PROCESS FILTRATION
From Pure to Sterile

P-EG

MAIN FEATURES & BENEFITS

- High quality stainless steel design
- Extremely low differential pressure
- Various connection types
- From 60 m^3/h up to 19.200 m^3/h

INDUSTRIES

- Food

- Beverages

- Engineering

- Chemical

- Pharmaceutical

- Automotive

PRODUCT DESCRIPTION

P-EG filter housings have been developed for the purification of compressed air and other technical gases in industrial ranges of application. Due to the optimized construction they offer low differential pressure at high flow rates. Numerous different sizes of housings with various connections make it possible to adopt the filter system to exactly the needed requirements.

This product series contains 18 different sizes of housings for operating volume flows of 60 to 19.200 Nm^3/h related to 7 bar(g). The Donaldson plug connection guarantees that the elements remain safely fixed always. Due to the modular design different element types can be installed into the housing, resulting in a highly flexible filtration system

APPLICATIONS

The P-EG housing is designed and developed for the following applications:

Filtration of air and gases

- Compressed Air
- Carbon Dioxide
- Technical Gases

Filtration of Steam

MATERIAL DECLARATION

All P-EG housings are designed in accordance with

- FDA CFR Code of Federal Regulations Title 21
- Pressure Equipment Directive 2014/68/EU

PRODUCT SPECIFICATIONS

Inner Surface Finish:	0006-0288	etched and passivated Ra <1.6*
	0432-1920	etched and passivated
Outer Surface Finish:	0006-0288	etched, passivated and polished Ra <1.6*
	0432-1920	etched and passivated
Maximum Operating Pressure:	0006-0192	16 bar
	0288	12 bar
	0432-1920	10 bar
Maximum operating temperature:	-25 / +150 °C	
Connection types:	BSP thread connection (Standard for 0006-0288 single housings)	
	DIN flange (standard starting at 0432 multiple housing)	
	Welded ends	

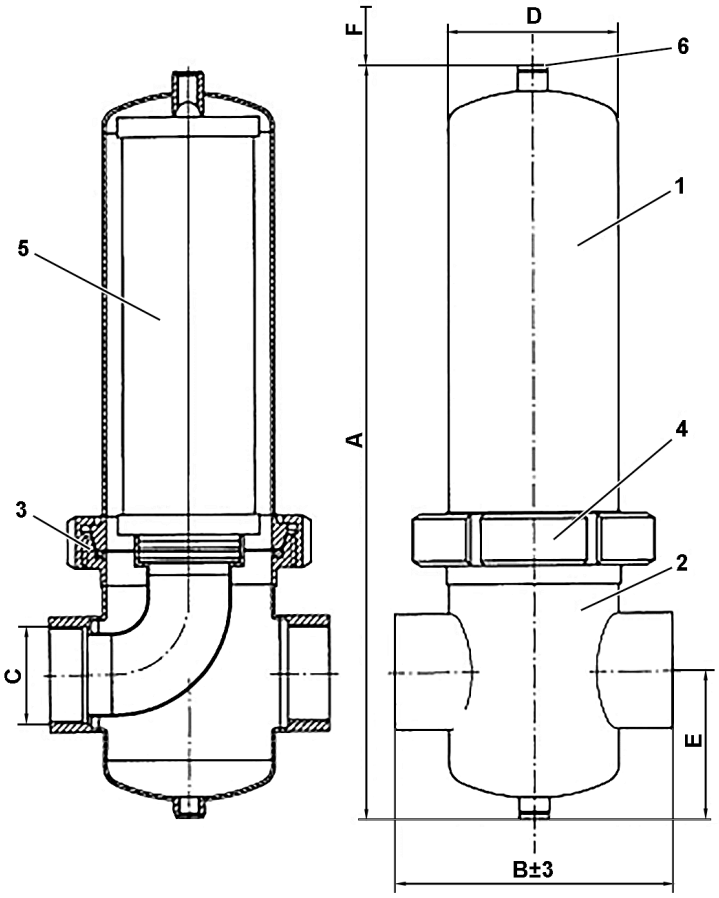
*Ra-values don't apply to welding seams

HOUSING TYPE P-EG 0006-0288 WITH THREAD CONNECTION

Pos.	Piece	Description
6	2	Plug ¼"
5	1	Filter element
4	1	Nut
3	1	Housing gasket
2	1	Lower housing bowl
1	1	upper housing bowl

