Product Information

Dirt strainer, DN 17

Series 12.017.800

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Three-stage filter insert
- Two-stage filter also available
- Filter inserts are replaceable



Description

The three-stage dirt strainer combines three consecutively arranged filters of different mesh sizes in one housing.

It ensures coarse, medium and small particles are filtered out of the flowing medium.

The large filter area allows for a high flow rate, despite the smallest filter mesh size being just 0,2 mm.

The dirt strainer is available with G 3/4 male or female thread allowing easy integration in existing applications.

Applications

- Drinking water supplies
- Filter insert for servo controlled valves inlet of ¾" BSP / Ø 19 mm internal diameter

Possible approvals

Approved versions available on request:

- KTW/W270
- WRAS
- Others on request

Technical Data

Type	Dirt strainer	
Construction	mechanical three-stage filter optional two-stage filter	
Fitting position	any	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium [1]-[6] [7], [8]	90 65	°C max. °C max.
DN	17	mm
p-Operating	10	bar max.



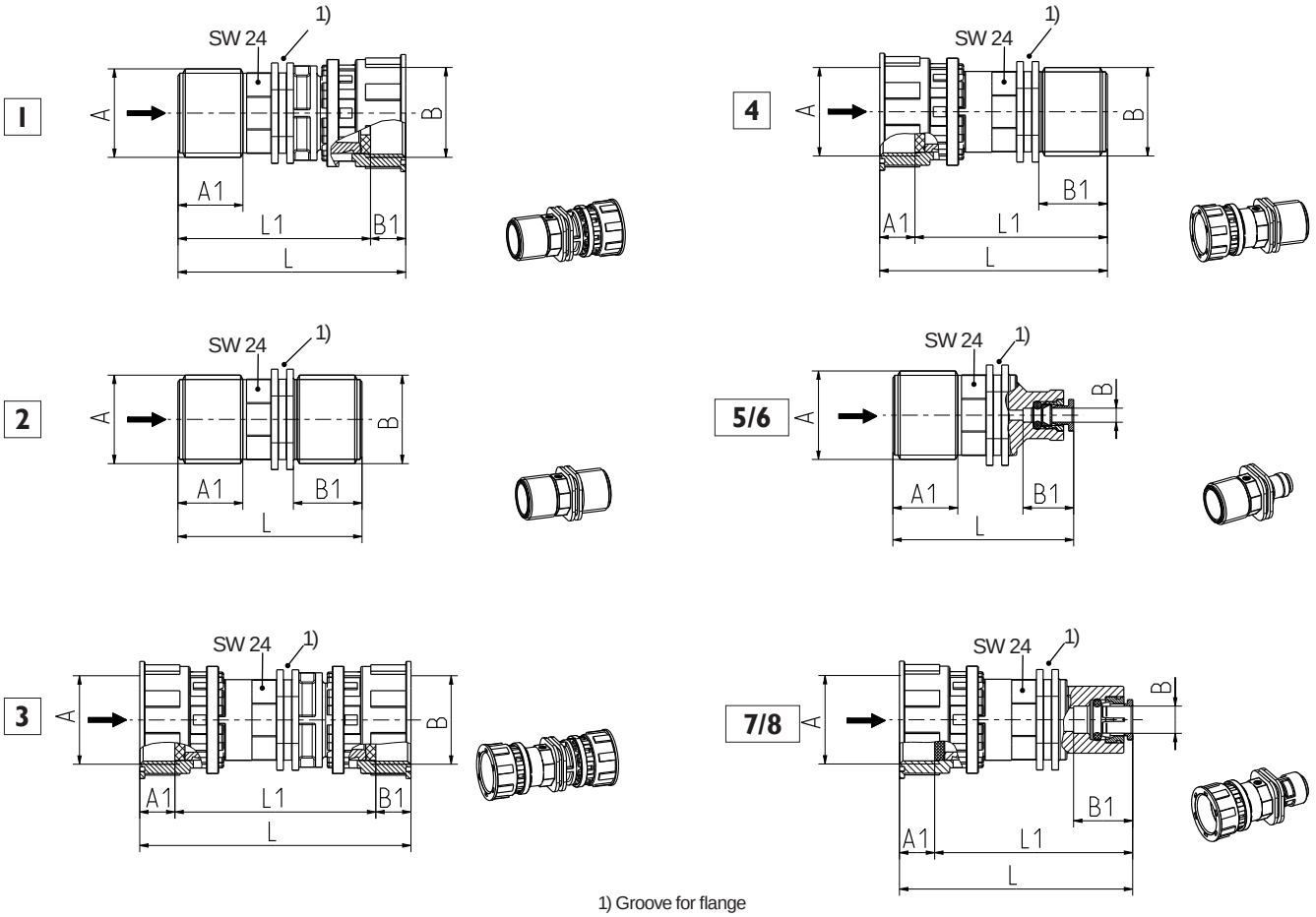
1) Optional: flange ID: 001245

Materials

Body	PA 6/6 glass fibre reinforced	
Socket of filter stack	PPE	
Filter	stainless steel	
Mesh sizes	0,5 0,315 0,2	mm mm mm
Seal Swivel nut [1], [3], [4], [7], [8]	EPDM	
