



A.u.K. Müller

FitSys18

The Push In Connector System



FitSys 18 + Valve Series 18

made for each other:
the tool-free EasyPushFit
& the direct-controlled valve
system for gaseous and liquid media



KTW-BWGL

The Perfect Addition - Not Only for A. u. K. Müller Valves

As a modular and tool-free plug-in connection system, the FitSys 18 is not only the perfect complement for all systems in which A. u. K. Müller valves are used.

We offer you countless connection options. From simple connecting elements to the patented FitSys Manifold for building entire valve islands, the system is completely modular and can be adapted to your needs.











Originally conceived as a supplement to the eponymous A. u. K. Müller valve series 18, the fitting system has grown considerably so that, in addition to a wide range of connection options, functional elements such as pressure relief valves, non-return valves, control valves and measuring elements perfectly complement the FitSys 18 system.

Due to the high-quality choice of materials, the system is suitable for hot water as well as for drinking water, food and saturated steam applications up to 143°.

Even with the standard components of the Fit-Sys 18 system available, there are virtually no limits to your fluid control requirements.

Highlights

- ▶ Easy to assemble and tool-free
- ▶ Up to 98 °C / 16 bar - saturated steam 143 °C / 3 bar
- ▶ Connectors can be combined in any way
- ▶ Fittings available with integrated orifice plate
- ▶ Expandable at any time
- ▶ Functional components such as non-return and pressure relief valves
- ▶ Two- or three-way manifolds for the construction of valve terminals

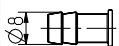
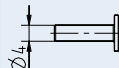
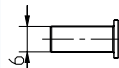
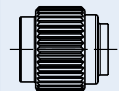
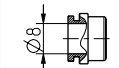
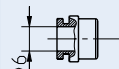
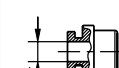
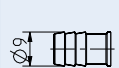
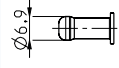
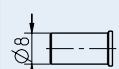
Basic Body	Type	Description
	G	 Straight through Ø 4 mm (0.158 inch) integrated orifice Ø 0,5 - 4 mm possible (Ø 0.02 - 0.158 inch)
	L	 L-Fitting body Ø 4 mm (0.158 inch) integrated orifice Ø 1,5 - 4 mm possible
	T	 T-Fitting body Ø 4 mm
	S	 S-Plug
	Y	 Y-Fitting for connection types F, G

* UL and NSF/ANSI 169 approved versions available


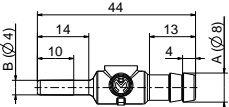

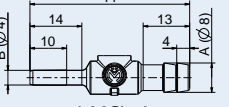

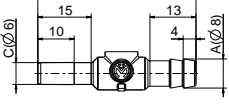

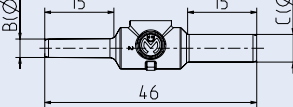

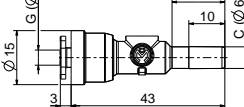

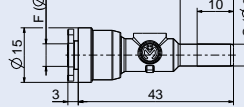

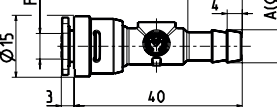

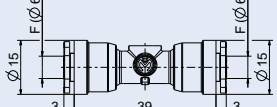

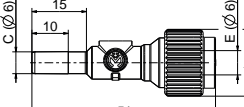
One System -
Infinite Possibilities

All common connections can already be realised with the standard elements. However, if the standard does not cover a required variant, the fittings can be configured in many ways. Simply choose from the desired basic bodies and combine them with the required connection as needed. An internal orifice in the range Ø 0.5 - 4 mm is also available as an option. This makes the FitSys 18 connector system more adaptable than any other connector system.


