



Donaldson
FILTRATION SOLUTIONS

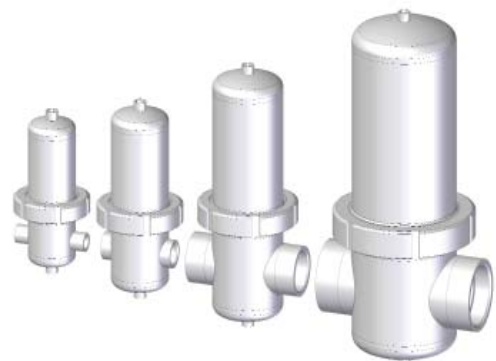
Sterile Air, Steam & Liquid Filtration

From pure to sterile

P-EGS 0005 – 0030

MAIN FEATURES & BENEFITS:

- **Steam Filter Housing**
- **Design in compliance with**
 - FDA CFR-Code of Federal Regulations Title 21
 - Framework regulation 1935/2004/EC
 - Pressure Equipment Directive 2014/68/EU
- **High quality stainless steel design**
- **Extremely low differential pressure**
- **Various connection types**



INDUSTRIES:



- **Food and beverage industry**



- **Dairy**



- **Chemical industry**



- **Pharmaceutical industry**



- **Fermentation**

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PRODUCT DESCRIPTION

P-EGS housings were developed for the purification of steam in different ranges of applications. Due to the optimized construction they offer a very low differential pressure at high flow rates. Combined with the different Donaldson filter elements P-GSL N they provide an optimised solution for nearly all applications.

The P-EGS series is available in 4 different housing sizes with steam mass flows up to 600 kg/h (at 2 bar abs.). The Donaldson plug connection guarantees that the element remains safely fixed at all times. The housings are available with BSP threads, flange or with hygienic welded end connection according to DIN 11850.

DIRECTIVES

All P-EGS steam housings are designed in accordance with

- FDA CFR-Code of Federal Regulations Title 21
- Framework regulation 1935/2004/EC
- Pressure Equipment Directive 2014/68/EU

All P-EGS steam housings are manufactured according to

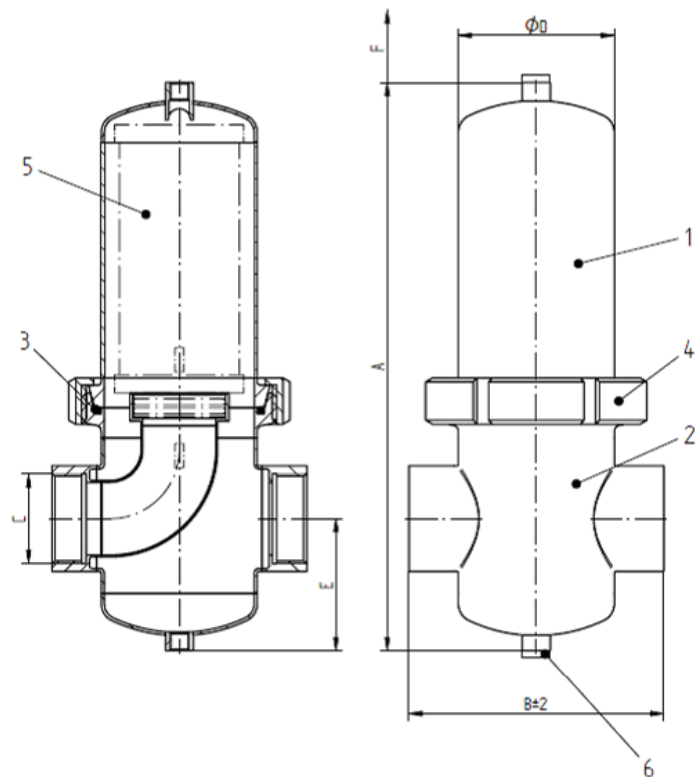
- ISO 9001/2008



DIMENSIONS

Position	Pcs.	Description
1	1	upper housing bowl
2	1	lower housing bowl
3	2	housing gasket
4	1	nut
5	1	filter element
6	2	plug 1/4"

Max. operating pressure:	16 bar
Max. operating temperature with standard gasket EPDM:	-25 / +150°C*
Test pressure:	27 bar
Material:	1.4404
Surfaces:	Inside: etched, passivated Ra<1,6µm Outside: etched, passivated and polished, Ra<1,6µm
Classification acc. to 2014/68/EU:	for fluids of group 2



* T>150°C special o-rings required

housing size	weight**			vol-ume	A	B			connection C		Ø D	E	F	element size
	BSP	DIN 11850	Flange			BSP	DIN 11850	Flange	BSP	DIN 11850, Flange				
	kg	kg	kg	l	mm	mm	mm	mm		mm	mm	mm	mm	
0005	1,9	1,9	3,6	0,6	235	108	108	184	G 1/2	DN15 Ø 19 x 1,5	70	49	120	04/20
0010	2,6	2,6	5,6	1,0	285	125	125	205	G 1	DN25 Ø 29 x 1,5	85	68	150	05/20
0020	4,8	4,8	10,2	2,7	379	170	170	266	G 2	DN50 Ø 53 x 1,5	104	88	200	07/30
0030	11,2	11,2	20,2	8,8	509	240	240	356	G 3	DN80 Ø 85 x 2	154	110	280	10/50

** without filter element

SIZING RECOMMENDATION

Optimal Steam Flows on combination with P-GSL N 1µm elements							
	Flow [kg/h]						
	@ 2 bar abs.	@ 3 bar abs.	@ 4 bar abs.	@ 5 bar abs.	@ 6 bar abs.	@ 7 bar abs.	@ 8 bar abs.
P-EGS 0005	→ 27	→ 39	→ 51	→ 62	→ 73	→ 84	→ 97
P-EGS 0010	→ 84	→ 120	→ 160	→ 194	→ 215	→ 235	→ 255
P-EGS 0020	→ 240	→ 310	→ 370	→ 420	→ 470	→ 510	→ 550
P-EGS 0030	→ 575	→ 750	→ 890	→ 1010	→ 1130	→ 1250	→ 1350

¹⁾ Parameters: Pipe velocity < 30 m/s or initial differential pressure < 0,05 bar (@ 2 bar abs.)

Maximum Steam Flows in combination with P-GSL N 1µm elements							
	Flow [kg/h]						
	@ 2 bar abs.	@ 3 bar abs.	@ 4 bar abs.	@ 5 bar abs.	@ 6 bar abs.	@ 7 bar abs.	@ 8 bar abs.
P-EGS 0005	→ 35	→ 52	→ 67	→ 83	→ 98	→ 113	→ 128
P-EGS 0010	→ 112	→ 162	→ 210	→ 259	→ 305	→ 355	→ 375
P-EGS 0020	→ 295	→ 420	→ 550	→ 627	→ 695	→ 755	→ 815
P-EGS 0030	→ 880	→ 1140	→ 1350	→ 1540	→ 1715	→ 1875	→ 2025

¹⁾ Parameters: pipe velocity < 40 m/s or initial differential pressure < 0,1 bar (@ 2 bar abs.)

- For information on integrity test equipment or integrity test services, please contact your Donaldson Sales Engineer or visit our website at www.donaldson.com!