

PROCESS FILTER HOUSINGS

PFH Series – for Filtration of Compressed Air and Gases



Stainless steel filter housings of the PFH Series are suitable and designed for use in a wide variety of industrial applications. PFH filter housings in six different sizes with four standard connection types for Flow rates from 60m³/h up to 1,920m³/h based on 7 bar (g).

Features and Benefits

- > Construction, Design and Approval according to PED 2014/68 / EU (PED) // EN13445: 2014
- > for filter elements of sizes 2.5" - 30"
- > Filter element connection 126-mini P7 and 226-P7
- > for gases of fluid group 2 (fluid group 1 available on request)
- > Standard connection types BSP / MRO / weld-on ends / DIN flange
- > MRO connection between housing upper part and lower part

Applications

- > Food Industry
- > Beverage Industry
- > Breweries
- > Chemical Industry
- > Pharmaceutical Industry
- > Packaging Industry
- > Dairies

Food and Biological Safety

Meet the relevant requirements of EU 1935/2004 and EU Directive 10/2011

Parameters

> Material and Operating Properties

Filter Housings	Stainless Steel 1.4404 (316L) / 1.4301 (304) non contact parts
Seal	EPDM (FDA) (Other Seals available on request)
Surface Inside	Ra ≤ 0,8 Micron
Surface Outside	Ra ≤ 1,6 Micron
Operating Pressure	-1/16 bar
Temperature	-10°C / +150°C
Condensate Outlet	G 1/4"
Aeration and Ventilation	G 1/4"
Container Volume	0,7 - 18,1 L



PFH-Series in accordance with DGRL 2014/68/EU

Standard version: filter housing, gasket, 2 pcs.of threaded plug, without element

> BSP-Threaded Connection

Order no.	Volume Flow ¹ (L)		Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
	V _{nom} m³/h	V _{max} m³/h					
PFH0060-BSP	60	180	BSP	1/2"	Ø 21,34 x 2,11mm	2,5"	710,00
PFH0180-BSP	180	360	BSP	1"	Ø 33,40 x 2,80mm	5"-mini	950,00
PFH0360-BSP	360	720	BSP	1"	Ø 33,40 x 2,80mm	5"	1.220,00
PFH0720-BSP	720	1.440	BSP	1 1/2"	Ø 48,30 x 2,80mm	10"	1.400,00
PFH1440-BSP	1.440	1.920	BSP	2"	Ø 60,30 x 2,80mm	20"	1.850,00
PFH1920-BSP	1.920	2.880	BSP	3"	Ø 88,90 x 2,10mm	30"	2.480,00

> MRO-Connection DIN11851

Order no.	Volume Flow ¹ (L)		Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
	V _{nom} m³/h	V _{max} m³/h					
PFH0060-MRO	60	180	DIN11851	DN15 / DIN11851	Ø 19,00 x 1,50mm	2,5"	740,00
PFH0180-MRO	180	360	DIN11851	DN25 / DIN11851	Ø 29,00 x 1,50mm	5"-mini	980,00
PFH0360-MRO	360	720	DIN11851	DN25 / DIN11851	Ø 29,00 x 1,50mm	5"	1.280,00
PFH0720-MRO	720	1.440	DIN11851	DN40 / DIN11851	Ø 41,00 x 1,50mm	10"	1.460,00
PFH1440-MRO	1.440	1.920	DIN11851	DN50 / DIN11851	Ø 53,00 x 1,50mm	20"	1.930,00
PFH1920-MRO	1.920	2.880	DIN11851	DN80 / DIN11851	Ø 85,00 x 2,00mm	30"	2.710,00

> Welding End DIN11850-2

Order no.	Volume Flow ¹ (L)		Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
	V _{nom} m³/h	V _{max} m³/h					
PFH0060-ASE	60	180	DIN11850-2	DN15 / DIN11850-2	Ø 19,00 x 1,50mm	2,5"	740,00
PFH0180-ASE	180	360	DIN11850-2	DN25 / DIN11850-2	Ø 29,00 x 1,50mm	5"-mini	980,00
PFH0360-ASE	360	720	DIN11850-2	DN25 / DIN11850-2	Ø 29,00 x 1,50mm	5"	1.280,00
PFH0720-ASE	720	1.440	DIN11850-2	DN40 / DIN11850-2	Ø 41,00 x 1,50mm	10"	1.460,00
PFH1440-ASE	1.440	1.920	DIN11850-2	DN50 / DIN11850-2	Ø 53,00 x 1,50mm	20"	1.930,00
PFH1920-ASE	1.920	2.880	DIN11850-2	DN80 / DIN11850-2	Ø 85,00 x 2,00mm	30"	2.710,00

