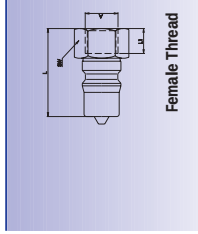


actual size

Coupling



Valved Plug



Connection A	Hex SW	L	D	L1	L2	Hexd SW1	B	G	Version	Part Number
G 1/4	19	57,5	29	11,5					Standard Design	72KB IW13 DPX

Connection A	Hex SW	L	D	L1	L2	Hexd SW1	B	G	Version	Part Number
G 1/4	19	35		11,5					Standard Design	72SB IW13 DPX

Nominal Diameter **7,5** = 44 mm²

73 KB series

Technical Description

The 73 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages

Simple, yet rugged construction guarantees the highest safety.

Applications

Sloppy water, chemistry, mechanical engineering, laboratory, food sector. Ideal for applications with liquids.

Working Pressure

PB = 15 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®)
0°C up to +90°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

Coupling

Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

POM, white
POM, white
AISI 303
AISI 301
AISI 316
Buna N
AISI 301

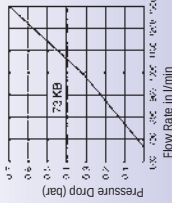
Plug

Plug Profile
Valve
Spring
Spring Plate
Seal

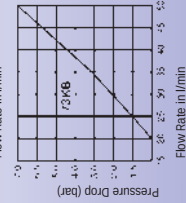
POM, white
AISI 303
AISI 301
AISI 301
Buna N

Chart

Air

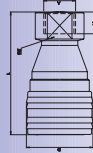


Water



Coupling

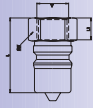
Connection A	Hex SW	L	D	L1	L2	Hex SW1	B	G	Version	Part Number
G 3/8	22	64	35	12,5					Standard Design	73KB IW17 DPX



Female Thread

Valved Plug

Connection A	Hex SW	L	D	L1	L2	Hex SW1	B	G	Version	Part Number
G 3/8	22	39		12,5					Standard Design	73SB IW17 DPX



Male Thread

Nominal Diameter **11** = 95 mm²

74 KB series

Technical Description

The 74 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages

Simple, yet rugged construction guarantees the highest safety.

Applications

Sloppy water, chemistry, mechanical engineering, laboratory, food sector. Ideal for applications with liquids.

Working Pressure

PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®)
0°C up to +90°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

Coupling

Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

POM, white
POM, white
AISI 303
AISI 301
AISI 316
Buna N
AISI 301

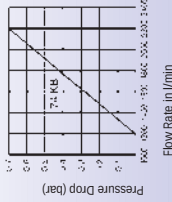
Plug

Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

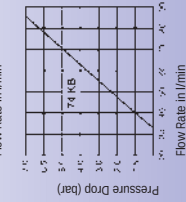
POM, white
AISI 303
AISI 301
AISI 301
Buna N

Chart

Air



Water



Coupling

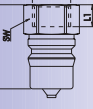
Connection A	Hex SW	L	D	L1	L2	Hex SW1	B	G	Version	Part Number
G 1/2	27	76	44	16					Standard Design	74KB IW21 DPX



Female Thread

Valved Plug

Connection A	Hex SW	L	D	L1	L2	Hex SW1	B	G	Version	Part Number
G 1/2	27	48		16					Standard Design	74SB IW21 DPX



Female Thread

Nominal Diameter **13** = 133 mm²

75 KB series



Technical Description
The 75 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages
Simple, yet rugged construction guarantees the highest safety.

Applications
Sloppy water, chemistry, mechanical engineering, laboratory, food sector, ideal for applications with liquids.

Working Pressure
PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®)
0°C up to +90°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

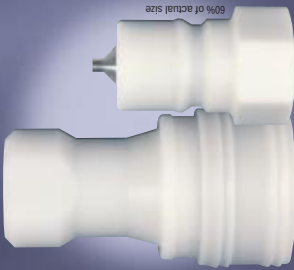
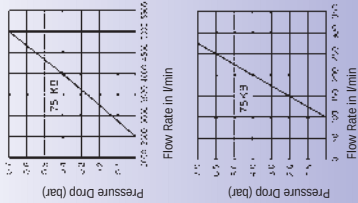
Standard Version

Material

Coupling
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Plug
Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

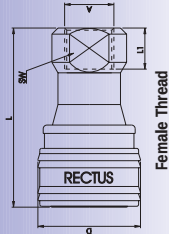
Chart



60% of actual size

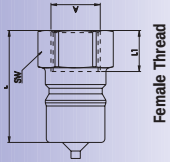
Coupling

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4		34	96	55	24					Standard Design	75KB IW26 DPX



Valved Plug

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/4		36	60		24					Standard Design	75SB IW26 DPX



Nominal Diameter **20** = 314 mm²

76 KB series



Technical Description
The 76 KB series is a double shut-off hydraulic coupling used for liquid mediums. The plug profile is manufactured in accordance with ISO-7241-1, series B. All individual parts are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Advantages
Simple, yet rugged construction guarantees the highest safety.

Applications
Sloppy water, chemistry, mechanical engineering, laboratory, food sector, ideal for applications with liquids.

Working Pressure
PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Temperaturbereich*
-20°C up to +90°C (Buna N)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (Viton®)
0°C up to +90°C (Kalrez®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

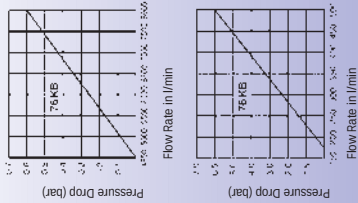
Standard Version

Material

Coupling
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate, Locking Ring

Plug
Plug Profile
Valve
Spring and Locking Ring
Spring Plate
Seal

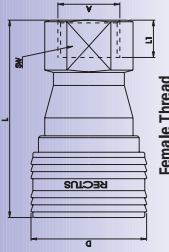
Chart



55% of actual size

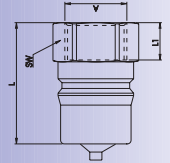
Coupling

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1		41	105,5	65	24					Standard Design	76KB IW33 DPX



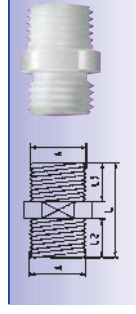
Valved Plug

Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1		41	65		24					Standard Design	76SB IW33 DPX



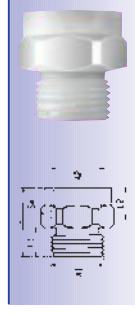
Fittings

Male x Male Nipple



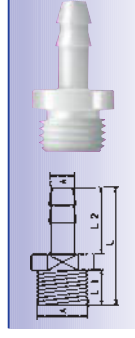
Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x G 1/8	14	19	8	7					DN 13/10DX	DN 13/10FX
G 1/4 x G 1/4	14	19	8	7					DN 13/13DX	DN 13/13FX
G 3/8 x G 1/4	17	28,5	9	9					DN17/13DX	DN 17/13FX
G 3/8 x G 3/8	21	25	9						DN 17/17DX	DN 17/17FX
G 3/8 x G 1/2	21	31,5	9	12					DN 17/21DX	DN 17/21FX

Male x Female Nipple



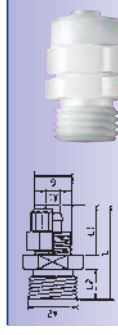
Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x G 1/8	14	22	8	8					RL 13/10DX	RL 13/10FX
G 1/4 x G 1/4	17	25	8	10					RL 13/13DX	RL 13/13FX
G 3/8 x G 1/4	17	21,5	9	10					RL17/13DX	RL 17/13FX
G 3/8 x G 3/8	21	21,5	9	10					RL 17/17DX	RL 17/17FX
G 3/8 x G 1/2	21	32,5	9	13					RL 17/21DX	RL 17/21FX

Hose Talle Adaptor



Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x 4 mm	14	29	8	17					GT 13/04DX	GT 13/04FX
G 1/4 x 6 mm	14	29	8	17					GT 13/06DX	GT 13/06FX
G 3/8 x 6 mm	17	39	9	22					GT17/06DX	GT 17/06FX
G 3/8 x 9 mm	17	39	9	22					GT 17/09DX	GT 17/09FX
G 3/8 x 13 mm	17	42	9	25					GT 17/13DX	GT 17/13FX

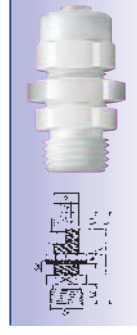
Plastic Screw Connector



Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x 4 x 6 mm	14	25	8	13				M 10 x 1	EV 13/06 DX	EV 13/06 FX04*
G 1/4 x 6 x 8 mm	14	25	8	13				M 12 x 1	EV 13/08 DX	EV 13/08 FX06*
G 3/8 x 6 x 8 mm	22	38	21	9				M 12 x 1		EV 17/08 FX06
G 3/8 x 9 x 12 mm	22	45	28	9				M 12 x 1		EV 17/12 FX09
G 3/8 x 10 x 12 mm	22	45	28	9				M 12 x 1		EV 17/12 FX10

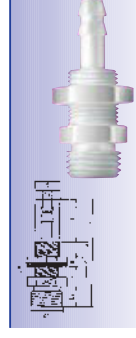
*connection for PVDF or PE hoses

Panel Mount, Plastic Hose Connection



Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x 4 x 6 mm	14	37	7	8	18	14	4	M 10 x 1	EK 13/06 DX	EK 13/06 FX
G 1/4 x 6 x 8 mm	14	37	7	8	18	17	4	M 12 x 1	EK 13/08 DX	EK 13/08 FX

Panel Mount, Standard Hose Connection



Connection A	Hex SW	L	L1	L2	L3	Hex1 SW1	B	G	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x 4 mm	14	43	7	8	14	14	4	M 10 x 1	ET 13/04 DX	ET 13/04 FX
G 1/4 x 6 mm	14	43	8	8	14	17	4	M 12 x 1	ET 13/06 DX	ET 13/06 FX

Sensible decisions –
successful solutions.
RECTUS quick connect
couplings made of
thermoplastic.

RECTUS[®]

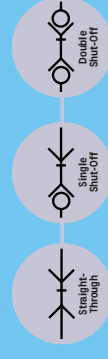
The coolant supply for machines or tool manufacturing areas is an exceptionally complex system that must work without any malfunctions. Above all, the highest degree of functional safety is required at problematic connecting positions in the water circulation system. Because of this, the RECTUS range covers a complete series of state-of-the-art, standard quick connect couplings and inter-connecting components which are ideally suited for the majority of applications. In addition to this, RECTUS is an experienced partner for the development of special, tailor made solutions. Get in touch with us, we would be delighted to help you!

Applications:
Water cooling
Tool manufacturing
Plastics mold machinery
Plastics cast machinery
Machine construction

Moldtite

RECTUS Moldtite quick connect couplings with an extended sleeve were especially developed for connecting coolant ducts and injection molds. Connecting and disconnecting using the countersunk plugs is completely trouble-free and damage to injection molds is all but eliminated. Different angles prevent kinks from forming in the hoses and guarantee a consistent flow of coolant.

Quick Connect Couplings for Water Based Applications



MultiFlo

Time is money! MultiFlo is time saved. You can connect a complete set of hoses in a single working operation in just a few seconds using this compact modular system. It is the ideal solution for cooling with water using different circulation systems, e.g. in plastics processing.

Nominal Diameter **10** = 80 mm²

41 series

Technical Description

The 41 series was developed as a water coupling without a shut-off valve and is suitable for pressure up to 35 bar. All individual parts are manufactured from non-rusting materials (e.g. brass), eliminating the risk of corrosion.

Advantages

Since there is no valve, single handed operation is not possible and the sleeve must be manually pulled back when connecting.

Applications

Machinery plant construction, mechanical engineering, for liquid mediums (preferred water).

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to 200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Brass, Nickel Plated
Brass, Nickel Plated

Spring and Locking Ring
Locking Balls
Seals

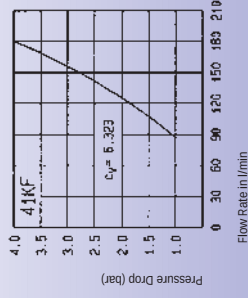
Plug

Brass, Nickel Plated

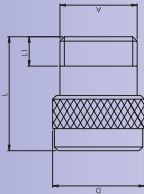


Chart

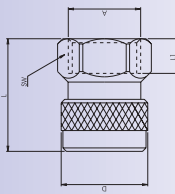
Water



Couplings



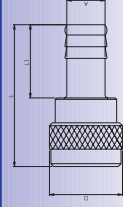
Male Thread



Female Thread

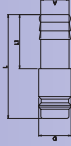
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	31	25	8						Standard Design	41KF AW21 MPN
G 3/4	32,5	25	9						Standard Design	41KF AW26 MPN
G 1/2	24	32,5	25	10					Standard Design	41KF IW21 MPN
G 3/4	30	32,5	25	10					Standard Design	41KF IW26 MPN
M 22 x1	24	32,5	25	10					Standard Design	41KF IM22 MPN

Couplings

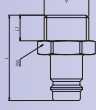


Hose Barb

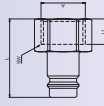
Plugs



Hose Barb



Male Thread



Female Thread

Use the reliable 24-hour
delivery service for RECTUS
products that are kept in
stock.

RECTUS



Nominal Diameter **11** = 60 mm²

42 series

Technical Description

The 42 series was developed as a water coupling without a shut-off valve and is suitable for pressure up to 35 bar. All individual parts are manufactured from non-rusting materials (e.g. brass), eliminating the risk of corrosion.

Advantages

Because of the pin locking system, this is a single hand operated coupling and is, therefore, considerably lighter and easier to connect. Connections can easily be made in areas with limited accessibility.

Applications

Machinery plant construction, mechanical engineering, for liquid mediums (preferred water).

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Brass, Chrome Plated
Brass, Chrome Plated

AISI 301
AISI 420
Buna N

Brass, Chrome Plated

Material

Coupling
Back Body
Sleeve

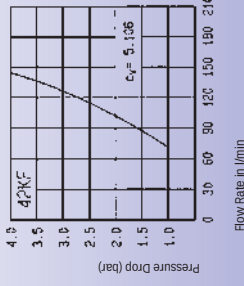
Spring and Locking Ring
Locking Balls
Seals

Plug

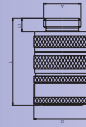


Chart

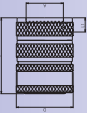
Water



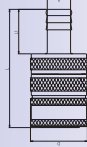
Couplings



Male Thread



Female Thread



Hose Barb

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Male Thread	G 1/2	49	32	7.5					Standard Design	42KF AW21 MPC
	G 3/4	49	32	7.5					Standard Design	42KF AW26 MPC
Female Thread	G 1/2	34	32	8					Standard Design	42KF IW21 MPC
	G 3/4	30	32	8					Standard Design	42KF IW26 MPC
Hose Barb	9 mm	55	32	25					Standard Design	42KF TF09 MPC
	13 mm	55	32	25					Standard Design	42KF TF13 MPC
	19 mm	55	32	25					Standard Design	42KF TF19 MPC

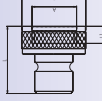
Plugs



Hose Barb



Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Hose Barb	9 mm	43.5	18	25					Standard Design	42SF TF09 MXC
	13 mm	43.5	18	25					Standard Design	42SF TF13 MXC
	19 mm	43.5	22	25					Standard Design	42 SF TF19 MXC
Male Thread	G 1/2	24	35.5	12					Standard Design	42SF AW21 MXC
	G 3/4	32	42.5	16					Standard Design	42SF AW26 MXC
Female Thread	G 1/2	31.5	30	8					Standard Design	42SF IW21 MXC
	G 3/4	31.5	30	8					Standard Design	42SF IW26 MXC

RECTUS quick connect couplings for water applications are the ideal connecting elements for cooling systems in plant and machine construction. They are significantly lighter than conventional water couplings and offer trouble-free operation thanks to their single hand operated locking system – even in hidden, inaccessible places.



