



# Rectus Mold Couplings

Quick connect couplings for  
tempering and cooling.

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



# THE ENTIRE WORLD OF MOLD COOLING.

Dear Customers and Business Friends,

Today, for the first time, we are able to offer you a complete range of quick connect coupling systems for the field of tempering and cooling, under the Parker umbrella. With this extensive range, we are able to offer you the broadest range on the market and we are the only supplier of all three principal European profiles – International, European and French. Our systems are available both as individual products and as complete, ready-made units with any desired hose lengths and qualities. Naturally, our specialist advisers are also available at any time to provide personal advice and assistance if ever you cannot immediately find what you are looking for or if you have a particularly special problem to solve.

## Important Notes:

- Please note that the technical data, specifications and drawings in the catalogue are not binding. This information is subject to change without notice in the interest of improvement.
- We reserve the right to make technical modifications for the purposes of improvement.
- April 2009: With the actual catalogue the older versions are no longer valid.
- The interchangeability is guaranteed under the assumption that the manufacturer of the relevant product has not changed any functional part in the meantime.
- You will find important safety instructions on pages 6 and 7.

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# SAFE-LOCK™ – SAFETY WITH NO COMPROMISES.



## SAFE-LOCK™

The products marked with this system are fitted with the SAFE-LOCK™ technology developed by our designers.

Using a special mechanism, the SAFE-LOCK™ technology reliably prevents accidental uncoupling of the systems under pressure. As the normally contiguous temperatures of the media used are between 90 °C and 170 °C, accidents of this nature can result in serious burns. The only alternatives to the SAFE-LOCK™ systems are double shut-off couplings, with which, however, the complex valve technology has a strong negative impact on the flow values.

### SAFE-LOCK™ Coupling Systems

- Reliably eliminate the risk of serious burns
- Cannot be disconnected under pressure
- Are available both for our European and International ranges
- Are 100 % compatible with our standard systems and are therefore also easy to retrofit at a later date
- Are resistant to oil and water up to 180 °C
- Are compliant with EU safety directive 97/23/EF

unlocked

locked

# ALWAYS PRECISELY THE RIGHT PROFILE.



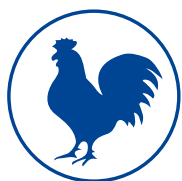
## INTERNATIONAL

Profile proven for decades in the field of plastic injection technology for two-handed coupling systems with great market penetration.



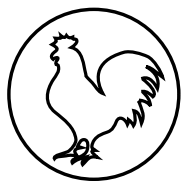
## EUROPEAN

Development of the International profile. The coupling systems with the European profile stand out for their comfortable single-handed operation and a reliable O-ring seal.



## FRENCH

Available only as a straight-through coupling without valve. O-rings are very easy to replace. Moreover, simple colour coding is possible here, by means of Colour Clip.



## FRENCHMATIC I

This range of couplings was constructed with valves as an alternative to the French profiles. All four nominal diameters in our Frenchmatic I range are available with single and double shut-off.



## FRENCHMATIC II

We supply our Frenchmatic II coupling system as a leak-free version. The range stands out for its single-handed operation and minimum leakage when disconnecting.

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

**DANGER:** failure or improper selection or improper use of quick connect couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or

improper selection or improper use of quick connect couplings or related accessories include but are not limited to:

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

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

## 1.0 GENERAL INSTRUCTIONS

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

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

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

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

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

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

## 2.0 SELECTION INSTRUCTIONS

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

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

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

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

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

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



**2.7 Locking means:** ball locking quick connect couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnection. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnection and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.

**2.8 Mechanical loads:** external forces can significantly reduce quick connect couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads and vibration. Unusual applications may require special testing prior to quick connect couplings selection.

**2.9 Specifications and standards:** when selecting quick connect couplings, government, industry and Parker specifications must be reviewed and followed as applicable.

**2.10 Vacuum:** not all quick connect couplings are suitable or recommended for vacuum service. Quick connect couplings used for vacuum applications must be selected to ensure that the quick connect couplings will withstand the vacuum and pressure of the system.

**2.11 Fire resistant fluids:** some fire resistant fluids require seals other than the standard NBR (nitrile) used in many coupling systems.

**2.12 Radiant heat:** quick connect couplings can be heated to destruction or loss of sealing without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick connect couplings.

**2.13 Welding and brazing:** heating of plated parts, including quick connect couplings and port adapters, above 450 °F (232 °C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

### 3.0 INSTALLATION INSTRUCTIONS

**3.1 Pre-installation inspection:** before installing a quick connect coupling, visually inspect it and check for correct style, body material, seal material, and catalogue number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.

**3.2 Quick connect coupling halves from other manufacturers:** if a quick connect coupling assembly is made up of one Parker RectusTema half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.

**3.3 Fitting installation:** use a thread sealant, when assembling taper pipe thread joints in quick connect couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick connect coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.

**3.4 Caps and plugs:** use dust caps and plugs when quick connect couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.

**3.5 Coupling location:** locate quick connect couplings where they can be reached for connection or disconnection without exposing the operator to slipping, falling, getting sprayed or coming in contact with hot or moving parts.

**3.6 Hose whips:** use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.

### 4.0 MAINTENANCE INSTRUCTIONS

**4.1** Even with proper selection and installation, quick connect coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:

**4.2 Visual inspection of quick connect couplings:** any of the following conditions require immediate shut down and replacement of the quick connect coupling:

- Cracked, damaged, or corroded quick connect couplings parts.
- Leaks at the fitting, valve or mating seal.
- Broken coupling mounting hardware, especially breakaway clamps.

**4.3 Visual inspection all other:**

- Leaking seals or port connections.
- Excess dirt build-up on the coupling locking means or on the interface area of either coupling half.
- Defective clamps, guards, and shields.
- System fluid level, fluid type and any entrapment.

**4.4 Functional test:** operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.

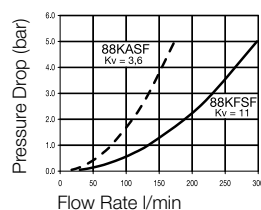
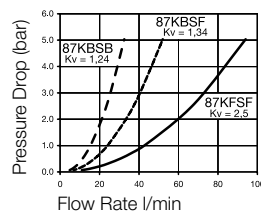
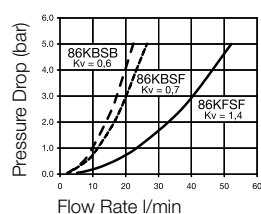
**4.5 Replacement intervals:** specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.





80% of actual size

Chart

**Technical Description**

The 86, 87 and 88 Rectus Moldtite 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, straight-through and SAFE-LOCK™ versions. The shut-off couplings (with valve) are equipped with nickel plated sleeves for quick and accurate visual differentiation.

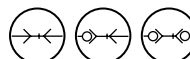
**Working Pressure:**

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

**Working Temperature\***

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

\*At a temperature below -15°C and above +200°C special seals are available on request.

**Available Valves****Material****Coupling**

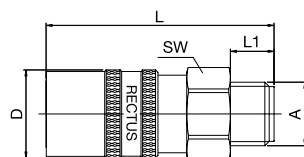
Back Body  
Valve Body  
Sleeve  
Sleeve  
Valve  
Locking Balls  
Spring  
Seal

Brass  
Brass  
Brass (without Valve)  
Brass, Nickel Plated (with Valve)  
Brass  
AISI 420  
AISI 301  
FKM

**Plug**

Plug Profile  
Back Body  
Valve  
Spring  
Seal

Brass  
Brass  
Brass  
AISI 301  
FKM

**Couplings****RECTUS Series 86/87/88**

Male Thread

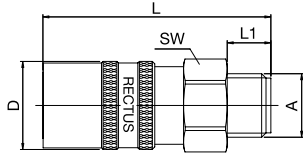









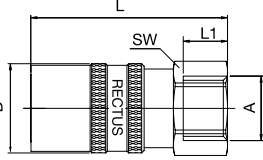






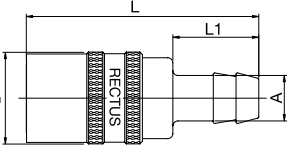






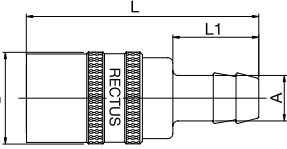






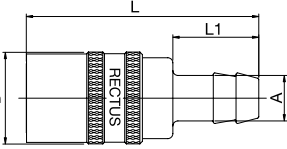




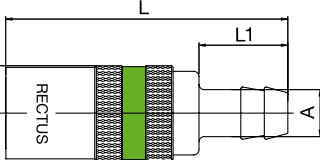








DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
6	86	G 1/4	17	47	18	9				with	86KB AW13 MVX	10	■
										without	86KF AW13 MVX	10	■
		G 3/8	19	47	18	9				with	86KB AW17 MVX	10	■
										without	86KF AW17 MVX	10	■
9	87	G 1/4	22	56,5	24	9				with	87KB AW13 MVX	10	■
										without	87KF AW13 MVX	10	■
		G 3/8	22	56,5	24	9				with	87KB AW17 MVX	10	■
										without	87KF AW17 MVX	10	■

DS = Delivery Status: ■ in stock

■ on short call

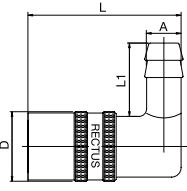
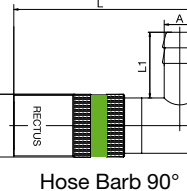
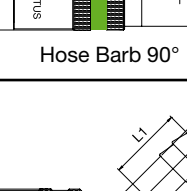
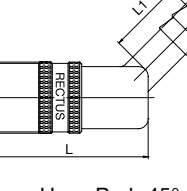
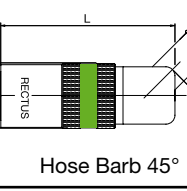
■ medium term delivery



