Pall Corporation

New: F410 Series

Versalon™ Medium Pressure Filters

Features

- Flows to 250 L/min (66 US gpm)
- Pressures to 70 bar (1015 psi)
- Port size 1¼" and 1½"
- Out-to-in filter element flow path

Notes and Specifications
Filter Housing

- **Maximum Allowable Working Pressure**: 70 bar (1015 psi)
- **Rated Fatigue Pressure:** 0 - 40 bar (580 psi) per NFPA T2.6.1 R2-2001 CAT C/90, verified by testing at 0 - 46.5 bar (675 psi)
- **Fluid Compatibility:** Compatible with all petroleum oils, water glycols, water-oil emulsions and most synthetic hydraulic and lubrication fluids
- **Temperature Range:** Fluorocarbon Seals: -29 ˚C to 120 ˚C (-20 ˚F to 250 ˚F)

  50 ºC (122 ºF) maximum in HWCF or water glycol fluids
- **Bypass Valve Settings:** 'G' option – 4.5±0.5 bard (50±7 psid)
- **Indicator Pressure Settings:** 3.4±0.5 bard (50±7 psid) for 'G'option
- **Materials of Construction:** Head: SG Iron Bowl: Aluminium

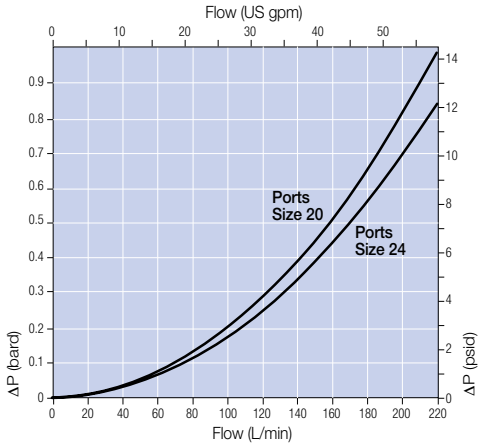
Filter Element

- **Filter Element Collapse Pressure:** 10 bard (145 psid)
- **Filter Element Construction:** Inorganic fibers impregnated and bonded with specifically formulated resins. Polyamide endcaps. Corrosion protected carbon steel core.

F410 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	KN	KS	KD	KT
10	2.20 (0.12)	1.47 (0.08)	1.13 (0.06)	1.01 (0.05)
13	1.69 (0.09)	1.11 (0.06)	0.85 (0.05)	0.77 (0.04)

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

F410 Series 10" length housing with C20 ports using KN grade media. Operating conditions 100 L/min flow rate using a hydraulic fluid at 20 cSt and specific gravity (s.g.) 1.2.

Total Filter ΔP

= ΔP housing + ΔP element
= (0.21 x 1.2/0.9) bard (housing)
  + ((100 x 2.2/1000) x 20/32 x 1.2/0.9) bard (element)
= 0.28 bard (housing) + 0.18 bard (element)
= 0.46 bard (6.67 psid)

Dimensional Drawings

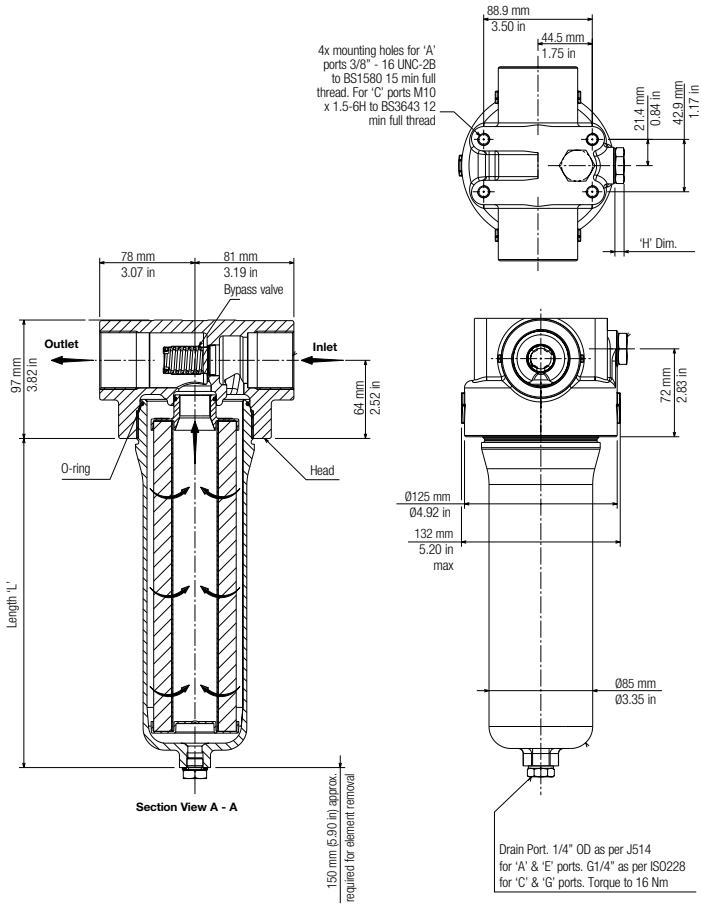


Table 1: Housing Port & Size Options

Code	Port Size	Port Style Option
A20	1 ¼"	O-Ring boss per SAE J1926
A24	1 ½"	
C20	1 ¼"	BSP Thread to ISO228
C24	1 ½"	

Table 2: Filter Element Options

Code	$\beta_{x(c)} \geq 1000$ based on ISO 16889
KN	7
KS	12
KD	19
KT	22

Table 3: Length Options

Housing Code	Element Code	Length L*
K	10	271 mm (10.67 in)
T	13	339 mm (13.35 in)

* Nominal length

Table 4: Differential Pressure Indicator Options

Code	Indicator	'H' Dim.
0	Unmachined indicator port	-
1	Machined port with plastic shipping plug Indicator must be installed prior to operation Only available to distributors	-
B	Bleed plug and seal in place of indicator	16
C	Electrical switch - normally closed, automatic reset Connection: Deutsch DT042P	74
D	Visual indicator, window changes from white to red on indication. Automatic reset	36
U	Electrical switch - normally closed, automatic reset Connection: AMP junior timer connector	67

Ordering Information

Housing P/N:

HZF410 ☐ ☐ ☐ G ☐ 1X160
Table 1 Table 2 Table 3 Table 4

Element P/N: HCG300F ☐ ☐ Z
Table 2 Table 3

Seal P/N: G400SKZ

Pall Corporation

25 Harbor Park Drive
Port Washington NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

Portsmouth - UK
+44 (0)23 9233 8000 telephone
+44 (0)23 9233 8811 fax
industrialeu@pall.com

Filtration. Separation. Solution.SM

Visit us on the Web at www.pall.com

Better Lives. Better Planet.

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

M&EF410EN Printed in the UK November 2013