RECTUS

Nominal Diameter **8,5** = 60 mm²

45 series

Technical Description

The 45 series was developed as a water coupling without a shut-off valve and is suitable for high pressure up to 150 bar. This brass version is safe for water and can be used for high pressure cleaners.

Advantages

This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Applications

Machinery plant construction, liquid mediums (preferred water).

Working Pressure

PB = 150 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Brass
Brass
AISI 301
AISI 420
Buna N
Steel Hardened, Nickel Plated

Material

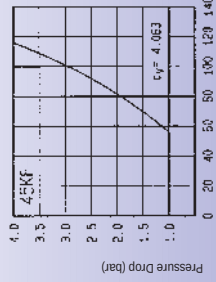
Coupling

Back Body
Sleeve
Spring and Locking Ring
Locking Balls
Seals

Plug

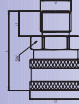
Chart

Water

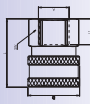


Couplings

Male Thread

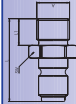


Female Thread

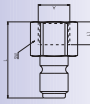


Plugs

Male Thread



Female Thread



Nominal Diameter **6** = 30 mm²

86 series

Technical Description

The 86, 87 and 88 RECTUS Molditte coupling series were especially developed for connecting coolant lines and injection molds. Countersunk plugs can easily be connected and disconnected because of the extended sleeve. The angular connections prevent kinks from forming in the hose.

Advantages

Available in single shut-off, double shut-off or straight-through versions. The shut-off couplings (with valve) are equipped with nickel-plated sleeves for quick and accurate visual differentiation.

Applications

Tools production.

Working Pressure

PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-15°C up to +200°C (Viton®)
depending on the medium.
* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

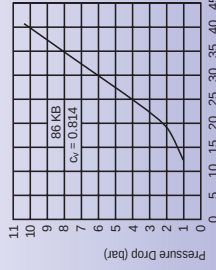
Brass
Brass
Brass (without Valve)
Brass, Nickel Plated (with Valve)
Sleeve
Brass
Valve
AISI 420
Viton®
AISI 301

Plug

Brass
Brass
Brass
AISI 301
Viton®
Spring and Locking Ring
Seal

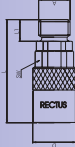
Chart

Water

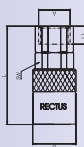


Couplings

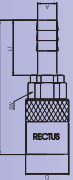
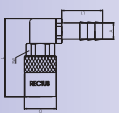
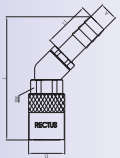
Male Thread



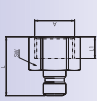
Female Thread



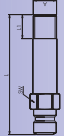
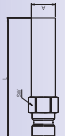
Couplings

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	6 mm		15	56	18	23					with valve	86KB TF06 MVX
	8 mm		15	56	18	23					without valve	86KF TF06 MVX
	9 mm										with valve	86KB TF08 MVX
	6 mm		15	56	18	23					without valve	86KF TF09 MVX
	6 mm		15	44	18	23					with valve	86KB TF06 MVX
	8 mm		15	44	18	23					without valve	86KF TF06 MVX
	9 mm		15	44	18	23					with valve	86KB TF08 MVX
	6 mm		15	60	18	23					without valve	86KB TF09 MVX
	8 mm		15	60	18	23					with valve	86KB TF06 MVX
	9 mm		15	60	18	23					without valve	86KF TF08 MVX
											with valve	86KB TF09 MVX

Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/4		14	28,5	14						with valve	86SB AK13 MVX
	G 1/4		14	28,5	14						with valve	86SB AW13 MVX
	R 3/8		17	26,5	12						without valve	86SF AW13 MXX
	G 1/8		14	21,5	7						without valve	86SF IW10 MXX
	G 1/4		17	23,5	9						without valve	86SF IW13 MXX
	G 3/8		19	24,5	11						without valve	86SF IW17 MXX

Extension Plugs

	Connection A		Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/8		11	100		9					without valve	86VN 1010 MXX
	R 1/8		11	150		25,5					without valve	86VN 1015 MXX
	R 1/8		11	200		25,5					without valve	86VN 1020 MXX
	10		11	50							without valve	86VN XX05 MXX
	10		11	100							without valve	86VN XX10 MXX
	10		11	150							without valve	86VN XX15 MXX
	10		11	200							without valve	86VN XX20 MXX
	10		11	250							without valve	86VN XX25 MXX

Nominal Diameter 9 = 64 mm² 87 series

Technical Description
The 86, 87 and 88 RECTUS Moldtite series were especially developed for connecting coolant lines and injection molds. Countersunk plugs can easily be connected and dis-connected because of the extended sleeve. The angular connection prevents kinks from forming in the hose.

Advantages
Available in single shut-off, double shut-off or straight-through versions. The shut-off couplings (with valve) are equipped with nickel-plated sleeves for quick and accurate visual differentiation.

Applications
Tools production.

Working Pressure
PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*
-15°C up to +20°C (Viton®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

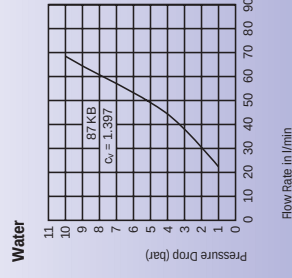
Standard Version

Material
Coupling
Back Body
Valve Body
Sleeve
Valve
Locking Balls
Seals
Spring and Locking Ring

Plug
Plug Profile
Adapter
Valve
Spring and Locking Ring
Seal

Material
Brass
Brass (without Valve)
Brass - Nickel Plated (with Valve)
Brass
AISI 420
Viton®
AISI 301

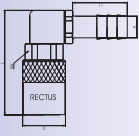
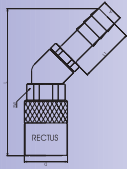
Chart



Couplings

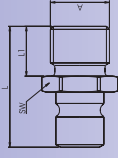
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 3/8	19	58	24	11					with valve without valve	87KB AW17 MVX 87KF AW17 MVX
G 1/4	19	52,5	24	9					with valve without valve	87KB IW13 MVX 87KF IW13 MVX
G 3/8	19	57	24	11					with valve without valve	87KB IW17 MVX 87KF IW17 MVX
9 mm	19	71	24	25					with valve without valve	87KB TF09 MVX 87KF TF09 MVX
11 mm	19	71	24	25					with valve without valve	87KB TF11 MVX 87KF TF11 MVX
13 mm	19	71	24	25					with valve without valve	87KB TF13 MVX 87KF TF13 MVX

Couplings

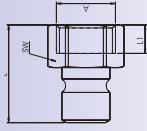


Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
9 mm	19	79	24	25					with valve	87KB TH09 MVX
									without valve	87KF TH09 MVX
	19	79	24	25					with valve	87KB TH11 MVX
11 mm									without valve	87KF TH11 MVX
	19	79	24	25					with valve	87KB TH13 MVX
13 mm									without valve	87KF TH13 MVX
	19	79	24	25					with valve	87KB TR09 MVX
9 mm	19	65	24	25					without valve	87KF TR09 MVX
									with valve	87KB TR11 MVX
11 mm	19	65	24	25					without valve	87KF TR11 MVX
									with valve	87KB TR13 MVX
13 mm	19	65	24	25					without valve	87KF TR13 MVX
									with valve	87KB TR13 MVX

Plugs



Male Thread



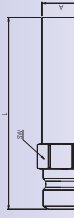
Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
R 1/4	14	33.5		14					with valve	87SB AK13 MVX
									without valve	87SF AK13 MVX
G 1/4	17	34		14					with valve	87SB AW13 MVX
									without valve	87SF AW13 MVX
R 3/8	17	32		12					with valve	87SB AK17 MVX
									without valve	87SF AK17 MVX
G 3/8	19	34		14					with valve	87SB AW17 MVX
									without valve	87SF AW17 MVX
R 1/2	22	39		17					with valve	87SB AK21 MVX
									without valve	87SF AK21 MVX
G 1/8	16	32		14					with valve	87SB IW10 MVX
									without valve	87SF IW10 MVX
G 1/4	17	27.5		10					with valve	87SB IW13 MVX
									without valve	87SF IW13 MVX
G 3/8	19	27.5		10					with valve	87SB IW17 MVX
									without valve	87SF IW17 MVX

Extension Plugs



Male Thread



without Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/4	15	100		25.5					without valve	87VN 1310 MXX
	15	150		12					without valve	87VN 1315 MXX
14	15	100							without valve	87VN XX10 MXX
	15	150							without valve	87VN XX15 MXX
14	15	200							without valve	87VN XX20 MXX
	15	250							without valve	87VN XX25 MXX

Nominal Diameter 13 = 133 mm²

88 series

Technical Description
The 86, 87 and 88 RECTUS Moldtite series were especially developed for connecting coolant lines and injection molds. Countersunk plugs can easily be connected and dis-connected because of the extended sleeve. The angled connection prevents kinks from forming in the hose.

Advantages
Available in single shut-off or straight-through versions. The shut-off couplings (with valve) are equipped with nickel-plated sleeves for quick and accurate visual differentiation.

Applications
Tools production.

Working Pressure
PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

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

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Material

Coupling

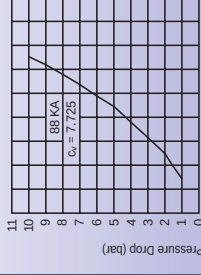
Back Body
Valve Body
Sleeve
Valve
Locking Balls
Seals
Spring and Locking Ring

Brass
Brass
Brass (without Valve)
Brass, Nickel Plated (with Valve)
Brass
AISI 420
Viton®
AISI 420
Brass

Plug

Chart

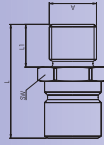
Water



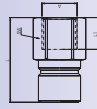
Couplings

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	28	75	30.5	12					with valve	88KA IW21 MVX
									without valve	88KF IW21 MVX
13 mm	28	90.5	30.5	28					with valve	88KA TF13 MVX
									without valve	88KF TF13 MVX
19 mm	28	93.5	30.5	32					with valve	88KA TF19 MVX
									without valve	88KF TF19 MVX
13 mm	28	82.5	30.5	28					with valve	88KA TR13 MVX
									without valve	88KF TR13 MVX
19 mm	28	82.5	30.5	32					with valve	88KA TR19 MVX
									without valve	88KF TR19 MVX

Plugs

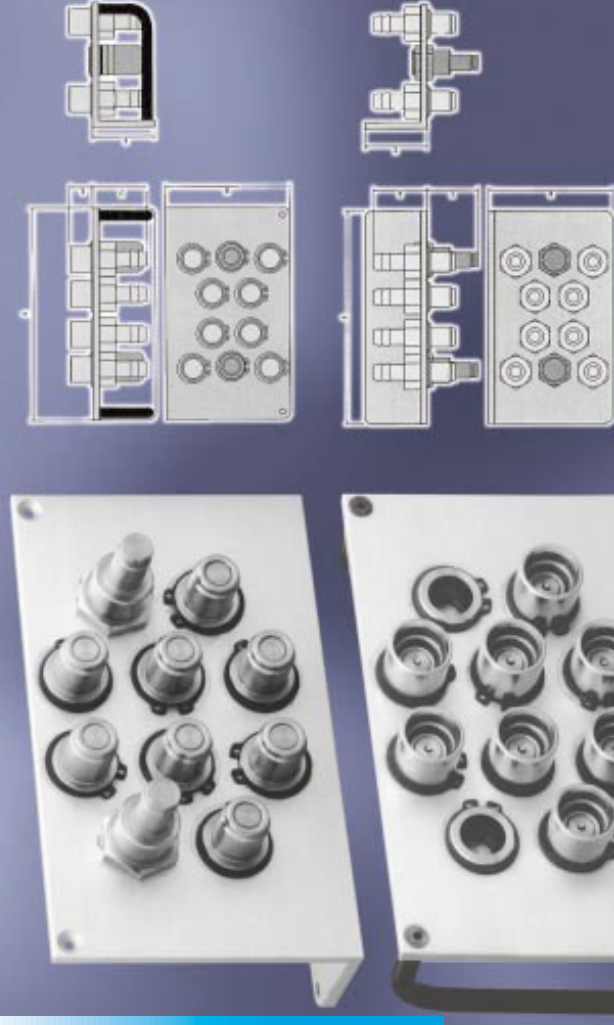


Male Thread



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
	R 1/4	22	38	12					without valve	88SF AK13 MXX
	R 3/8	22	38	12					without valve	88SF AK17 MXX
	G 3/8	15	40	22					without valve	88SF AW17 MXX
	R 1/2	22	43	17					without valve	88SF AK21 MXX
	G 1/2	22	45	20					without valve	88SF AW21 MXX
	R 3/4	27	45	19					without valve	88SF AK26 MXX
	G 3/8	22	40	15					without valve	88SF IW17 MXX
	G 1/2	24	45	19					without valve	88SF IW21 MXX



RECTUS Multiflo couplings and connectors are complete systems that are ideally tailored to the processing of plastics – but are also very frequently used in special applications with gaseous mediums. Simply ask us – we shall be pleased to give you comprehensive advice.

Nominal Diameter 8,1 = 52 mm² 08 series



40% of actual size

Technical Description

The 08 KL series is a multi-coupling used for connecting complete sets of hoses for liquid as well as gaseous mediums. The standard version consists of a flaring plate fitted with 8 quick connect couplings, 2 handles and 2 locking bolts. The layout is asymmetrical to avoid mixing up the circulation systems.

Advantages

The safety locking system prevents unintentional disconnection. In addition to the double shut-off, dry break version, this system is also available in single shut-off or straight through versions.

Applications

In the field of water cooling, for example, modulate machines and plastic forming.

Working Pressure

PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (Buna N)
-40°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kalrez®) depending on the medium.

*At a temperature below -20°C and above +150°C special seals are available on request.

Material

Coupling

Plate with 2 Handles
8 Multi-Couplings
Back Body
Valve Body
Inner Parts
Springs
Seals
Locking Rings
Locking Couplings

Plug

Plate
8 Multi-Plugs
Back Body
Plug
Inner Parts
Springs
Seals
Locking Rings
Locking Bolts

Aluminium, ebx.

Brass, Nickel Plated
Steel Hardened, DMC-PTFE-coated
Brass
AISI 301
Viton®

AISI 301
Steel Hardened, Nickel Plated

Aluminium, ebx.

Brass, Nickel Plated
Steel Hardened, DMC-PTFE-coated
Brass
AISI 301
Viton®

AISI 301
Steel Hardened, Nickel Plated

Couplings

Connection A	A	B	C	D	E	F	G	H	L	Version	Part Number
	G 1/2	170	100	50	29	18				with valve without valve	08KL IW21 SVN 08KF IW21 SVN
	9 mm	170	100	50	36	18				with valve without valve	08KL TF09 SVN 08KF TF09 SVN
13 mm	170	100	50	42	18					with valve without valve	08KL TF13 SVN 08KF TF13 SVN

Plugs

Connection A	A	B	C	D	E	F	G	H	L	Version	Part Number
	G 1/2	170	100	50	29	46				with valve without valve	08SL IW21 SVN 08SF IW21 SXN
9 mm	170	100	50	36	46					with valve without valve	08SL TF09 SVN 08SF TF09 SXN
13 mm	170	100	50	42	46					with valve without valve	08SL TF13 SVN 08SF TF13 SXN

Nominal Diameter **8₁** = 52 mm²

93 series

Technical Description

The 93 series is a modular coupling and plug without an integrated locking system for installation in multi-coupling systems. The complete multi-coupling is offered under our 08 series product name. The important sliding parts are coated with Teflon to reduce frictional resistance as much as possible.