Max. Operating Pressure		
0006-0192	16 bar	
0288	12 bar	
Test Pressure		
	1.4301	**1.4404**
0006-0192	29.3 bar	27.0 bar
0288	22.0 bar	20.2 bar
Max. Operating Temperature		
-25 / +150 °C		
Materials		
Material Housing	1.4301 or	1.4404/1.4435
Attaching Parts	1.4301	
Surface Finish		
inside Ra 1,6*; etched and passivated		
outside Ra 1,6*; etched, passivated and polished		

*Ra-values don't apply to welding seams



CLASSIFICATION ACC. TO 2014/68/EU

Fluids Group 2	
P-EG 0006-0048	Art.4, par.3
P-EG 0072-0288	Cat. I

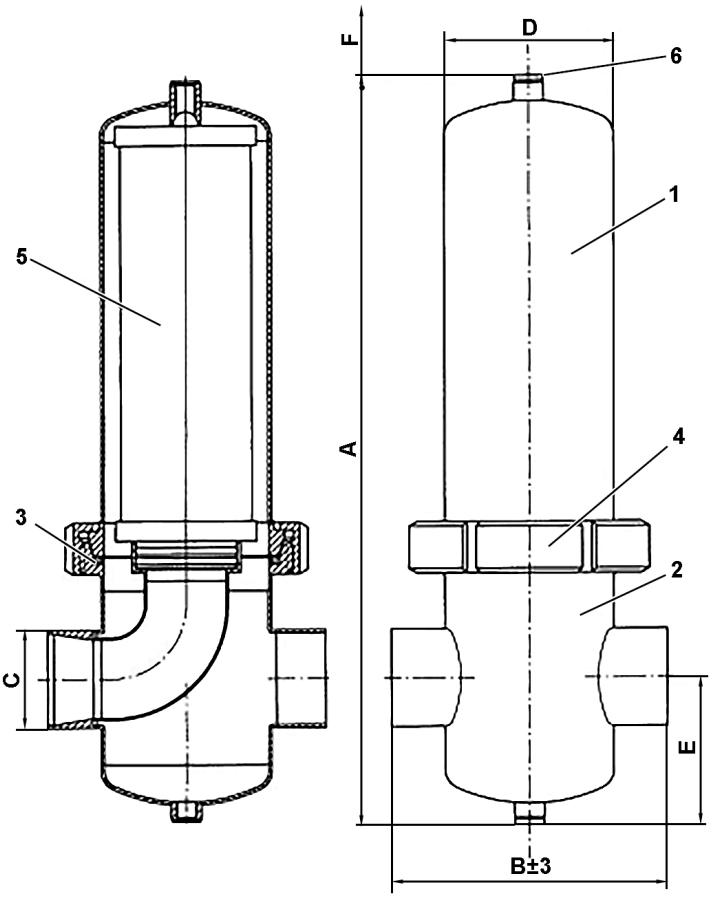
Size	Volume	Weight	A	B	C	Ø D	E	F	Element
	[l]	[kg]	[mm]	[mm]		[mm]	[mm]	[mm]	
0006	0.55	1.7	215	108	G¼	70	52	90	03/10
0009	0.65	1.9	243	108	G ⅜	70	52	120	04/10
0012	0.65	1.9	243	108	G½	70	52	120	04/20
0018	0.75	2.0	267	125	G¾	70	52	150	05/20
0027	1.0	2.6	293	125	G1	85	71	150	05/25
0036	1.25	3.0	345	140	G1¼	85	71	200	07/25
0048	2.3	4.3	387	170	G1½	104	94	200	07/30
0072	3.3	4.8	461	170	G2	104	94	280	10/30
0108	4.3	5.3	588	170	G2	104	94	450	15/30
0144	8.0	9.0	734	216	G2½	129	103	580	20/30
0192	11.1	10.8	996	216	G3	129	107	850	30/30
0288	16.5	16.2	1025	240	G3	154	114	850	30/50

HOUSING TYPE P-EG 0006-0288 WITH WELDED ENDS FOR ISO- PIPE

Pos.	Piece	Description
6	2	Plug ¼"
5	1	Filter element
4	1	Nut
3	1	Housing gasket
2	1	Lower housing bowl
1	1	Upper housing bowl

Max. Operating Pressure		
0006-0192	16 bar	
0288	12 bar	
Test Pressure		
	1.4301	**1.4404**
0006-0192	29.3 bar	27.0 bar
0288	22.0 bar	20.2 bar
Max. Operating Temperature		
-25 / +150 °C		
Materials		
Material Housing	1.4301 or	1.4404/1.4435
Attaching Parts	1.4301	
Surface Finish		
inside Ra 1,6*; etched and passivated		
outside Ra 1,6*; etched, passivated and polished		