> Flange Connection to EN1092-1

Order no.	Volume Flow ¹ (L)		Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
	V _{nom} m³/h	V _{max} m³/h					
PFH0060-FLA	60	180	EN1092-1	DN15 / EN1092-1	Ø 21,34 x 2,11mm	2,5"	740,00
PFH0180-FLA	180	360	EN1092-1	DN25 / EN1092-1	Ø 33,40 x 2,80mm	5"-mini	980,00
PFH0360-FLA	360	720	EN1092-1	DN25 / EN1092-1	Ø 33,40 x 2,80mm	5"	1.280,00
PFH0720-FLA	720	1.440	EN1092-1	DN40 / EN1092-1	Ø 48,30 x 2,80mm	10"	1.460,00
PFH1440-FLA	1.440	1.920	EN1092-1	DN50 / EN1092-1	Ø 60,30 x 2,80mm	20"	1.930,00
PFH1920-FLA	1.920	2.880	EN1092-1	DN80 / EN1092-1	Ø 88,90 x 2,10mm	30"	2.710,00

¹ Volume Flow (V_{nom}) referred to 20°C and 1 bar abs and based on 7 bar g operating pressure.

Filter housings for higher volume flows, different operating conditions, connection types and special versions are available on request.

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PROCESS FILTER HOUSINGS

PFH Series – for Filtration of Steam



Stainless steel filter housings of the PFH Series are suitable and designed for use in a wide variety of industrial applications. PFH filter housings in six different sizes with four standard connection types for Flow rates from 60 m³/h up to 1,920m³/h based on 7 bar (g).

Features and Benefits

- > Construction, Design and Approval according to PED 2014/68 / EU (PED) // EN13445: 2014
- > for filter elements of sizes 2.5 „- 30“
- > Filter element connection 126-mini P7 and 226-P7
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- > Standard connection types BSP / MRO / weld-on ends / DIN flange
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Parameters

> Material and Operating Properties

Filter Housings	Stainless Steel 1.4404 (316L) / 1.4301 (304) non contact parts
Seal	EPDM (FDA)
Surface Inside	polished Ra ≤ 0,8 Micron
Surface Outside	polished Ra ≤ 1,6 Micron
Operating Pressure	-1/16 bar
Temperature	-10°C / +150°C
Condensate Outlet	G 1/4"
Aeration and Ventilation	G 1/4"
Container Volume	0,7 - 18,1 L



Suitable steam elements can be found from page 28.

PFH-Series in accordance with DGRL 2014/68/EU

Standard version: filter housing, gasket, 2 pcs.of threaded plug, without element

> BSP-Threaded Connection

Order no.	Steam Flow ¹ (kg/h)	Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
max						
PFH0060-BSP	15,00	BSP	1/2"	Ø 21,34 x 2,11mm	2,5"	710,00
PFH0180-BSP	22,50	BSP	1"	Ø 33,40 x 2,80mm	5"-mini	950,00
PFH0360-BSP	33,75	BSP	1"	Ø 33,40 x 2,80mm	5"	1.220,00
PFH0720-BSP	90,00	BSP	1 1/2"	Ø 48,30 x 2,80mm	10"	1.400,00
PFH1440-BSP	180,00	BSP	2"	Ø 60,30 x 2,80mm	20"	1.850,00
PFH1920-BSP	240,00	BSP	3"	Ø 88,90 x 2,10mm	30"	2.480,00

> MRO-Connection DIN11851

Order no.	Steam Flow ¹ (kg/h)	Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
max						
PFH0060-MRO	15,00	DIN11851	DN15 / DIN11851	Ø 19,00 x 1,50mm	2,5"	740,00
PFH0180-MRO	22,50	DIN11851	DN25 / DIN11851	Ø 29,00 x 1,50mm	5"-mini	980,00
PFH0360-MRO	33,75	DIN11851	DN25 / DIN11851	Ø 29,00 x 1,50mm	5"	1.280,00
PFH0720-MRO	90,00	DIN11851	DN40 / DIN11851	Ø 41,00 x 1,50mm	10"	1.460,00
PFH1440-MRO	180,00	DIN11851	DN50 / DIN11851	Ø 53,00 x 1,50mm	20"	1.930,00
PFH1920-MRO	240,00	DIN11851	DN80 / DIN11851	Ø 85,00 x 2,00mm	30"	2.560,00