Advantages

Available in single shut-off, double shut-off with dry break or straight through versions.

Applications

Series 93 are the parts of the multi-coupling series 08.

Working Pressure

PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

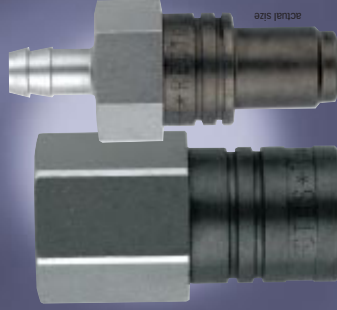
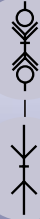
-15°C up to +100°C (Buna N)
-30°C up to +120/150°C (EPDM)
-15°C up to +200°C (Viton®)
0°C up to +316°C (Kaltrez®) depending on the medium.

* At a temperature below -20°C and above +150°C special seals are available on request.

Standard Version

Brass, Nickel Plated
Steel Hardened and teflonized
Valve
Brass
AISI 420
Viton®

Brass, Nickel Plated
Steel Hardened and teflonized
Valve
Brass
AISI 420
Viton®



actual size

Information requested?

Would you like to send the latest RECTUS catalog to a colleague? No problem! Simply copy this page, fill it in and fax it to RECTUS. We will see to it that the catalog is sent without delay.



Please send the RECTUS catalog to the following address(es):

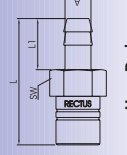
Name _____
Company _____
Dept. _____
Street/No. _____
Postcode/City _____

Fax to RECTUS +49 (0) 7042 / 100-80



Couplings

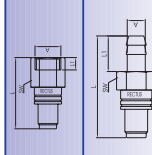
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	24	55		10.1					with valve	93KL IW21 SVN
	24	55		10.1					without valve	93KF IW21 SVN
9 mm	24	61		17					with valve	93KL TF09 SVN
	24	61		17					without valve	93KF TF09 SVN
13 mm	24	69		25					with valve	93KL TF13 SVN
	24	69		25					without valve	93KF TF13 SVN



Hose Barb

Valved Plugs

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
G 1/2	24	57.5		10.1					with valve	93SL IW21 SVN
	24	57.5		10.1					without valve	93SF IW21 SVN
9 mm	24	63.5		17					with valve	93SL TF09 SVN
	24	63.5		17					without valve	93SF TF09 SVN
13 mm	24	69.5		25					with valve	93SL TF13 SVN
	24	69.5		25					without valve	93SF TF13 SVN

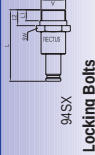


Female Thread

Hose Barb

Locking Coupling and Bolt

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
94KX		45								94KX
94SX	24	58		13						94SX



Locking Couplings

94KX

94SX

Locking Bolts

Wrong connection? In many applications this can have disastrous results! Therefore, RECTUS designed a coding system many years ago which reliably prevents connections from being mixed up. We offer industrial solutions that have been successfully used for many years and also can develop tailor-made coding processes according to your specifications.

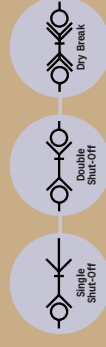
Rectukey

With this coded coupling system (series 21 KA and 25 KA) mixing up different mediums is completely eliminated. The couplings differ – both in construction and in color – making wrong connections impossible.

Applications:
Laboratories
Gas providing
Filling systems
Learning systems
Breathing air
Chemical industry
Pharmaceutics
Aerospace industry



Quick Connect Couplings Rectukey



Nominal Diameter **5** = 20 mm²

21 KA series

Technical Description

The 21 KA series is a small, single handed, quick connect coupling with high air flow. This series has excellent capabilities wherever space plays a major role. The 21 series provides an excellent solution for the connection of different mediums with the inherent danger of making the wrong connection. Four standard codes with matching colors for the coupling and the respective plugs make sure there is no mix-up

of the mediums when connecting. Double shut-off and straight through couplings are available upon request.

Advantages

A quality coupling with small dimensions. Single handed operation, high flow rate for its size. Multiple connection options. Cannot be inter-connected with the standard 21 series.

Applications
Laboratories, gas providing, presentation, learning systems, filling systems, breathing air, chemistry, just to avoid a mix of various mediums.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

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

Material

Coupling

Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals

Standard Version

Brass
Brass
Aluminium elox.
Brass
Stainless Steel, AISI 301
Stainless Steel, AISI 420
Buna N

Additional Version

Nickel Plated
Brass, Nickel Plated
Aluminium elox.
Brass
AISI 301
AISI 420
Buna N

Plug

Brass with anodized aluminium designation

see Part Number
MPX, MXX

Brass, Nickel Plated with anodized aluminium designation

see Part Number
MPN, MXN

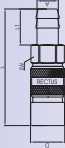
Couplings



Male Thread



Female Thread

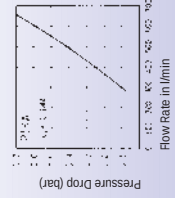


Hose Barb

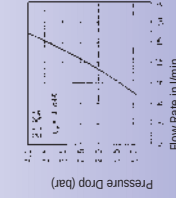
A	Hex SW	L	D	L1	L2	B	G	green Part Number	brown Part Number	blue Part Number	red Part Number
G 1/8	14	47	16	7				21KA AW10 MPX0	21KA AW10 MPX3	21KA AW10 MPX6	21KA AW10 MPX8
								21KA AW10 MPN0	21KA AW10 MPN3	21KA AW10 MPN6	21KA AW10 MPN8
								21KA AW13 MPX0	21KA AW13 MPX3	21KA AW13 MPX6	21KA AW13 MPX8
								21KA AW13 MPN0	21KA AW13 MPN3	21KA AW13 MPN6	21KA AW13 MPN8
G 1/4	17	47	16	9				21KA IW10 MPX0	21KA IW10 MPX3	21KA IW10 MPX6	21KA IW10 MPX8
								21KA IW10 MPN0	21KA IW10 MPN3	21KA IW10 MPN6	21KA IW10 MPN8
								21KA IW13 MPX0	21KA IW13 MPX3	21KA IW13 MPX6	21KA IW13 MPX8
								21KA IW13 MPN0	21KA IW13 MPN3	21KA IW13 MPN6	21KA IW13 MPN8
4 mm	14	69	16	17				21KA TF04 MPX0	21KA TF04 MPX3	21KA TF04 MPX6	21KA TF04 MPX8
								21KA TF04 MPN0	21KA TF04 MPN3	21KA TF04 MPN6	21KA TF04 MPN8
								21KA TF06 MPX0	21KA TF06 MPX3	21KA TF06 MPX6	21KA TF06 MPX8
								21KA TF06 MPN0	21KA TF06 MPN3	21KA TF06 MPN6	21KA TF06 MPN8
6 mm	14	69	16	17				21KA TF08 MPX0	21KA TF08 MPX3	21KA TF08 MPX6	21KA TF08 MPX8
								21KA TF08 MPN0	21KA TF08 MPN3	21KA TF08 MPN6	21KA TF08 MPN8
								21KA TF09 MPX0	21KA TF09 MPX3	21KA TF09 MPX6	21KA TF09 MPX8
								21KA TF09 MPN0	21KA TF09 MPN3	21KA TF09 MPN6	21KA TF09 MPN8
9 mm	14	69	16	17				21KA TF10 MPX0	21KA TF10 MPX3	21KA TF10 MPX6	21KA TF10 MPX8
								21KA TF10 MPN0	21KA TF10 MPN3	21KA TF10 MPN6	21KA TF10 MPN8

Chart

Air



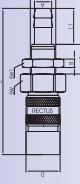
Water



Couplings



Plastic Hose Connection

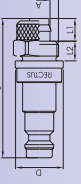


Panel Mount, Hose Barb

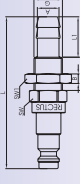
Plugs



Hose Barb



Plastic Hose Connection



Panel Mount, Hose Barb

Plugs



Male Thread



Female thread

Nominal Diameter **7,8** = 48 mm²

25 KA series

Technical Description

The 25 series "ULTRA-FLO" valve enables this single handed, quick connect coupling to be used in applications where higher flow rates are required. Although similar to the 21 series, the 25 series is an excellent solution for the problem of connecting different mediums. Four standard codes matching the coupling and the respective plug ensure that mediums are not mixed up when connecting. Double shut-off and straight through couplings are available upon request. Cannot be inter-connected with the standard 25 series.

Advantages

A quality coupling with compact dimensions. Single handed operation, high flow rate for its size. Multiple options for connecting.

Applications

Laboratories, gas providing, presentation, learning systems, filling systems, breathing air, chemistry, just to avoid a mix of various mediums.

Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature

-20°C up to +100°C (Buna N)

Standard Version

Brass
Brass
Aluminium, elox.
Zinc Die-Casting, Nickel Plated
AISI 301
AISI 420
Buna N

Additional Version
Nickel Plated

Brass, Nickel Plated
Brass, Nickel Plated
Aluminium, elox.
Zinc Die-Casting, Nickel Plated
AISI 301
AISI 420
Buna N

Plug

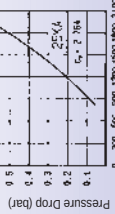
Brass
with anodized aluminium designation

see Part Number
MPX, MXX

Brass, Nickel Plated
with anodized aluminium designation

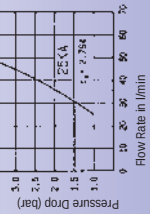
see Part Number
MPN, MXN

Chart

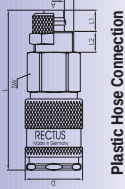


Air

Water



Couplings



Plastic Hose Connection

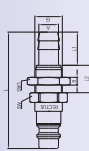
Plugs



Hose Barb

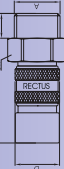


Plastic Hose Connection

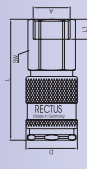


Panel Mount, Hose Barb

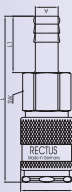
Plugs



Male Thread



Female Thread



Hose Barb

Couplings

A	Hex SW	L	D	L1	L2	Head SW	B	G	green Part Number	brown Part Number	blue Part Number	red Part Number
G 1/4	19	60	23	12					25KA IW13 BPXO	25KA AW13 BPX3	25KA AW13 BPX6	25KA AW13 BPX8
									25KA AW13 BPNO	25KA AW13 BPX3	25KA AW13 BPX6	25KA AW13 BPX8
G 3/8	19	60	23	12					25KA IW17 BPXO	25KA AW17 BPX3	25KA AW17 BPX6	25KA AW17 BPX8
									25KA IW17 BPNO	25KA AW17 BPX3	25KA AW17 BPX6	25KA AW17 BPX8
G 1/2	22	61	23	17					25KA IW21 BPXO	25KA AW21 BPX3	25KA AW21 BPX6	25KA AW21 BPX8
									25KA IW21 BPNO	25KA AW21 BPX3	25KA AW21 BPX6	25KA AW21 BPX8
G 1/4	19	55	23	10					25KA IW13 BPXO	25KA IW13 BPX3	25KA IW13 BPX6	25KA IW13 BPX8
									25KA IW17 BPXO	25KA IW17 BPX3	25KA IW17 BPX6	25KA IW17 BPX8
G 3/8	19	55	23	9					25KA IW17 BPXO	25KA IW17 BPX3	25KA IW17 BPX6	25KA IW17 BPX8
									25KA IW17 BPNO	25KA IW17 BPX3	25KA IW17 BPX6	25KA IW17 BPX8
G 1/2	24	58	23	12					25KA IW21 BPXO	25KA IW21 BPX3	25KA IW21 BPX6	25KA IW21 BPX8
									25KA IW21 BPNO	25KA IW21 BPX3	25KA IW21 BPX6	25KA IW21 BPX8
6 mm	19	74	23	25					25KA TF06 BPXO	25KA TF06 BPX3	25KA TF06 BPX6	25KA TF06 BPX8
									25KA TF06 BPNO	25KA TF06 BPX3	25KA TF06 BPX6	25KA TF06 BPX8
9 mm	19	74	23	25					25KA TF09 BPXO	25KA TF09 BPX3	25KA TF09 BPX6	25KA TF09 BPX8
									25KA TF09 BPNO	25KA TF09 BPX3	25KA TF09 BPX6	25KA TF09 BPX8
13 mm	19	74	23	25					25KA TF13 BPXO	25KA TF13 BPX3	25KA TF13 BPX6	25KA TF13 BPX8
									25KA TF13 BPNO	25KA TF13 BPX3	25KA TF13 BPX6	25KA TF13 BPX8

A	Hex SW	L	D	L1	L2	Head SW	B	G	green Part Number	brown Part Number	blue Part Number	red Part Number
6x8 mm	19	61	23	7	6			M 12 x 1	25KA KO08 BPXO	25KA KO08 BPX3	25KA KO08 BPX6	25KA KO08 BPX8
									25KA KO08 BPNO	25KA KO08 BPX3	25KA KO08 BPX6	25KA KO08 BPX8
8x10 mm		65		9	8			M 16 x 1	25KA KO10 BPXO	25KA KO10 BPX3	25KA KO10 BPX6	25KA KO10 BPX8
									25KA KO10 BPNO	25KA KO10 BPX3	25KA KO10 BPX6	25KA KO10 BPX8
10x12 mm		65		9	8			M 16 x 1	25KA KO12 BPXO	25KA KO12 BPX3	25KA KO12 BPX6	25KA KO12 BPX8
									25KA KO12 BPNO	25KA KO12 BPX3	25KA KO12 BPX6	25KA KO12 BPX8

A	Hex SW	L	D	L1	L2	Head SW	B	G	green Part Number	brown Part Number	blue Part Number	red Part Number
6 mm		50,5	15	25					26SF TF06 MXXO	26SF TF06 MXX3	26SF TF06 MXX6	26SF TF06 MXX8
									26SF TF06 MXXO	26SF TF06 MXX3	26SF TF06 MXX6	26SF TF06 MXX8
9 mm		50,5	15	25					26SF TF09 MXXO	26SF TF09 MXX3	26SF TF09 MXX6	26SF TF09 MXX8
									26SF TF09 MXXO	26SF TF09 MXX3	26SF TF09 MXX6	26SF TF09 MXX8
13 mm		50,5	15	25					26SF TF13 MXXO	26SF TF13 MXX3	26SF TF13 MXX6	26SF TF13 MXX8
									26SF TF13 MXXO	26SF TF13 MXX3	26SF TF13 MXX6	26SF TF13 MXX8
6x8 mm		43,5		7	6			M 12 x 1	26SF KO08 MXXO	26SF KO08 MXX3	26SF KO08 MXX6	26SF KO08 MXX8
									26SF KO08 MXXO	26SF KO08 MXX3	26SF KO08 MXX6	26SF KO08 MXX8
8x10 mm		17	43,5	8,5	8,5			M 16 x 1	26SF KO10 MXXO	26SF KO10 MXX3	26SF KO10 MXX6	26SF KO10 MXX8
									26SF KO10 MXXO	26SF KO10 MXX3	26SF KO10 MXX6	26SF KO10 MXX8
6 mm		17	60	17	14	17	4	M 12 x 1	26SF TS06 MXXO	26SF TS06 MXX3	26SF TS06 MXX6	26SF TS06 MXX8
									26SF TS06 MXXO	26SF TS06 MXX3	26SF TS06 MXX6	26SF TS06 MXX8
9 mm		17	60	17	14	17	4	M 14 x 1	26SF TS09 MXXO	26SF TS09 MXX3	26SF TS09 MXX6	26SF TS09 MXX8
									26SF TS09 MXXO	26SF TS09 MXX3	26SF TS09 MXX6	26SF TS09 MXX8
13 mm		19	68	25	14	19	4	M 16 x 1	26SF TS13 MXXO	26SF TS13 MXX3	26SF TS13 MXX6	26SF TS13 MXX8
									26SF TS13 MXXO	26SF TS13 MXX3	26SF TS13 MXX6	26SF TS13 MXX8

Nominal Diameter

7,4 = 42 mm²

65-67 series

Technical Description
The 65 - 67 series are quick connect couplings designed for use as pressure regulators for fuel gas and oxygen as well as welding torches.