Push-Fit [5], [6] [7], [8]	PPSU / EPDM (o-ring) POM / EPDM (o-ring)	

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1) Groove for flange

Options

Type	ID	Material	Inlet			Outlet		Length
			Ø A	A1	L1	Ø B	B1	L
1	**092450**	PA 6/6	G 3/4	20,0	58,0	G 3/4 female gland nut	10,0	68,0
2	**092451**	PA 6/6	G 3/4	20,0	-	G 3/4	20,0	55,0
3	**092452**	PA 6/6	G 3/4 female gland nut*	10,0	61,0	G 3/4 female gland nut	10,0	81,0
4	**092453**	PA 6/6	G 3/4 female gland nut*	10,0	58,0	G 3/4	20,0	68,0
5	**092456**	PA 6/6	G 3/4	20,0	-	Push-Fit Ø 4 mm [1]	15,0	54,0
6	**092457**	PA 6/6	G 3/4	20,0	-	Push-Fit Ø 6 mm [2]	16,0	54,0
7	**092458**	PA 6/6	G 3/4 female gland nut*	10,0	60,0	Push-Fit Ø 8 mm [3]	18,0	70,0
8	**092459**	PA 6/6	G 3/4 female gland nut*	10,0	60,0	Push-Fit Ø 10 mm [4]	20,0	70,0

Three-stage filter staple Version | Two-stage filter staple on request.
Other connection combinations of the housing on request.

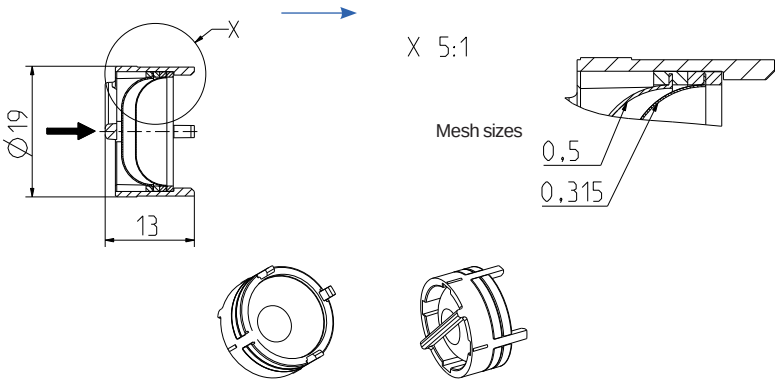
[1] FitSys 18 Connection Type G
[2] FitSys 18 Connection Type F
[3] JohnGuest Connection Type PM2808E
[4] JohnGuest Connection Type PM2810E
* Gland nut fixed

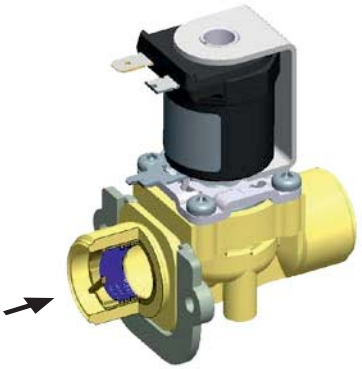
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Filter stack assembly - two stage ID: 008828

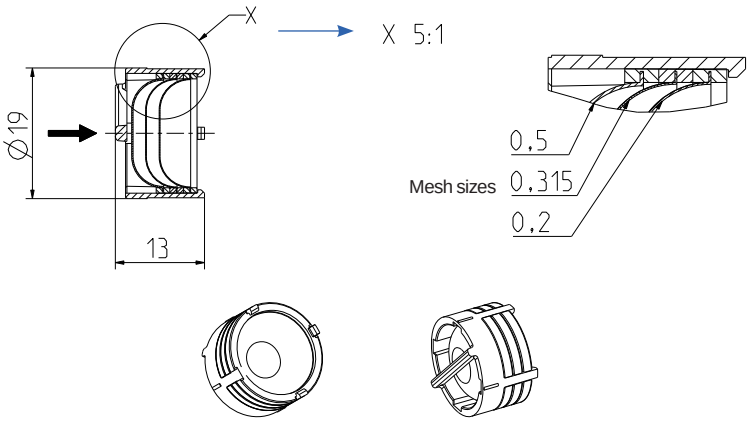
Two-stage filter staple in inlet of valve G 3/4 Ø19 inner diameter. (e.g. 01.010.126)