*Ra-values don't apply to welding seams



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Fluids Group 2	
P-EG 0006-0048	Art.4, par.3
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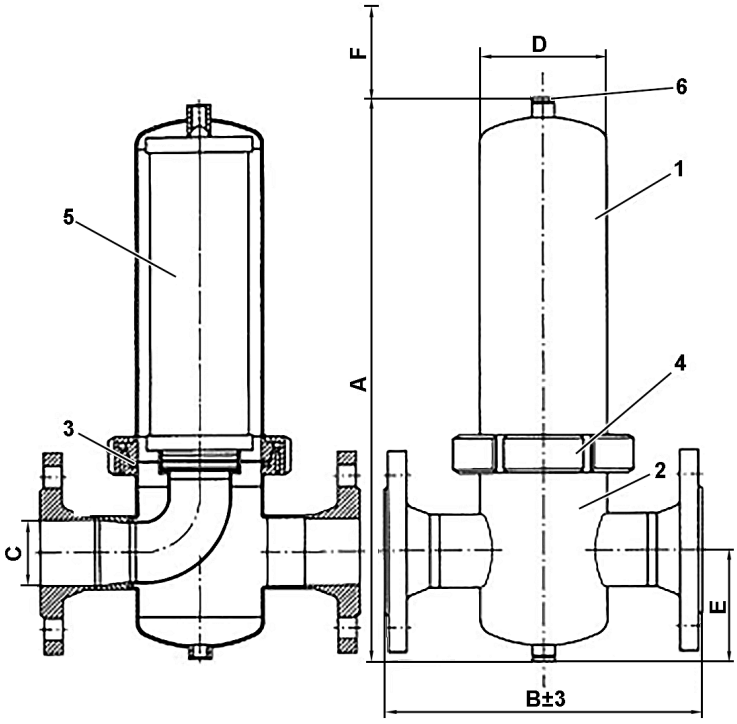
Size	Volume	Weight	A	B	C	Ø D	E	F	Element
	[l]	[kg]	[mm]	[mm]		[mm]	[mm]	[mm]	
0006	0.55	1.7	215	108	17.2/DN10	70	52	90	03/10
0009	0.65	1.9	243	108	17.2/DN10	70	52	120	04/10
0012	0.65	1.9	243	108	21.3/DN15	70	52	120	04/20
0018	0.75	2.0	267	125	26.9/DN20	70	52	150	05/20
0027	1.0	2.6	293	125	33.7/DN25	85	71	150	05/25
0036	1.25	3.0	345	140	42.4/DN32	85	71	200	07/25
0048	2.3	4.3	387	170	48.3/DN40	104	94	200	07/30
0072	3.3	4.8	461	170	60.3/DN50	104	94	280	10/30
0108	4.3	5.3	588	170	60.3/DN50	104	94	450	15/30
0144	8.0	9.0	734	216	76.1/DN65	129	103	580	20/30
0192	11.1	10.8	996	216	88.9/DN80	129	107	850	30/30
0288	16.5	16.2	1025	240	88.9/DN80	154	114	850	30/50

HOUSING TYPE P-EG 0006-0288 WITH FLANGE CONNECTION

Pos.	Piece	Description
6	2	Plug ¼"
5	1	Filter element
4	1	Nut
3	1	Housing gasket
2	1	Lower housing bowl
1	1	Upper housing bowl

Max. Operating Pressure		
0006-0192	16 bar	
0288	12 bar	
Test Pressure		
	1.4301	**1.4404**
0006-0192	29.3 bar	27.0 bar
0288	22.0 bar	20.2 bar
Max. Operating Temperature		
-25 / +150°C		
Materials		
Material Housing	1.4301 or	1.4404/1.4435
Attaching Parts	1.4301	
Surface Finish		
inside Ra 1,6*; etched and passivated		
outside Ra 1,6*; etched, passivated and polished		