Advantages
Our "Rectukey" coding system prevents mixing up mediums. Up to three different mediums can be safely (non-interchangeable) connected with the standard version. The 65 - 67 series can be equipped with both a safety locking system (ensures that an unintentional disconnection cannot occur) as well as without a safety locking system.

Material
Coupling
Valve Body
Sleeve
Back Body
Valve
Spring and Locking Ring
Locking Balls

Standard Version
Brass, ungreased
Brass, ungreased
Brass, ungreased
Brass, ungreased
Stainless Steel, AISI 301
Stainless Steel, AISI 420

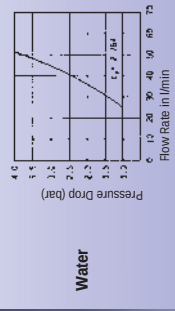
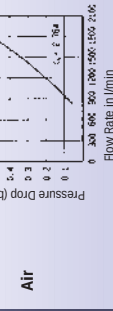
Plug Brass ungreased
Dust Cap on request

Applications
Laboratories, gas providing, presentation, learning systems, filling systems, breathing air, chemistry, just to avoid a mix of various mediums.

Working Pressure
PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

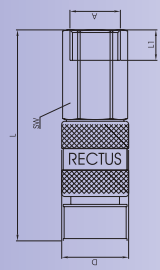
Working Temperature
-20°C up to +100°C
(Buna N) depending on the medium.

Chart

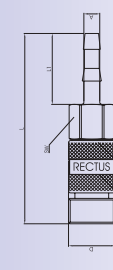


50% of actual size

Couplings



Female Thread



Hose Barb

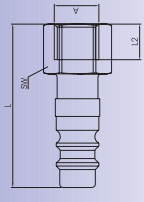
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Oxygen	19	69,5	22	10					Standard Design	65KS IW13 MVX
G 1/4 right	19	69,5	22	9					Standard Design	65KS IW17 MVX
G 3/8 right										
Fuel Gas										
G 1/4 left	19	69,5	22	10					Standard Design	66KS IL13 MEX
G 3/8 left	19	69,5	22	10					Standard Design	66KS IL17 MEX
Var. Mediums										
G 1/4 left	19	69,5	22	10					Standard Design	67KS IL13 MVX
G 3/8 left	19	69,5	22	10					Standard Design	67KS IL17 MVX
Oxygen										
6 mm	19	90	22	33					Standard Design	65KS TF06 MVX
9 mm	19	90	22	33					Standard Design	65KS TF09 MVX
Fuel Gas										
6 mm	19	90	22	33					Standard Design	66KS TF06 MEX
9 mm	19	90	22	33					Standard Design	66KS TF09 MEX
Var. Mediums										
6 mm	19	90	22	33					Standard Design	67KS TF06 MVX
9 mm	19	90	22	33					Standard Design	67KS TF09 MVX

Plugs



Hose Barb

Plugs



Female Thread

Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	G	Version	Part Number
Oxygen										
G 1/4 right	17	46		10					Standard Design	65SS IW13 MXX
G 3/8 right	19	46		10					Standard Design	65SS IW17 MXX
Fuel Gas										
G 1/4 left	17	46		10					Standard Design	66SS IL13 MXX
G 3/8 left	19	46		10					Standard Design	66SS IL17 MXX
Var. Mediums										
G 1/4 left	17	46		10					Standard Design	67SS IL13 MXX
G 3/8 left	19	46		10					Standard Design	67SS IL17 MXX

The 65 series. The unmistakable encoded coupling for oxygen lines.

The 66 series. The coupling for gas lines. Not to be interchangeable with the oxygen connection.

The 67 series. The third coupling is intended for various other mediums. The round connection effectively prevents wrong connections.

Nominal Diameter **8 = 50 mm²**

99 KL series



Technical Description

With the 99 KL series, both the coupling as well as the plug are equipped with a dry-break valve system. During the connection process, the plug and the coupling seals prior to open both valves. Both valves close simultaneously when disconnected, allowing the coupling and plug to be separated afterward. This ensures minimum leakage. Cannot be connected

with any other design in this series. All individual parts are electro-burnished.

Advantages

Coded via two lateral grooves on the plug and a similar guide in the coupling, which are arranged in different angular degrees. The 8-way coding is standard.

Applications

Mechanical engineering, plant machinery, chemistry.

Working Pressure

PB = 6 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature

0°C up to +316°C (Kaltrez®) depending on the medium.

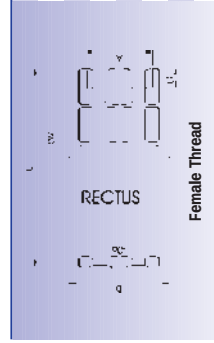
Informations about the Plug Protection Cap (Part-No. SK 99 CXXS) on request.

Standard Version

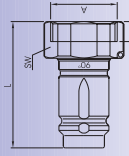
Material
Coupling
Back Body
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Valve Stem Guide
Threaded Nut

Plug
Plug Profile
Valve Stem Guide
Valve
Spring
Seals
Threaded Nut

Couplings

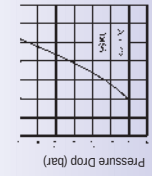


Valved Plugs

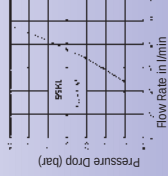


Chart

Air



Water



Connection A	Hex SW	L	D	L1	L2	Hexl SW1	B	G	Version	Part Number
M 30 x 2/30°	34	89	45	9					Standard Design	99KL IM30 CKX30
M 30 x 2/45°									Standard Design	99KL IM30 CKX45
M 30 x 2/60°									Standard Design	99KL IM30 CKX60
M 30 x 2/75°									Standard Design	99KL IM30 CKX75
M 30 x 2/90°									Standard Design	99KL IM30 CKX90
M 30 x 2/105°									Standard Design	99KL IM30 CKX105
M 30 x 2/120°									Standard Design	99KL IM30 CKX120
M 30 x 2/150°									Standard Design	99KL IM30 CKX150
Connection A	Hex SW	L	D	L1	L2	Hexl SW1	B	G	Version	Part Number
M 30 x 2/30°	34	57		9					Standard Design	99SL IM30 CKX30
M 30 x 2/45°									Standard Design	99SL IM30 CKX45
M 30 x 2/60°									Standard Design	99SL IM30 CKX60
M 30 x 2/75°									Standard Design	99SL IM30 CKX75
M 30 x 2/90°									Standard Design	99SL IM30 CKX90
M 30 x 2/105°									Standard Design	99SL IM30 CKX105
M 30 x 2/120°									Standard Design	99SL IM30 CKX120
M 30 x 2/150°									Standard Design	99SL IM30 CKX150



Top connections — best solutions!

Our experience offers added value:

- + Sophisticated range of products, proved in millions applications.
- + High level of competence for innovations and special solutions.
- + Worldwide consulting and service organization.
- + Special quality standards that ensure durability and correct functioning in the long term.

For the connection, through-flow and efficient handling of liquid and gaseous mediums, RECTUS offers you a wide range of sophisticated products and special solutions. Here too, top workmanship and a high level of functionality lead to excellent results in practical use. Our engineers and designers are working continuously on the expansion of this product area and are developing individual designs tailored exactly to meet your requirements. Why not contact us? We will be pleased to help you!

Nycoil

A RECTUS COMPANY

Thanks to the takeover of the US market leader Nycoil, RECTUS has now also gained the development and production of hoses as a supplementary business area. RECTUS-NYCOIL can offer you the right product for practically all applications - whether in Polyurethane, Polyamide, Nylon or PVC.

Rectus Nycoil

AK13/AJ13

Test the new RECTUS range of products now - for blow-out technology to meet your needs! For example, our AK13 blow gun, or the new AJ13 made of impact resistant plastic. Even very inaccessible places are easily be reached with the extended blow-out tube. The guns are light, ergonomically shaped and can be regulated very finely.

Fittings / Blow Guns / Flow Analyser

Rectus System Components

Threaded Nut



DIN EN 560
(left handed thread marked)
Brass
(Nickel plated on request)

* only for STP 13/09
** only to use with male x male nipples marked with "V" at the end (longer version)
*** shortend version, useable for all sizes

Connection	Hex	Length	Material	Part Number
G 1/8 right hand	12	11	Brass	UR 10
	12	11	AlSi 303	UR 10 R
G 1/4 right hand	17	15.5	Brass	UR 13
	17	15.5	AlSi 303	UR 13 R
G 3/8 right hand	17	15.5	AlSi 316 Ti	UR 13 E
	19	16.5	Brass	UR 17
	19	14.5	Brass	UR 17 S**
	19	16.5	AlSi 303	UR 17 R
	19	16.5	AlSi 316 Ti	UR 17 E
G 1/4 r. l. 9 mm	17	15.5	Brass	UR 13g*
G 1/2 right hand	17	15.5	AlSi 303	UR 13g R*
	24	20.5	Brass	UR 21
	24	20.5	AlSi 303	UR 21 R
	24	20.5	AlSi 316 Ti	UR 21 E
G 1/4 left hand	17	15.5	Brass	UL 13
	17	15.5	AlSi 303	UL 13 R
G 3/8 left hand	19	16.5	Brass	UL 17**
	19	16.5	AlSi 303	UL 17 R
	19	16.5	AlSi 316 Ti	UL 17 E
G 1/2 left hand	24	20.5	Brass	UL 21

Hose Tail, Short



Brass
(Nickel plated on request)

* UR 13/09 required

Connection	Hex	Length	Material	Part Number
4 mm for G 1/8		27.5	Brass	STP 10/04
		27.5	AlSi 303	STP 10/04 R
6 mm for G 1/8		28	Brass	STP 10/06
4 mm for G 1/4		30.5	AlSi 303	STP 10/06 R
		30.5	AlSi 303	STP 13/04
6 mm for G 1/4		47	AlSi 303	STP 13/04 R
		47	AlSi 316 Ti	STP 13/06 E
9 mm for G 1/4		35.5	Brass	STP 13/09*
		35.5	AlSi 303	STP13/09 R*
4 mm for G 3/8		31	Brass	STP 17/04
6 mm for 3/8		36	Brass	STP 17/06
		36	AlSi 303	STP 17/06 R
9 mm for 3/8		36	AlSi 316 Ti	STP 17/06 E
		36	Brass	STP 17/09
		36	AlSi 303	STP 17/09 R
		36	AlSi 316 Ti	STP 17/09 E
6 mm for G 1/2		38	Brass	STP 21/06
9 mm for G 1/2		38	Brass	STP 21/09
		38	AlSi 303	STP 21/09 R
		38	AlSi 316 Ti	STP 21/09 E
		44	Brass	STP 21/13

Hose Tail, Long



DIN EN 560
Brass
(Nickel plated on request)

Hose Tail Barb



Male Thread
Brass
(Nickel plated on request)

* inner cone 45°

Connection	Hex	Length	Material	Part Number
4 mm for G 1/4		47	Brass	STD 13/04
		47	Brass	STD 13/06
6 mm for G 1/4		47.5	Brass	STD 17/04
4 mm for G 3/8		47.5	Brass	STD 17/06
		47.5	Brass	STD 17/09
9 mm for G 3/8				
M 5, 3 mm	7	15.5	Brass	GT 05/03
	7	15.5	AlSi 303	GT 05/03 R
	7	15.5	AlSi 316 Ti	GT 05/03 E
M 5, 4 mm	7	15.5	Brass	GT 05/04
	7	15.5	AlSi 303	GT 05/04 R
	7	15.5	AlSi 316 Ti	GT 05/04 E
M 6, 4 mm	8	23	Brass	GT 06/04
G 1/8, 4 mm*	14	28	Brass	GT 10/04
	14	28	AlSi 303	GT 10/04 R
	14	28	AlSi 316 Ti	GT 10/04 E
G 1/8, 6 mm*	14	33	Brass	GT 10/06
	14	33	AlSi 303	GT 10/06 R
	14	33	AlSi 316 Ti	GT 10/06 E
G 1/8, 8 mm*	14	33	Brass	GT 10/08
G 1/8, 9 mm*	14	33	Brass	GT 10/09
	14	33	AlSi 303	GT 10/09 R
	14	33	AlSi 316 Ti	GT 10/09 E
G 1/4, 4 mm*	17	30	Brass	GT 13/04
	17	30	AlSi 303	GT 13/04 R
	17	30	AlSi 316 Ti	GT 13/04 E
G 1/4, 6 mm*	17	35	Brass	GT 13/06
	17	35	AlSi 303	GT 13/06 R
	17	35	AlSi 316 Ti	GT 13/06 E
G 1/4, 8 mm*	17	35	Brass	GT 13/08
	17	35	AlSi 303	GT 13/08 R
G 1/4, 9 mm*	17	35	AlSi 316 Ti	GT 13/08 E
G 1/4, 13 mm*	17	42	Brass	GT 13/13
	19	36	Brass	GT 17/06
G 3/8, 6 mm*	19	36	AlSi 303	GT 17/06 R
	19	36	AlSi 316 Ti	GT 17/06 E
G 3/8, 8 mm*	19	36	Brass	GT 17/08
	19	36	Brass	GT 17/09
G 3/8, 9 mm*	19	36	AlSi 303	GT 17/09 R
	19	36	AlSi 316 Ti	GT 17/09 E

Hose Tail Barb



Male Thread
Brass (Nickel plated on request)

* inner cone 45°

Hose Tail Barb



Female Thread
Brass
(Nickel plated on request)

Hose Repairer



Brass
(Nickel plated on request)
* DIN EN 560

Hose Repairer, Short



Brass
(Nickel plated on request)

Connection	Hex	Length	Material	Part Number
G 3/8, 13 mm*	19	42	Brass	GT 17/13
	19	42	ASIS 303	GT 17/13 R
G 1/2, 6 mm*	19	42	AlSi 316 Ti	GT 17/13 E
	24	40	Brass	GT 21/06
G 1/2, 9 mm*	24	40	Brass	GT 21/09
	24	40	ASIS 303	GT 21/09 R
G 1/2, 13 mm*	24	40	AlSi 316 Ti	GT 21/09 E
	24	46	Brass	GT 21/13
	24	46	ASIS 303	GT 21/13 R
	24	46	AlSi 316 Ti	GT 21/13 E
G 3/4, 13 mm*	32	52	Brass	GT 26/13
G 3/4, 16 mm*	32	60	Brass	GT 26/16
G 3/4, 19 mm*	32	60	Brass	GT 26/19
G1, 25 mm*	36	70	Brass	GT 33/25