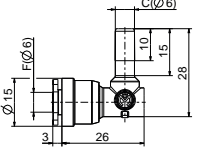


Connector	Type	Description
	A	Nozzle connection Hose inner Ø 6 mm (0.236 inch)
	B	Push-Fit stem Ø 4 mm (0.158 inch) (Counterpart of type G)
	C	Push-Fit stem Ø 6 mm (0.236 inch) (Counterpart of type F)
	E	Clamp connection Ø 6 mm (0.236 inch)
	I	Push-Fit Ø 8 mm (Counterpart for type M)
	F	Push-Fit Ø 6 mm (0.236 inch) (Counterpart of type C)
	G	Push-Fit Ø 4 mm (0.158 inch) (Counterpart of type B)
	H	Nozzle connection Hose inner Ø 6 mm (0.236 inch)
	L	Nozzle connection Hose inner Ø 5 mm (0.197 inch)
	M	Push-Fit stem 8mm (Counterpart for type I)


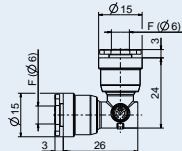

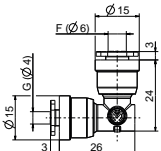

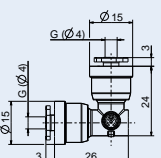

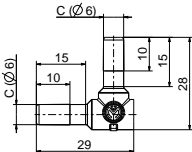

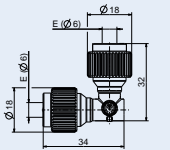

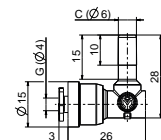
STRAIGHT TROUGH CONNECTORS

	Dimensions	Type	Description	ID
		G4-B.A	Push-Fit stem Ø 4 mm to Nozzle connection Hose inner-Ø 7 mm	009422
		G0,8-B.A	Push-Fit stem Ø 4 mm to Nozzle connection Hose inner-Ø 7 mm	009423
		G4-C.A	Push-Fit stem Ø 6 mm to Nozzle connection Hose inner-Ø 7 mm	009740
		G4-B.C	Push-Fit stem Ø 4 mm to Push-Fit stem Ø 6 mm	010140
		G4-G.C	Push-Fit Ø 4 mm to Push-Fit stem Ø 6 mm	009440
		G4-F.C	Push-Fit Ø 6 mm to Push-Fit stem Ø 6 mm	009435
		G4-F.A	Push-Fit Ø 6 mm to Nozzle connection Ø 8 mm	011617
		G4-F.F	Push-Fit Ø 6 mm to Push-Fit Ø 6 mm	009431
		G4-C.E	Push-Fit stem Ø 6 mm to Clamp connection Ø 6 mm	009570


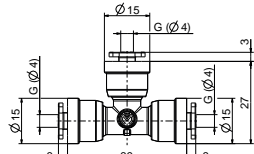

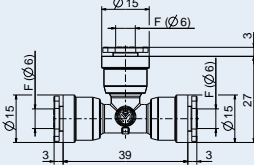

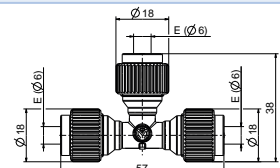
L-CONNECTORS

	Maße	Typ	Beschreibung	ID
		L4-FC	Steckanschluss Ø 6 mm auf Steckstutzen Ø 6 mm	009434


