

Technische Dokumentation Technical Documentation



Fully Lined Flanged Filters & Strainers (DIN Version) Type Y101, PN 16

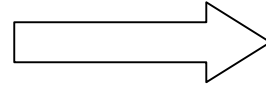
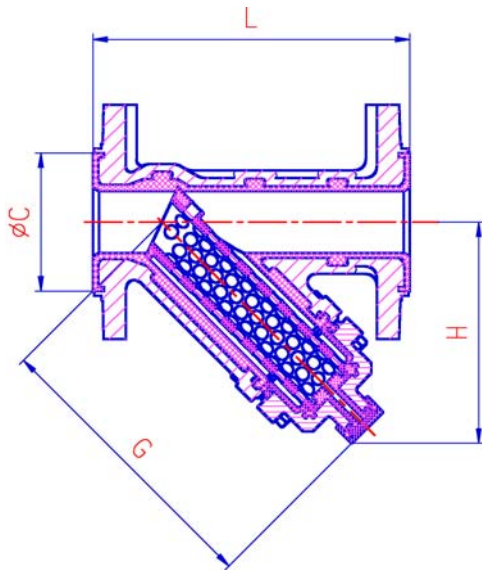
Design Features & Benefits

- **Fully lined with high-quality fluorocarbon resins (FEP / PFA)**
Lining thickness: 3mm
- **Ideal for highly corrosive and aggressive flow media**
- **High filtering result at minimal pressure drop**
Filtering surface: 1,5 up to 1,7 of pipe diameter (meets all requirements of the chemical industry)
- **Maximal flow, minimal flow resistance**
- **Perfect vacuum resistance by locked-in lining**
- **High-quality Teflon® filter insert with perforated Teflon®-foil**
- **Maintenance- and service-friendly design**
Simple and secure filter cleaning or exchange (directly in the piping system)
- **Different mesh sizes of screen allow the multifunctional filter use depending on various dirt levels**
- **Drainage connection optional available**
- **Epoxy coating as standard**

Materials

Body:	EN-JS1049 (0.7043, GGG 40.3)
Body Lining:	FEP or PFA
Screen support:	Teflon®
Screen:	Teflon®foil (20 holes with 1,2 mm diameter per 1 cm ²) Standard mesh size: 300µm; other mesh sizes on request
Flange cover:	1.0038 / 1.0161
Drain plug:	1.4408 with Teflon® sealing; cap can't get in contact with process medium.