	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread</p>	9	87	G 1/2	22	59,5	24	12				with	87KB AW21 MVX	10	
											without	87KF AW21 MVX	10	
 <p>Male Thread</p>	6	86	G 1/4	17	51,5	18	9				with	86KB AW13 MVXSL	10	
											without	86KF AW13 MVXSL	10	
			G 3/8	19	51,5	18	9				with	86KB AW17 MVXSL	10	
											without	86KF AW17 MVXSL	10	
	9	87	G 1/4	22	67	24	9				with	87KB AW13 MVXSL	10	
											without	87KF AW13 MVXSL	10	
 <p>Female Thread</p>			G 3/8	22	67	24	9				with	87KB AW17 MVXSL	10	
											without	87KF AW17 MVXSL	10	
			G 1/2	22	70	24	12				with	87KB AW21 MVXSL	10	
											without	87KF AW21 MVXSL	10	
	6	86	G 1/8	17	40	18	9				with	86KB IW10 MVX	10	
											without	86KF IW10 MVX	10	
 <p>Hose Barb</p>			G 1/4	17	40	18	9				with	86KB IW13 MVX	10	
											without	86KF IW13 MVX	10	
	9	87	G 1/4	21	51,5	24	9				with	87KB IW13 MVX	10	
											without	87KF IW13 MVX	10	
			G 3/8	21	51,5	24	9				with	87KB IW17 MVX	10	
											without	87KF IW17 MVX	10	
 <p>Hose Barb</p>	6	86	6 mm		46	18	17				with	86KB TF06 MVX	10	
											without	86KF TF06 MVX	10	
			9 mm		51	18	22				with	86KB TF09 MVX	10	
											without	86KF TF09 MVX	10	
	9	87	9 mm		64	24	22				with	87KB TF09 MVX	10	
											without	87KF TF09 MVX	10	
 <p>Hose Barb</p>			13 mm		66,5	24	25				with	87KB TF13 MVX	10	
											without	87KF TF13 MVX	10	
	13	88	19 mm		89	32	32				with	88KA TF19 MVX	10	
											without	88KF TF19 MVX	10	
 <p>Hose Barb</p>	6	86	6 mm		54	18	17				with	86KB TF06 MVXSL	10	
											without	86KF TF06 MVXSL	10	
			9 mm		59	18	22				with	86KB TF09 MVXSL	10	
											without	86KF TF09 MVXSL	10	
	9	87	9 mm		73	24	22				with	87KB TF09 MVXSL	10	
											without	87KF TF09 MVXSL	10	
			13 mm		76	24	25				with	87KB TF13 MVXSL	10	
											without	87KF TF13 MVXSL	10	

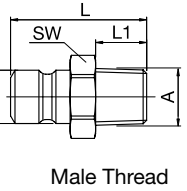
# Couplings

## RECTUS Series 86/87/88

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Hose Barb 90°</p>	6	86	6 mm		40	18	17				with	86KB TR06 MVX	10	■
											without	86KF TR06 MVX	10	■
			9 mm		40	18	22				with	86KB TR09 MVX	10	■
											without	86KF TR09 MVX	10	■
	9	87	9 mm		56	24	22				with	87KB TR09 MVX	10	■
											without	87KF TR09 MVX	10	■
 <p>Hose Barb 90°</p>			13 mm		56	24	28,5				with	87KB TR13 MVX	10	■
											without	87KF TR13 MVX	10	■
	13	88	19 mm		77	32	32				with	88KA TR19 MVX	5	■
											without	88KF TR19 MVX	5	■
	6	86	9 mm		52,5	18	22				with	86KB TR09 MVXSL	10	■
											without	86KF TR09 MVXSL	10	■
 <p>Hose Barb 90°</p>	9	87	9 mm		68,5	24	22				with	87KB TR09 MVXSL	10	■
											without	87KF TR09 MVXSL	10	■
			13 mm		68,5	24	28,5				with	87KB TR13 MVXSL	10	■
											without	87KF TR13 MVXSL	10	■
	6	86	6 mm		40	18	17				with	86KB TH06 MVX	10	■
											without	86KF TH06 MVX	10	■
 <p>Hose Barb 45°</p>			9 mm		40	18	22				with	86KB TH09 MVX	10	■
											without	86KF TH09 MVX	10	■
	9	87	9 mm		56	24	22				with	87KB TH09 MVX	10	■
											without	87KF TH09 MVX	10	■
			13 mm		56	24	25				with	87KB TH13 MVX	10	■
											without	87KF TH13 MVX	10	■
 <p>Hose Barb 45°</p>											with	87KB TH09 MVXSL	10	■
											without	87KF TH09 MVXSL	10	■
	9	87	9 mm		65,5	24	22				with	87KB TH09 MVXSL	10	■
											without	87KF TH09 MVXSL	10	■
			13 mm		65,5	24	25				with	87KB TH13 MVXSL	10	■
											without	87KF TH13 MVXSL	10	■

# Plugs

## RECTUS Series 86/87/88

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread</p>	6	86	M 10 x 1	13	23	9,5	8				without	86SF AM10 MXX	25	■
			R 1/8	13	24	9,5	9				without	86SF AK10 MXX	25	■
			R 1/4	16	29	9,5	14				with	86SB AK13 MVX	25	■
			R 1/4	16	29	9,5	12				without	86SF AK13 MXX	25	■
			R 3/8	19	30	9,5	12				without	86SF AK17 MXX	25	■
	6/9	87	R 1/4	16	34	13,5	12				with	87SB AK13 MVX	25	■
			R 1/4	16	34	13,5	12				without	87SF AK13 MXX	25	■
	9		R 3/8	19	34	13,5	12				with	87SB AK17 MVX	25	■
			R 3/8	19	34	13,5	12				without	87SF AK17 MXX	25	■
			R 1/2	24	39	13,5	17				without	87SF AK21 MXX	25	■
	13	88	R 1/2	22	44	20	17				without	88SF AK21 MXX	10	■
			R 3/4	29	45	20	19				without	88SF AK26 MXX	10	■

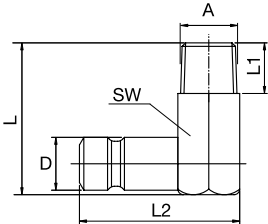
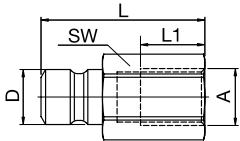
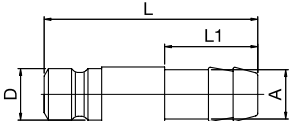
DS = Delivery Status: ■ in stock

■ on short call

■ medium term delivery

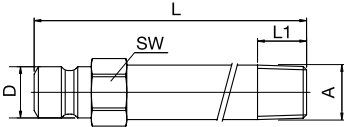
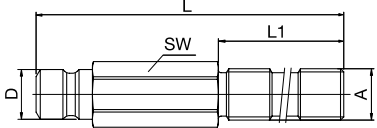
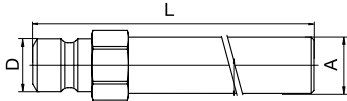
# Plugs

# RECTUS Series 86/87/88

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread 90°</p>	6	86	M 10 x 1	11	27	9,5	9	28,5			without	86SF AR10 MXX_03	25	■
			R 1/8	11	27	9,5	9	28,5			without	86SF AR10 MXX	25	■
			R 1/4	14	27	9,5	9	32			without	86SF AR13 MXX	25	■
	9	87	R 1/4	15	34	13,5	9	32			without	87SF AR13 MXX	25	■
			R 3/8	19	37	13,5	12	36			without	87SF AR17 MXX	25	■
 <p>Female Thread</p>	6	86	G 1/8	13	28	9,5	11				without	86SF IW10 MXX	25	■
			G 1/4	16	32	9,5	13				without	86SF IW13 MXX	25	■
			G 3/8	19	34	9,5	13				without	86SF IW17 MXX	25	■
	9	87	G 1/4	16	37	13,5	13				without	87SF IW13 MXX	25	■
			G 3/8	19	39	13,5	13				without	87SF IW17 MXX	25	■
 <p>Hose Barb</p>	6	86	9 mm		39	9,5	22				without	86SF TF09 MXX	25	■
	9	87	13 mm		41	13,5	21				without	87SF TF13 MXX	25	■
	13	88	19 mm		91	20	46				without	88SF TF19 MXX	10	■

# Extension Plugs

# RECTUS Series 86/87/88

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread</p>	6	86	R 1/8	11	100	9,5	9				without	86VN 1010 MXX	10	■
			R 1/8	11	150	9,5	9				without	86VN 1015 MXXS_01	10	■
			R 1/8	11	250	9,5	9				without	86VN 1025 MXX	10	■
	9	87	R 1/4	15	150	13,5	12				without	87VN 1315 MXX	10	■
			R 1/4	15	250	13,5	12				without	87VN 1325 MXX	10	■
 <p>continuous Male Thread</p>	6	86	G 1/8	11	100	9,5	60				without	86VN 1010 MXXS_01	10	■
			G 1/4	14	100	9,5	60				without	86VN 1310 MXX	10	■
	9	87	G 1/4	14	100	13,5	60				without	87VN 1310 MXX	10	■
			G 3/8	17	100	13,5	60				without	87VN 1710 MXX	10	■
 <p>without Thread</p>	6	86	10 mm	11	50	9,5					without	86VN XX05 MXX	10	■
			10 mm	11	100	9,5					without	86VN XX10 MXX	10	■
			10 mm	11	150	9,5					without	86VN XX15 MXX	10	■
			10 mm	11	200	9,5					without	86VN XX20 MXX	10	■
	9	87	14 mm	15	100	9,5					without	87VN XX10 MXX	10	■
			14 mm	15	150	9,5					without	87VN XX15 MXX	10	■
			14 mm	15	200	9,5					without	87VN XX20 MXX	10	■
			14 mm	15	250	9,5					without	87VN XX25 MXX	10	■



90% of actual size

### Technical Description

The 10, 11 and 12 Rectus Moldtite coupling series were especially developed for connecting coolant lines and injection molds. These stand out for their convenient, single-handed operation and a reliable O-ring seal. Widely used in Europe.