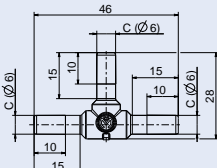

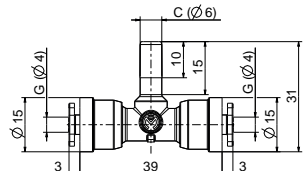

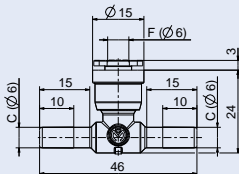

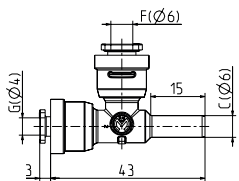

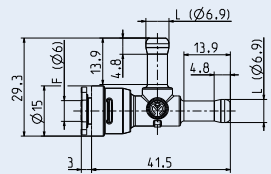

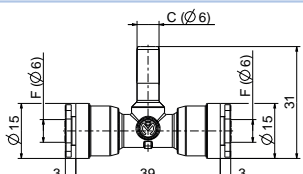

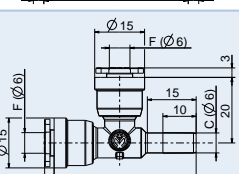

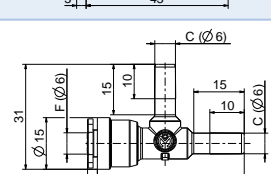
L-CONNECTORS

	Dimensions	Type	Description	ID
		L4-F.F	Push-Fit Ø 6 mm to Push-Fit Ø 6 mm	009429
		L4-G.F	Push-Fit Ø 4 mm to Push-Fit Ø 6 mm	009760
		L4-G.G	Push-Fit Ø 4 mm to Push-Fit Ø 4 mm	009475
		L4-C.C	Push-Fit stem Ø 6 mm to Push-Fit stem Ø 6 mm	009392
		L4-E.E	Clamp connection Ø 6 mm to Clamp connection Ø 6 mm	009430
		L4-G.C	Push-Fit Ø 4 mm to Push-Fit stem Ø 7 mm	009506

T-CONNECTORS

	Dimensions	Type	Description	ID
		T-G.G.G	G: Push-Fit FitSys Ø 4 mm G: Push-Fit FitSys Ø 4 mm G: Push-Fit FitSys Ø 4 mm	009439
		T-F.F.F	F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm	009432
		T-E.E.E	E: Clamp connection Ø 6 mm E: Clamp connection Ø 6 mm E: Clamp connection Ø 6 mm	009433


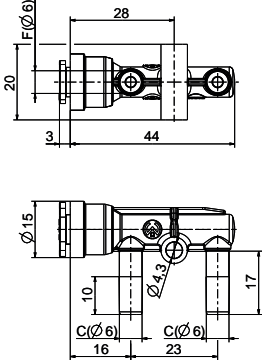

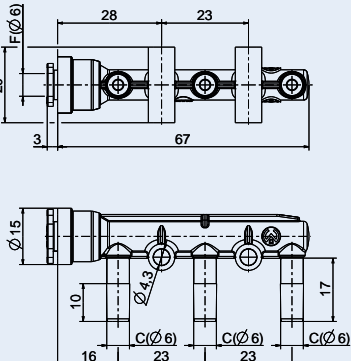

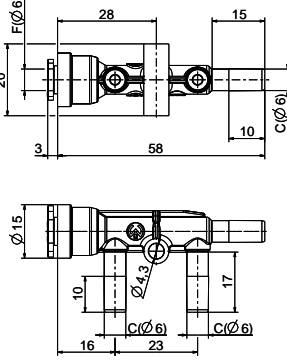

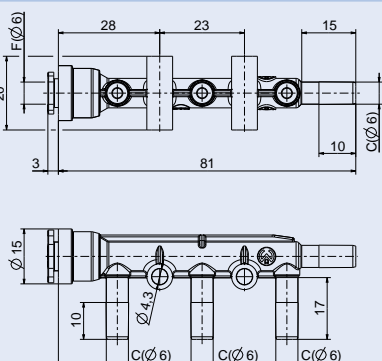
T-CONNECTORS

	Dimensions	Type	Description	ID
		T-C.C.C	C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	009396
		T-G.C.G	G: Push-Fit FitSys Ø 4 mm C: Push-Fit stem Ø 6 mm G: Push-Fit FitSys Ø 4 mm	009507
		T-C.F.C	C: Push-Fit stem Ø 6 mm F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm	009514
		T-G.F.C	G: Push-Fit FitSys Ø 4 mm F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm	010765
		T-F.L.L	F: Push-Fit FitSys Ø 6 mm L: Nozzle connection Hose inner-Ø 5 mm L: Nozzle connection Hose inner-Ø 5 mm	011619
		T-F.C.F	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm F: Push-Fit FitSys Ø 6 mm	009523
		T-F.F.C	F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm	009571
		T-F.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	009741

M-CONNECTORS




ESPRESSO VALVES / HIGH PRESSURE VALVES

Patented manifold components (manifolds) perfect for direct operated valves of series 18 with push-in connections FitSys Ø 6 mm for setting up individual valve islands

Gauge 23 mm	Dimensions	Type	Description	ID
		MC-F.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	008948
		MC-F.C.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	008949
		MO-F.C.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	008946
		MO-F.C.C.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	008947

