# Pipeline Ancillaries Strainers and Filters FI 6.06

Stainless Steel Filter



# Technical Data

Connection DN Connection G Nominal Pressure PN Temperature Medium 15 - 50 1/2 - 2 16 190 °C 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 gases and liquids.

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

- » various seal materials suitable for your medium
- » special connections: Aseptic, ANSI or DIN flanges, welding spigots; other connections on request
- » special versions on request

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



#### Resistance Coefficient $\zeta$

filter element type	filter mesh µm	nominal diameter			
		G 1/2 - 1 1/4	G 1 1/2 + 2		
		DN 15 - 32	DN 40 + 50		
Р	25	15	13		
	5 (Sonder)	17	16		
S	20	16	15		
	5 (Sonder)	28	25		

#### Permitted Pressure Drop [bar]

nent type	nominal diameter					
	G 1/2 - 1 1/4	G 1 1/2 + 2				
	DN 15 - 32	DN 40 + 50				
5/25 µm	16	5				
5 µm	12	11				
20 µm	8	7				
	nent type 5/25 μm 5 μm	nominal diameter G 1/2 - 1 1/4 DN 15 - 32 5/25 µm 5 µm 12				

#### Calculating the pressure drop

ρ [kg/m<sup>3</sup>] density of fluid

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#### Materials Filter Element Ρ S Туре max. Temperature water 100 °C steam and gasses 190 °C steam and gasses 140 °C Body CrNiMo-steel CrNiMo-steel Seal FEPM FEPM Filter Element CrNiMo-steel, EP CrNiMo-steel Profile Clamp CrNiMo-steel **Dimensions** [mm] size nominal diameter G 1/2 3/4 1 1/4 1 1/2 2 1 $A_1^*$ 160 158 156 204 192 220 В 235 235 235 235 350 350 С 275 275 275 275 420 420

		-	
tolerance	±	2 m	Im

140

G 1/4

140

G 1/4

### Weights [kg]

D

Е

-	-					
nominal dia	meter 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]						

140

G 1/4

140

G 1/4

200

G 1/4

200

G 1/4

# Dimensions [mm]

size	nominal diameter DN					
	15	20	25	32	40	50
A <sub>2</sub> *	160	160	160	180	200	230
В	235	235	235	235	350	350
С	275	275	275	275	420	420
D	140	140	140	140	200	200
Е	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4

#### \* tolerance ± 2 mm

#### Weights [kg]

nominal diameter DN							
15	20	25	32	40	50		
4.2	4.7	5	6	7.4	10.3		

Special designs on request.

The pressure has always been indicated as overpressure.

Mankenberg reserves the right to alter or improve the designs or

specifications of the products described herein without notice.