### Advantages

Available in single shut-off, double shut-off or straight-through versions also available with SAFE-LOCK™-technology. The straight-through couplings are equipped with nickel plated sleeves for quick and accurate visual differentiation. The angular connections prevent kinks from forming in the hose.

### Working Pressure:

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

### Working Temperature\*

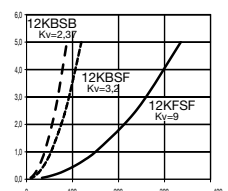
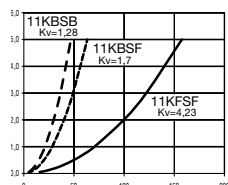
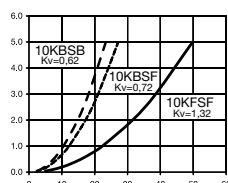
-15°C up to +200°C (FKM) depending on the medium.

\*At a temperature below

de( 1 1 1 scn /GS0 g )6. mediu1400113 M



### Chart



### Material

#### Coupling

Back Body  
Valve Body  
Sleeve  
Sleeve  
Valve  
Locking Balls  
Spring  
Seal

Brass  
Brass  
Brass (with Valve)  
Brass, Nickel Plated (without Valve)  
Brass  
AISI 420  
AISI 301  
FKM

#### Plug

Plug Profile  
Back Body  
Valve  
Spring  
Seal

Brass  
Brass  
Brass  
AISI 301  
FKM

## Couplings

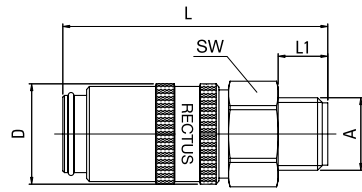
## RECTUS Series 10/11/12

	DN																	DS
	6																	<div></div> <div></div> <div></div> <div></div> <div></div>
																		<div></div> <div></div> <div></div> <div></div> <div></div>
																		<div></div> <div></div> <div></div> <div></div> <div></div>
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DS = Delivery Status:  in stock

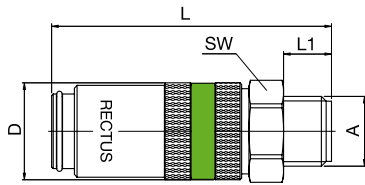
on short call

medium term delivery

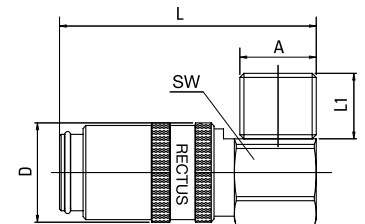


Male Thread

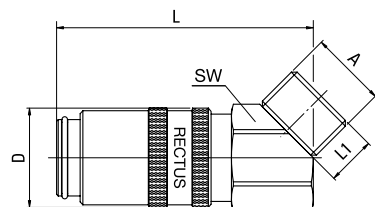
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9	11	G 1/4	22	51,5	23	9				with	11KB AW13 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AW13 MVX	10	<input checked="" type="checkbox"/>
		M 16 x 1,5	22	51,5	23	9				with	11KB AM16 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AM16 MVX	10	<input checked="" type="checkbox"/>
		G 3/8	22	51,5	23	9				with	11KB AW17 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AW17 MVX	10	<input checked="" type="checkbox"/>
		G 1/2	22	51,5	23	12				with	11KB AW21 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AW21 MVX	10	<input checked="" type="checkbox"/>
		G 1/2	30	74	32	12				with	12KB AW21 MVX	5	<input checked="" type="checkbox"/>
										without	12KF AW21 MVX	5	<input checked="" type="checkbox"/>
13	12	M 24 x 1,5	30	78	32	16				with	12KB AM24 MVX	10	<input checked="" type="checkbox"/>
										without	12KF AM24 MVX	10	<input checked="" type="checkbox"/>
		G 3/4	30	78	32	16				with	12KB AW26 MVX	5	<input checked="" type="checkbox"/>
										without	12KF AW26 MVX	5	<input checked="" type="checkbox"/>
		G 1/4	17	52,5	18	9				with	10KB AW13 MVXSL	10	<input checked="" type="checkbox"/>
										without	10KF AW13 MVXSL	10	<input checked="" type="checkbox"/>
		M 14 x 1,5	17	52,5	18	9				with	10KB AM14 MVXSL	10	<input checked="" type="checkbox"/>
										without	10KF AM14 MVXSL	10	<input checked="" type="checkbox"/>
		G 3/8	19	52,5	18	9				with	10KB AW17 MVXSL	10	<input checked="" type="checkbox"/>
										without	10KF AW17 MVXSL	10	<input checked="" type="checkbox"/>
9	11	G 1/4	22	62	24	9				with	11KB AW13 MVXSL	10	<input checked="" type="checkbox"/>
										without	11KF AW13 MVXSL	10	<input checked="" type="checkbox"/>
		M 16 x 1,5	22	62	24	9				with	11KB AM16 MVXSL	10	<input checked="" type="checkbox"/>
										without	11KF AM16 MVXSL	10	<input checked="" type="checkbox"/>
		G 3/8	22	62	24	9				with	11KB AW17 MVXSL	10	<input checked="" type="checkbox"/>
										without	11KF AW17 MVXSL	10	<input checked="" type="checkbox"/>
		G 1/2	22	65	24	12				with	11KB AW21 MVXSL	10	<input checked="" type="checkbox"/>
										without	11KF AW21 MVXSL	10	<input checked="" type="checkbox"/>
6	10	G 1/4	17	47	18	12				with	10KB AR13 MVX	10	<input checked="" type="checkbox"/>
										without	10KF AR13 MVX	10	<input checked="" type="checkbox"/>
		M 14 x 1,5	17	47	18	12				with	10KB AR14 MVX	10	<input checked="" type="checkbox"/>
										without	10KF AR14 MVX	10	<input checked="" type="checkbox"/>
		M 16 x 1,5	22	53,5	23	12				with	11KB AR16 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AR16 MVX	10	<input checked="" type="checkbox"/>
		M 24 x 1,5	30	80	32	18				with	12KB AR24 MVX	10	<input checked="" type="checkbox"/>
										without	12KF AR24 MVX	10	<input checked="" type="checkbox"/>
		G 1/4	17	47	18	9				with	10KB AH13 MVX	10	<input checked="" type="checkbox"/>
										without	10KF AH13 MVX	10	<input checked="" type="checkbox"/>
13	12	M 14 x 1,5	17	47	18	9				with	10KB AH14 MVX	10	<input checked="" type="checkbox"/>
										without	10KF AH14 MVX	10	<input checked="" type="checkbox"/>
		M 16 x 1,5	22	53,5	23	9				with	11KB AH16 MVX	10	<input checked="" type="checkbox"/>
										without	11KF AH16 MVX	10	<input checked="" type="checkbox"/>
		M 24 x 1,5	30	80	32	18				with	12KB AH24 MVX	10	<input checked="" type="checkbox"/>
										without	12KF AH24 MVX	10	<input checked="" type="checkbox"/>



Male Thread



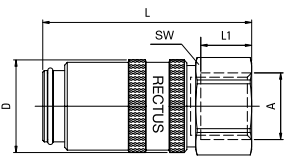
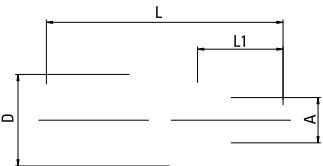
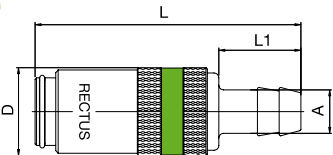
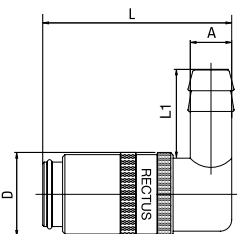
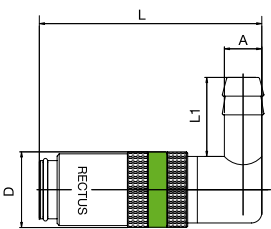
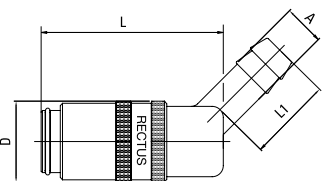
Male Thread 90°