MC = Outlet passage closed
MO = Outlet passage open

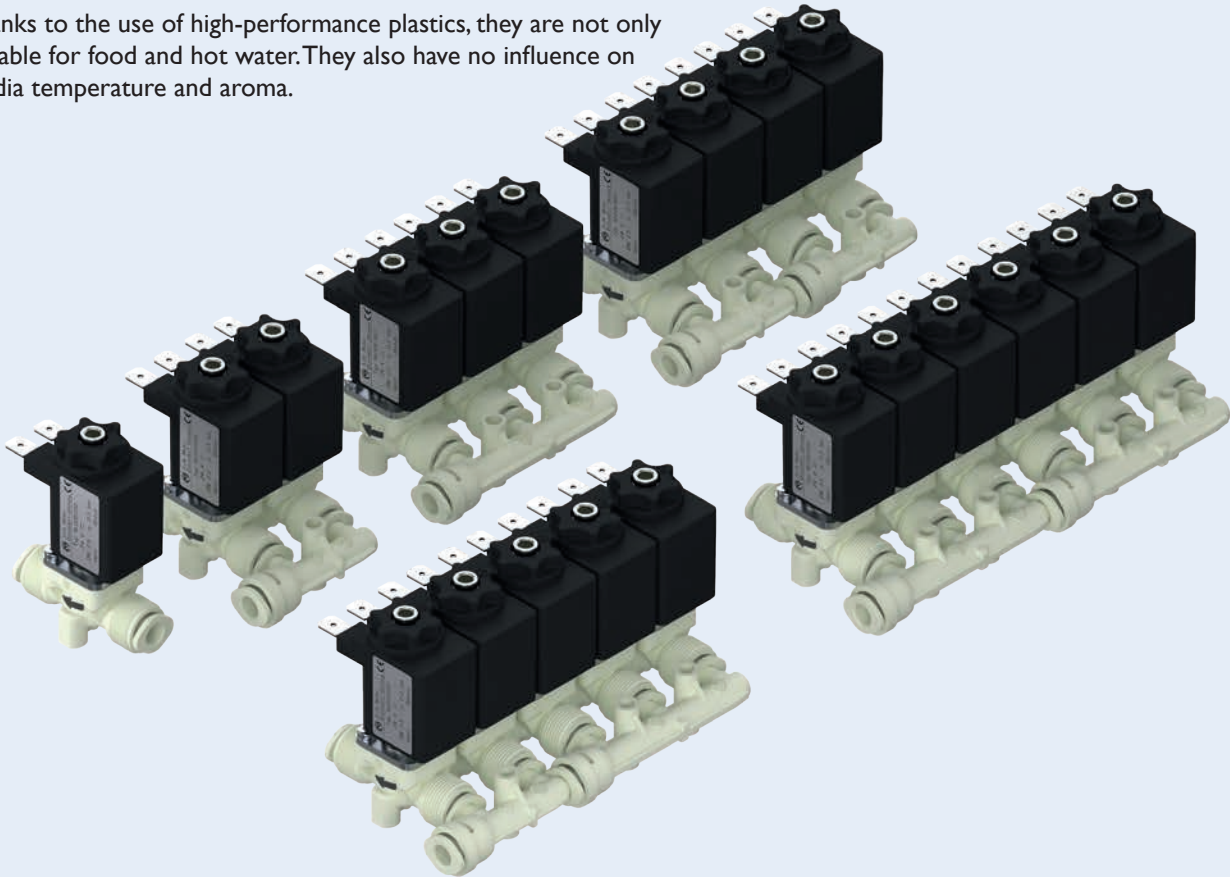
- Direct controlled
- Compact design
- Up to 16 bar (98 °C, 143 °C saturated steam @ 3 bar)
- Suitable for food and hot water
- Can be used without minimum pressure
- Easy to install and service
- Coil exchange without opening the media circuit,
- Coil can be mounted 4 x 90
- High functional reliability due to the use of high-quality materials and 100% final inspection of the products

