



P-GSL N

AIR, STEAM AND LIQUID FILTRATION

fits Donaldson P-EG & PG-EG housings

Process Filtration

Regenerable pleated, stainless steel filter element.

Improved steam quality ensures increased efficiency of the entire process and longer service life of the filters to be sterilized.

The Donaldson® P-GSL N captures contaminants such as particles, abraded valves and seals, and rust. The P-GSL N can be used in higher capacity applications where low pressure drop and reduced space are critical.

All components meet the USA requirements for Food Contact Use in accordance with the Code of Federal Regulations (CFR) Title 21, and the EU requirements for Food Contact Use according to EC/1935/2004. The filter element is manufactured in accordance with these manufacturing requirement, has no migration of filter media, and is non-fiber releasing.



P-GSL N

RETROFIT OPTIONS

P-GSL N elements offer drop-in replacements for:

- Parker Domnick Hunter
- Pall
- RP Adams

APPLICATIONS

- Food & Beverage
- Dairy
- Chemical
- Pharmaceutical
- Fermentation
- Pasteurization
- Sterilization in Place (SIP)
- Rust Capture

FEATURES	BENEFITS
Low pressure drop	Higher flow rates at a low pressure drop
Pleated, stainless steel media	Filter down to 0.01 µm in air/saturated steam
Double O-Ring	Regenerable by back-flushing or ultrasonic cleaning
Longer service life which leads to a lower cost of ownership	Energy savings allow for reduced operating costs

SPECIFICATIONS

Continuous Operating Temperature Range	-56° C to 210° C, > 149° C (-68° F to 410° F, > 300° F) special O-Rings are required
Filtration Surface	1765 cm ² per 254 mm (1.9 ft ² per 10") element (10/30)
Maximum Differential Pressure	5.2 bar (75 psid), independent of the system pressure or temperature (Flow direction = outside to inside)

RETENTION RATES

Retention Rates [Air, 20° C (68° F), 263 m ³ /hr (155 scfm)], 10/30 Element		
Element Pore Size (µm)	98% (µm)	>99.9% (µm)
1	0.5	< 1
5	1	<5
25	5	25 µm

MATERIALS	
Filter Media	304 SS
Support Cage	304 SS
End Caps	304 SS
O-Rings	EPDM (alternate materials available upon request)

Fractional Efficiency P-GSL N, 1 µm, Air/Saturated Steam						
Fractional Efficiency [%]						
Media Grade (µm)	0.01 µm	0.07 µm	0.1 µm	0.2 µm	0.3 µm	0.4 µm
1	99.99	99.65	98.69	99.08	99.49	99.74

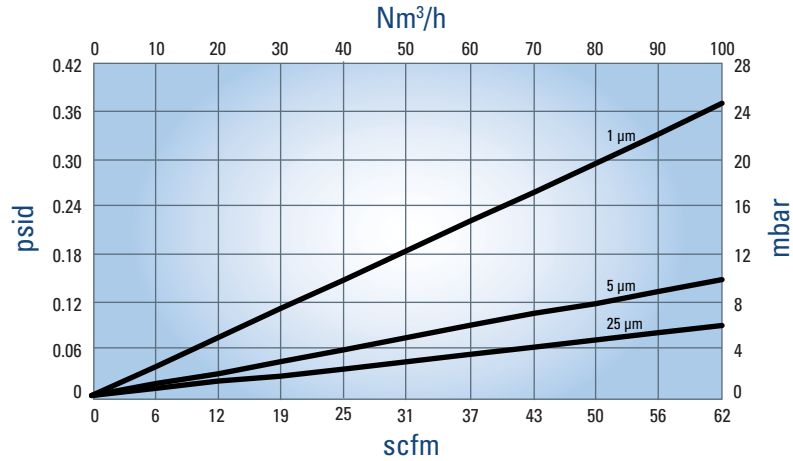
Retention Rates (Water, 68°F, 10/30 Element)						
	1 µm	5 µm	25 µm	50 µm	100 µm	250 µm
Nominal (~98%)	1 µm (~99.7%)	4 µm	15 µm	40 µm	60 µm	200 µm
Absolute (>99.98%)	1.5 µm	5 µm	25 µm	60 µm	100 µm	250 µm