Male Thread 45°

# Couplings

## RECTUS Series 10/11/12

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Female Thread</p>	6	10	G 1/4	17	41	18	10				with	10KB IW13 MVX	10	■
											without	10KF IW13 MVX	10	■
			G 3/8	19	45	18	10				with	10KB IW17 MVX	10	■
											without	10KF IW17 MVX	10	■
	9	11	G 1/4	21	46,5	23	10				with	11KB IW13 MVX	10	■
											without	11KF IW13 MVX	10	■
			M 16 x 1,5	21	46,5	23	10				with	11KB IM16 MVX	10	■
											without	11KF IM16 MVX	10	■
			G 3/8	21	46,5	23	10				with	11KB IW17 MVX	10	■
											without	11KF IW17 MVX	10	■
 <p>Hose Barb</p>	6	10	9 mm		52	18	22				with	10KB TF09 MVX	10	■
											without	10KF TF09 MVX	10	■
	9	11	13 mm		61,5	23	25				with	11KB TF13 MVX	10	■
											without	11KF TF13 MVX	10	■
	13	12	19 mm		90	32	32				with	12KB TF19 MVX	5	■
											without	12KF TF19 MVX	5	■
 <p>Hose Barb</p>	6	10	9 mm		60	18	22				with	10KB TF09 MVXSL	10	■
											without	10KF TF09 MVXSL	10	■
	9	11	13 mm		71	24	25				with	11KB TF13 MVXSL	10	■
											without	11KF TF13 MVXSL	10	■
 <p>Hose Barb 90°</p>	6	10	9 mm		41	18	22				with	10KB TR09 MVX	10	■
											without	10KF TR09 MVX	10	■
	9	11	13 mm		51	23	28,5				with	11KB TR13 MVX	10	■
											without	11KF TR13 MVX	10	■
	13	12	19 mm		78	32	32				with	12KB TR19 MVX	5	■
											without	12KF TR19 MVX	5	■
 <p>Hose Barb 90°</p>	6	10	9 mm		53,5	18	22				with	10KB TR09 MVXSL	10	■
											without	10KF TR09 MVXSL	10	■
	9	11	13 mm		63,5	24	28,5				with	11KB TR13 MVXSL	10	■
											without	11KF TR13 MVXSL	10	■
 <p>Hose Barb 45°</p>	6	10	9 mm		52	18	22				with	10KB TH09 MVX	10	■
											without	10KF TH09 MVX	10	■
	9	11	13 mm		51	23	25				with	11KB TH13 MVX	10	■
											without	11KF TH13 MVX	10	■
	13	12	19 mm		78	32	30				with	12KB TH19 MVX	5	■
											without	12KF TH19 MVX	5	■

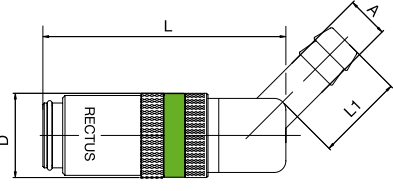




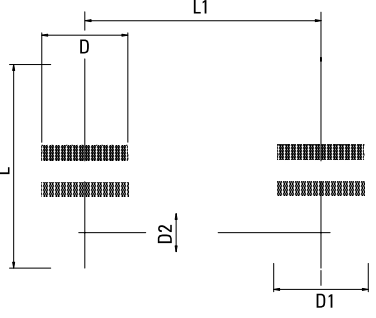


















DS = Delivery Status: ■ in stock

■ on short call

■ medium term delivery

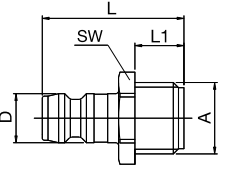













# Couplings

# RECTUS Series 10/11/12

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Hose Barb 45°</p>	6	10	9 mm		60	18	22				with	10KB TH09 MVXSL	10	
											without	10KF TH09 MVXSL	10	
	9	11	13 mm		60,5	24	25				with	11KB TH13 MVXSL	10	
											without	11KF TH13 MVXSL	10	
 <p>Twin-Coupling</p>	6	10			43	18	125		20	8	with	10KB UK125 MVX	1	
											without	10KF UK125 MVX	1	
							250				with	10KB UK250 MVX	1	
											without	10KF UK250 MVX	1	
							500				with	10KB UK500 MVX	1	
											without	10KF UK500 MVX	1	
	9	11			53	23	125		26	10	with	11KB UK125 MVX	1	
											without	11KF UK125 MVX	1	
							250				with	11KB UK250 MVX	1	
											without	11KF UK250 MVX	1	
							500				with	11KB UK500 MVX	1	
											without	11KF UK500 MVX	1	
	13	12			80	32	160		36	14	with	12KB UK160 MVX	1	
											without	12KF UK160 MVX	1	
							315				with	12KB UK315 MVX	1	
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							500				with	12KB UK500 MVX	1	
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# Plugs

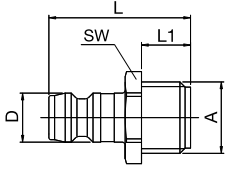
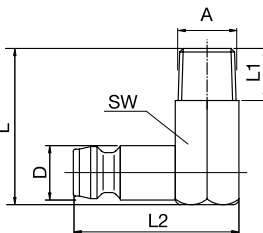
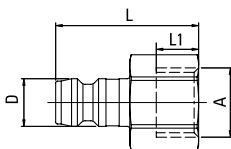
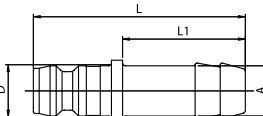
# RECTUS Series 10/11/12

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	Version	Valve	Part Number	PU	DS
 <p>Male Thread</p>	6	11	M 8 x 0,75	11	24	9	7		Brass	without	10SF AM08 MXX	25	
									AISI 303	without	10SF AM08 RXX	25	
			M 10 x 1	11	24	9	7		Brass	without	10SF AM10 MXX	25	
									AISI 303	without	10SF AM10 RXX	25	
			G 1/8	11	24	9	7		Nickel Pl.	without	10SF AW10 MXN	25	
									AISI 303	without	10SF AW10 RXX	25	
			M 12 x 1,5	14	27	9	10		Brass	without	10SF AM12 MXX	25	
			G 1/4	15	29	9	12		Nickel Pl.	with	10SB AW13 MVN	25	
			G 1/4	15	26	9	9		Nickel Pl.	without	10SF AW13 MXN	25	
			G 1/4	15	26	9	9		AISI 303	without	10SF AW13 RXX	25	
			M 14 x 1,5	15	29	9	12		Brass	with	10SB AM14 MVX	25	
			M 14 x 1,5	15	26	9	9		Brass	without	10SF AM14 MXX	25	
			G 3/8	17	30	9	10		Nickel Pl.	without	10SF AW17 MXN	25	



## Plugs

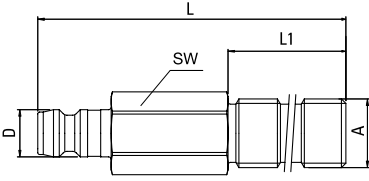




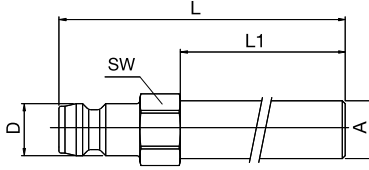










## RECTUS Series 10/11/12

	DN	Series	Conne- ction A	Hex SW	L mm	D mm	L1 mm	L2 mm	Version	Valve	Part Number	PU	DS
 <p>Male Thread</p>	6	11	G 1/8	14	25	13,5	8		Nickel Pl.	without	11SF AW10 MXN	25	■
			G 1/4	15	31	13,5	12		Nickel Pl.	with	11SB AW13 MVN	25	■
			G 1/4	15	26	13,5	9		Nickel Pl.	without	11SF AW13 MXN	25	■
			G 1/4	15	26	13,5	9		AISI 303	without	11SF AW13 RXX	25	■
			M 14 x 1,5	15	26	13,5	9		Brass	without	11SF AM14 MXX	25	■
			M 16 x 1,5	17	30	13,5	12		Brass	with	11SB AM16 MVX	25	■
			M 16 x 1,5	17	26	13,5	9		Brass	without	11SF AM16 MXX	25	■
			G 3/8	17	30	13,5	12		Nickel Pl.	with	11SB AW17 MVN	25	■
			G 3/8	17	26	13,5	9		Nickel Pl.	without	11SF AW17 MXN	25	■
			G 3/8	17	26	13,5	9		AISI 303	without	11SF AW17 RXX	25	■
	13	12	G 1/2	22	47	19	12		Nickel Pl.	without	12SF AW21 MXN	25	■
			M 24 x 1,5	27	51	19	16		Brass	with	12SB AM24 MVX	25	■
 <p>Male Thread 90°</p>	6	10	M 8 x 0,75	11	27	9	9	28,5	Brass	without	10SF AR08 MXX	25	■
			M 10x1	11	27	9	9	28,5	Brass	without	10SF AR10 MXX	25	■
			G 1/8	11	27	9	9	28,5	Nickel Pl.	without	10SF AR10 MXN	25	■
			G 1/4	11	27	9	9	28,5	Nickel Pl.	without	10SF AR13 MXN	25	■
	9	11	G 1/4	15	34	13,5	11	32	Nickel Pl.	without	11SF AR13 MXN	25	■
			M 14 x 1,5	15	34	13,5	11	32	Brass	without	11SF AR14 MXX	25	■
			G 3/8	15	34	13,5	11	32	Nickel Pl.	without	11SF AR17 MXN	25	■
	13	12	G 1/2	24	47	19	16	54	Nickel Pl.	without	12SF AR21 MXN	5	■
			M 24 x 1,5	24	47	19	16	54	Brass	without	12SF AR24 MXX	5	■
 <p>Female Thread</p>	6	10	G 1/8	11	24	9	7		Nickel Pl.	without	10SF IW10 MXN	25	■
			G 1/4	16	27	9	8		Nickel Pl.	without	10SF IW13 MXN	25	■
	9	11	G 1/4	16	33	13,5	8		Nickel Pl.	without	11SF IW13 MXN	25	■
 <p>Hose Barb</p>	6	10	9 mm		38	9	22		Brass	without	10SF TF09 MXX	25	■
	9	11	9 mm		41	13,5	25		Brass	without	11SF TF09 MXX	25	■
			13 mm		41	13,5	25		Brass	without	11SF TF13 MXX	25	■
	13	12	13 mm		61	19	32		Brass	without	12SF TF13 MXX	5	■
			19 mm		61	19	32		Brass	without	12SF TF19 MXX	5	■