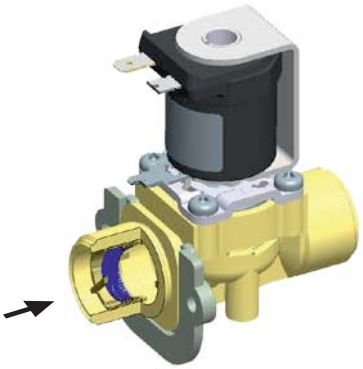


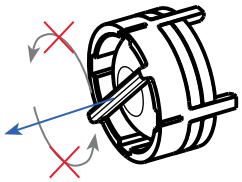


Filter stack assembly - three stage ID: 008829

Three-stage filter assembly in inlet of valve G 3/4 Ø19 inner diameter. (e.g. 01.010.126)



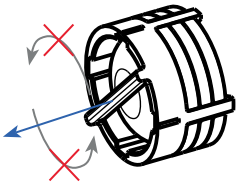




Replacing the filter stack

Only pull

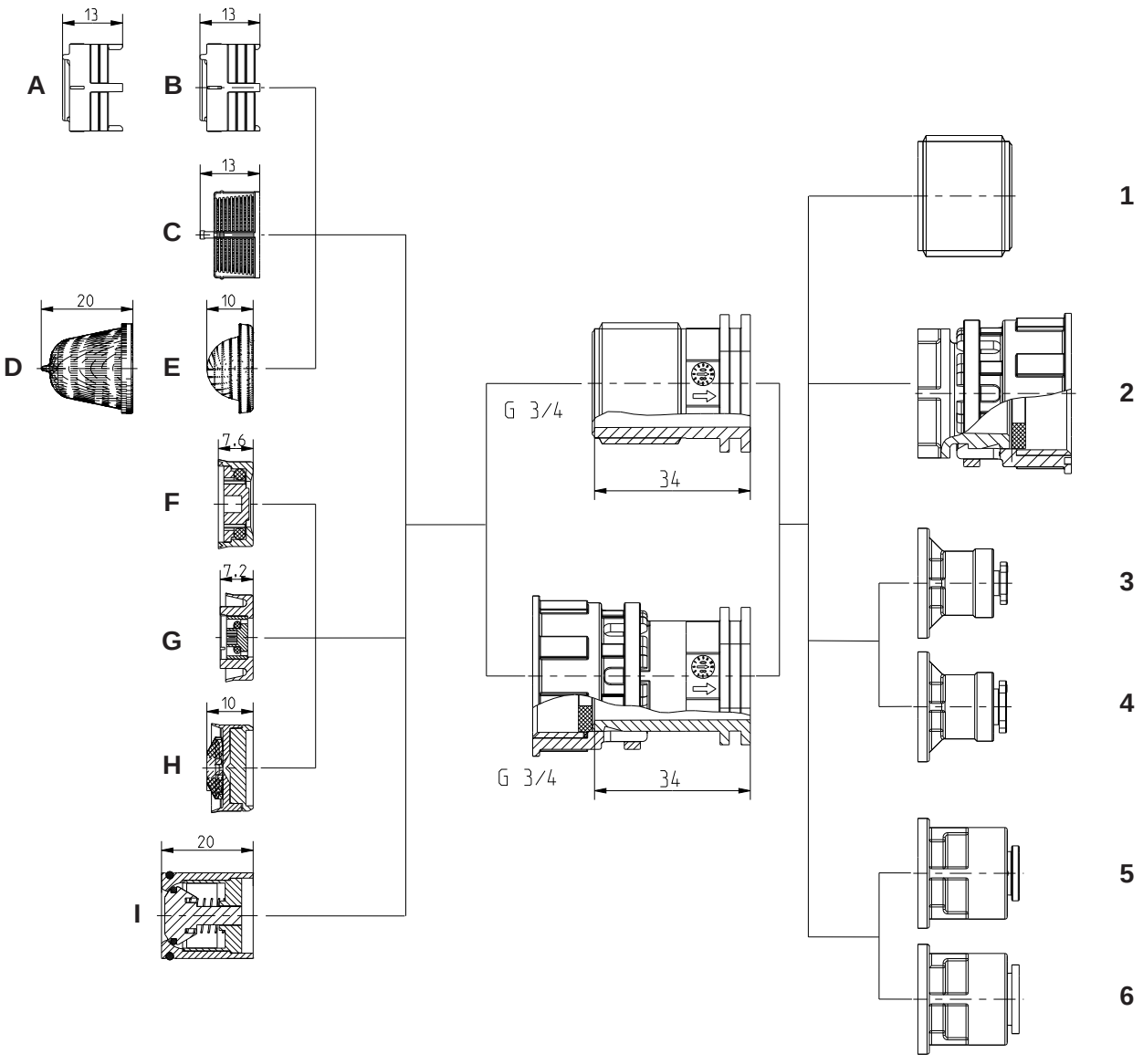
Do not twist



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The housing can be varied with other components.



1	G 3/4
2	G 3/4 Swivel nut
3	FitSys 18 Push-fit Ø 4 (Typ G)
4	FitSys 18 Push-fit Ø 6 (Typ F)
5	JohnGuest Push-fit Ø 8 (Typ PM2808E)
6	JohnGuest Push-fit Ø 10 (Typ PM2810E)

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Component			ID	Installation Depth [mm]
A	two stage filter stack	mesh size: 0,5 - 0,315 mm	**008828**	13
B	three stage filter stack	mesh size: 0,5 - 0,315 - 0,2 mm	**008829**	13
C	Plastic filter (POM)	mesh size: 0,45 mm (65 °C)	**003205**	13
D	stainless steel filter	mesh size: 0,5 mm	**003721**	20
E	stainless steel filter	mesh size: 0,25 mm	**005452**	10