*Ra-values don't apply to welding seams



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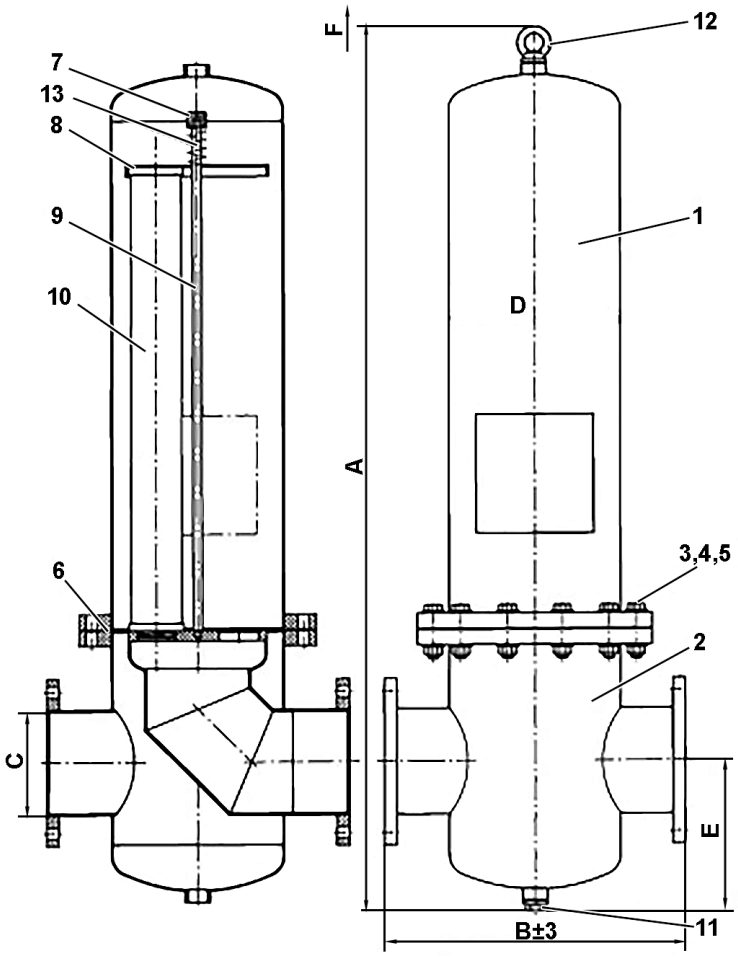
Fluids Group 2	
P-EG 0006-0048	Art.4, par.3
P-EG 0072-0288	Cat. I

Size	Volume	Weight	A	B	C	Ø D	E	F	Element
	[l]	[kg]	[mm]	[mm]		[mm]	[mm]	[mm]	
0006	0.55	1.7	215	108	DN10	70	52	90	03/10
0009	0.65	1.9	243	108	DN10	70	52	120	04/10
0012	0.65	1.9	243	108	DN15	70	52	120	04/20
0018	0.75	2.0	267	125	DN20	70	52	150	05/20
0027	1.0	2.6	293	125	DN25	85	71	150	05/25
0036	1.25	3.0	345	140	DN32	85	71	200	07/25
0048	2.3	4.3	387	170	DN40	104	94	200	07/30
0072	3.3	4.8	461	170	DN50	104	94	280	10/30
0108	4.3	5.3	588	170	DN50	104	94	450	15/30
0144	8.0	9.0	734	216	DN65	129	103	580	20/30
0192	11.1	10.8	996	216	DN80	129	107	850	30/30
0288	16.5	16.2	1025	240	DN80	154	114	850	30/50

HOUSING TYPE P-EG 0432-1920 WITH FLANGE CONNECTION

Pos.	Description
13	Spring
12	Lifting eye bolt
11	Plug
10	Filter element
9	Anchor bolt
8	Bracket plate
7	Bracket bolt
6	Gasket
5	Nut
4	Washer
3	Hexagon bolt
2	Lower housing bowl
1	Upper housing bowl

Max. Operating Pressure		
10 bar		
Test Pressure		
18.3 bar		
Max. Operating Temperature		
-25 / +150 °C		
Materials		
Material Housing	1.4301	
Attaching Parts	1.4301	
Surface Finish		
inside Ra 1,6*; etched and passivated		
outside Ra 1,6*; etched, passivated and polished		



CLASSIFICATION ACC. TO 2014/68/EU

Fluids Group 2	
P-EG 0432-0768	Cat. II
P-EG 1152-1920	Cat. III

Size	Volume	Weight	A	B	C	Ø D	E	F	Element
	[l]	[kg]	[mm]	[mm]		[mm]	[mm]	[mm]	
0432	36	43	1090	410	DN100	219.1	200	580	3X 20/30
0576	54	44	1350	410	DN100	219.1	200	850	3X 30/30
0768	77	70	1410	480	DN150	273	240	850	4X 30/30
1152	110	80	1460	540	DN150	323.9	250	850	6X 30/30
1536	190	135	1600	660	DN200	406.4	300	850	8X 30/30
1920	190	135	1600	660	DN200	406.4	300	850	10x 30/30

Donaldson FILTRATION SOLUTIONS

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Donaldson Company, Inc.
Minneapolis, MN

Contact us

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