DS = Delivery Status: ■ in stock

■ on short call

■ medium term delivery

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	Version	Valve	Part Number	PU	DS
 <p>continuous Male Thread</p>	6	10	G 1/8	11	100	9	60		Brass	without	10VN 1010 MXX	10	
			G 1/4	14	100	9	60		Brass	without	10VN 1310 MXX	10	
	9	11	G 1/4	14	100	13,5	60		Brass	without	11VN 1310 MXX	10	
			G 3/8	19	100	13,5	60		Brass	without	11VN 1710 MXX	10	
 <p>without Thread</p>	6	10	8 mm	9	63	9	42		Brass	without	10VN XX063 MXX	10	
			8 mm	9	100	9	79		Brass	without	10VN XX10 MXX	10	
			10 mm	11	120	9	100		Brass	without	10VN XX12 MXX	10	
			10 mm	11	240	9	220		Brass	without	10VN XX24 MXX	10	
			10 mm	11	360	9	340		Brass	without	10VN XX36 MXX	10	
	9	11	14 mm	15	150	13,5	125		Brass	without	11VN XX15 MXX	10	
			14 mm	15	300	13,5	275		Brass	without	11VN XX30 MXX	10	
			14 mm	15	450	13,5	425		Brass	without	11VN XX45 MXX	10	
	13	12	21 mm	22	500	19	465		Brass	without	12VN XX50 MXX	10	
			21 mm	22	800	19	765		Brass	without	12VN XX80 MXX	10	



Nominal Diameter

8/12



RECTUS Series

608/612

90% of actual size

### Technical Description

The 608/612 series (French series) has been specially developed for cooling in the field of plastic injection machines/ molds. Using vertical plug inserts, the cooling connection can be installed directly in the mold/machine, so the external contour has no predruding extension components. This allows easy and safe handling during the work process and prevents damage to the coupling and the mold.

This system is supplied as a "straight-through coupling" with no valves. Coding of the in and outlets can be represented by simple fixing of the coloured clips/rings onto the coupling and plug.

### Advantages

The use of the locking balls means that an optimum grip of the plug connection is guaranteed, even with forces that are applied laterally.

The simple unlocking mechanism, which is optimised by knurling at the end of the sleeve, can be operated by pulling back once on the sleeve.

### Available Valves



### Working Pressure:

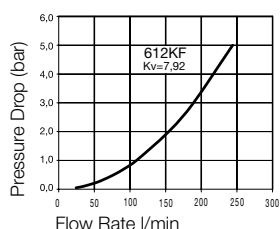
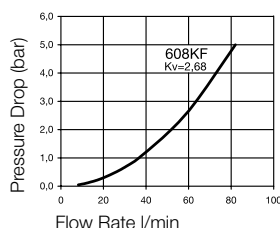
PB = 20 bar, maximum static working pressure with safety factor of 4 to 1.

### Working Temperature\*

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

\*At a temperature below -15°C and above +200°C special seals are available on request.

### Chart



### Material

#### Coupling

Body  
Locking Balls  
Spring  
Seal

Brass, Nickel Plated  
AISI 420  
AISI 301  
FKM

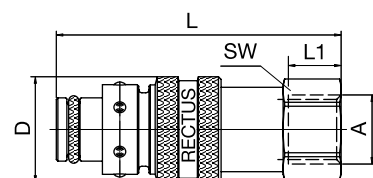
#### Plug

Plug

Brass, Nickel Plated

## Couplings

## RECTUS Series 608/612



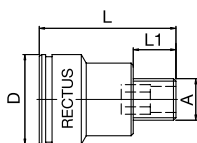
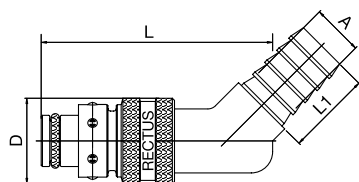
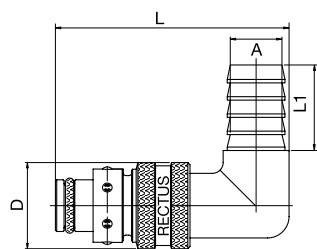
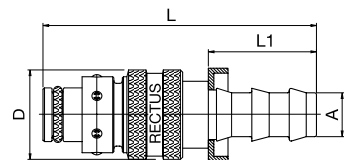
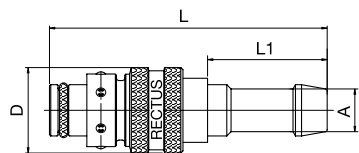
Female Thread

DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
8	608	G 1/4	17	54	20	10				without	608KF IW13 MVN	10	■ □

DS = Delivery Status: ■ in stock

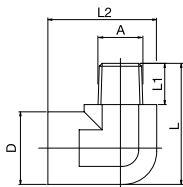
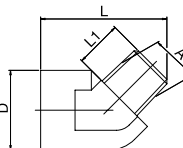
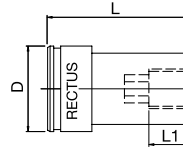
■ □ on short call

□ medium term delivery



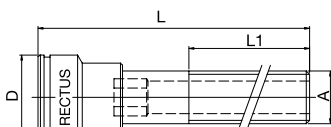
# Couplings

# RECTUS Series 608/612

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread 90°</p>	8	608	R 1/8		34	22	11	33			without	608SF AR10 MXN	10	■ □
			G 1/4		37	22	13	33			without	608SF AR13 MXN	10	■ □
			G 3/8		37	22	13	33			without	608SF AR17 MXN	10	■ □
 <p>Male Thread 45°</p>	8	608	R 1/8		33	22	10,5				without	608SF AH10 MXN	10	■ □
			R 1/4		35	22	13				without	608SF AH13 MXN	10	■ □
 <p>Female Thread</p>	6	608	G 1/8	6	35	21	10				without	608SF IW10 MXN	10	■ □
			G 1/4	8	40	21	14				without	608SF IW13 MXN	10	■ □
	12	612	G 3/8	12	49	32	14				without	612SF IW17 MXN	10	■ □
			G 1/2	12	50	32	14				without	612SF IW21 MXN	10	■ □


# Extension Plugs

# RECTUS Series 608/612

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread</p>	8	608	G 1/8	6	50	21	28				without	608VN 1005 MXN	10	■ □
			G 1/8	6	100	21	60				without	608VN 1010 MXN	10	■ □
			G 1/8	6	150	21	60				without	608VN 1015 MXN	10	■ □
			G 1/4	8	50	21	28				without	608VN 1305 MXN	10	■ □
			G 1/4	8	100	21	60				without	608VN 1310 MXN	10	■ □
			G 1/4	8	150	21	60				without	608VN 1315 MXN	10	■ □
			G 1/4	8	200	21	60				without	608VN 1320 MXN	10	■ □

# Color Clip for Couplings








# RECTUS Series 608/612

	DN	Series		Color	Part Number	PU	DS
 <p>DHX 608 KXX KXB</p>	8	608	Clip for Coupling	red	DHX 608 KXX KXR	10	■ □
			Clip for Coupling	blue	DHX 608 KXX KXB	10	■ □
			Clip for Coupling	black	DHX 608 KXX KXS	10	■ □
	12	612	Clip for Coupling	red	DHX 612 KXX KXR	10	■ □
			Clip for Coupling	blue	DHX 612 KXX KXB	10	■ □
			Clip for Coupling	black	DHX 612 KXX KXS	10	■ □

DS = Delivery Status: ■ in stock

□ on short call

□ medium term delivery

 DHX 608 SXX KXB	DN	Series		Color	Part Number	PU	DS
	8	608	Clip for Plugs	red	DHX 608 SXX KXR	10	
			Clip for Plugs	blue	DHX 608 SXX KXB	10	
			Clip for Plugs	black	DHX 608 SXX KXS	10	
	12	612	Clip for Plugs	red	DHX 612 SXX KXR	10	
			Clip for Plugs	blue	DHX 612 SXX KXB	10	
			Clip for Plugs	black	DHX 612 SXX KXS	10	



FRENCHMATIC I

Nominal Diameter

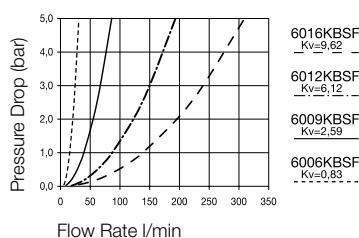
6/9/12/16

RECTUS Series  
6006/6009/6012/6016

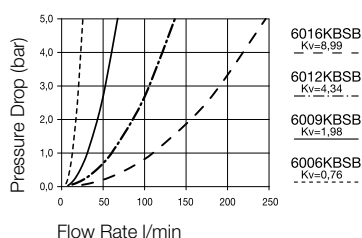
80% of actual size

## Chart

Single Shut-Off



Double Shut-Off



## Technical Description

This range of couplings was constructed with valves as an alternative to the French profiles. All four nominal diameters in our Frenchmatic I range are available with single and double shut-off.

## Advantages

The locking balls guarantee an optimum hold by the insert connection even with forces acting from the side.

Optimum flow rate with absolute minimal flow resistance.

## Working Pressure:

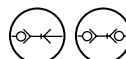
PB = 20 bar, maximum static working pressure with safety factor of 4 to 1.

## Working Temperature\*

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

\*At a temperature below -15°C and above +200°C special seals are available on request.