F	flow restrictor	MR 04 (65 °C) in the range of 5,0 - 20,0 l/min (see separate datasheet "Flow regulator")	-	7,6
G	flow restrictor	MR 06 (65 °C) in the range of 0,5 - 9,0 l/min (see separate datasheet "Flow regulator")	-	7,2
H	flow restrictor	MR 19 (98 °C) in the range of 3,0 - 22,0 l/min (see separate datasheet "Flow regulator")	-	10
I	check valve	Q max 24 l/min	**005771**	20,1 ±0,01

Some components can be combined up to a depth of 34 mm.

Recommended combinations	
C	F, G, H or I
D	F, G, H
E	F, G, H or I
F, G or H	I

- In flow direction the order filter unit, flow regulator is to be observed!
- Do not stack two filters one behind the other!
- Do not stack two flow restrictor one behind the other!

For specific configuration requirements, we are happy to provide further advice.

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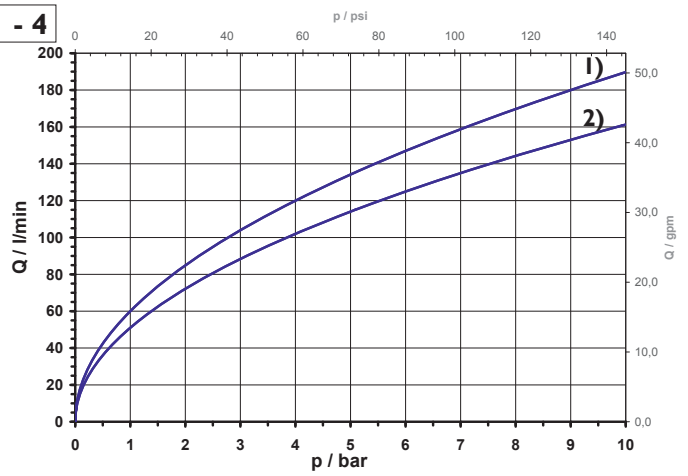
Dirt strainer, DN 17

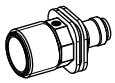
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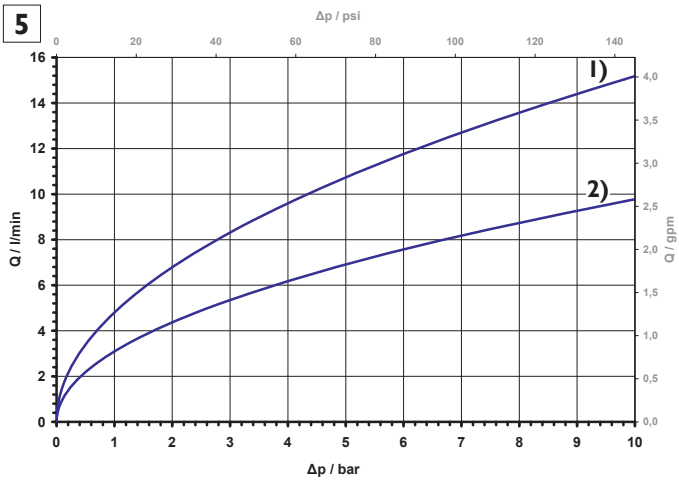
typical performance curve

