



Pall Corporation

UR619

UR619 Series Filters ULTIPLEAT® SRT RETURN LINE FILTERS Port Size 1½", 2" and 2½"



Features

- Patented Ultipleat (laid-over pleat) filter medium pack
- Coreless, cageless element configuration
- Pall Stress-Resistant Technology (SRT) Media
- In-to-out filter element flow path
- Flows to 835 L/min (220 US gpm)
- Pressures to 28 barg (400 psid)
- Port size 1½", 2" and 2½"

Notes and Specifications

Filter Housing

- **Maximum Working Pressure:**
28 barg (400 psid)
- **Rated Fatigue Pressure:**
23 barg (330 psid)
10⁶ cycles per NFPA T2.06.01R2-2001
- **Typical Burst Pressure:**
145 barg (2100 psid)
- **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)
60 °C (140 °F) maximum in HWCF or water glycol fluids
- **Materials of Construction:**
Head and tube: Aluminum alloy
Cover: Ductile Iron

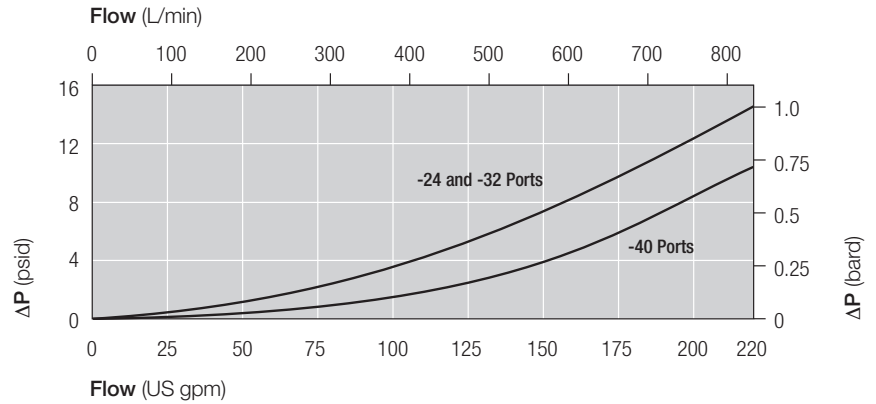
Filter Element

- **Filter Element Burst Pressure:**
10 barg (150 psid)
- **Ultipleat SRT Element Construction:**
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..



Element Pressure Drop

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.

619 Series Filter Elements — barg/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)

Sample ΔP calculation

UR619 Series 40" length housing with C32 (2" BSP) threaded ports using AN grade media. Operating conditions 500 L/min flow rate using a hydraulic fluid of 50 cSt and specific gravity (s.g.) 1.2.

Total Filter ΔP

$$\begin{aligned}
 &= \Delta P_{\text{housing}} + \Delta P_{\text{element}} \\
 &= (0.41 \times 1.2/0.9) \text{ barg (housing)} \\
 &+ ((500 \times 0.23/1000) \times 50/32 \times 1.2/0.9) \text{ barg (element)} \\
 &= 0.55 \text{ barg (housing)} + 0.24 \text{ barg (element)} \\
 &= \mathbf{0.79 \text{ barg (11.5 psid)}}
 \end{aligned}$$

The equipment has been assessed in accordance with the guidelines laid down in The European Pressure Directive 97/23/EC and has been classified within Sound Engineering Practice S.E.P. Suitable for use with Group 2 fluids only. Consult Sales for other fluid gas group suitability.

UR619 Series Filters

Ordering Information

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

Section 1

Housing P/N:

Note: Pall Ultiplex SRT 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.

Mounting Bracket P/N:

Seal Kit P/N:

Table 1: Housing Port Options

Code	Port
A24	1½" SAE J514 straight thread
D24	1½" Flange J518C code 61 with ½"-13 UNC holding bolts
A32	2" SAE J514 straight thread
D32	2" Flange J518C code 61 with ½"-13 UNC holding bolts
D40	2½" Flange J518C code 61 with ½"-13 UNC holding bolts
C24	1½" BSP ISO 228 threads
F24	1½" ISO 6162 split flange with M12 x 1.75 holding bolts
C32	2" BSP ISO 228 threads
F32	2" ISO 6162 split flange with M12 x 1.75 holding bolts
F40	2½" ISO 6162 split flange with M12 x 1.75 holding bolts




UR 619 C  ++  Z  1

Table 1 Table 2 Table 3

Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall. The suffix '1' at the end of the Housing P/N designates 1 indicator port fitted with a plug.

HA8300-BRKT-1

1 bracket and associated hardware
Order 2 mounting brackets for 20" length housing.
Order 3 mounting brackets for 40" length housing.

UR 619 SK Z

*Other seal material options are available; Contact Pall.