## Available Valves



## Material

## Coupling

Body  
Locking Balls  
Spring  
Seal

Brass, Nickel Plated  
AISI 420  
AISI 301  
FKM

## Plug

Plug Profile  
Back Body  
Valve  
Spring  
Seal

## Series 6006/6009/6012

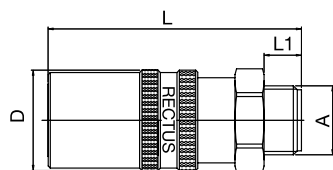
Brass, Nickel Plated  
Brass, Nickel Plated  
Brass  
AISI 301  
FKM

## Series 6016

Steel, Zinc Plated  
Brass, Nickel Plated  
Brass  
AISI 301  
FKM

## Couplings

## RECTUS Series 6006/6009/6012/6016



Male Thread

DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
6	6006	G 1/4	17	54	20	9				with	6006KB AW13 MVN	10	■ □
9	6009	G 3/8	22	61	24	9				with	6009KB AW17 MVN	10	■ □
12	6012	G 1/2	30	74,5	32	12				with	6012KB AW21 MVN	10	■ □
16	6016	G 3/4	34	90,5	38	16				with	6016KB AW26 MVN	5	■ □

DS = Delivery Status: ■ in stock

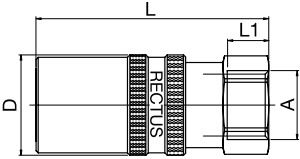
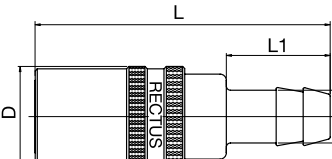
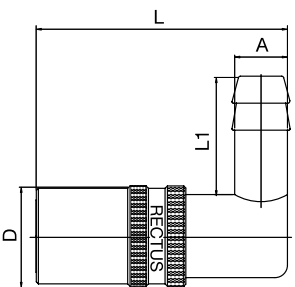
□ on short call

□ medium term delivery



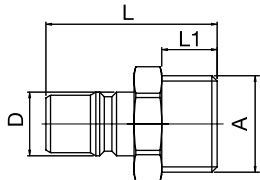
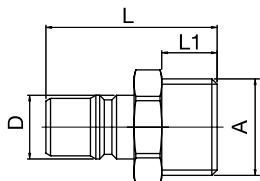
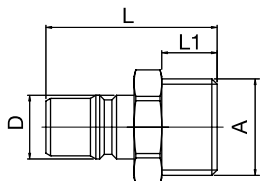
## Couplings

## RECTUS Series 6006 / 6009 / 6012 / 6016

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Female Thread</p>	6	6006	G 1/4	17	47	20	10				with	6006KB IW13 MVN	10	■
	9	6009	G 3/8	21	56	24	10				with	6009KB IW17 MVN	10	■
	12	6012	G 1/2	30	59,5	32	12				with	6012KB IW21 MVN	10	■
	16	6016	G 3/4	34	90,5	38	16				with	6016KB IW26 MVN	5	■
 <p>Hose Barb</p>	6	6006	8 mm		58	20	22				with	6006KB TF08 MVN	10	■
	9	6009	12 mm		71	24	25				with	6009KB TF12 MVN	10	■
	12	6012	16 mm		90,5	32	32				with	6012KB TF16 MVN	10	■
	16	6016	19 mm		112,5	38	36				with	6016KB TF19 MVN	5	■
 <p>Hose Barb 90°</p>	6	6006	8 mm		47	20	22				with	6006KB TR08 MVN	10	■
	9	6009	10 mm		60,5	24	22				with	6009KB TR10 MVN	10	■
			12 mm		60,5	24	28,5				with	6009KB TR12 MVN	10	■

## Plugs

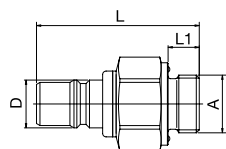
## RECTUS Series 6006 / 6009 / 6012 / 6016

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	Version	Valve	Part Number	PU	DS
 <p>Male Thread</p>	9	6009	G 1/2	22	37	13,8	12		Brass	with	6009SB AW21 MVN	10	■
									Brass	without	6009SF AW21 MXN	10	■
	12	6012	R 1/2	22	42	17,8	17		Brass	without	6012SF AK21 MXN	10	■
			G 3/4	27	46	17,8	16		Brass	with	6012SB AW26 MVN	10	■
 <p>Male Thread with Internal Hexagon</p>									Brass	without	6012SF AW26 MXN	10	■
	16	6016	R 3/4	27	59	22,4	19		Steel	without	6016SF AK26 SXZ	10	■
			G 1	32	62	22,4	24		Steel	with	6016SB AW33 SVZ	10	■
 <p>Male Thread with Internal Hexagon</p>	6	6006	R 1/8	5	30	10	9		Brass	without	6006SF AK10 MXN	10	■
	9	6009	R 1/4	8	35	13,8	12		Brass	without	6009SF AK13 MXN	10	■
			R 3/8	8	35	13,8	12		Brass	without	6009SF AK17 MXN	10	■
	12	6012	R 3/8	10	40	17,8	12		Brass	without	6012SF AK17 MXN	10	■

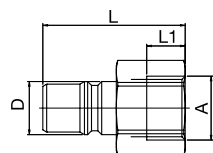
⚠ Please consider our security advices on the pages 6/7 ⚠

# Plugs

## RECTUS Series 6006 / 6009 / 6012 / 6016



Male Thread  
with additional Seal



Female Thread

DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	Version	Valve	Part Number	PU	DS
6	6006	G 1/8	17	45	9,4	7		Brass	with	6006SB AO10 MVN	10	■□
9	6009	G 1/4	19	49	13,8	9		Brass	with	6009SB AO13 MVN	10	■□
		G 3/8	24	47	13,8	9		Brass	with	6009SB AO17 MVN	10	■□
		G 1/2	27	50	13,8	12		Brass	with	6009SB AO21 MVN	10	■□
12	6012	G 3/8	24	61	17,8	9		Brass	with	6012SB AO17 MVN	10	■□
		G 1/2	27	62	17,8	12		Brass	with	6012SB AO21 MVN	10	■□
		G 3/4	34	64	17,8	16		Brass	with	6012SB AO26 MVN	10	■□
16	6016	G 3/4	34	81	22,4	16		Steel	with	6016SB AO26 SVZ	5	■□
		G 1	41	84	22,4	19		Steel	with	6016SB AO33 SVZ	5	■□
6	6006	G 1/8	17	47	9,4	7		Brass	with	6006SB IW10 MVN	10	■□
		G 1/4	17	34	9,4	11		Brass	without	6006SF IW13 MXN	10	■□
9	6009	G 1/4	19	46	13,8	10		Brass	with	6009SB IW13 MVN	10	■□
		G 3/8	22	48	13,8	10		Brass	with	6009SB IW17 MVN	10	■□
		G 3/8	22	37	13,8	10		Brass	without	6009SF IW17 MXN	10	■□
12	6012	G 1/2	27	45	17,8	12		Brass	without	6012SF IW21 MXN	10	■□
16	6016	G 3/4	32	80,5	22,4	16		Steel	with	6016SB IW26 SVZ	5	■□
		G 3/4	32	58	22,4	16		Steel	with	6016SF IW26 SXZ	5	■□

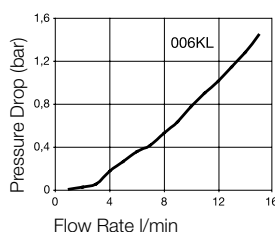
DS = Delivery Status: ■ in stock

■□ on short call

■□ medium term delivery

**Technical Description**

Flatface coupling system for cooling circuits. Extremely low leakage when disconnecting and, at the same time, no air lock in the system. Use with cold water, hot water and with thermo-oil at temperatures of up to 200 °C. Top efficiency with maximum flow and limited pressure drop.

**Tests with Oil Viscosity  
32cSt at 40 °C as per  
ISO 7241-2:2000**
**Advantages**

Easy to handle with single-handed operation and the knurled sleeve design.

Extremely durable due to the robust design.

**Available Valves****Material****Coupling**

Back Body  
Valve Body  
Sleeve  
Valve  
Spring, Locking Ring  
Locking Balls  
Seal

**Plug**

Plug Profile  
Back Body  
Valve  
Spring  
Seal

**Working Pressure**

PB = 60 bar, maximum static working pressure with safety factor of 4 to 1.

**Working Temperature\***

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

\*At a temperature below -15°C and above +200°C special seals are available on request.