	Series Nominal width	Ways	Function	Kv (l/min)	p-Operating (bar)	T-Medium (°C)	T-Ambient (°C)	Connection
	18.00x.000 DN 1,5 DN 2 DN 2,5	2/2	Normally Closed (NC)	0,9 - 2,5	0 - 16	98 (143 °C Saturated steam @ 3 bar)	60	FitSys or hose clamp connections
	18.00x.001 DN 1,5 DN 2,5	2/2	Normally Open (NO)	0,75 - 2,25	0 - 10		50	
	18.00x.032 DN 1,2 DN 1,5 DN 2,5	3/2	r - a = NC p - a = NO	0,6	0 - 16		60	

PERFECT MATCH: SERIES 18 + FITSYS M-CONNECTOR


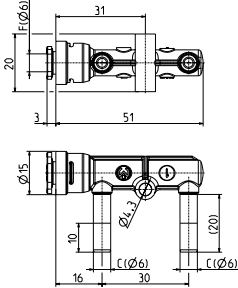

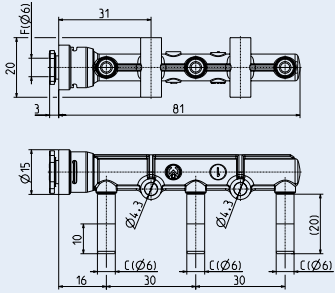

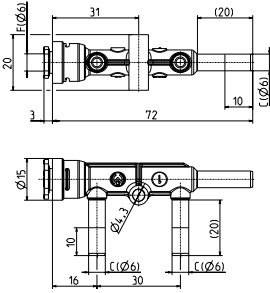
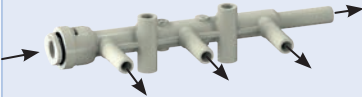
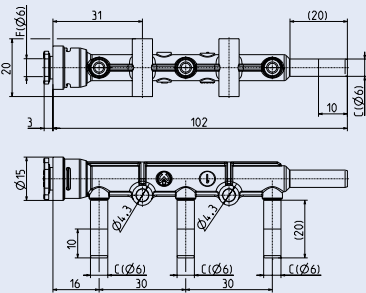
Espresso valves from A. u. K. Müller are directly controlled and suitable for hot water up to 16 bar at 98° C as well as saturated steam applications up to 143° C. They impress with their compact design and their high long-term serviceability. They are particularly easy to install and can be used in modular form in combination with the FitSys 18 system. In combination with the FitSys M connectors, entire valve terminals can be easily plugged together. This saves resources and is easy on the budget.

Thanks to the use of high-performance plastics, they are not only suitable for food and hot water. They also have no influence on media temperature and aroma.






M-CONNECTORS

Patented manifolds perfect e.g. for lever valves of the 47 series, as well as direct operated valves of the 43 series with push-in fittings FitSys Ø 6 mm for the construction of individual valve terminals.


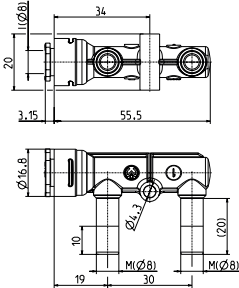

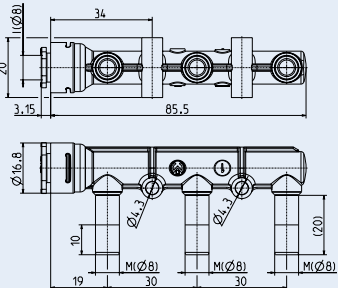

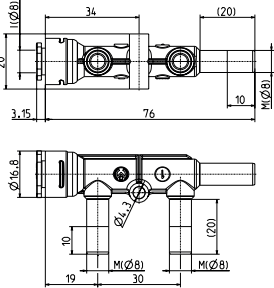
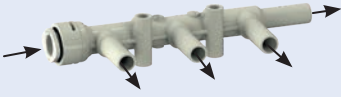
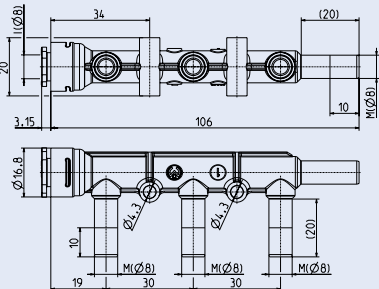
Gauge 30 mm	Dimensions	Type	Description	ID
		MC-F.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	n.A.
		MC-F.C.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	n.A.
		MO-F.C.C.C	F: Push-Fit FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	n.A.
		MO-F.C.C.C.C	F: Push-Fits FitSys Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm C: Push-Fit stem Ø 6 mm	n.A.