Connection	Hex	Length	Material	Part Number
G 1/8, 6 mm	12	31	Brass	GI 10/06
G 1/8, 8 mm	12	31	Brass	GI 10/08
G 1/4, 6 mm	17	33	Brass	GI 13/06
G 1/4, 8 mm	17	33	Brass	GI 13/08
G 1/4, 9 mm	17	33	Brass	GI 13/09
G 1/4, 13 mm	17	39	Brass	GI 13/13
G 3/8, 6 mm	19	33	Brass	GI 17/06
G 3/8, 8 mm	19	33	Brass	GI 17/08
G 3/8, 9 mm	19	33	Brass	GI 17/09
G 3/8, 13 mm	19	40	Brass	GI 17/13
G 1/2, 6 mm	24	36	Brass	GI 21/06
G 1/2, 8 mm	24	36	Brass	GI 21/08
G 1/2, 9 mm	24	36	Brass	GI 21/09
G 1/2, 13 mm	24	43	Brass	GI 21/13

Connection	Hex	Length	Material	Part Number
4 mm		50	Brass	DS 04/04 P
6 mm		72	Brass	DS 06/06*
8 mm		72	Brass	DS 08/08*
9 mm		72	Brass	DS 09/09*
13 mm		74	Brass	DS 13/13

Connection	Hex	Length	Material	Part Number
4 mm		17	Brass	DK 04/04
6 mm		19	Brass	DK 06/06

Male x Male Nipple



Brass
(Nickel plated on request)

* inner cone 45°
** inner cone 45°
usable only together with threaded nut UR 17S
*** inner cone 45°
usable with threaded nut UR17

Connection	Hex	Length	Material	Part Number
M 5 x M 5	7	13	Brass	DN 05/05
	7	13	AlSi 303	DN 05/05 R
M 5 x R 1/8	7	13	AlSi 316 Ti	DN 05/05 E
	14	17	Brass	DN 05/10
	14	17	AlSi 303	DN 05/10 R
	14	17	AlSi 316 Ti	DN 05/10 E
M 5 x R 1/4	17	19	Brass	DN 05/13
	14	19	Brass	DN 10/10
G 1/8 x G 1/8 *	14	19	AlSi 303	DN 10/10 R
	14	19	AlSi 316 Ti	DN 10/10 E
R 1/8 x R 1/8 con	12	21	Brass	DN 10/10 K
	17	20	Brass	DN 10/13
G 1/8 x G1/4*	17	21	AlSi 303	DN 10/13 R
	17	21	AlSi 316 Ti	DN 10/13 E
	19	21	Brass	DN 10/17
G 1/4 x G 1/4*	17	23	AlSi 303	DN 13/13 R
R 1/4 x R 1/4 con	17	23	AlSi 316 Ti	DN 13/13 E
	14	30	Brass	DN 13/13 K
G 1/4 x G 3/8**	19	23	Brass	DN 13/17
	19	23	AlSi 303	DN 13/17 R
	19	23	AlSi 316 Ti	DN 13/17 E
G 1/4 x G 3/8 long ***	19	25	Brass	DN 13/17 V
G 1/4 x G 1/2*	24	27	Brass	DN 13/21
	19	23	Brass	DN 17/17
G 3/8 x G 3/8**	19	23	AlSi 303	DN 17/17 R
	19	23	AlSi 316 Ti	DN 17/17 E
	19	27	Brass	DN 17/17 V
R 3/8 x R 3/8 con	17	30	Brass	DN 17/17 K
G 3/8 x G 1/2**	24	27	Brass	DN 17/21
	24	29	AlSi 303	DN 17/21 R
	24	29	AlSi 316 Ti	DN 17/21 E
	32	33	Brass	DN 17/26
G 3/8 x G 3/4**	24	30	Brass	DN 21/21
G 1/2 x G 1/2*	24	30	AlSi 303	DN 21/21 R
	24	30	AlSi 316 Ti	DN 21/21 E
R 1/2 x R 1/2 con	22	34	Brass	DN 21/21 K
	32	36	Brass	DN 21/26
G 1/2 x G 3/4*	36	40	Brass	DN 21/33
G 3/4 x G 3/4*	32	40	Brass	DN 26/26
	36	40	Brass	DN 26/33
G 1 x G1*	36	42	Brass	DN 33/33
G 1/4 l x G 1/4 l,*	14	34	Brass	DN 13/13 L
	17	35,5	Brass	DN 13/17 L
G 3/8 l x G 3/8 l,*	17	37	Brass	DN 17/17 L

Male x Male Nipple adjustable

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8 x R 1/8	15	27	Brass	LD 10/10 K
	R 1/4 x R 1/4	19	34	Brass	LD 13/13 K
	R 3/8 x R 3/8	22	37	Brass	LD 17/17 K
	R 1/2 x R 1/2	27	44,5	Brass	LD 21/21 K
	R 3/4 x R 3/4	36	43	Brass	LD 26/26 K
	R 1 x R 1	46	64	Brass	LD 33/33 K

Reducing Bush, Short

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	M 5 i. x G 1/8 o.	14	11	Brass	RK 05/10
		14	11	AISI 303	RK 05/10 R
		14	11	AISI 316 Ti	RK 05/10 E
	M 5 i. x G 1/4 o.	17	14	Brass	RK 05/13
	G 1/8 i. x G 1/4 o.	17	11	Brass	RK 10/13
		17	11	AISI 303	RK 10/13 R
		17	11	AISI 316 Ti	RK 10/13 E
	G 1/8 i. x G 3/8 o.	19	13	Brass	RK 10/17
	G 1/8 i. x G 1/2 o.	24	18	Brass	RK 10/21
	G 1/4 i. x G 3/8 o.	19	14	Brass	RK 13/17
		19	14	AISI 303	RK 13/17 R
		19	14	AISI 316 Ti	RK 13/17 E
	G 1/4 i. x G 1/2 o.	24	18	Brass	RK 13/21
	G 3/8 i. x G 1/2 o.	24	18	Brass	RK 17/21
		24	18	AISI 303	RK 17/21 R
		24	18	AISI 316 Ti	RK 17/21 E
	G 3/8 i. x G 3/4 o.	32	18	Brass	RK 17/26
	G 1/2 i. x G 3/4 o.	32	24	Brass	RK 21/26
	G 1/2 i. x G 1 o.	36	24,5	Brass	RK 21/33
	G 3/4 i. x G 1 o.	36	21	Brass	RK 26/33

Reducing Bush, Long

 Brass (Nickel Plated on request) * inner cone 45°	Connection	Hex	Length	Material	Part Number
	M 5 o. x M 5 i.	8	15		RL 05/05
	M 5 o. x G 1/8 i.	14	17		RL 05/10
	G 1/8 o. x M 5 i.	14	17		RL 10/05
	G 1/8 o. x G 1/8 i.*	14	23		RL 10/10
	G 1/8 o. x G 1/4 i.*	17	26		RL 10/13
	G 1/4 o. x G 1/8 i.*	17	26		RL 13/10
	G 1/4 o. x G 1/4 i.*	17	28		RL 13/13

Reducing Bush, Long

 Brass (Nickel plated on request) * inner cone 45°	Connection	Hex	Length	Material	Part Number
	G 1/4 o. x G 3/8 i.*	19	29	Brass	RL 13/17
	G 3/8 o. x G 1/4 i.*	19	29	Brass	RL 17/13
	G 3/8 o. x G 3/8 i.*	19	29	Brass	RL 17/17
	G 3/8 o. x G 1/2 i.*	24	32	Brass	RL 17/21
	G 1/2 o. x G 3/8 i.*	24	34	Brass	RL 21/17
	G 1/2 o. x G 1/2 i.*	24	34	Brass	RL 21/21
	G 1/2 o. x G 3/4 i.*	32	31	Brass	RL 21/26

Female x Female Socket

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	M 5	8	12	Brass	MU 05
	M 5	8	12	AISI 303	MU 05 R
	G 1/8	14	22	Brass	MU 10
		14	22	AISI 303	MU 10 R
		14	22	AISI 316 Ti	MU 10 E
	G 1/4	17	26	Brass	MU 13
		17	26	AISI 303	MU 13 R
		17	26	AISI 316 Ti	MU 13 E
	G 3/8	22	26	Brass	MU 17
		22	26	AISI 303	MU 17 R
		22	26	AISI 316 Ti	MU 17 E
	G 1/2	27	30	Brass	MU 21
		27	30	AISI 303	MU 21 R
		27	30	AISI 316 Ti	MU 21 E
	G 3/4	32	36	Brass	MU 26
	G 1	41	40	Brass	MU 33

90° Elbow

 Brass (Nickel plated on request)	Connection	Hex	Material	Part Number
	M 5	10	Brass	WS 05
	G 1/8	16	Brass	WS 10
	G 1/4	22	Brass	WS 13
	G 3/8	27	Brass	WS 17
	M 5	10	Aluminium, elox.	WS 06 A
	G 1/8	16	Aluminium, elox.	WS 10 A
	G 1/4	22	Aluminium, elox.	WS 13 A
	G 3/8	27	Aluminium, elox.	WS 17 A

Tee

 Brass (Nickel plated on request)	Connection	Hex	Material	Part Number
	M 5	10	Brass	TK 05
	G 1/8	15	Brass	TK 10
	G 1/4	22	Brass	TK13
	G 3/8	27	Brass	TK 17
	M 5	10	Aluminium, elox.	TK 05 A
	G 1/8	16	Aluminium, elox.	TK 10 A
	G 1/4	22	Aluminium, elox.	TK 13 A
	G 3/8	27	Aluminium, elox.	TK 17 A

4 Port Manifold

	Connection	Hex	Material	Part Number
	G 1/8	30	Aluminium	VB 10
	G 1/4	36	Aluminium	VB 13
	G 3/8	43	Aluminium	VB 17
	G 1/2	52	Aluminium	VB 21

Multi-Port Manifold

	Connection	Hex	Material	Part Number
	G 1/8 x M 5	20	Aluminium, elox.	VL 10/05
	G 3/8 x G 1/8	30	Aluminium, elox.	VL 17/10
	G 1/2 x G 1/4	36	Aluminium, elox.	VL 21/13

Bulkhead Lock Nut

 Brass (Nickel plated on request)	Connection	Hex	Material	Part Number
	G 1/8	15	Brass	KM 10 W
	G 1/4	17	Brass	KM 13 W
	G 3/8	22	Brass	KM 17 W
	G 1/2	27	Brass	KM 21 W
	G 3/4	30	Brass	KM 26 W
	M 6 x 0.75	9	Brass	KM 06 M
	M 8 x 1	12	Brass	KM 08 M
	M 10 x 1	12	Brass	KM 10 M
	M 12 x 1	17	Brass	KM 12 M
	M 14 x 1	19	Brass	KM 14 M

Blanking Plug

 Socket pipe (DIN 908) Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	M 5 (head pipe)	8	8	Brass	VZ 05
		8	8	AlSI 303	VZ 05 R
	G 1/8	5	11	Brass	VZ 10
		5	11	AlSI 303	VZ 10 R
		5	11	AlSI 316 Ti	VZ 10 E
	G 1/4	6	15	Brass	VZ 13
		6	5	AlSI 303	VZ 13 R
		6	5	AlSI 316 Ti	VZ 13 E
	G 3/8	8	15	Brass	VZ 17
		8	15	AlSI 303	VZ 17 R
		8	15	AlSI 316 Ti	VZ 17 E
	G 1/2	10	18	Brass	VZ 21
		10	18	AlSI 303	VZ 21 R
		10	18	AlSI 316 Ti	VZ 21 E
	G 3/4	12		Brass	VZ 26

Blanking Plug

 tapered, with socket pipe Brass (DIN 908) (Nickel plated on request)	Connection	Hex	Material	Part Number
	R 1/8	5	Brass	VK 10
	R 1/4	7	Brass	VK 13
	R 3/8	8	Brass	VK 17

Washer, PVC

 (Captive version page 303)	Connection	Hex	Material	Part Number
	for M 5			PD 05
	for G 1/8			PD 10
	for G 1/4			PD 13
	for G 3/8			PD17
	for G 1/2			PD 21
	for G 3/4			PD 26

Washer, Fiber

	Connection	Hex	Part Number
	for M 5		FD 05
	for G 1/8		FD 10
	for G 1/4		FD 13
	for G 3/8		FD 17
	for G 1/2		FD 21
	for G 3/4		FD 26

Washer, Aluminium

	Connection	Hex	Part Number
	for G 1/8		AD 10
	for G 1/4		AD 13
	for G 3/8		AD 17
	for G 1/2		AD 21
	for G 3/4		AD 26
	for G 1		AD 33

Female Stud Fitting

	Connection	Hex	Length	Material	Part Number
	G 1/8, 4 x 6 mm	14	23	Brass	MV 10/06
	G 1/4, 4 x 6 mm	17	25	Brass	MV 13/06
	G 1/4, 6 x 8 mm	17	25	Brass	MV 13/08
	G 1/4, 8 x 10 mm	17	29	Brass	MV 13/10
	G 3/8, 6 x 8 mm	19	25	Brass	MV 17/08
	G 3/8, 8 x 10 mm	19	29	Brass	MV 17/10

Brass
(Nickel plated on request)

Swiveling Spring Guard

	Connection	Hex	Length	Material	Part Number
	R 1/8, 3 x 5 mm	11		Brass	DV 10/05
	R 1/4, 4 x 6 mm	14		Brass	DV 13/06
	R 1/4, 6 x 8 mm	14		Brass	DV 13/08
	R 1/4, 8 x 10 mm	15		Brass	DV 13/10
	R 3/8, 9 x 12 mm	19		Brass	DV 17/12
	R 1/2, 13 x 16 mm	22		Brass	DV 21/16

Brass

Equal Ended Tee

	Connection	Hex	Length	Material	Part Number
	4 x 6 mm			Brass	TS 06
	6 x 8 mm			Brass	TS 08
	8 x 10 mm			Brass	TS 10

Brass
(Nickel plated on request)

Equal Ended Cross

	Connection	Hex	Length	Material	Part Number
	4 x 6 mm			Brass	KS 06
	6 x 8 mm			Brass	KS 08
	8 x 10 mm			Brass	KS 10

Brass
(Nickel plated on request)

Did you know ...

...that the protection of persons and the environment also plays an important part in the manufacture of RECTUS products? Our production methods and plants are exemplary in this respect, so that they pose no threat whatsoever to nature. Continuing checks have confirmed this and guarantee additional safety.

