Pipeline Ancillaries

Strainers and Filters SF 2.00I

sieve basket strainer for large diameters

Technical Data

Connection DN Nominal Pressure PN Temperature Medium 50 - 1000 16 - 40 50 °C (optional 450 °C) liquids, gases and steam

Description

Strainers protect plant and equipment such as regulators, valves, measuring equipment against damage or operational failure caused by contamination. They are essential for start-up as well as continuous operation.

SF 2.001 is a welded construction made of steel, optionally of stainless steel or special materials such as Duplex, Hastelloy® or Monel. The basket strainer is equipped with a ventilation sleeve in the cover and with a drain plug in the bottom of the body. Owing to the basket posed perpendicularly to the direction of flow and the straight throughflow, pressure loss in the dirt collecting chamber is relatively small. For larger nominal diameters, the installation of a strainer with the cover pointing upwards is recommended.

Various versions, materials and accessories are available (see options).

Cleaning is extremely simple and quick. Only the cover has to be removed for dismantelling.

Standard

- » body of welded steel
- » basket of stainless steel
- » ventilation sleeve in the cover
- » drain plug in the bottom of the body
- » primed and varnished as per RAL 5010 blue

Options

- » completely made of stainless steel (pickled and passivated)
- » strainer mesh sizes 0.1 10 mm
- » differential pressure display
- » quick-lock mechanism
- supporting feet
- » cover lifting and pivoting device
- » special materials such as Duplex, Hastelloy® or Monell
- » various seal materials suitable for your medium
- » special connections: ANSI or JIS 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.



& Fitting

Custom Services

Seeve Inlet								
nominal diameter DN	mesh size	filter area [cm²]	open screen area	volume				
50	0.5 mm	225	22%	2.2				
65	0.5 mm	350	22 %	4				
80	0.5 mm	500	22 %	6 I				
100	0.5 mm	825	22 %	14 I				
125	0.5 mm	1262	22 %	16 l				
150	0.5 mm	1916	22 %	26 l				
200	1 mm	2970	23 %	60 I				
250	1 mm	4704	23 %	90 I				
300	1 mm	6834	23 %	165 l				
350	1 mm	8156	23 %	265 l				
400	1 mm	10775	23 %	410 l				
500	1 mm	17013	23 %	780 l				

Calculation of flow resistance

 $\Delta p = \zeta \cdot w^2/2 \cdot \rho \cdot 10^{-5} \text{ [bar]}$ $\zeta = \text{Coeffizient of flow resistance}$ w [m/s] = Flow velocity

 $\rho = [kg/m^3]$: Density of medium

Exact calculation considering the operating conditions by request.

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Materia	ls								
Temperature		50 °C							
Body		St 35.8							
Cover		C 22.8							
Body Sea	al	Graphit							
Screen		stainless s	tee	I					
Siebkorb		CrNi-steel							
Dimensions [mm] PN 16*									
size		diameter D)NI						
size nominal		65 80			100		125	150	
А	230	290		310		350		400	480
B	145	164		188		237.5		280	333
C	228	280		328				502	602
øD	114.3	139.7		168.3		219.1		273	323.9
G*	G 1/2	G 1/2		G 1/2		G 1/2		G 1/2	G 1/2
H*	G 1/2	G 1/2		G 1/2		G 1/2		G 1/2	G 3/4
•	s [kg] PN								
	diameter								
50 6					100		125	150	
23	2	8	38	6		55		62	90
Dimensi	ions [mm] PN 16*							
size	nominal	diameter D	DN						
	200	250		300		350		400	500
А	600	730		850		980		1100	1250
В	401	508		601.5		662		756	939.5
С	732	932		1111		1214		1386	1731
øD	355.6	457		508		610		711	813
G	G 1/2	G 1/2		G 1/2		G 3/4		G 3/4	G 3/4
Н	G 3/4	G 1		G 1		G 1 1/2	2	G 1 1/2	G 1 1/2

Weights [kg] PN 16*

nominal diameter DN								
200	250	300	350	400	500			
185	230	425	660	920	1550			

* DN 600 - 1000 and other pressure rates on request

Customs Tariff Number 84818099

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.

Dimensional Drawing