> Welding End DIN11850-2

Order no.	Steam Flow ¹ (kg/h)	Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
max						
PFH0060-ASE	15,00	DIN11850-2	DN15 / DIN11850-2	Ø 19,00 x 1,50mm	2,5"	740,00
PFH0180-ASE	22,50	DIN11850-2	DN25 / DIN11850-2	Ø 29,00 x 1,50mm	5"-mini	980,00
PFH0360-ASE	33,75	DIN11850-2	DN25 / DIN11850-2	Ø 29,00 x 1,50mm	5"	1.280,00
PFH0720-ASE	90,00	DIN11850-2	DN40 / DIN11850-2	Ø 41,00 x 1,50mm	10"	1.460,00
PFH1440-ASE	180,00	DIN11850-2	DN50 / DIN11850-2	Ø 53,00 x 1,50mm	20"	1.930,00
PFH1920-ASE	240,00	DIN11850-2	DN80 / DIN11850-2	Ø 85,00 x 2,00mm	30"	2.560,00

> Flange Connection to EN1092-1

Order no.	Steam Flow ¹ (kg/h)	Connection	Connection Size	Pipe Diameter	Filter Element Height	Price in €
max						
PFH0060-FLA	15,00	EN1092-1	DN15 / EN1092-1	Ø 21,34 x 2,11mm	2,5"	740,00
PFH0180-FLA	22,50	EN1092-1	DN25 / EN1092-1	Ø 33,40 x 2,80mm	5"-mini	980,00
PFH0360-FLA	33,75	EN1092-1	DN25 / EN1092-1	Ø 33,40 x 2,80mm	5"	1.280,00
PFH0720-FLA	90,00	EN1092-1	DN40 / EN1092-1	Ø 48,30 x 2,80mm	10"	1.460,00
PFH1440-FLA	180,00	EN1092-1	DN50 / EN1092-1	Ø 60,30 x 2,80mm	20"	1.930,00
PFH1920-FLA	240,00	EN1092-1	DN80 / EN1092-1	Ø 88,90 x 2,10mm	30"	2.560,00

¹ Flow Rate at 2 bar abs 121°C kg/h.

Filter housings for higher volume flows, different operating conditions, connection types and special versions are available on request.

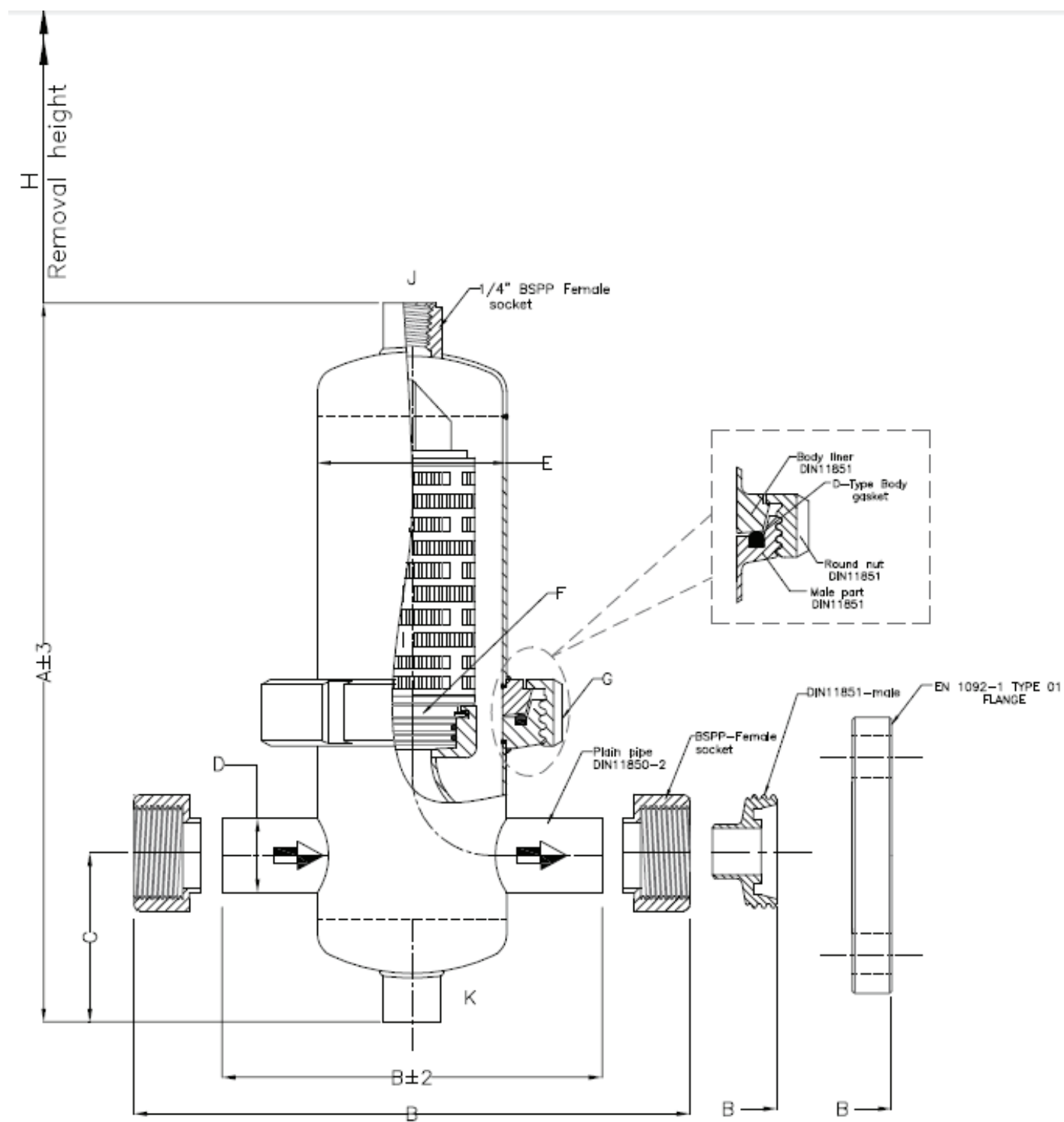
Corrective Factors for Steam Applications