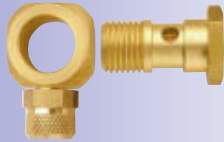
RECTUS[®]

Equal Ended Cross



Connection	Hex	Length	Material	Part Number
G 1/8	19		AISI 316	VB 10 E
G 1/4	19		AISI 316	VB 13 E
G 3/8	20		AISI 316	VB 17 E
G 1/2	23		AISI 316	VB 21 E
G 3/4	25		AISI 316	VB 26 E
G 1	29		AISI 316	VB 33 E

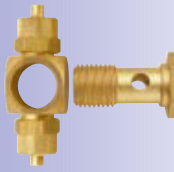
Single Banjo Fitting



Connection	Hex	Length	Material	Part Number
M 5, 3 x 4 mm	8	18,5	Brass	VW 05/04
M 5, 3 x 5 mm	8	18,5	Brass	VW 05/05
M 5, 4 x 6 mm	8	18,5	Brass	VW 05/06
G 1/8, 4 x 6 mm	14	28	Brass	VW 10/06
G 1/8, 6 x 8 mm	14	28	Brass	VW 10/08
G 1/4, 4 x 6 mm	17	33	Brass	VW 13/06
G 1/4, 6 x 8 mm	17	33	Brass	VW 13/08
G 1/4, 8 x 10 mm	17	33	Brass	VW 13/10
G 3/8, 6 x 8 mm		36	Aluminium	VW 17/08 A
G 3/8, 8 x 10 mm		36	Aluminium	VW 17/10 A
G 3/8, 9 x 12 mm		36	Aluminium	VW 17/12 A

swivelling
Brass
(Nickel plated on request)

Double Banjo Fitting



Connection	Hex	Length	Material	Part Number
M 5, 3 x 5 mm	8	18,5	Brass	TV 05/05
M 5, 4 x 6 mm	8	18,5	Brass	TV 05/06
G 1/8, 4 x 6 mm	14	28	Brass	TV 10/06
G 1/8, 6 x 8 mm	14	28	Brass	TV 10/08
G 1/4, 4 x 6 mm	17	33	Brass	TV 13/06
G 1/4, 6 x 8 mm	17	33	Brass	TV 13/08
G 1/4, 8 x 10 mm	17	33	Brass	TV 13/10

swivelling
Brass
(Nickel plated on request)

Bulkhead Fitting



Connection	Hex	Length	Material	Part Number
3 x 4 mm	11	34	Brass	SC 05/04
3 x 5 mm	11	34	Brass	SC 05/05
4 x 6 mm	12	38	Brass	SC 10/06
6 x 8 mm	17	46	Brass	SC 10/08
8 x 10 mm	19	46	Brass	SC 14/10

Brass
(Nickel plated on request)

Hose Tail Elbow



swivelling
Brass (Nickel plated on request)

Connection	Hex	Length	Material	Part Number
M 5, f. LW 3 mm	8	18,5	Brass	WT 05/03
M 5, f. LW 4 mm	8	18,5	Brass	WT 05/04

Stud Fitting



Brass
(Nickel plated on request)

Connection	Hex	Length	Material	Part Number
M 5, 3 x 4 mm	7	20	Brass	EV 05/04
M 5, 3 x 5 mm	7	20	Brass	EV 05/05
	7	20	AISI 303	EV 05/05 R
	7	20	AISI 316 Ti	EV 05/05 E
M 5, 4 x 6 mm	8	21	Brass	EV 05/06
	8	21	AISI 303	EV 05/06 R
	8	21	AISI 316 Ti	EV 05/06 E
G 1/8, 4 x 6 mm	12	25	Brass	EV 10/06
	12	25	AISI 303	EV 10/06 R
	12	25	AISI 316 Ti	EV 10/06 E
G 1/8, 6 x 8 mm	14	24	Brass	EV 10/08
	14	24	AISI 303	EV 10/08 R
	14	24	AISI 316 Ti	EV 10/08 E
G 1/4, 4 x 6 mm	17	26	Brass	EV 13/06
	17	26	AISI 303	EV 13/06 R
	17	26	AISI 316 Ti	EV 13/06 E
G 1/4, 6 x 8 mm	17	26	Brass	EV 13/08
	17	26	AISI 303	EV 13/08 R
	17	26	AISI 316 Ti	EV 13/08 E
G 1/4, 8 x 10 mm	17	31	Brass	EV 13/10
G 1/4, 9 x 12 mm	17	31	Brass	EV 13/12 R
	17	31	AISI 303	EV 13/12 R
G 3/8, 6 x 8 mm*	19	27	Brass	EV 17/08
G 3/8, 8 x 10 mm*	19	31	Brass	EV 17/10
	19	31	AISI 303	EV 17/10 R
G 3/8, 9 x 12 mm*	19	31	Brass	EV 17/12
	19	31	AISI 303	EV 17/12 R

* inner cone 45°

Did you know ...

... that RECTUS products assume important functions on the high seas in the fields of safety and supplies?

Fixed Spring Guard

 for Nylon Hoses Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	M 5, 4 x 6 mm	8	103	Brass	SV 05/06
	G 1/8, 4 x 6 mm	12	103	Brass	SV 10/06
	G 1/8, 6 x 8 mm	12	106	Brass	SV 10/08
	G 1/4, 4 x 6 mm	17	103	Brass	SV 13/06
	G 1/4, 6 x 8 mm	17	106	Brass	SV 13/08
	G 1/4, 8 x 10 mm	17	119	Brass	SV 13/10
	G 1/4, 9 x 12 mm	17	123	Brass	SV 13/12
	G 3/8, 6 x 8 mm*	19	106	Brass	SV 17/08
	G 3/8, 8 x 10 mm*	19	119	Brass	SV 17/10
	G 3/8, 9 x 12 mm*	19	123	Brass	SV 17/12
* inner cone 45°					

Male Stud Run Tee

 Tapered thread Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8, 4 x 6 mm			Brass	TE 1006
	R 1/8, 6 x 8 mm			Brass	TE 1008
	R 1/8, 8 x 10 mm			Brass	TE 1010
	R 1/4, 4 x 6 mm			Brass	TE 1306
	R 1/4, 6 x 8 mm			Brass	TE 1308
	R 1/4, 8 x 10 mm			Brass	TE 1310

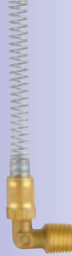
Male Branch Tee

 Tapered thread Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8, 4 x 6 mm			Brass	LE 1006
	R 1/8, 6 x 8 mm			Brass	LE 1008
	R 1/8, 8 x 10 mm			Brass	LE 1010
	R 1/4, 4 x 6 mm			Brass	LE 1306
	R 1/4, 6 x 8 mm			Brass	LE 1308
	R 1/4, 8 x 10 mm			Brass	LE 1310

Male Stud Elbow

 Tapered thread Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8, 4 x 6 mm	12	21	Brass	WE 1006
	R 1/8, 6 x 8 mm	14	22	Brass	WE 1008
	R 1/8, 8 x 10 mm	17	24,5	Brass	WE 1010
	R 1/4, 4 x 6 mm	12	26	Brass	WE 1306
	R 1/4, 6 x 8 mm	14	27	Brass	WE 1308
	R 1/4, 8 x 10 mm	17	27	Brass	WE 1310

Male Stud Elbow

 with Spring Guard, tapered thread Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8, 4 x 6 mm	12	107	Brass	WK 10/06
	R 1/8, 6 x 8 mm	14	112	Brass	WK 10/08
	R 1/8, 8 x 10 mm	17	125	Brass	WK 10/10
	R 1/4, 4 x 6 mm	12	109	Brass	WK 13/06
	R 1/4, 6 x 8 mm	14	114	Brass	WK 13/08
	R 1/4, 8 x 10 mm	17	127	Brass	WK 13/10

Spring Guard

 with Tube Nut Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	(M 10 x 1) 4 x 6 mm	12	94	Brass	KN 06
	(M 12 x 1) 6 x 8 mm	14	97	Brass	KN 08
	(M 14 x 1) 8 x 10 mm	17	110	Brass	KN 10S-01
	(M 16 x 1) 8 x 10 mm	17	110	Brass	KN 10
	(M 16 x 1) 9 x 12 mm	17	114	Brass	KN 12

Tube Nut

 for Plastic Hose Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	(M 7 x 0,5) 3 x 4 mm	-	8,5	Brass	SM 04
	(M 7 x 0,5) 3 x 5 mm	-	8,5	Brass	SM 05
	(M 10 x 1) 4 x 6 mm	12	11	Brass	SM 06
	(M 12 x 1) 6 x 8 mm	14	11	Brass	SM 08
	(M 14 x 1) 8 x 10 mm	17	12,5	Brass	SM 10 S
	(M 16 x 1) 8 x 10 mm	17	12,5	Brass	SM 10
	(M 16 x 1) 9 x 12 mm	17	12,5	Brass	SM 12

Female Tee

 with inner cone Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8 o.	9	34	Brass	TA 10
	R 1/4 o.	12	43	Brass	TA 13
	R 3/8 o.	14	52	Brass	TA 17
	R 1/2 o.	22	60	Brass	TA 21

Male Elbow

 with inner core Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	R 1/8 o.	9	21	Brass	WA 10
	R 1/4 o.	12	26	Brass	WA 13
	R 3/8 o.	14	33	Brass	WA 17
	R 1/2 o.	17	39	Brass	WA 21

Female Tee

 with Female Thread Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 1/8		28	Brass	TI 10
			28	AISI 316	TI 10 E
	G 1/4		35	Brass	TI 13
			35	AISI 316	TI 13 E
	G 3/8		43	Brass	TI 17
			43	AISI 316	TI 17 E
	G 1/2		49	Brass	TI 21
			49	AISI 316	TI 21 E
	G 3/4		59	Brass	TI 26
			59	AISI 316	TI 26 E
	G 1		67	Brass	TI 33

Female Elbow

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 1/8		22	Brass	WI 10
			22	AISI 316	WI 10 E
	G 1/4		27	Brass	WI 13
			27	AISI 316	WI 13 E
	G 3/8		32	Brass	WI 17
			32	AISI 316	WI 17 E
	G 1/2		40	Brass	WI 21
			40	AISI 316	WI 21 E
	G 3/4		48	Brass	WI 26
			48	AISI 316	WI 26 E
	G 1		55	Brass	WI 33

Male-/Female Elbow

	Connection	Hex	Length	Material	Part Number
	G 1/8		26	AISI 316	WAI 10 E
	G 1/4		30	AISI 316	WAI 13 E
	G 3/8		36	AISI 316	WAI 17 E
	G 1/2		41	AISI 316	WAI 21 E
	G 3/4		48	AISI 316	WAI 26 E

Female Y

 2x Female Thread 1x Male Thread con. Brass	Connection	Hex	Length	Material	Part Number
	R 1/8 o/G 1/8 i.	14		Brass	YA 10
	R 1/4 o/G 1/4 i.	17		Brass	YA 13
	R 3/8 o/G 3/8 i.	22		Brass	YA 17
	R 1/2 o/ G 1/2 i.	26		Brass	YA 21

Female Y

 3x Female Thread Brass	Connection	Hex	Length	Material	Part Number
	G 1/8	14		Brass	YI 10
	G 1/4	17		Brass	YI 13
	G 3/8	22		Brass	YI 17
	G 1/2	26		Brass	YI 21

2 Way Manifold

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 3/8 i.		47	Brass	ZO 17
	G 1/2 i.		55	Brass	ZO 21

3 Way Manifold

 Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 3/8 i.		61	Brass	DO 17
	G 1/2 i.		67	Brass	DO 21

2 Way Manifold Assembly

 with couplings Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 1/4 o.			Brass	ZM 13 A
	G 3/8 o.			Brass	ZM 17 A
	G 1/2 o.			Brass	ZM 21 A
	G 1/4 i.			Brass	ZM 13 i
	G 3/8 i.			Brass	ZM 17 i
	G 1/2 i.			Brass	ZM 21 i

3 Way Manifold Assembly

 with couplings Brass (Nickel plated on request)	Connection	Hex	Length	Material	Part Number
	G 1/4 o.			Brass	DM 13 A
	G 3/8 o.			Brass	DM 17 A
	G 1/2 o.			Brass	DM 21 A
	G 1/4 i.			Brass	DM 13 i
	G 3/8 i.			Brass	DM 17 i
	G 1/2 i.			Brass	DM 21 i

Manifold Assembly

 with couplings	Connection	Hex	Length	Material	Part Number
	G 3/8 i.			Brass	WD 17-26
	G 1/2 i.			Brass	WD 21-26

Manifold

 without couplings	Connection	Hex	Length	Material	Part Number
	G 3/8 i.			Brass	WD 17
	G 1/2 i.			Brass	WD 21

Down with the pressure
- down with the costs!
The Rectus Pressure-
Reducing Valve.

In most cases, compressed air users automatically work with pressures of up to 15 bar. A method that can have costly consequences - particularly since most tools are only designed for a pressure of 6 bar. With a RECTUS Pressure Reducing Valve, you reduce not only the air pressure but also the risk of accidents, wear on the tools, noise at the workplace and air consumption. These are advantages that are worth a lot and cost very little!



Pressure Reducing Valve

	Connection	Hex	Length	Material	Max. Supply Pressure	Const. Supply Pressure	Part Number
	G 1/4 i. x R 1/4 o.	17	34	Brass	15 bar	3,0 bar	DRV 1330
	G 1/4 i. x R 1/4 o.	17	34	Brass	15 bar	4,0 bar	DRV 1340
	G 1/4 i. x R 1/4 o.	17	34	Brass	15 bar	5,0 bar	DRV 1350
	G 1/4 i. x R 1/4 o.	17	34	Brass	15 bar	6,0 bar	DRV 1360

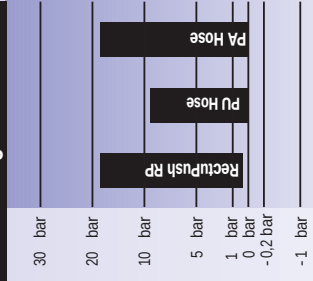
RectuPush.

The big idea!

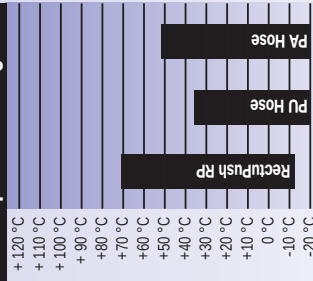
RectuPush Plug-in Connections are innovative coupling systems that have proved their value in practice a thousand times over thanks to their simple handling and reliable functioning. These versatile components made of plastic and nickel-plated brass offer you the following advantages:

- Ready for immediate use**
through fully preassembled elements and many practical connection variations.
- Fast assembly**
thanks to the innovative pressure ring that reliably secures the hose connection. You do not require any tools.
- Optimum flow**
the hose pipe is gripped from the outside – without restricting the cross-section. You can achieve full through-flow of the medium.
- Perfect seal**
through integrated O-ring. RectuPush is also available as a shut-off screw connection with valve.
- +** Fits all common hose versions
e.g. for flexible calibrated polyamide hoses (external Ø 4 - 10 mm), flexible Flexo-55 hoses (external Ø 4 - 10 mm)
- +** Good access even in very cramped conditions
thanks to the simple connection techniques and swivelling components. Handling of the coupling is possible even in inaccessible places. Small installation dimensions mean significant space gains.

Working Pressure



Temperature Range

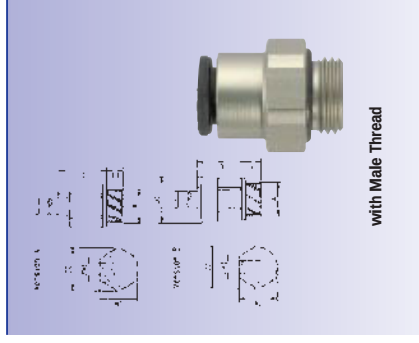


Material

Brass
Nickel Plated

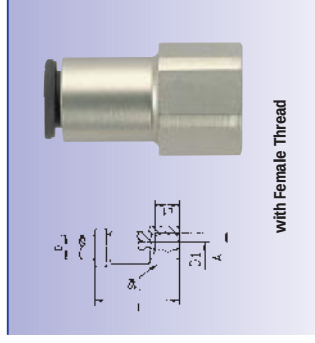
Thermoplastics
Polymer H.F.

