



Donaldson
FILTRATION SOLUTIONS

P-GSL N

**STERILE AIR, STEAM AND
LIQUID FILTRATION**

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

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.

RETROFIT OPTIONS

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

- Parker Domnick Hunter
- Pall
- RP Adams

These elements are available in these connection styles:

- | | |
|-------------------|---------------|
| • Double open end | • Jumbo |
| • Trueseal | • 226 Bayonet |
| • Demi | • Porocarbon |
| • Threaded UF | |

APPLICATIONS

- | | |
|------------------|------------------|
| • Processed food | • Chemical |
| • Beverage | • Pharmaceutical |
| • Dairy | • Fermentation |

FEATURES & BENEFITS

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

SPECIFICATIONS

MATERIALS

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

TEMPERATURE RANGE

-68°F to 410°F, > 300°F special O-Rings are required

MAXIMUM DIFFERENTIAL PRESSURE

75 psid, independent of the system pressure or temperature
(Flow direction = outside to inside)

FILTRATION SURFACE

1.9 ft² per 10 in element (10/30)

RETENTION RATES

Retention Rates (Air, 68°F, 155 scfm, 10/30 Element)

Media Grade (µm)	98% (µm)	>99.9% (µm)
1	0.1	< 1
5	1	<5
25	15	25 µm

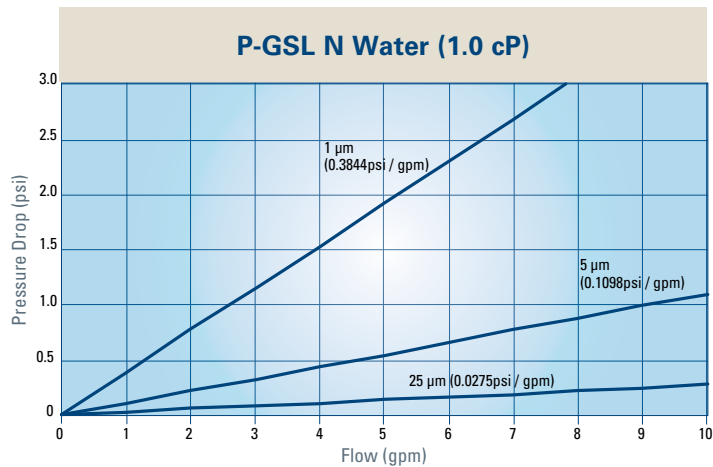
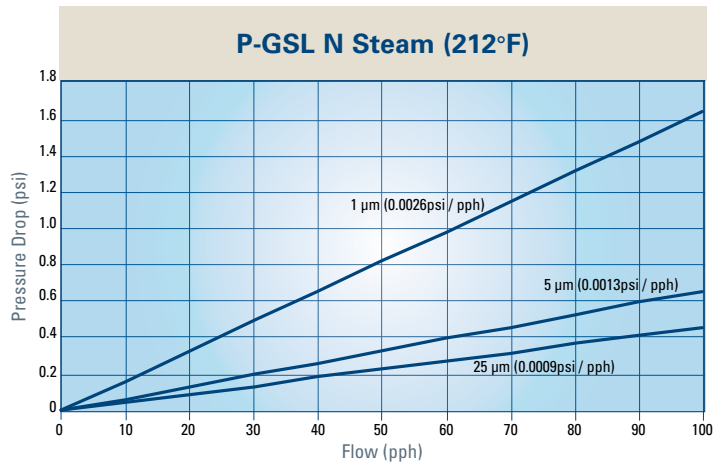
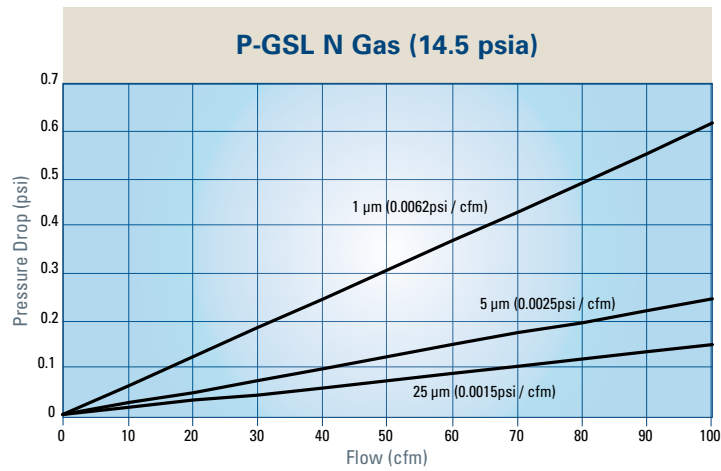
Fractional Efficiency P-GSL N, 1 µm, Air/Saturated Steam

Fractional Efficiency [%]

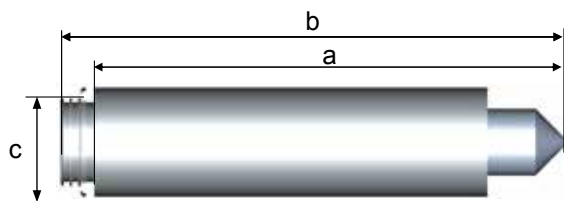
Media Grade (µm)	0.01 µm	0.07 µm	0.1 µm	0.2 µm	0.3 µm	0.4 µm
1	99.99	99.65	98.69	99.08	99.49	99.74

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

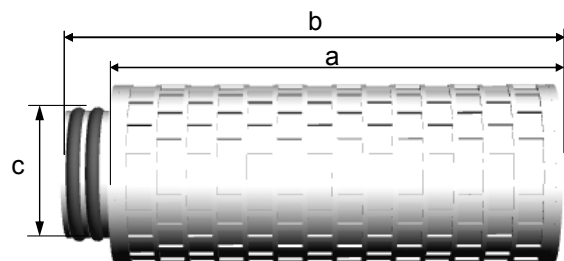
FLOW CHARACTERISTICS FOR 10" ELEMENT (10/30)

DIMENSIONS



CODE 7				
Filter Size	Dimensions (in)			CF*
	a	b	c	
05/3	5.04	5.91	2.2	0.44
10/3	10.04	10.91	2.2	1.00
20/3	19.61	20.47	2.2	2.13
30/3	29.29	30.16	2.2	3.27

*Correction Factors for filtration surface area.



UF – Push-in End Connection				
Filter Size	Dimensions (in)			CF*
	a	b	c	
03/10	2.99	3.42	1.18	0.17
04/10	4.09	4.53	1.18	0.26
04/20	4.09	4.64	1.46	0.26
05/20	5.04	5.67	1.46	0.35
07/20	7.09	7.64	1.46	0.52
05/30	5.04	5.67	2.40	0.44
07/30	7.08	7.71	2.40	0.67
10/30	10	10.63	2.40	1.00
15/30	15	15.63	2.40	1.57
20/30	20	20.63	2.40	2.13
30/30	30	30.63	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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F117012 (07/18) ENG P-GSL N Sterile Air, Steam and Liquid Filtration

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