

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 Settings:
 'G' option 4.5 ± 0.5 bard (65 ± 7 psid)
- Indicator Pressure Settings: 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

Versalon™ High Pressure Filters

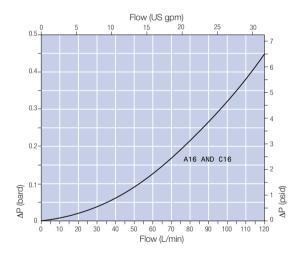


G310 Series filter housing

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	CN	CS	KD	CT
04	5.60	4.17	2.68	2.87
	(0.31)	(0.23)	(0.15)	(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.

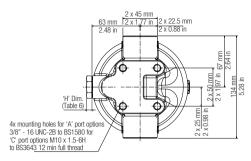
Sample ΔP calculation

G310 Series 4" length housing with C16 ports using KN 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

- = ΔP housing + ΔP 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)
- = 0.12 bard (housing) + 0.50 bard (element)
- = 0.62 bard (8.99 psid)

Dimensional Drawings



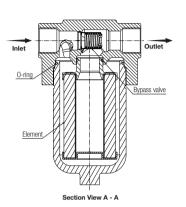
Ordering Information

Assembly P/N*: HZG310A16CSRG1X160 HZG310C16CSRG1X160

Other options available, contact factory

Element P/N: HCG300F 4 Z

Seal P/N: G300SKZ



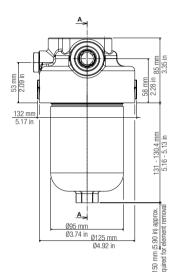


Table 1: Housing Port Style Options

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

Table 2: Filter Element Options

Code	β _{X(C)} ≥1000 based on ISO 16889			
CN	7			
CS	12			
KD	19			
CT	22			

Table 3: Differential Pressure Indicator Port Options

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





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