G310 Series Versalon™ Medium Pressure Filters



M&EG310ENe

Features

- Flows to 120 L/min (32 US gpm)
- Pressures to 250 bar (3625 psi)
- Port size: 1"
- Out-to-in filter element flow path

Notes and Specifications Filter Housing

Maximum Allowable

Working Pressure: 250 bar (3625 psi)

Rated Fatigue Pressure: 0-240 bar (0-3480 psi) per

NFPA T2.6.1 R2-2001 CAT C/90. Verified by testing at 0-280 bar (0-4060 psi) for 1 million cycles. Contact Pall for applications with higher pressures at lower cycles

Fluid Compatibility: Compatible with all

petroleum oils, water glycols, water-oil emulsions and most synthetic hydraulic and lubrication fluids

Temperature Range:

Maximum operating

temperature: 120 °C (250 °F)

Minimum operating

temperature: -25 °C (-13 °F)

Minimum ambient

temperature: -40 °C (-40 °F)

Bypass Valve Setting: 'G' option -4.5 ± 0.5 bard

 $(65 \pm 7 \text{ psid})$

Indicator Pressure Setting: 3.4 ± 0.4 bard (50 ± 6 psid)

Materials of Construction: Head - SG Iron

Bowl - Carbon steel

Filter Element

Filter Element Burst Pressure:

10 bard (145 psid)

Filter Element

Construction: Inorganic fibers

impregnated and bonded with epoxy resins. Polyamide

endcaps. Corrosion

protected carbon steel core.

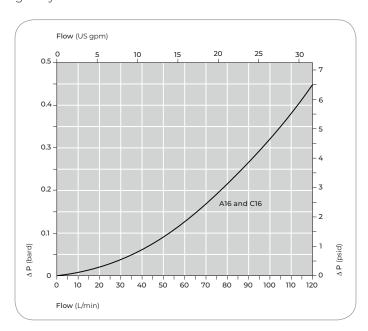


G310 series filter housing

Pressure Drop Information

Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



HCG300 Filter Elements – bard/1000 L/min (psid/US gpm)

Length Code	RN	RS	RD	RT
04	5.60 (0.31)	4.17 (0.23)	2.68 (0.15)	2.87 (0.16)

Multiply actual flow rate times factor in table above to determine pressure drop with fluid at 32 cSt (150 SUS), 0.9 S.G. Correct for other fluids by multiplying new viscosity in cSt/32 (SUS/150) x new S.G./0.9. Note: factors are per 1000 L/min and per 1 US gpm.

Note: factors are per 1000 L/min and per 1 US gpm.

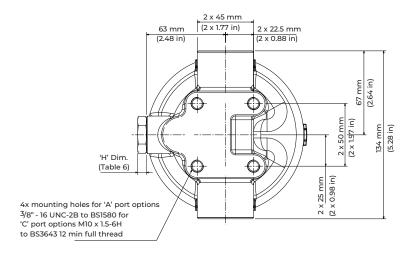
Sample ΔP calculation

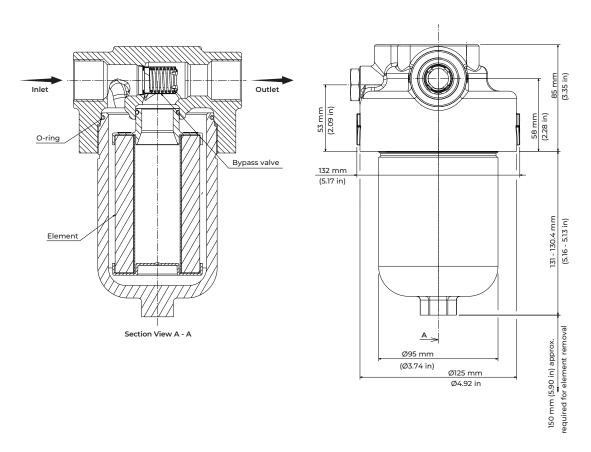
G310 Series 4" length housing with C16 ports using N grade media. Operating conditions 50 L/min flow rate using a hydraulic fluid at 45 cSt and specific gravity (s.g.) 1.2.

Total Filter △P

- = $\triangle P$ housing + $\triangle P$ element
- $= (0.09 \times 1.2/0.9)$ bard (housing)
- + ((50 x 5.35/1000) x 45/32 x 1.2/0.9) bard (element)
- = 0.73 bard (housing) + 0.46 bard (element)
- = 0.12 bard (housing) + 0.50 bard (element)
- = 0.62 bard (8.99 psid)

Dimensional Drawings





Ordering Information

Assembly P/N*

HZG310A16RSRG1X160	HZG310C16RSRG1X160
--------------------	--------------------

* Other options available, contact factory

Element P/N: HCG300F | 2 | 4Z

Seal P/N: G300SKZ

Table 1: Housing Port Style Options

Code	Port Style
A16	SAE J1926 straight thread
C16	BSP threads to ISO 228

Table 2: Filter Element Options

Code	$\beta_{x(c)} \ge 2000$ based on ISO 16889	
RN	7	
RS	12	
RD	19	
RT	22	

Table 3: Differential Pressure Indicator Port Options

Code	Indicator
1	Machined port with plastic shipping plug Indicator must be installed prior to operation



Corporate Headquarters

Port Washington, NY, USA +1-800-717-7255 toll free (USA) +1-516-484-5400 phone

European Headquarters

Fribourg, Switzerland +41 (0)26 350 53 00 phone

Asia-Pacific Headquarters

Singapore +65 6389 6500 phone

Visit us on the Web at www.pall.com/industry Contact us at www.pall.com/contact

Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

 $\label{lem:if-applicable} IF APPLICABLE \ \ Please \ contact \ Pall \ Corporation \ to \ verify \ that \ the \ product \ conforms \ to \ your \ national \ legislation \ and/or \ regional \ regulatory \ requirements for \ water \ and \ food \ contact \ use.$

© Copyright 2022, Pall Corporation. Pall, (ALL) and Versalon are trademarks of Pall Corporation.

® Indicates a trademark registered in the USA.

M&EG310ENe