MATERIAL COMPLIANCE

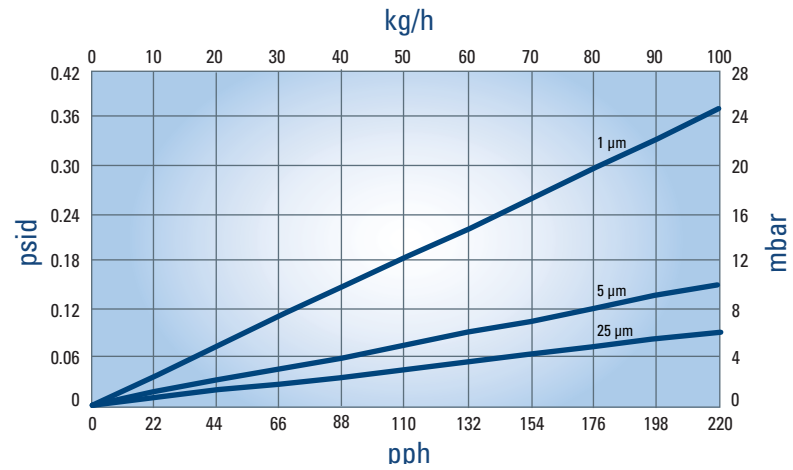
All components of the P-GSL N filter element are FDA listed for food contact use in the Code of Federal Regulations (CFR), Title 21. All products have been inspected and released by Quality Assurance as meeting the requirements. All filters are fabricated without the use of binders, adhesives, additives or surface-active agents.

FLOW CHARACTERISTICS FOR 254 MM (10") ELEMENT (10/30)

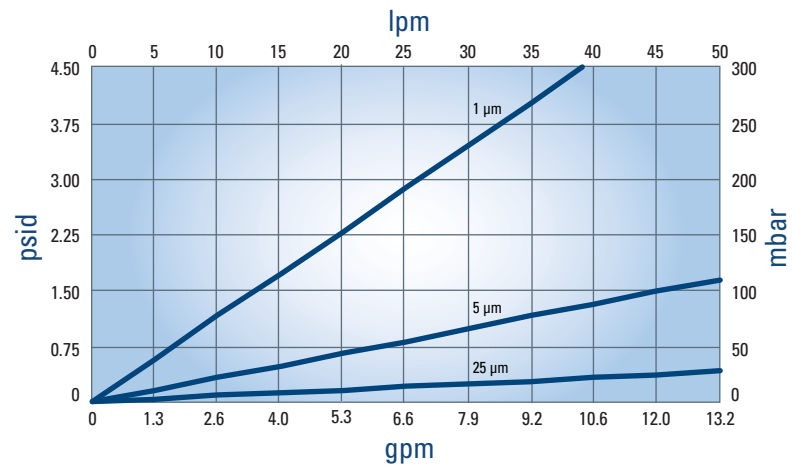
P-GSL N GAS 1 BAR (14.5 PSIA)



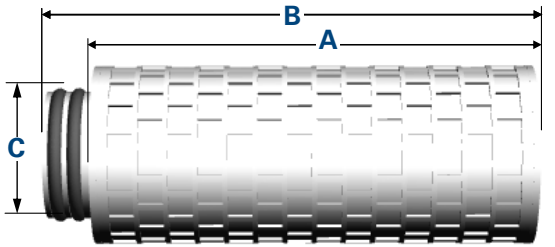
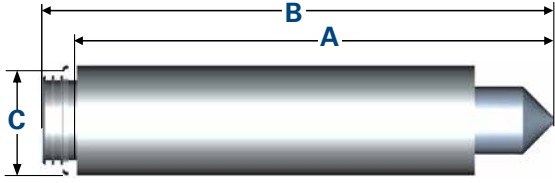
P-GSL N STEAM (121° C [250° F] 2 BAR [29 PSIA])



P-GSL N WATER (1.0 CP 20° C [70° F])



DIMENSIONS



CODE 7							
Filter Size	Dimensions						CF*
	A		B		C		
	mm	in.	mm	in.	mm	in.	
05/3	128	5.04	150	5.91	56	2.2	0.44
10/3	255	10.04	277	10.91	56	2.2	1.00
20/3	498	19.61	520	20.47	56	2.2	2.13
30/3	744	29.29	766	30.16	56	2.2	3.27

*Correction Factors for filtration surface area.

UF – Push-in End Connection							
Filter Size	Dimensions						CF*
	A		B		C		
	mm	in.	mm	in.	mm	in.	
03/10	76	2.99	87	3.42	30	1.18	0.17
04/10	104	4.09	115	4.53	37	1.18	0.26
04/20	104	4.09	118	4.64	37	1.46	0.26
05/20	128	5.04	144	5.67	37	1.46	0.35
07/20	180	7.09	194	7.64	61	1.46	0.52
05/30	128	5.04	144	5.67	61	2.40	0.44
07/30	180	7.08	196	7.71	61	2.40	0.67
10/30	254	10	270	10.63	61	2.40	1.00
15/30	381	15	397	15.63	61	2.40	1.57
20/30	508	20	524	20.63	61	2.40	2.13
30/30	762	30	778	30.63	61	2.40	3.27

*Correction Factors for filtration surface area.

Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



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