

PIPELINE ANCILLARIES

Strainers and filters FI 6.06

Fine filter



Technical data

Connection DN	15 - 50
Connection G	1/2 - 2
Nominal pressure PN	16
Temperature	190 °C
Medium	gases and steam

Description

Filters are used to retain contaminants present in fluids. FI 6.06 is entirely manufactured from deep-drawn stainless steel featuring excellent corrosion resistance. For this reason it is used for the filtration of corrosive liquids, gases and steam. Top and bottom sections of the valve body are connected by a clamp ring and two bolts. Servicing/maintenance is easy and does not call for special tooling. Two different types of tube filters can be fitted in the filter body. Type P: High quality pleated 3-ply filter element (fabric/metallic fibre fleece/fabric) Type S: Filter element made of sintered stainless steel Low pressure loss and large dirt retention capacity ensure long life and minimise servicing and maintenance. The filter may be cleaned by blowing through with compressed air or steam or flushing using a suitable cleaning agent. The best results are obtained by ultrasonic cleaning in an aqueous solution.

Standard

- » All stainless steel construction
- » Quick-release body clamp ring
- » Retained particle size: type P - 25 µm; type S - 20 µm
- » Drain plug in body bottom section
- » Bleed plug in body top section

Options

- » Retained particle size 5 µm for types P and S
- » Various seal materials suitable for your medium
- » Special connections: Aseptic, ANSI or JIS flanges, welding ends, other connections on request
- » Special versions on request

Product



Picture similar

Technical specification

Resistance coefficient ζ

filter element design	filter mesh µm	nominal diameter	
		G 1/2 - 1 1/4	G 1 1/2 + 2
p	25	15	13
	5 (Sonder)	17	16
S	20	16	15
	5 (Sonder)	28	25

Max. Permissible differential pressure [bar]

filter element design	filter mesh µm	nominal diameter	
		G 1/2 - 1 1/4	G 1 1/2 + 2
p	5 / 25 µm	16	5
	5 µm	12	11
S	20 µm	8	7

Calculating the pressure drop

$$\Delta p = \zeta \cdot \omega^2 / 2 \cdot \rho \cdot 10^{-5} \text{ [bar]}$$

ζ : resistance coefficient (see table), the values apply to a clean filter insert

ω = [m/s]: flow velocity within the connection cross section (nominal diameter) See also our flow charts

ρ [kg/m³]: Density of the fluid

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Materials

Materials*		
Filter element type	P	S
Max. temperature	140 °C	190 °C
Body	stainless steel	stainless steel
Seal	FEPM	FEPM
Filter element	stainless steel, EP	stainless steel
Profile Clamp	stainless steel	stainless steel

*All materials equal or of higher quality

Dimensions and weights

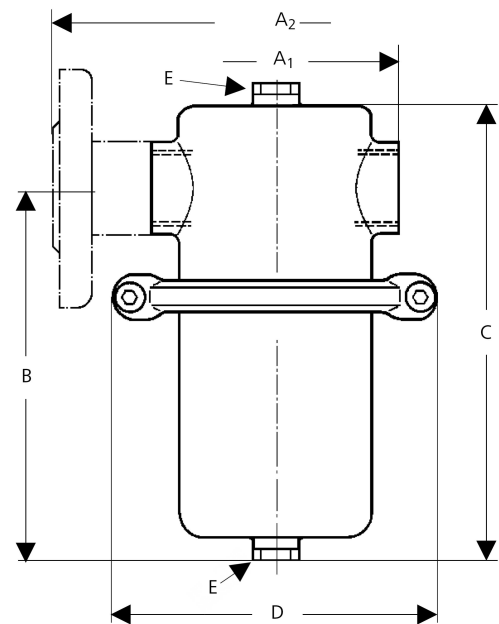
Dimensions [mm]						
size	nominal diameter G					
	1/2	3/4	1	1 1/4	1 1/2	2
A ₁ *	160	158	156	204	192	220
B	235	235	235	235	350	350
C	275	275	275	275	420	420
D	140	140	140	140	200	200
E	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4

Weights [kg]						
nominal diameter G						
1/2	3/4	1	1 1/4	1 1/2	2	
3.1	3.2	3.3	3.7	6.8	7	

Dimensions [mm]						
size	nominal diameter DN					
	15	20	25	32	40	50
A ₂ *	160	160	160	180	200	230
B	235	235	235	235	350	350
C	275	275	275	275	420	420
D	140	140	140	140	200	200
E	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4

Weights [kg]						
nominal diameter DN						
15	20	25	32	40	50	
4.2	4.7	5	6	7.4	10.3	

Customs tariff number	
84818099	



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Please send us your enquiry and allow us to advise you. Special designs on request.
 The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter technical specifications without notice.