Stud Fitting



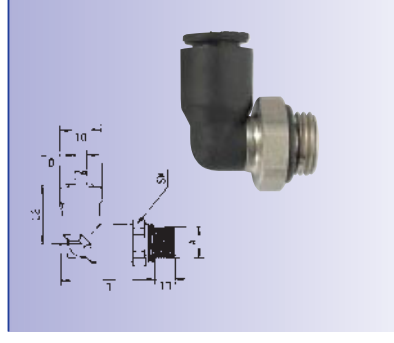
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	D1	D2	Part Number
M 5	10	18.5	4	3.5		2.5			11	RP 01-05/04
1/8	13	17	4	5		3			14	RP 01-1/004
1/4	17	12	4	7		3			18.5	RP 01-13/04
M 5	11	20	6	3.5		2.5			12	RP 01-05/06
1/8	13	20.5	6	5		4		16	14	RP 01-1/006
1/4	17	17	6	7		4		20.5	18.5	RP 01-13/06
1/8	13	21.5	8	5		5		16	14	RP 01-1/008
1/4	17	21.5	8	7		6		20.5	18.5	RP 01-13/08
3/8	19	18	8	8		6			21	RP 01-17/08
1/4	17	26.5	10	7		7			18.5	RP 01-13/10
3/8	19	24	10	8		8		23.5	21	RP 01-17/10
1/4	19	27.5	12	7		7			21	RP 01-13/12
3/8	19	27	12	8		9			21	RP 01-17/12
1/2	24	25	12	9.5		10			26	RP 01-21/12
3/8	22	30	14	8		9			24	RP 01-17/14
1/2	24	26.5	14	9.5		11			26	RP 01-21/14

Stud Fitting



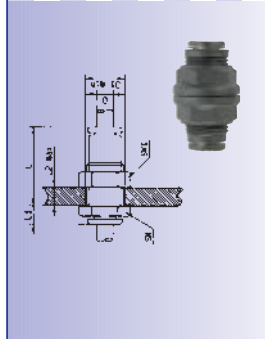
Connection A	Hex SW	L	D	L1	L2	Hex1 SW1	B	D1	D2	Part Number
1/8	13	27	4	8.5	11.5			3.3		RP 14-1/004
1/4	17	31	4	11.5	15.5			3.3		RP 14-13/04
1/8	13	29	6	8.5	10.5			4		RP 14-1/006
1/4	17	33	6	11.5	15.5			4		RP 14-13/06
1/8	13	29	8	8.5	10.5			6		RP 14-1/008
1/4	17	33	8	11.5	15			6		RP 14-13/08
3/8	19	40.5	12	14						RP 14-17/12
1/2	24	45	12	18.5						RP 14-21/12

Banjo Swivel Elbow



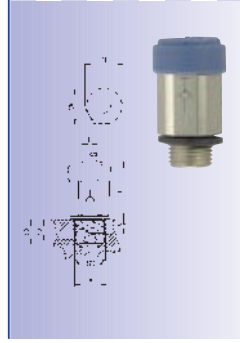
Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
M 5	10	18	4	3.5					11		RP 99-05/04
1/8	14	18	4	5					11		RP 99-10/04
1/4	19	18	4	7					11		RP 99-13/04
1/8	14	20.5	6	5					13.5		RP 99-10/06
1/4	19	20.5	6	7					13.5		RP 99-13/06
1/8	14	22.5	8	5					16		RP 99-10/08
1/4	19	22.5	8	7					16		RP 99-13/08
3/8	22	22.5	8	8					16		RP 99-17/08
1/4	19	28.5	10	7					21		RP 99-13/10
3/8	22	28.5	10	8					21		RP 99-17/10
1/4	22	30	12	7					23.5		RP 99-13/12
3/8	22	30	12	8					23.5		RP 99-17/12
3/8	24	33.5	14	8					25.5		RP 99-17/14
1/2	27	33.5	14	9.5					25.5		RP 99-21/14

Bulkhead Fitting



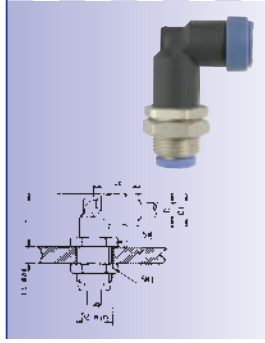
Connection A	Hex SW	L	D	L1	L2 max.	L3	Hex1 SW1	B	D1 min.	D2	Part Number
	14	24.2	4	5.5	6.5	14	14	17	12.5		RP 16-04
	17	29	6	5.5	7	17	17	19	14.5		RP 16-06
	19	29	8	6.5	7	19	19	24	16.5		RP 16-08
	24	39	10	7	12	24	24	27	22.5		RP 16-10
	27	41	12	7	13	27	27	30	24.5		RP 16-12
	30	44	14	8	15	30	30	33	26.5		RP 16-14

Stud Fitting (Shut-Off)



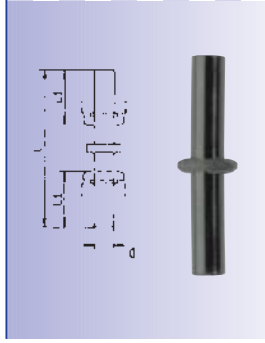
Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
1/8	13	22	4	5	6	7.5			14		RA 01-10/04
1/8	13	24	6	5	6	9			16		RA 01-10/06
1/4	17	26	8	7	8	11			20		RA 01-13/08
3/8	19	31	10	8	11	13			21		RA 01-17/10

L-Bulkhead Fitting



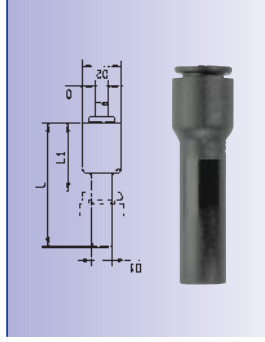
Connection A	Hex SW	L	D	L1	L2 max.	L3	Hex1 SW1	B	D1 min.	D2	Part Number
	14	23.5	4	6.5	18	14	14	17	11	12.5	RP 39-04
	17	26.5	6	7	20.5	17	17	19	13.5	14.5	RP 39-06
	19	30.5	8	7	22.5	19	19	24	16	16.5	RP 39-08
	24	38.5	10	10	28.5	24	24	27	21	22.5	RP 39-10
	27	44.5	12	12	30	27	27	30	23.5	24.5	RP 39-12
	30	47	14	15	33.5	30	30	33	25.5	26.5	RP 39-14

Hose Repairer



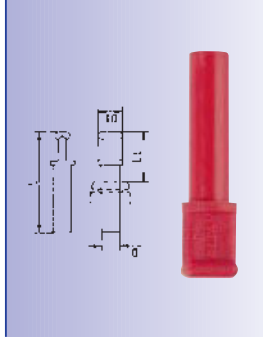
Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
	44.5	4	14.5								RP 20-04
	47	6	16.5								RP 20-06
	48	8	17								RP 20-08
	58	10	22								RP 20-10
	61	12	23								RP 20-12
	65	14	25								RP 20-14

Reducing Socket



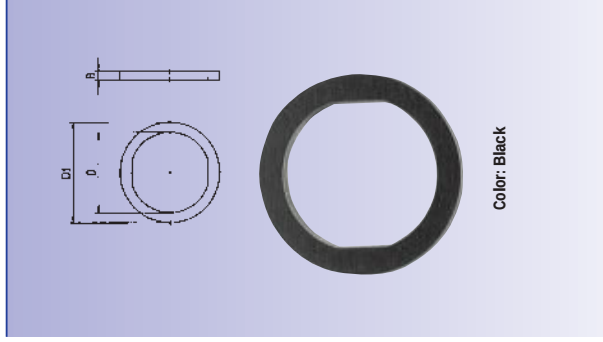
Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
		39	4	22.5					6	12	RP 66-04/06
		38.5	4	21.5					8	12	RP 66-04/08
		44	4	22.5					10	12	RP 66-04/10
		41.5	6	24.5					8	14.5	RP 66-06/08
		44	6	22.5					10	14.5	RP 66-06/10
		47.5	8	26					10	17	RP 66-08/10
		56.5	10	33.5					12	21.5	RP 66-10/12
		58.5	12	33.5					14	23.5	RP 66-12/14

Lock-up Plug

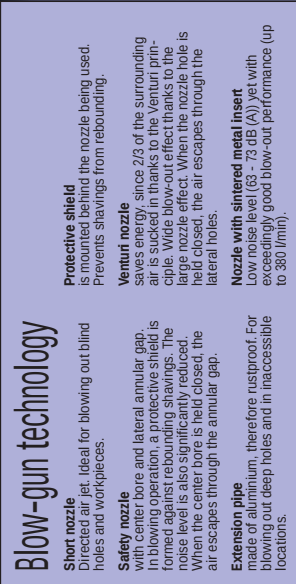


Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
		30	4	15.5					4		RP 26-04
		33	6	16.5					8		RP 26-06
		35	8	17.5					10		RP 26-08
		42	10	21					12		RP 26-10
		45	12	22					14		RP 26-12
		49	14	23.5					16		RP 26-14

Klacher, PVC, Captive



Connection A	Hex SW	L	D	L1	L2	L3	Hex1 SW1	B	D1	D2	Part Number
M 5											UD 05 M
M 10 x 1											UD 10 M
M 12 x 1.5											UD 12 M
M 14 x 1.5											UD 14 M
M 16 x 1.5											UD 16 M
M 18 x 1.5											UD 18 M
M 22 x 1.5											UD 22 M
G 1/8											UD 10
G 1/4											UD 13
G 3/8											UD 17
G 1/2											UD 21
G 3/4											UD 26
G 1											UD 33
G 1 1/4											UD 42



AK 13-Set



Connection	Extension tube	Part Number
G 1/4 i.		AK 13 SET

including 10 Blow Guns AK 13

Blow Gun



Connection	Part Number
G 1/4 i.	AV 13
6 mm	AV 06 TF
9 mm	AV 09 TF
Plug DN 5	AV 21 SF
Plug DN 7.2	AV 26 SF

Blow Gun	Connection	Part Number
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Blow Gun



Connection	Part Number
G 1/4 i.	AA 13
6 mm	AA 06 TF
9 mm	AA 09 TF
Plug DN 5	AA 21 SF
Plug DN 7.2	AA 26 SF

Blow Gun



Connection	Part Number
G 1/4 i.	AS 13
6 mm	AS 06 TF
9 mm	AS 09 TF
Plug DN 5	AS 21 SF
Plug DN 7,2	AS 26 SF

Blow Gun



Connection	Part Number
G 1/4 i.	AR 13
6 mm	AR 06 TF
9 mm	AR 09 TF
Plug DN 5	AR 21 SF
Plug DN 7,2	AR 26 SF

Blow Gun	Connection	Part Number
	1/4" NPT	100-100-0000
	1/2" NPT	100-100-0001
	3/4" NPT	100-100-0002
	1" NPT	100-100-0003
	1 1/2" NPT	100-100-0004
	2" NPT	100-100-0005
	2 1/2" NPT	100-100-0006
	3" NPT	100-100-0007

Blow Gun

	made of Aluminium with Venturi nozzle	Connection	Part Number
		G 1/4 i.	AT 13
		6 mm	AT 06 TF
		9 mm	AT 09 TF
		Plug DN 5	AT 21 SF
		Plug DN 7,2	AT 26 SF

Blow Gun

	made of Aluminium, lever operated with safety nozzle	Connection	Part Number
		1/4 i. NPSF	ASG-1

Blow Gun

	made of impact resistant plastic with standard nozzle fixed nozzle, impossible to replace	Connection	Part Number
		G 1/4 i.	AN 13
		6 mm	AN 06 TF
		9 mm	AN 09 TF
		Plug DN 5	AN 21 SF
		Plug DN 7,2	AN 26 SF

Blow Gun

	made of impact resistant plastic with safety nozzle fixed nozzle, impossible to replace	Connection	Part Number
		G 1/4 i.	AL 13
		6 mm	AL 06 TF
		9 mm	AL 09 TF
		Plug DN 5	AL 21 SF
		Plug DN 7,2	AL 26 SF

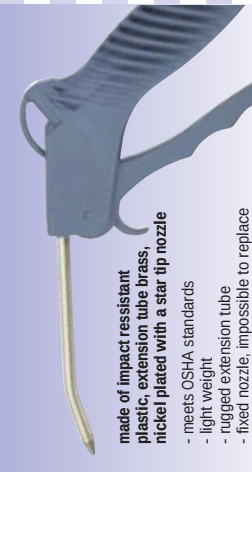
Blow Gun

	made of impact resistant plastic with sintered metal insert	Connection	Part Number
		G 1/4 i.	AF 13
		6 mm	AF 06 TF
		9 mm	AF 09 TF
		Plug DN 5	AF 21 SF
		Plug DN 7,2	AF 26 SF

Blow Gun

	made of impact resistant plastic with aluminium extension tube fixed nozzle, impossible to replace	Connection	Part Number
		G 1/4 i.	AK 13
		6 mm	AK 06 TF
		9 mm	AK 09 TF
		Plug DN 5	AK 21 SF
		Plug DN 7,2	AK 26 SF

Blow Gun

	made of impact resistant plastic, extension tube brass, nickel plated with a star tip nozzle - meets OSHA standards - light weight - rugged extension tube - fixed nozzle, impossible to replace	Connection	Part Number
		G 1/4 i.	AZ 13
		6 mm	AZ 06 TF
		9 mm	AZ 09 TF
		Plug DN 5	AZ 21 SF
		Plug DN 7,2	AZ 26 SF

Blow Gun

	made of impact resistant plastic, extension tube brass, nickel plated - rugged extension tube - fixed nozzle, impossible to replace	Connection	Part Number
		G 1/4 i.	AC 13
		6 mm	AC 06 TF
		9 mm	AC 09 TF
		Plug DN 5	AC 21 SF
		Plug DN 7,2	AC 26 SF

Blow Gun

	made of impact resistant plastic with Venturi nozzle		
		Connection	Part Number
		G 1/4 i.	AX 13
		6 mm	AX 06 TF
		9 mm	AX 09 TF
		Plug DN 5	AX 21 SF
		Plug DN 7.2	AX 26 SF

Blow Gun

	made of impact resistant plastic with R 1/8" i. (without nozzle)		
		Connection	Part Number
		G 1/4 i.	AI 13
		6 mm	AI 06 TF
		9 mm	AI 09 TF
		Plug DN 5	AI 21 SF
		Plug DN 7.2	AI 26 SF

Blow Gun

	made of impact resistant plastic with M 12 x 1,25 i. (without nozzle)		
		Connection	Part Number
		G 1/4 i.	AM 13
		6 mm	AM 06 TF
		9 mm	AM 09 TF
		Plug DN 5	AM 21 SF
		Plug DN 7.2	AM 26 SF

Blow Gun

	made of red impact resistant plastic with aluminium extension tube		
	G 1/4 i.	6 mm bent	AJ 13/06 B
	G 1/4 i.	8 mm straight	AJ 13/08
	G 1/4 i.	8 mm bent	AJ 13/08 B
	G 1/4 i.	8 x 300 mm straight	AJ 13-300
G 1/4 i.	8 x 500 mm straight	AJ 13-500	
G 1/4 i.	8 x 1000 mm straight	AJ 13-1000	

Standard Nozzle

	for Blow Gun made of Aluminium		
		Connection	Part Number
		M 12 x 1,25	KD 12

Safety Nozzle

	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.		
		Connection	Part Number
		M 12 x 1,25	SD 12

Extension Tube, 150 mm long

	for Blow Gun made of Aluminium For blowing-out deep holes and blind spots.		
		Connection	Part Number
		M 12 x 1,25	VR 12

Venturi Nozzle

	Energy serving 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.		
		Connection	Part Number
		M 12 x 1,25	AT 12

Nozzle with sintered metal insert



Low noise level (63-73 dB(A)), thus extremely good blowing effectivity (up to 380 l/min.)