Table 2: Housing Length Options

Code	Length (in)*
20	20
40	40

* Nominal length

Table 3: Housing Bypass Valve Options

Code	Valve
A	1.7 bard - 25 psid
G	4.5 bard - 65 psid
N	Non-Bypass

Section 2

Element P/N:

Table 1: Filter Element Options

Code	$\beta_{x(c)} \geq 1000$ based on ISO 16889	CST Rating*
AZ	3	08/04/01
AP	5	12/07/02
AN	7	15/11/04
AS	12	16/13/04
AT	22	17/15/08

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

UE 619   Z

Table 1 Table 2

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

Table 2: Filter Element Length Options

Code	Length (in)*
20	20
40	40

* Nominal length

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

Differential Pressure Indicator P/N:

Note: Two Differential Pressure Indicators can be fitted on this housing

Table 1: Differential Pressure Indicator Options*

Code	Indicator	'H' Dim.
778NZ	'P' type Visual indicator with thermal lockout	21mm (0.83in)
860MZ	'D' type Visual indicator with no thermal lockout	21mm (0.83in)
861CZ	'L' type Electrical switch (SPDT) with 6" leads	38mm (1.50in)
861CZ	'M' type Electrical switch (SPDT) with DIN43650 connector and matching cap	78mm (3.07in)
861CZ	'R' type Electrical switch (SPDT) and neon light indicator with DIN43650 connector and cap	89mm (3.50in)
771BZ	'S' type Electrical switch (SPDT) with 3-pin MS connector	57mm (2.24in)

* Other options available on application.




RC   Z  

Table 1 Table 2 Table 3 Table 4

Note: If no differential pressure indicator is selected, 'B' Type blanking plug (P/N HA9000-P8-Kit Z) must be ordered separately and fitted to replace the plastic shipping plug.

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

Table 2: Indicator Pressure Setting Option*

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

* Other setting options are available; contact Pall.

Table 3: 'M' & 'R'-Type Indicator Codes*

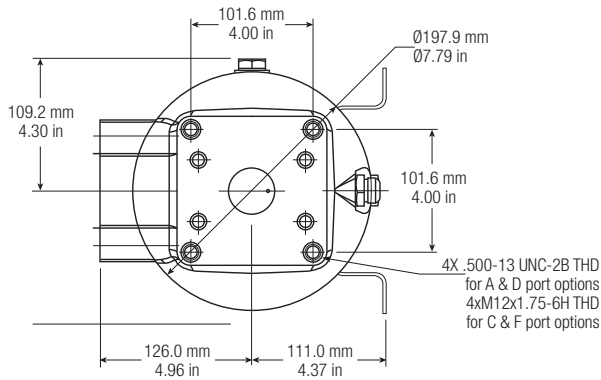
Code	Option
YM	'M' option
YR	'R' option

* Use only if 'R' or 'M' Indicator is selected from Table 1

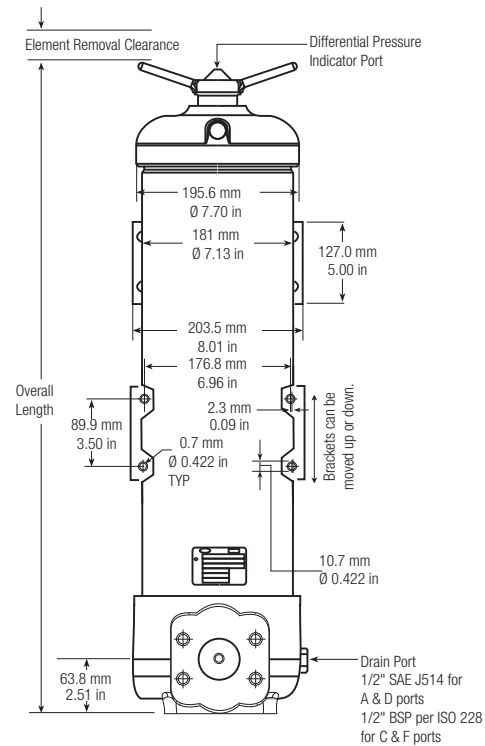
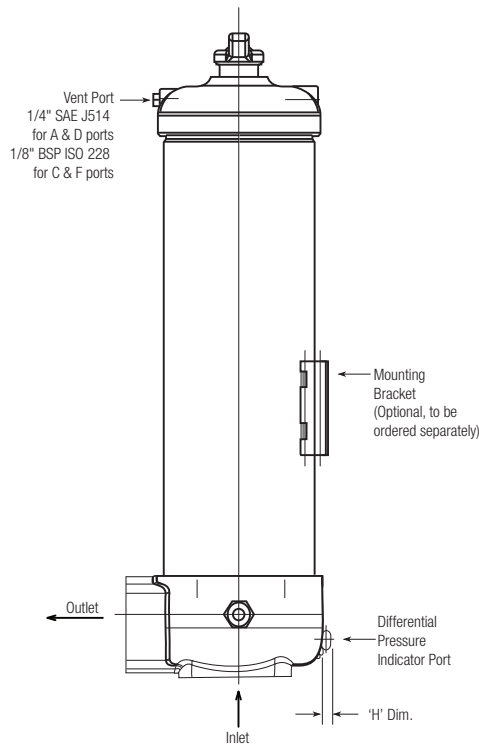
Table 4: 'R' Indicator Options

Code	Option
110AC	110V AC
220AC	220V AC
24DC	24V DC

* Use only if 'R' Indicator is selected from Table 1



Length Code	Overall Length mm (in)	Element Removal Clearance mm (in)	Empty Weight kg (lb)
20	762 (30)	443 (17.5)	26 (58)
40	1270 (50)	951 (37.5)	36 (80)



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