Pall Corporation

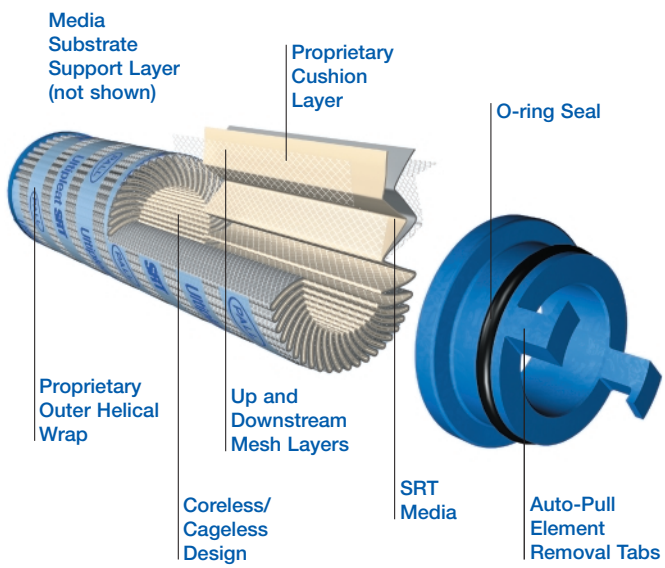
UT319 Series Ultipleat® SRT In-Tank Filter Assemblies

Features

- Ultipleat (laid-over pleat) medium pack design
- Coreless, cageless element configuration
- Pall Stress-Resistant Technology (SRT) Media
- In-to-out flow path
- Flows to 760 L/min (200 US gpm) at 0.4 bar (6 psi) ΔP-housing only
- Pressures to 10 bar (150 psi)
- Port size 1½", 2" and 2½"

Notes and Specifications

Maximum Working Pressure:	10 bar (150 psi)
Temperature Range:	Nitrile seals: -43°C to 120°C (-45°F to 250°F) Fluorocarbon Seals: -29°C to 120°C (-20°F to 250°F) 60°C (140°F) maximum in HWCF or water glycol fluids
Bypass Valve Setting:	1.7 bar (25 psi) 3.4 bar (50 psi)
Filter Element Burst Pressure:	10 bar (150 psi)
Materials of Construction:	Die cast aluminum alloy head, and cover, steel shell. Use YR85 option for cast iron head.
Ultipleat SRT Element Construction:	Inorganic fibers impregnated and bonded with epoxy resins. Polymer endcaps. Anti-static design.

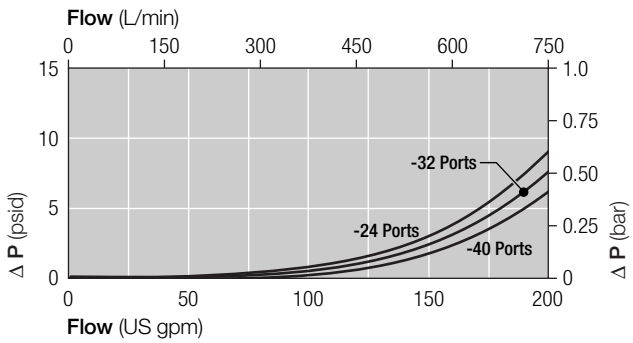


UT319 series Ultipleat SRT filter housing.

Pressure Drop Information

Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



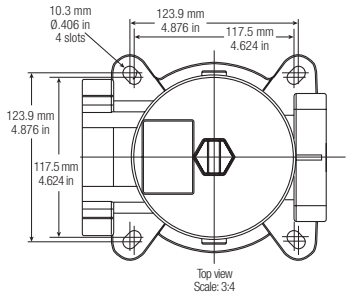
Element Pressure Drop

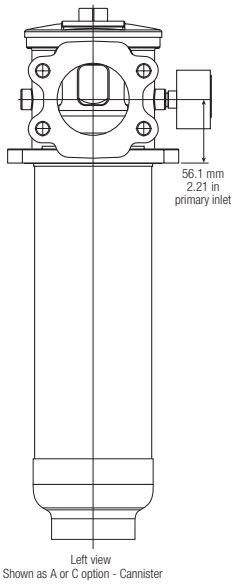
Multiply actual flow rate times factor to determine pressure drop with fluid at 32 cSt (150 SUS), 0.9 S.G. Correct for other fluids by multiplying new viscosity in cSt/32 (SUS/150) x new S.G./0.9. Note: factors are per 1000 L/min and per 1 US gpm.