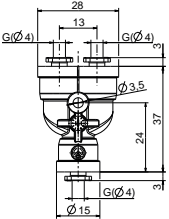

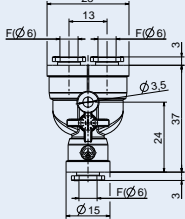

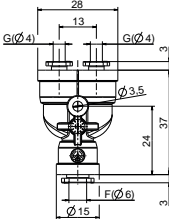

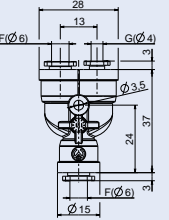
MATCHING LEVER VALVES


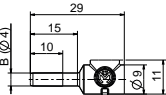

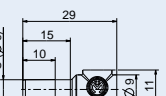

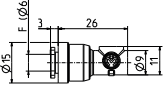
	Series Nominal width	Ways	Function	Kv (l/min)	p-Operating (bar)	T-Medium (°C)	T-Ambient (°C)	Connection
	47.00x.202 DN 2 DN 3 DN 4	2/2	NC	2,0 - 4,3	0 - 8	98 °C	70 °C	Push-Fit Ø 6 mm / 8 mm
	47.00x.282 DN 2 DN 4	2/2	NO	1,8 - 3,8	0 - 8	98 °C	60 °C	Push-Fit Ø 6 mm / 8 mm
	47.00x.203 DN 3 DN 4	3/2	P - A = NC R - A = NO	1,6 - 3,8	0 - 3	98 °C	60 °C	Push-Fit Ø 4 mm / 6 mm / 8 mm

MATCHING DIRECT OPERATED VALVES

	Series Nennweite	Ways	Func- tion	Kv (l/min @ 1 bar)	p-Ope- rating (bar)	T-Medium (°C)	T-Ambient (°C)	Anschluss
	43.00x.102 media- separated DN 3 DN 4 DN 5	2/2	NC	3,5 - 6,0	0 - 3	98 (65 °C max. John Guest)	70 (65 °C max. John Guest)	Nozzle, Push-Fit Ø 6 mm / 8 mm
	43.00x.142 DN 1 DN 2 DN 3 DN 4 DN 5	2/2	NC	0,5 - 5,5	0 - 10	98 (65 °C max. John Guest)	70 (65 °C max. John Guest)	Nozzle, Push-Fit Ø 6 mm / 8 mm
	43.00x.122 media- separated DN 3 DN 4 DN 5	2/2	NC	3,3 - 5,5	0 - 5	98	70	Nozzle, Push-Fit Ø 6 mm / 8 mm
	43.00x.182 media- separated DN 2 DN 4	2/2	NO	1,8 - 5,3	0 - 3,5	98 (65 °C max. John Guest auf Anfrage)	70 (65 °C max. John Guest)	Nozzle, Push-Fit Ø 6 mm / 8 mm

M-CONNECTORS				
Patented manifolds with 8 mm FitSys connectors				
Gauge 30 mm	Dimensions	Type	Description	ID
		MC-I.M.M	I: Push-Fit FitSys Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm	n.A.
		MC-I.M.M.M	I: Push-Fit FitSys Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm	n.A.
		MO-I.M.M.M	I: Push-Fit FitSys Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm	n.A.
		MO-I.M.M.M.M	I: Push-Fit FitSys Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm M: Push-Fit stem Ø 8 mm	n.A.
MC = Outlet passage closed MO = Outlet passage open				