Pressure in bar abs.	1	2	4	6	10
Saturated Steam Temperature	100	121	140	160	180
Factor f	0,5	1	2	3	5

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PROCESS FILTER HOUSINGS

PFH Series – for Filtration of Steam



Size Dimensions (mm) / Weight (kg) / Volume (L)

Data are approximate values. We reserve the right to make technical changes.

Order no.	Height (A)	Width (B)	Extension Dimension (H)	Volume	Weight
PFH0060-BSP	203,50	120,00	65,00	0,70	3,70
PFH0060-MRO	203,50	176,00	65,00	0,70	3,90
PFH0060-ASE	203,50	176,00	65,00	0,70	3,70
PFH0060-FLA	203,50	200,00	65,00	0,70	4,00
PFH0180-BSP	288,50	120,00	140,00	0,90	4,30
PFH0180-MRO	288,50	176,00	140,00	0,90	4,50
PFH0180-ASE	288,50	176,00	140,00	0,90	4,30
PFH0180-FLA	288,50	200,00	140,00	0,90	4,80
PFH0360-BSP	398,00	165,00	200,00	2,50	5,60
PFH0360-MRO	398,00	220,00	200,00	2,50	5,90
PFH0360-ASE	398,00	220,00	200,00	2,50	5,60
PFH0360-FLA	398,00	250,00	200,00	2,50	6,10
PFH0720-BSP	506,00	150,00	320,00	3,40	6,90
PFH0720-MRO	506,00	220,00	320,00	3,40	7,10
PFH0720-ASE	506,00	220,00	320,00	3,40	6,90
PFH0720-FLA	506,00	250,00	320,00	3,40	7,30
PFH01440-BSP	813,00	175,00	590,00	5,80	9,00
PFH01440-MRO	813,00	220,00	590,00	5,80	8,80
PFH01440-ASE	813,00	220,00	590,00	5,80	9,40
PFH01440-FLA	813,00	250,00	590,00	5,80	
PFH1920-BSP	1133,00	164,00	840,00	18,10	16,80
PFH1920-MRO	1133,00	260,00	840,00	18,10	17,10
PFH1920-ASE	1133,00	260,00	840,00	18,10	16,80
PFH1920-FLA	1133,00	300,00	840,00	18,10	17,50

Corrective Factors for Compressed Air and Gas Applications

Operating Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor f	0,30	0,40	0,50	0,60	0,80	0,90	1,00	1,10	0,20	1,40	1,50	1,60	1,80	1,90	2,00	2,10