

Athalon™ maximum-life filters deliver the highest level of sustained fluid system protection, across all applications, regardless of severity.

Featuring an industry leading Beta_{X(C)}=2000* filter efficiency; the highest rated filter performance available today.

(* per ISO 16889)

Notes and Specifications Filter Housing

- Flows to 835 L/min (220 US gpm)
- Pressures to 28 bar (400 psi)
- Port Size 2" and 2½"
- Rated Fatigue Pressure:

0-23 bar (330 psi) per NFPA T2.06.01R2-2001 CAT C/90/*(1 million cycles), verified by testing at 0-27 bar (392 psi) for 1 million cycles.

• Filter Element Burst Pressure:

10 bard (150 psid)

· Fluid Compatibility:

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

• Temperature Range:

Fluorocarbon Seals:
-29 °C to 120 °C (-20 °F to 248 °F)
60 °C (140 °F) maximum in HWCF or water glycol fluids

• Bypass Valve Setting:

4.5 bard (65 psid) or

1.7 bard (25 psid)

· Indicator Pressure Setting:

3.5 Bard (50 psid) or

1.1 bard (16 psid)

· Materials of Construction:

Head, cover and tube: Aluminium

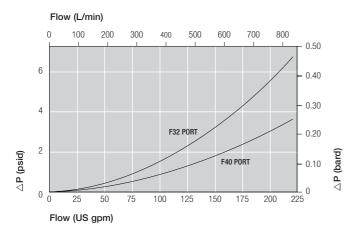
• Filter Element :

Inorganic fibers impregnated and bonded with epoxy resins. Polymer endcaps. Anti-static media design

Pressure Drop Information

Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



New: UR610 Series

Athalon™ Return Line Filters

- Keeps fluids the cleanest, longest, for the greatest value
- Provides consistent, reliable, protection of system components over the full service life of the filter element
- Rapidly achieves and sustains required fluid system cleanliness
- Delivers maximum filter capacity in the smallest footprint
- Prevents electrostatic discharge from damaging your filter and degrading your fluid

Features

- Patented Ultipleat (laid-over pleat) filter medium pack
- Pall Stress-Resistant Technology (SRT) Media
- Coreless filter element configuration
- Low clean differential pressure for low energy operation



UR610 Series

Element Pressure Drop

610 Series Filter Elements - bard/1000 L/min (psid/US gpm)

Length Code	AZ	AP	AN	AS	AT
20	1.31 (0.072)	0.56 (0.030)	0.43 (0.023)	0.31 (0.017)	0.19 (0.011)
40	0.70 (0.038)	0.30 (0.016)	0.23 (0.013)	0.17 (0.009)	0.10 (0.006)

Multiply actual flow rate times factor in table below 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

UR610 Series 40" length housing with F40 (2 1/2" ISO 6162) split flange ports using AN grade media. Operating conditions 600 L/min flow rate using a hydraulic fluid of 50 cSt and specific gravity (s.g.) 1.2.

Total Filter ∆P

- = ΔP housing + ΔP element
- $= (0.17 \times 1.2/0.9)$ bard (housing)
- + ((600 x 0.23/1000) x 50/32 x 1.2/0.9) bard (element)
- = 0.23 (housing) + 0.29 bard (element)
- = 0.52 bard (7.5 psid)

Ordering Information

For new installations, select one complete part number from each section below

Section 1 Housing P/N: UR610



Note: Pall Athalon filter housings are supplied without filter elements or warning devices fitted. Never operate the filter unless a filter element is fitted and all warning device ports are sealed.

Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall. Housing P/N designates indicator port fitted with a plastic shipping plug.