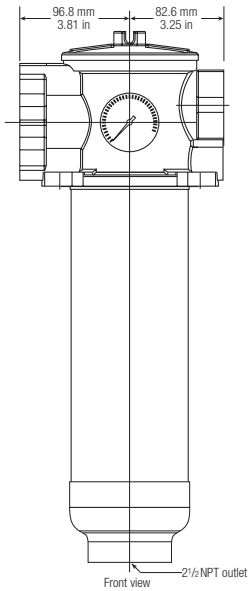
319 Series Filter Elements — bar/1000 L/min (psid/US gpm)

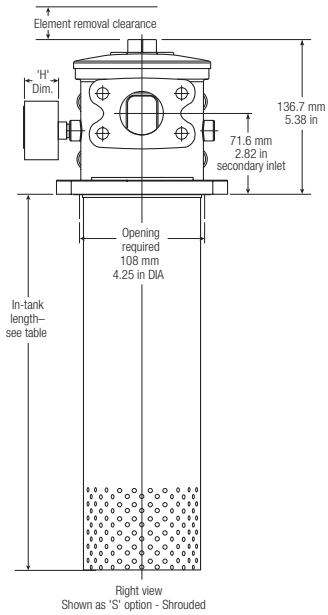
Length Code	AZ	AP	AN	AS	AT
08	5.52 (0.302)	2.30 (0.126)	1.82 (0.100)	1.32 (0.072)	0.82 (0.045)
13	3.31 (0.182)	1.38 (0.076)	1.09 (0.060)	0.79 (0.043)	0.49 (0.027)
20	2.18 (0.120)	0.91 (0.050)	0.72 (0.040)	0.52 (0.029)	0.33 (0.018)
40	1.10 (0.060)	0.46 (0.025)	0.36 (0.020)	0.26 (0.014)	0.16 (0.009)

Dimensional Drawings









Length Code	In-tank Length mm (in) 'C' Option	'S' Option	Element Removal Clearance mm (in)
08	337 (13.25)	295 (11.62)	229 (9)
13	464 (18.25)	422 (16.62)	361 (14.2)
20	641 (25.25)	600 (23.62)	533 (21)
40	1149 (45.25)	1108 (43.62)	1041 (41)

Ordering Information

Assembly P/N: UT 319 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Table 1 Table 2 Table 3 Table 4 Table 5 Table 6 Table 7 Table 8 Table 9

Element P/N: UE 319 ☐ ☐ ☐
Table 2 Table 3 Table 4

Seal Kit P/N: UT 319 SK ☐
Table 4

Table 1: 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
A40	2½" SAE J514 straight thread
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
C40	2½" BSP ISO 228 threads
F40	2½" ISO 6162 split flange with M12 x 1.75 holding bolts

Table 2: Filter Element Options

Code	$B_{x(c)} \geq 1000$	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

** From Cyclic Stabilization Test*

Table 3: Length Options

Code	Length (in)*
08	8
13	13
20	20
40	40

** Nominal length*

Table 4: Seal Options

Code	Seals
H	Nitrile
Z	Fluorocarbon

Table 5: Bypass Valve Options

Code	Valve
A	1.7 bar (25 psid)
B	3.4 bar (50 psid)
4	1.7 bar (25 psid) with cannister, no ABFV
5	3.4 bar (50 psid) with cannister, no ABFV
8	1.7 bar (25 psid) with cannister & ABFV
9	3.4 bar (50 psid) with cannister & ABFV

Table 6: Secondary Port Options

Code	Port
N	No secondary port
S	1½" (same style as primary port)

Table 7: Gauge Port Options* *(must choose 2)*

Code	Port	'H' Dim.
B	Plugged ⅛" NPT gauge port	3mm (0.1in)
G	Pressure Gauge 0-10 bar (150 psi)	32mm (1.3in)
6	Electrical absolute pressure switch 24VDC	54mm (2.1in)
7	Electrical absolute pressure switch 220VAC	55mm (2.2in)
NN	Ports not machined	–

** Housing has option for two ⅛" indicator ports. Part number must include two digits in alphanumeric order. Example: G7 for 2 machined ports (gauge and electrical switch) BG for 2 machined ports (port plug and gauge)*

Table 8: Additional Differential Pressure Indicator Options

Code	Indicator Option
M	For indicator port + "M" option electrical indicator
L	For indicator port + "L" option electrical indicator
P	For indicator port + "P" option visual indicator
T	For indicator port + "T" option electrical indicator

Other options available on application.

Table 9: Head Material

Code	Material
OMIT	Cast aluminium alloy (standard)
YR85	Cast iron

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