Brass  
Stainless Steel  
Stainless Steel  
Brass, Nickel Plated  
Stainless Steel  
Stainless Steel  
FKM, VMQ

Stainless Steel  
Brass  
Brass, Nickel Plated  
Stainless Steel  
FKM

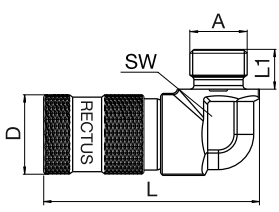
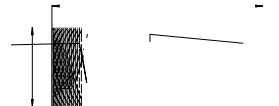
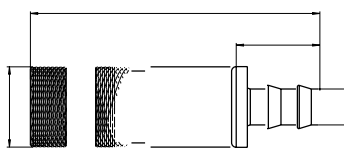
80% of actual size

**Couplings****RECTUS Series 006KL**

	DN	Series	Connec- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 Male Thread	6	006	M 16 x 1,5	20	55,5	22	11				with	006KL AM16 MVX	10	
 Male Thread with additional ED Seal	6	006	G 1/4	21	60,8	22	11				with	006KL AO13 MVX	10	

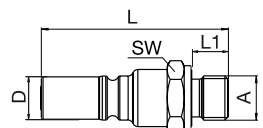
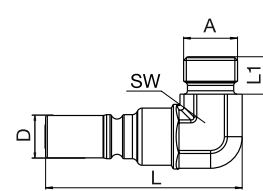
# Couplings

## RECTUS Series 006KL

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread 90°</p>	6	006	M 16 x 1,5	17	59,2	22	11				with	006KL AR16 MVX	10	■□
 <p>Female Thread</p>	6	006	G 1/4	20	57,9	22	14				with	006KL IW13 MVX	10	■□
 <p>Hose Barb</p>	6	006	10 mm	20	79,4	22	23				with	006KL TP10 MVX	10	■□

# Valved Plugs

## RECTUS Series 006KL

	DN	Series	Conne- tion A	Hex SW	L mm	D mm	L1 mm	L2 mm	D1 mm	D2 mm	Valve	Part Number	PU	DS
 <p>Male Thread</p>	6	006	G 1/4	19	55	12,5	11				with	006SL AW13 MVX	10	■□
 <p>Male Thread 90°</p>	6	006	M 16 x 1,5	16	57,8	12,5	11				with	006SL AR16 MVX	10	■□

DS = Delivery Status: ■ in stock

□ on short call

□ medium term delivery

**Technical Description**

Multicoupling system as plate or individual component for connecting hose combinations. Special coupling body Teflon coating giving greater robustness, lower coupling forces, and resistance to liquid media. The standard version consists of a floating plate fitted with 8 quick connect couplings, 2 handles and 2 locking couplings as well as a fixed plate fitted with 8 plugs and 2 locking bolts. The layout is asymmetrical to avoid mixing up the circulation systems.

**Advantages**

The safety locking system prevents unintentional disconnection.

**Available Valves****Material  
Coupling Plate**

Plate with 2 Handles  
8 Multi Couplings  
Back Body  
Valve Body  
Inner Parts  
Springs  
Seals  
Locking Rings  
2 Locking Couplings

**Working Pressure**

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

**Working Temperature\***

-20°C up to +100°C (NBR)  
-40°C up to +120/150°C (EPDM)  
-15°C up to +200°C (FKM)  
0°C up to 316°C (FFKM)

\*At a temperature below -15°C and above +200°C special seals are available on request.

Aluminium, elox.

Brass, Nickel Plated  
Steel Hardened DNC-PTFE-coated  
Brass  
AISI 301  
FKM  
AISI 301  
Steel Hardened, Nickel Plated

**Plug Plate**

Plate  
8 Multi-Plugs  
Back Body  
Plug  
Inner Parts  
Springs  
Seals  
Locking Rings  
2 Locking Bolts

Aluminium, elox.

Brass, Nickel Plated  
Steel Hardened DNC-PTFE-coated  
Brass  
AISI 301  
FKM  
AISI 301  
Steel Hardened, Nickel Plated

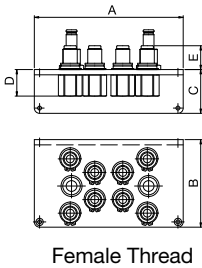
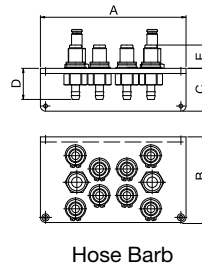
40% of actual size

**Coupling Plate****RECTUS Series 08**

	DN	Series	Connec- tion A	Hex SW	A mm	B mm	C mm	D mm	E mm	L mm	Valve	Part Number	PU	DS
 Female Thread	8,1	08	G 1/2		170	100	50	30	18		without	08KF IW21 SVN	1	■
											with	08KL IW21 SVN	1	■
 Hose Barb	8,1	08	9 mm		170	100	50	36	18		without	08KF TF09 SVN	1	■
											with	08KL TF09 SVN	1	■
			13 mm		170	100	50	44	18		without	08KF TF13 SVN	1	■
											with	08KL TF13 SVN	1	■

# Plug Plate

## RECTUS Series 08

	DN	Series	Conne- ction A	Hex SW	A mm	B mm	C mm	D mm	E mm	L mm	Valve	Part Number	PU	DS
 <p>Female Thread</p>	8,1	08	G 1/2		170	100	50	30	27		without	08SF IW21 SXN	1	■
											with	08SL IW21 SXN	1	■
 <p>Hose Barb</p>	8,1	08	9 mm		170	100	50	44	27		without	08SF TF09 SXN	1	■
											with	08SL TF09 SXN	1	■
			13 mm		170	100	50	57	27		without	08SF TF13 SXN	1	■
											with	08SL TF13 SXN	1	■

DS = Delivery Status:

■ in stock

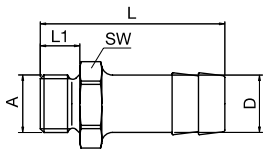
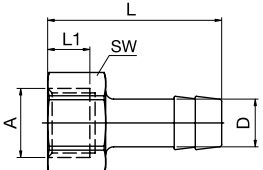
□ on short call

□ medium term delivery

# Components

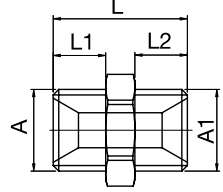
## Hose Tails

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
 <p>Male Thread</p>	M 8 x 0,75		9	11	33,5	7				GT 08/09	25	■
	M 10 x 1		9	11	33,5	7				GT 10/09S_02	25	■
	G 1/8		9	14	33	7				GT 10/09	25	■
	G 1/4		9	17	35	9				GT 13/09	25	■
	M 12 x 1,5		13	15	40	9				GT 12/13S_01	25	■
	G 1/4		13	17	42	9				GT 13/13	25	■
	M 14 x 1,5		13	17	43	10				GT 14/13	10	■
	M 16 x 1,5		13	17	40	9				GT 16/13	10	■
	G 3/8		13	19	42	9				GT 17/13	25	■
	M 24 x 1,5		19	27	56	16				GT 24/19	10	■
	G 1/2		19	24	54	12				GT 21/19	10	■
	G 3/4		19	32	60	16				GT 26/19	10	■
 <p>Female Thread</p>	G 1/8		9	14	33	8				GI 10/09	25	■
	G 1/4		9	17	33	8				GI 13/09	25	■
	M 14 x 1,5		9	17	32	10				GI 14/09	10	■
	G 1/4		13	17	39	8				GI 13/13	25	■
	M 16 x 1,5		13	22	40	10,5				GI 16/13	10	■
	G 3/8		13	19	40	8				GI 17/13	10	■

## Male x Male Nipples

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
 <p>Male Thread Rectuloc-sealed, knurled Thread</p>	M 14 x 1,5	M 14 x 1,5		17	23	9	9			DN 14/14S	10	■
	M 14 x 1,5	G 1/4		17	23	9	9			DN 13/14S	10	■
	G 1/4	G 1/4		17	23	9	9			DN 13/13S_09	10	■
	M 16 x 1,5	M 16 x 1,5		19	23	9	9			DN 16/16S	10	■
	M 16 x 1,5	G 3/8		19	23	9	9			DN 16/17S	10	■
	G 3/8	G 3/8		19	23	9	9			DN 17/17S_06	10	■
	G 1/2	M 14 x 1,5		22	27	12	9			DN 14/21S	10	■
	G 1/2	M 16 x 1,5		22	27	12	9			DN 16/21S	10	■
	G 1/2	G 1/2		22	30	12	12			DN 21/21S_08	10	■
	M 24 x 1,5	G 1/2		27	36	16	12			DN 21/24S	10	■
	G 3/4	G 3/4		27	40	16	16			DN 26/26S_03	10	■
	G 3/4	M 24 x 1,5		27	40	16	16			DN 24/26S	10	■



## Male x Male Nipples, tapered

## RECTUS Components

	Connection A	Connection A1	d mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
<p>Male Thread</p>	R 1/8		6		50					DN 10K/50SZ	10	■ □
	R 1/8		6		100					DN 10K/100SZ	10	■ □
	R 1/8		6		150					DN 10K/150SZ	10	■ □
	R 1/8		6		200					DN 10K/200SZ	10	■ □
	R 1/4		9		50					DN 13K/50SZ	10	■ □
	R 1/4		9		100					DN 13K/100SZ	10	■ □
	R 1/4		9		150					DN 13K/150SZ	10	■ □
	R 1/4		9		200					DN 13K/200SZ	10	■ □
	R 3/8		12		100					DN 17K/100SZ	10	■ □
	R 3/8		12		150					DN 17K/150SZ	10	■ □
	R 3/8		12		200					DN 17K/200SZ	10	■ □

## Reducing Bushes, short

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
<p>Male Thread Rectuloc-sealed, knurled Thread</p>	G 1/4	G 1/8		17	11	7				RK 10/13S_07	10	■ □
	M 14 x 1,5	M 10 x 1		17	11	7				RK M10/M14S	10	■ □
	G 3/8	G 1/4		19	13	9				RK 13/17S_09	10	■ □
	M 18 x 1,5	M 14 x 1,5		22	14	9				RK M14/M18S	10	■ □
	G 1/2	G 3/8		24	18	12				RK 17/21S_08	10	■ □
	G 3/4	G 1/2		27	24	16				RK 21/26S_08	10	■ □
	M 24 x 1,5	M 16 x 1,5		27	24	16				RK M16/M24S	10	■ □

## Extension Plugs

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
<p>Hose Barb</p>	10 mm		6	11	120			10		VT 09XX12 MXX	10	■
	10 mm		8	11	240			10		VT 09XX24 MXX	10	■
	13 mm		9	15	150			14		VT 13XX15 MXX	10	■
	13 mm		9	15	300			14		VT 13XX30 MXX	10	■