Y-CONNECTORS				
	Dimensions	Type	Description	ID
		Y-G.G.G	G: Push-Fit FitSys Ø 4 mm G: Push-Fit FitSys Ø 4 mm G: Push-Fit FitSys Ø 4 mm	009437
		Y-F.F.F	F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm	009436
		Y-F.G.G	F: Push-Fit FitSys Ø 6 mm G: Push-Fit FitSys Ø 4 mm G: Push-Fit FitSys Ø 4 mm	009474
		Y-F.F.G	F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm G: Push-Fit FitSys Ø 4 mm	009569

S-PLUG				
	Maße	Typ	Beschreibung	ID
		S-B	Closure of connection G	009463
		S-C	Closure of connection F	009462
		S-F	Closure of connection C	010141

NEW VERSION: PRESSURE RELIEF VALVES




The connection types F, G, H and I can be produced in any combination on request. The nominal pressures in the range of up to 16 bar and desired flow rates for relief can be designed according to customer requirements. The full opening of the valve is only achieved at higher pressures. The nominal pressures stated are a product classification.

	Type	Description	Nominal Pressure (bar)	ID
	PRV-F.F	Pressure Relief Valve F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm	2	011256
			4	011257
			5	011258
			10	011259
			12	011260
			14	011261
	PRV-F.F	Pressure Relief Valve F: Push-Fit FitSys Ø 6 mm H: Nozzle connection Hose inner-Ø 9 mm	4	011546
			5	011755
			12	011420
			14	011756
			16	011814
	PRV-F.F.F	Pressure Relief Valve F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm	2	011630
			4	011425
			5	011631
			10	011632
			12	011633
			14	011634
	PRV-F.H.F	Pressure Relief Valve F: Push-Fit FitSys Ø 6 mm H: Nozzle connection Hose inner-Ø 9 mm F: Push-Fit FitSys Ø 6 mm	2	011635
			4	011636
			5	011637
			10	011638
			12	011639
			14	011640
	PRV-I.I	Pressure Relief Valve I: Push-Fit FitSys Ø 8 mm I: Push-Fit FitSys Ø 8 mm	2	009603
			4	011424
			5	011649
			10	011650
	PRV-I.I.I	Pressure Relief Valve I: Push-Fit FitSys Ø 8 mm I: Push-Fit FitSys Ø 8 mm I: Push-Fit FitSys Ø 8 mm	2	011641
			4	011430
			5	011643
			10	011645
	PRV-C.H	Pressure Relief Valve C: Push-Fit stem Ø 6 mm H: Nozzle connection Hose inner-Ø 8 mm	2	011757

* Working pressure up to max. 16 bar. Other opening pressures on request. Nominal pressures are for classification purposes. The holding and blow-off pressures are respectively below and above the nominal pressure due to the hysteresis effect. The closing pressure is below the holding pressure.


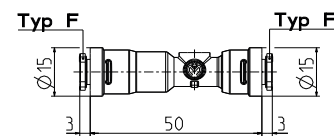

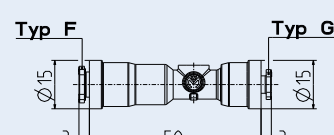
NEW: FLOW MEASURING TURBINE MT5

	Description	Temperature Range	Measuring Range
	Flow measuring turbine unit with high accuracy for continuous measurement of volumetric flows of liquid media. (primarily drinking water). Very simple installation due to plug-in connections.	5 - 98 °C	0,1 - 15 l/min depending on version

BACKFLOW PREVENTER





The backflow preventer prevents backflow of the medium on the inlet side and thus helps to operate the overall system with secured parameters. For connection types F and G.

	Dimensions	Type	Opening Pressure (bar)	Description	ID
		BP-F.F	0,15	F: Push-Fit FitSys Ø 6 mm F: Push-Fit FitSys Ø 6 mm	010535
		BP-F.G	0,15	F: Push-Fit FitSys Ø 6 mm G: Push-Fit FitSys Ø 4 mm	010665

NEW: PRESSURE COMPENSATORS

Perfect for pressure peaks, for example from a vibration pump, or Prevent negative pressures caused by a cooling medium.

	Type	Description	Pressure Range
	T-C.C.C	Overpressure compensator	Can be designed according to customer specifications
	T-C.C.C	Overpressure compensator	Can be designed according to customer specifications



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