Other materials and sizes on request.
Suitable for vacuum service: 1.33 mbar



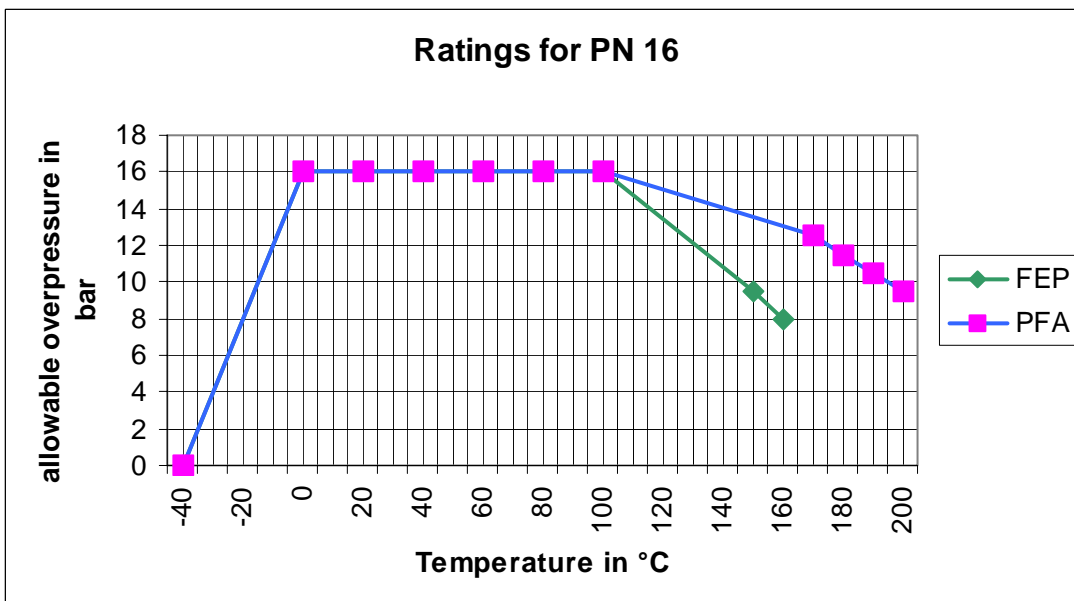
Flow direction

Installation and operating direction is marked on the valve body by an arrow.

Technical Data						Dimensions			
DN / NPS	A1 (cm ² *)	A2 (cm ² **)	A2/A1	K _{vs} (m ³ /h)	Weight (kg)	L (mm)	ØC (mm)	H (mm)	G (mm)
15 / ½				0.2	3.7	150	40	100	126
20 / ¾				0.22	3.7	150	57	100	126
25 / 1	4.9	8.575	1.75	5.3	4.3	160	66	104	131
40 / 1 ½	12.56	20.35	1.62	12.0	7.9	200	87	143	186
50 / 2	19.63	33.17	1.69	20.6	10.0	230	100	161	211
80 / 3	50.26	74.89	1.49	42.8	19.8	310	136	256	327
100 / 4	78.54	119.40	1.52	80.6	26.5	350	157	284	363

- *) A1: Free piping diameter (theoretical value)
- **) A2: Free filter surface at mesh size 300 micron
- ***) Three-piece design steel / Teflon® on request

Pressure-Temperature Range

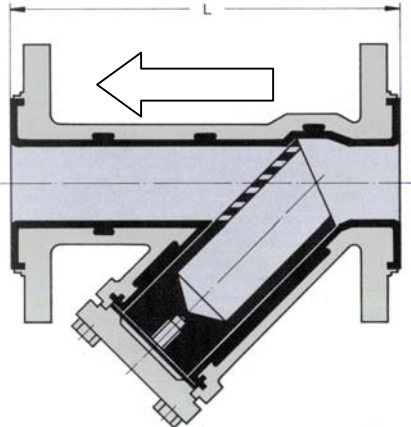


Fully Lined Flanged Filter & Strainer (ANSI & JIS Version) Type 0191 / 8191

Type 0191 Flanges as per ANSI Class 150

Type 8191 Flanges as per JIS 10 K

Other pressure classes on request.



Flow direction

Installation and operating direction is marked on the valve body by an arrow.

Dimensions in mm

NPS 0191*	DN 8191*	L		H		Approx. Weight in kg
		0191	8191	0191	8191	
*** 1/2	15	150	150	85	85	3.2
3/4	20	150	150	85	85	3.2
1	25	160	160	93	93	4.0
** 1 1/4	32	On request				
1 1/2	40	200	200	120	120	6.8
2	50	230	230	162	162	9.2
3	80	310	310	185	185	19.0
4	100	350	350	220	220	23.6

* DIN flanges drilled to ANSI Class 150 resp. JIS 10 K

** Only on request

*** Flange holes threaded.

Materials

Body: EN-JS1049 (0.7043, GGG 40.3)
 Body lining: FEP or PFA
 Screen support: Teflon®
 Screen: Teflon®, 20 holes per cm² (diameter 1.2 mm each)
 Other materials and sizes on request.

Pressure-Temperature-Rating

Temperature in °C	- 40	- 20	0	20	40	60	80	100	120	140	150	160	170	180
Oper. Pressure (bar) FEP	0	5	10	10	10	10	10	10	10	10	8	3		
Oper. Pressure (bar) PFA	0	5	10	10	10	10	10	10	10	10	10	9	8	5

Maximal operating pressure: 10 bar

Subject to technical modifications.



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