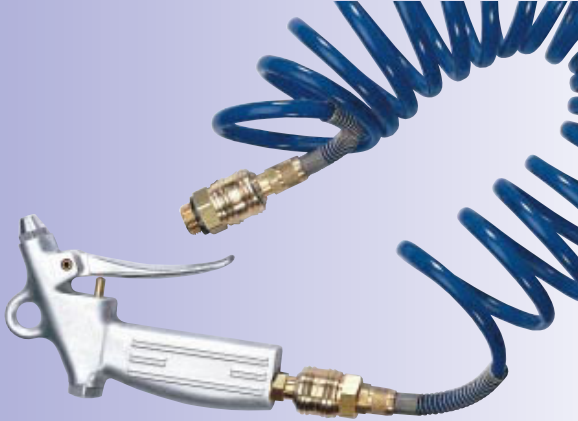
Connection	Part Number
M 12 x 1,25	AR 12

Protective Shield



Connection	Part Number
	ST 12

Blow Gun Set



Part Number
with Blow Gun made of Aluminium
SE 26 A
with Blow Gun made of impact resistant plastic
SE 26 K

Including
- Blow Gun
- Hose 6 x 8 mm, length 2,5 m
- Couplings and plugs series 26 (DN 7,2)

The best from America: Our NYCOIL hoses

Hoses by NYCOIL are the absolute No. 1 in America. And there are three good reasons for this:

1. The material used for hose production is of outstanding quality. It is particularly flexible and resistant to tearing.
2. The sturdy, technical workmanship makes the hoses exceedingly robust and guarantees a long service life.
3. The cost-benefit ratio means advantages in terms of cost-effectiveness.

In order to complete our range of services as an all-in-one supplier, we took over this successful US company in the year 2000.

The RECTUS industrial catalog now presents the most popular products. If you are interested in the entire NYCOIL range, please contact us. We will be pleased to send you detailed information.

PA
Polyamid

PA
Polyamid
(gauged)
black

PVC
RectuSoft

PU
Inner braided
Superbraided

PU
Polyurethane
(transparent)

NYCOIL
A RECTUS COMPANY

As a partner of trade and industry, RECTUS offers a reliable technical, order and delivery service. In the catalog appendix you will find order and fax forms and pertinent information about the logic behind RECTUS' product codes. This is to facilitate your and our Logistic Departments' work and to minimize errors. For any additional information, just call us. We are grateful for any suggestion that helps us to provide even better and more efficient service.

Technical Service?

RECTUS is a specialist in finding solutions for individual problems and special designs. Whether you would like to know which product exactly meets your requirements or if you are looking for a system that we can constructively tailor to meet your specification – our highly competent sales experts will provide you with advice and technical support.

Prices?

If there is no price list enclosed with this catalog, please contact us. We will be pleased to send you the latest issue. The RECTUS price list is the perfect guide for determining costs. You will definitely receive a firm offer within the framework of a concrete inquiry.

Fax inquiry?

In the appendix you will find an inquiry form for copying, completing and faxing to our sales team. You will receive a fast reply in form of a firm offer or detailed information to specific problems.

24-Hour Service

Incoming orders are processed immediately by our Logistics Team. RECTUS has a modern, computer-controlled, fully-automated high-stack warehouse which guarantees delivery within 24 hours for most standard products.

Online?

You can find the RECTUS range of products on the Internet. There you will also find information relating to new developments, a trade exhibition calendar and other current topics. Of course, you can send us your inquiries and orders online. By the way, the „Virtual RECTUS Advisor“ on the Internet will be pleased to answer your questions on specific problems and will recommend you the optimum coupling system to meet your needs.

www.rectus.de

Ordering Instructions / Business Conditions

General Terms and Conditions of Business

OF RECTUS GMBH, DAIMLERSTRASSE 7, 71735 EBERDINGEN-NUßDORF, GERMANY

1. Quotations for standard articles are not binding. Specially prepared quotations for standard articles are binding for a maximum of four weeks. Except where otherwise agreed, we do not provide any guarantees that articles specified in quotations are suitable for the customer's intended use. The customer's responsibility for the quality and suitability of the goods for their intended use and durability in terms of § 413 BGB (German Civil Code, Information published in brochures and other promotional materials is not binding and provides no basis for any guarantees or other statements which have a misleading influence on the basis of the contract.
2. Prices are based on the price list valid at any given time, unless specifically agreed otherwise. The customer is obliged to pay the price in full when the goods are delivered. The price includes the following for information: prices resulting from the addition of value added tax at the current rate and also, where applicable, transport costs, transport insurance etc.
3. Orders for immediate delivery will not be separately confirmed if the price, delivery time and delivery terms and the current price list, if more than 14 months elapse between order confirmation and delivery/performance, particularly in the case of blanket or call orders without order confirmation. The customer's order is deemed to be confirmed if the customer does not object to change appropriate price increases, where these are based on factors influencing prices, including general wage increases, increases in raw materials costs, inflation or comparable factors. The relevant delivery dates for blanket and/or call orders must be agreed with the customer.
4. Business terms and conditions in particular the customer's purchase terms and conditions, are not a constituent of this contract even where we do not make an explicit statement of non-acceptance.
5. Delivery is deemed to have taken place when the goods have been handed over to the carrier, notwithstanding whether loading or, with any alteration of the same, must be confirmed by us in writing, in the case of non-binding delivery dates, in particular with regard to orders for immediate delivery in terms of Section 3. The customer cannot claim compensation for delayed delivery until at least 4 weeks have elapsed following the non-binding delivery period date.
6. A delivery period shall be deemed to have been observed if the goods have left our works, or notice of readiness for despatch has been given prior to its expiry.
7. The customer is obliged to accept the goods in the manner and at the place and at the time of event of force majeure or any unforeseen hindering circumstances for which the vendor is not responsible occurring after the contract has been concluded. This clause shall also apply to such hindering circumstances occurring to the child of one of our suppliers. The supplier shall inform us of such circumstances occurring to any of our suppliers and we shall, as soon as possible after it ceases to exist.
8. In the event that delivery periods are extended due to force majeure and similar circumstances, the agreement until binding, delivery periods agreed in writing have been exceeded by 6 weeks, in the case of non-binding delivery dates, this period is extended to 10 weeks. The customer is obliged to accept the goods in the manner and at the place and at the time of event of force majeure or any unforeseen hindering circumstances for which the vendor is not responsible occurring after the contract has been concluded. This clause shall also apply to such hindering circumstances occurring to the child of one of our suppliers. The supplier shall inform us of such circumstances occurring to any of our suppliers and we shall, as soon as possible after it ceases to exist.
9. The customer is entitled to make claims against the vendor only in the event of the customer's non-compliance with its obligations against the vendor's earlier performance obligations and the customer must not complain in writing.
10. Delivery. Except where otherwise agreed, delivery shall be ex-works or ex-warehouse against invoice and at the customer's expense and risk. Except where otherwise agreed the customer is obliged to accept the goods in the manner and at the place and at the time of event of force majeure or any unforeseen hindering circumstances for which the vendor is not responsible occurring after the contract has been concluded. This clause shall also apply to such hindering circumstances occurring to the child of one of our suppliers. The supplier shall inform us of such circumstances occurring to any of our suppliers and we shall, as soon as possible after it ceases to exist.
11. The customer is entitled to make claims against the vendor only in the event of the customer's non-compliance with its obligations against the vendor's earlier performance obligations and the customer must not complain in writing.
12. The customer is entitled to make part deliveries and performance, where this can be deemed reasonable for the customer to accept.
13. Packing and despatch. In the absence of any specific agreement confirmed by the vendor in writing, the customer is obliged to accept the goods in the manner and at the place and at the time of event of force majeure or any unforeseen hindering circumstances for which the vendor is not responsible occurring after the contract has been concluded. This clause shall also apply to such hindering circumstances occurring to the child of one of our suppliers. The supplier shall inform us of such circumstances occurring to any of our suppliers and we shall, as soon as possible after it ceases to exist.
14. Payment is due in full 30 days from the invoice date. A cash-payment discount of 2% is allowed on payment within 10 days from the invoice date. Any other payment arrangements must be agreed by us in writing. Payment shall not be made by way of cheque or bill of exchange, terms of payment, or facts come to light that cast doubt on the customer's creditworthiness, without prejudice to the vendor's right to enforce further claims for damages, late payment and interest of 8% above the base rate (or, in the case of a short rate, the applicable base rate, payable by the customer to the vendor).
15. The customer is not entitled to offset claims against the vendor's claims or apply a right of retention on the basis of such claims, except where these are undisputed or legally established.
16. In the event of a complaint by the customer of a substantial or legal deficiency, the customer is entitled to withhold payments in the vendor's favour only in an amount in reasonable proportion to or provide evidence of expenditure incurred in rectifying the deficiency. Any amount withheld shall not exceed three times the cost of rectifying the deficiency.
17. All costs of demands for payment, collection and of any related legal assistance or court proceedings shall be borne by the customer. The customer is obliged to pay the costs plus VAT for each remedy. Where goods are returned on the basis of an unjustified complaint, we shall pay the return freight. Where repairs are required, the customer is obliged to pay the return freight only. We cannot accept the return of goods specifically produced in fulfillment of an order.
18. Complaint/warranty. Immediately upon receipt, the customer shall check the goods as regards quantity, type and agreed specification. Surplus or short deliveries of up to 10% of the order quantity are permitted. The customer is obliged to pay the return freight plus VAT. Obvious defects must be notified by us in writing within 2 weeks of receipt of the goods. Any

Your inquiry

Fax +49 (0) 70 42 / 100-80

[illegible]

Your address:

Name _____

Postcode/City _____

Company _____

Phone _____

Dept. _____

Fax _____

Street/No. _____

E-Mail _____

strategy in notification shall invalidate the warranty, except where the customer can demonstrate that prompt notification by him was not possible.

In the case of justified complaints, the customer is entitled to require us to remedy the defect within an appropriate time, which must be at least 2 weeks, to allow us to remedy the defect. Within this time, the customer must make available the item which is subject to complaint, or where appropriate samples of the same. Failure to do so shall invalidate the warranty.

In the event of two failures by the vendor to remedy a defect, the customer is entitled to exercise his right of withdrawal from the contract. The customer's damages are, however, restricted in accordance with Section 6 of these general delivery terms.

The vendor accepts no liability for consequential damage arising out of alterations or repairs incorrectly performed by the customer or third parties on his behalf.

The warranty term extends for one year from transfer of risk, where the customer is a person operating a business in terms of § 14 BGB, or two years in all other cases.

son operating a business in terms of § 14 BGB, or two years in all other cases.

Reservation of ownership. The vendor shall retain ownership of all the supplied goods until full and final settlement of all demands arising from the commercial transaction, including ancillary demands, claims for damages and any future claims. This also applies in particular if we accept a cheque or bill of exchange by virtue of a special arrangement, until the bill or cheque has been cleared, even in the case that all or some of our claims are included in a current account (current invoice), or where amounts have been netted out and the balance confirmed.

The goods remaining our property shall be fabricated or processed for us, as manufacturers, in terms of § 950 BGB, with no obligation on our part. The fabricated and processed goods are deemed to be goods remaining our property in terms of the previous paragraph.

Where the goods remaining our property are processed, combined or mixed with other goods, our right of co-ownership of the resultant product shall be in proportion to the share of the goods remaining our property compared to that of the other goods. If our ownership rights are annulled by connection, mixture or processing by the customer, as of now, transfers any rights or prospective rights accruing to him in the new product to that of the other goods, and holds these in custody for us, free of charge. Our co-ownership rights are deemed to be goods remaining our property in terms of the above provision.

The customer shall be entitled to resell the goods remaining on property only in the normal course of his business on his normal terms and if he is not in arrears in his payments to us in accordance with this contract. Any resale is conditional on the customer agreeing a property reservation with his customer, assigning the claim to us in accordance with these general delivery terms. The customer is not entitled to dispose of the goods remaining on property in any other way. Resale is also deemed to be the use of the goods remaining on property in the fulfillment of warehouse performance and delivery contracts.

The claims of the customer arising from the resale of the goods remaining our property are as-signed to us as of now. They serve to secure our claims in the same scope as the goods remaining our property in terms of Section 12 paragraph 1.

If the customer resells the goods remaining, our property together with other goods, the claim arising from the resale is assigned to us in the proportion of the invoice value of the goods remaining from the resale to the invoice value of the other goods. In the event of the resale of remaining our property to the invoice value of the other goods, in the event of the resale of goods, in which we have acquired proportionate co-ownership rights in accordance with Section 12 paragraph 3 of these general delivery terms, the claim corresponding to our proportionate co-ownership rights is assigned to us.

The customer is entitled to collect claims arising from the resale, until such time as we revoke the collection authorisation. Revocation of the collection authorisation is permissible and can be reasonably accepted by the customer, if circumstances arise, following conclusion

of the contract, which result in a significant deterioration in the assets of the customer, or if we become aware of such a deterioration in assets which occurred prior to conclusion of the contract, which jeopardises our claims for payment. A deterioration in assets can be deemed to have occurred, if enforcement proceedings are issued by a third party against the

deemed to have occurred, and enforcement proceedings are issued by a court partly against the customer, which are not immediately settled by the customer within 2 weeks of issue of the same, and/or an insolvency application is made against the customer's assets. In such cases, we are entitled to demand that the customer immediately advises the customer of the assignment to us and provides us with the information and documentation necessary for assignment of our claim. This does not affect our right, following a prior warning to our customer, to notify his assignment to us. The customer shall inform us immediately in the event of seizure of the goods or of a further restraint thereof by third parties.

The customer is not, under any circumstance, entitled to assign the claim in any way, including factoring transactions, which the customer is not entitled to enter into, even on the basis of the collection authorisation.

To the extent that the value of the existing collateral exceeds the secured claims by more than 20%, we undertake, at our discretion, to release collateral at the request of the customer.

In the event that the customer fails to comply with important obligations under this contract and in particular if, despite due reminder, he defaults on payment, we shall be entitled to take back the goods. Taking back the goods by us shall not constitute withdrawal from the contract in terms of § 449 subsection 2 BGB, unless we declare the same explicitly in writing to the customer.

The place of jurisdiction for all disputes arising between the parties, and the place of fulfilment of all obligations arising from this contract in commercial transactions with business agents, legal entities in public law or with a separate public law accounting entity, is the

All rights and obligations arising from this contract are subject to German law, however to the exclusion of UN purchasing law, including any transformative provision issued

Amendments or supplements to any contractual provision must be made in writing. This also applies to any amendment intended to annul the written form clause.

Small orders of less than 50.00 net shall be subject to a minimum volume surcharge of 15.00 plus VAT.

Data protection. Personal data made accessible to us in the context of the contractual relationship will be stored and processed by us in compliance with the provisions of the German Data Protection Act.

January 2002

JS GmbH
 Peter W. Klein
 Erstraße 7

Eberdingen-Nussdorf
any

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