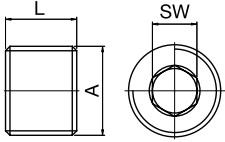
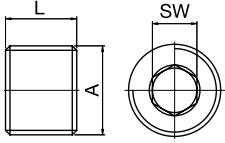
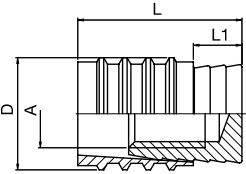
## Blanking Plugs with Internal Hexagon

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
<p>Male Thread with Copper-Washer</p>	M 10 x 1		14	5	11	8				VZ 10MS	25	■ □
	G 1/8		14	5	11	8				VZ 10NS	25	■ □
	M 12 x 1,5		17	6	15	12				VZ 12MS	25	■ □
	G 1/4		18	6	15	12				VZ 13NS	25	■ □
	M 14 x 1,5		19	6	15	12				VZ 14MS	25	■ □
	G 3/8		22	8	15	12				VZ 17NS_01	25	■ □
	G 1/2		26	10	18	14				VZ 21NS	25	■ □

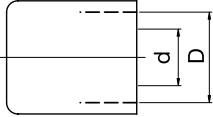
## Blanking Plugs

## RECTUS Components

	Connection A	Connection A1	D mm	Hex SW	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
 <p>Male Thread tapered, with Socket Pipe</p>	M 8 x 0,75			4	8					VK 08S	100	■
	M 10 x 1			5	8					VK 10S	100	■
	G 1/8			5	8					VK 10N*	100	■
	M 12 x 1,5			6	8					VK 12S	100	■
	G 1/4			7	10					VK 13N*	100	■
	M 14 x 1,5			7	10					VK 14S	100	■
	G 3/8			8	10					VZ 17N*	100	■
	G 1/2			10	10					VZ 21N*	100	■
* Nickel Plated												
 <p>Male Thread cylindrical</p>	M 8 x 0,75			4	8					VZ 08MS	100	■
	M 10 x 1			5	8					VZ 10MS_01	100	■
	G 1/8			5	8					VZ 10NS_01	100	■
	M 12 x 1,5			6	8					VZ 12MS_01	100	■
	G 1/4			7	10					VZ 13NS_01	100	■
	M 14 x 1,5			7	10					VZ 14MS_01	100	■
	G 3/8			8	10					VZ 17NS_02	100	■
	G 1/2			10	10					VZ 21NS_01	100	■
	M 3		6		11,5	3,5				VSS 6/M3	100	■
	M 4		8		11,5	3,5				VSS 8/M4	100	■
	M 6		10		14	4				VSS 10/M6	100	■
	M 6		12		14	4				VSS 12/M6	100	■
	M 8		16		16	4				VSS 16/M8	100	■

## Ferrules

## RECTUS Components

	Connection A	Connection A1	D mm	d mm	L mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
			15	10						QH 1510	100	■
			16	10						QH 1610	100	■
			18	10						QH 1810	100	■
			19	13						QH 1913	100	■
			20	13						QH 2013	100	■
			22	13						QH 2213	100	■
			23	13						QH 2313	100	■
			29	19						QH 2319	50	■

## Hose Clips

## RECTUS Components

	Spread mm	Height mm	D mm	d mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
	8-12	8							KA 0814	50	■
	10-16	9							KA 1016	50	■
	12-22	9							KA 1222	50	■
	16-27	9							KA 1627	50	■
	23-35	10							KA 2335	50	■
	30-45	10							KA 3045	50	■
	32-50	13							KA 3250	50	■

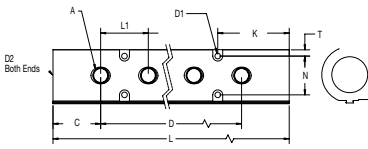
## Crimper

## RECTUS Components

	Connection A	Connection A1	D mm	d mm	L1 mm	L2 mm	D1 mm	D2 mm	Part Number	PU	DS
			10-36						PM 10-36	1	■

## Manifold Aluminium

## RECTUS Components

	Ports	A	D2	S mm	H mm	D1 mm	L1 mm	C mm	N mm	T mm	K mm	D mm	L mm	Color	Part Number	PU	DS
	4	G 1/4	G 3/4	43,2	43	4,5	38,1	38,1	31	5	57,2	114,3	190,5	blue	VL 26/13 AB4	1	■
														red	VL 26/13 AR4	1	■
	6											190,5	266,7	blue	VL 26/13 AB6	1	■
														red	VL 26/13 AR6	1	■
	8											266,7	342,9	blue	VL 26/13 AB8	1	■
														red	VL 26/13 AR8	1	■
	4	G 3/8	G 1	55,9	54,1	7,1	50,8	38,1	40,6	6,9	63,5	152,4	228,6	blue	VL 33/17 AB4	1	■
														red	VL 33/17 AR4	1	■
	6											254	330,2	blue	VL 33/17 AB6	1	■
														red	VL 33/17 AR6	1	■
	8											355,6	431,8	blue	VL 33/17 AB8	1	■
														red	VL 33/17 AR8	1	■

Supplied without Couplings


DS = Delivery Status: ■ in stock

□ on short call

□ medium term delivery

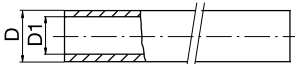
## EPDM-Hoses

## RECTUS Hoses

	Medium	max. Working Pressure	Temperature Range	D mm	D1 mm	Reference Ferrule	Color	Part Number	PU	DS
	Water	15 bar	up to +140°C	17,5	10/9	QH1810	blue	MHE 1050 B	50 m	■
						QH1810	red	MHE 1050 R	50 m	■
						QH1810	black	MHE 1050 S	50 m	■
	Water	15 bar	up to +140°C	21	13	QH2313	blue	MHE 1350 B	50 m	■
						QH2313	red	MHE 1350 R	50 m	■
						QH2313	black	MHE 1350 S	50 m	■
	Water	15 bar	up to +140°C	27	19	QH2919	blue	MHE 1930 B	30 m	■
						QH2919	red	MHE 1930 R	30 m	■
						QH2919	black	MHE 1930 S	30 m	■

## NBR-Hoses

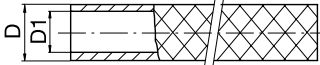
## RECTUS Hoses

	Medium	max. Working Pressure	Temperature Range	D mm	D1 mm	Reference Ferrule	Color	Part Number	PU	DS
	Oil	15 bar	up to +150°C	17,5	10/9	QH1610	black	MHN 1050 S	50 m	■
	Oil	15 bar	up to +150°C	21	13	QH2313	black	MHN 1350 S	50 m	■
								30 m		

D  
mm  
17,5

## PVC-Hoses

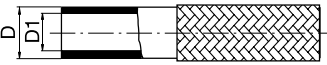
## RECTUS Hoses

	Medium	max. Working Pressure	Temperature Range	D mm	D1 mm	Reference Ferrule	Color O R	Part Number	PU	DS
	Water	15 bar	up to +60°C	16	10/9	QH1610	transparent	MHP 1030 T	30 m	■
							blue	MHP 1030 B	30 m	■
							red	MHP 1030 R	30 m	■
	Water	15 bar	up to +60°C	21	13		transparent	MHP 1330 T	30 m	■
							blue	MHP 1330 B	30 m	■
							red	MHP 1330 R	30 m	■
	Water	15 bar	up to +60°C	27	19		transparent	MHP 1930 T	30 m	■

21

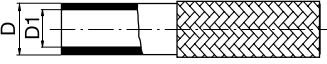
## Silicone-Hoses

## RECTUS Hoses

	Medium	max. Working Pressure	Temperature Range	D mm	D1 mm	Reference Ferrule	Color	Part Number	PU	DS
	Water	15 bar	up to +170°C	15	10/9	QH 1510	silver	MHS 1025	25 m	■
						QH 1510	blue	MHS 1025 B	25 m	■
						QH 1510	red	MHS 1025 R	25 m	■
	Water	15 bar	up to +170°C	19	13	QH 1913	silver	MHS 1325	25 m	■
						QH 1913	blue	MHS 1325 B	25 m	■
						QH 1913	red	MHS 1325 R	25 m	■

## FKM- Hoses

## RECTUS Hoses

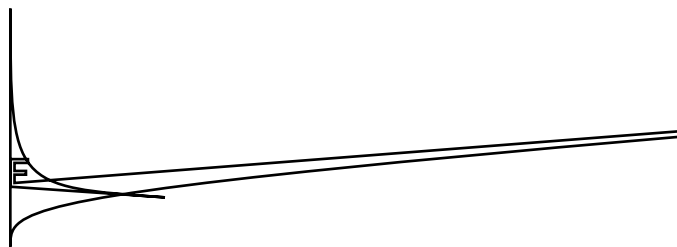
	Medium	max. Working Pressure	Temperature Range	D mm	D1 mm	Reference Ferrule	Color	Part Number	PU	DS
	Oil/Water	15 bar	up to +200°C	15	10/9	QH 1510	silver	MHF 1025	25 m	■
						QH 1510	blue	MHF 1025 B	25 m	■
						QH 1510	red	MHF 1025 R	25 m	■
	Oil/Water	15 bar	up to +200°C	19	13	QH 1913	silver	MHF 1325	25 m	■
						QH 1913	blue	MHF 1325 B	25 m	■
						QH 1913	red	MHF 1325 R	25 m	■

DS = Delivery Status:

■ in stock

■ on short call

■ medium term delivery



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