1 - 4

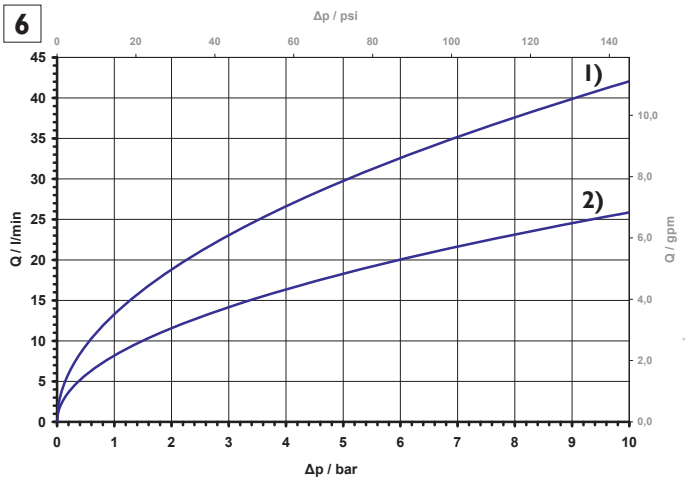


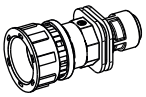


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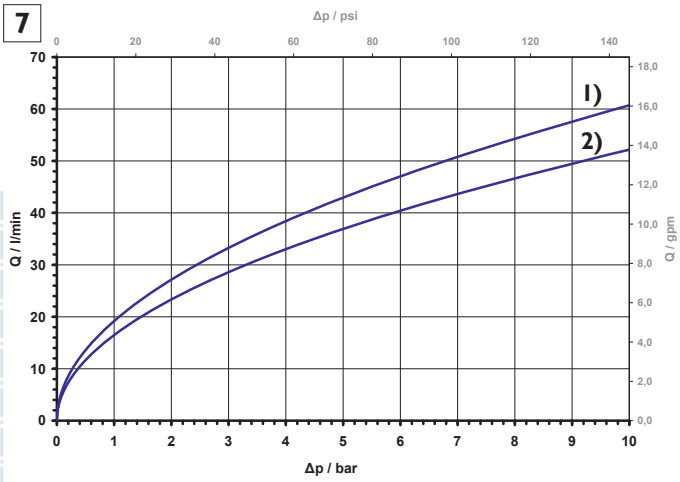


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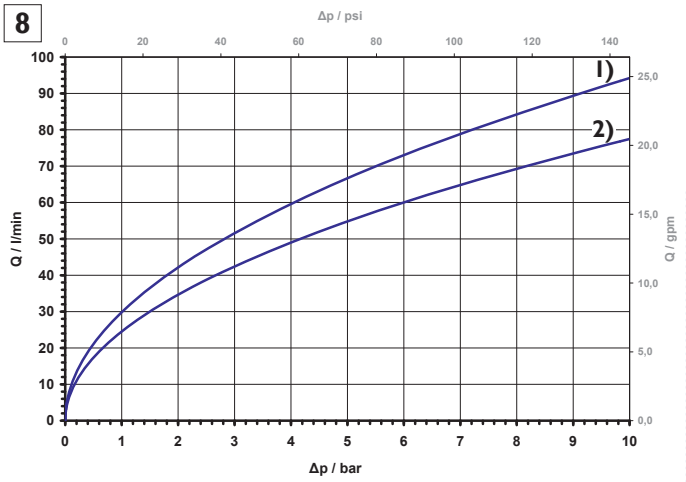




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Technical Data

Cv-value 1 - 4		
1) two-stage	60	l/min
2) three-stage	51	l/min
Cv-value 5		
1) free outlet	4,8 (1.27)	l/min (gpm)
2) with tube 4 x 0,75*	3,1 (0.82)	l/min (gpm)

Cv-value 6		
1) free outlet	13,3 (3,5)	l/min (gpm)
2) with tube 6 x 1,0*	8,2 (2.2)	l/min (gpm)
Cv-value 7		
1) free outlet	19,2 (5.1)	l/min (gpm)
2) with tube 8 x 1,25*	16,5 (4.36)	l/min (gpm)

Cv-value 8		
1) free outlet	29,8 (7.87)	l/min (gpm)
2) with tube 10 x 1,5*	24,5 (6.47)	l/min (gpm)

* Tube length: 6,5 cm (2,56 in) / dimensions in [mm] Cv-value at Δp = 1 bar (14,5 psi) (without components)

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