Table A

Port & Length Options		
Tables 1, 2 and 3		
A3220Z		
A3240Z		
C3220Z		
C3240Z		
D3220Z		
D3240Z		
D4020Z		
D4040Z		
F3220Z		
F3240Z		
F4020Z		
F4040Z		

Table 1: Housing Port Options

Code	Port Style		
Α	SAE J1926 straight thread		
С	BSP ISO 228 threads		
D	Flange J518C code 61		
F	ISO 6162 split flange		

Table 2: Port Size Code Port Style

2" nominal

2 1/2" nominal

Code 32

40

Table	Table 3: Housing Length and Seal Options		
Code Length and Seal Material			
20Z	20" nominal length, fluorocarbon seals		

40Z 40" nominal length, fluorocarbon seals

Table 4: Bypass Valve and Service Options

	Bypass Valve and Service Type	
Code		
Α	1.7 bard (25 psid) bypass valve, cover service	
G	4.5 bard (65 psid) bypass valve, cover service	
N	No bypass valve	

Seal Kit P/N: SR610SKZ

*Other seal material options are available; Contact Pall.

Section 2 Element P/N: UE 610



15/11/06

16/14/08



Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall.

Table 5: Filter Element Options

Code	β _{X(C)} ≥2000 based on ISO 16889	CST Rating*
AZ	3	07/04/01
AP	5	11/08/03
AN	7	13/09/04

* CST: Cyclic Stabilization Test to determine filter rating under stress conditions, based on SAE ARP4205

Section 3 (At least one Differential Pressure Indicator or 'B' type blanking plug must be ordered)

Differential Pressure Indicator P/N:

RC

AT



Note: If no differential pressure indicator

is selected, 'B' type blanking plug (P/N $\,$

HC9000A104Z) must be ordered separately

and fitted to replace the plastic shipping plug.

12

25



Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall

Table 6: Indicator Options

Code	Brass Option indicator	
A218M	Electrical switch (SPDT) with Hirschmann connector	
A218R	Electrical switch (SPDT) with Hirschmann connector with Red and Green LED indicators	
A219D	Visual indicator	

Other options are available; contact Pall.

Table 7: Indicator Pressue Setting Option

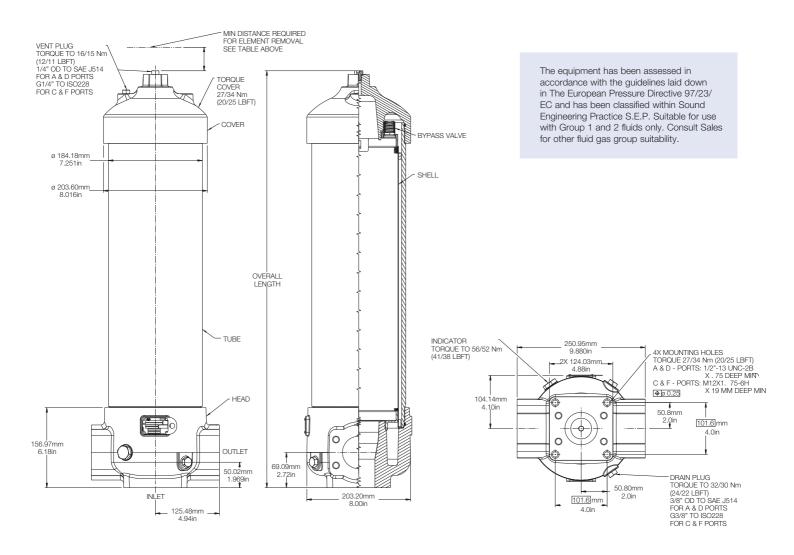
Code	Valve		
084	For 'A' Valve Option - Housings (1.1 bard - 16 psid)		
For 'G' and 'N' Valve Options - Housings (3.5 bard - 50 ps			

Other setting options are available; contact Pall.

Dimensional Drawings

Dimensions in mm (inches)

Length Code	Overall length mm (in)	Cover Service Element Removal Clearance mm (in)	Empty Weight kg (lb)
20	818.6 (32.23)	552 (21.7)	24.8 (54.7)
40	1326.6 (52.23)	1060 (41.7)	34.9 (77.0)





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M&EUR610EN Printed in the UK February 2016