

## UT319 Series Ultipleat® SRT In-Tank Filters

### Features

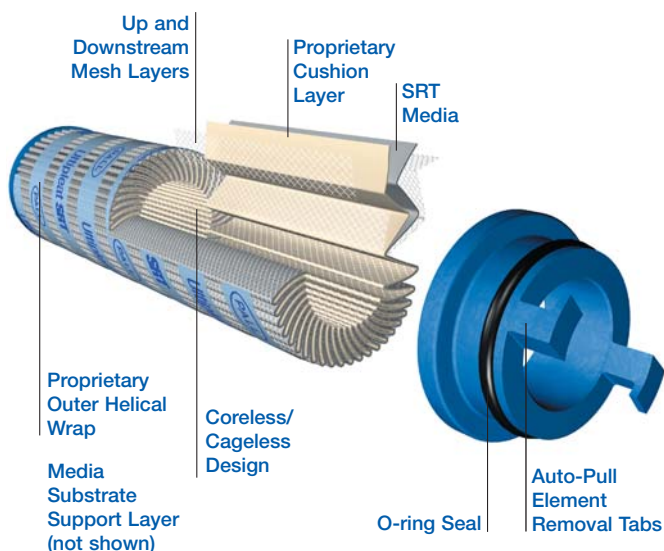
- Patented Ultipleat (laid-over pleat) filter medium pack
- Coreless, cageless element configuration
- Pall Stress-Resistant Technology (SRT) Media
- In-to-out filter element flow path
- Flows to 760 L/min (200 US gpm)
- Pressures to 10 bar (150 psi)
- Port size 1½", 2" and 2½"

### Notes and Specifications

Maximum Working Pressure: 10 bar (150 psi)  
 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

Filter Element Burst Pressure: 10 bard (150 psid)  
 Materials of Construction: Die cast aluminum alloy head, and cover, steel shell.  
 Use YR85 option for cast iron head and cover.

Ultipleat SRT  
 Element Construction: Inorganic fibers impregnated and bonded with epoxy resins. Polymer endcaps. Anti-static media design.

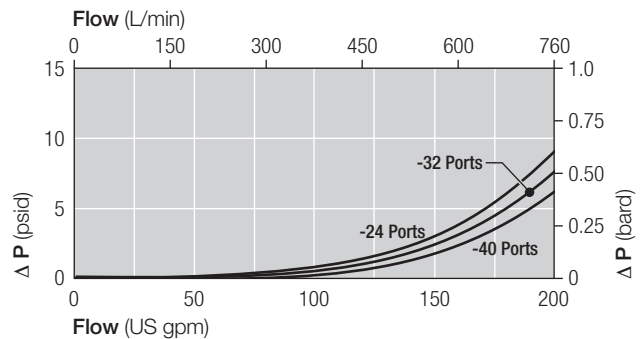


UT319 series Ultipleat SRT filter housing.

### Pressure Drop Information

#### Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



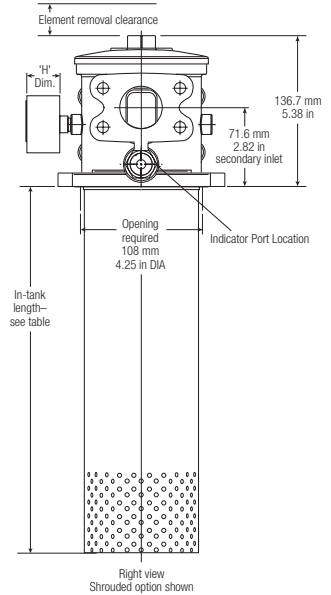
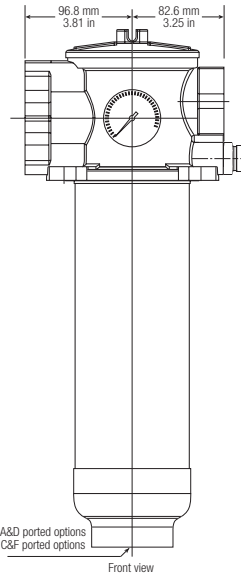
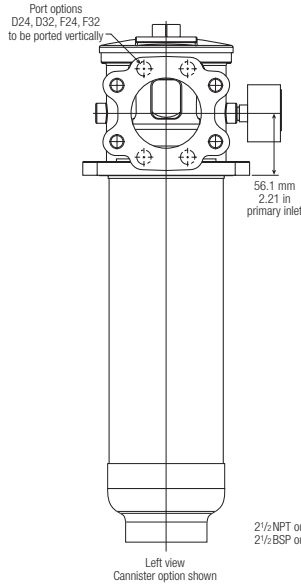
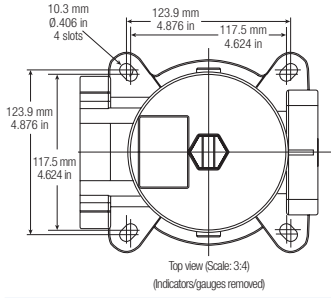
### Element Pressure Drop

Multiply actual flow rate times factor 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.

#### 319 Series Filter Elements — bard/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)		Element Removal Clearance mm (in)
	'C' Option	'S' Option	
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

Housing P/N: **UT 319**  ++  Z  BB  B

Table 1 Table 3 Table 4 Table 5 Table 6

Element P/N: **UE 319**  Z

Table 2 Table 3

**Note:** Z indicates fluorocarbon seals are standard. Other options are available; contact Pall. 'BBB' at the end of the Housing P/N designates 2 gauge ports, and one indicator port, all fitted with blanking plugs.

**Table 1: Port Options**

Code	Port
A24	1 1/2" SAE J514 straight thread
D24	1 1/2" Flange J518C code 61 with 1/2"-13 UNC holding bolts
A32	2" SAE J514 straight thread
D32	2" Flange J518C code 61 with 1/2"-13 UNC holding bolts
A40	2 1/2" SAE J514 straight thread
D40	2 1/2" Flange J518C code 61 with 1/2"-13 UNC holding bolts
C24	1 1/2" BSP ISO 228 threads
F24	1 1/2" 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

**Table 2: 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

**Table 3: Length Options**

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

\* Nominal length

**Table 4: Bypass Valve Options**

Code	Valve
A	1.7 bard (25 psid) with shroud
G	4.5 bard (65 psid) with shroud
3	4.5 bard (65 psid) with cannister, no ABFV
7	4.5 bard (65 psid) with cannister & ABFV

Gauge/Switch P/N: See Table 7

Differential Pressure Indicator P/N: **RC**   Z

Table 8 Table 9 Table 10

Seal Kit P/N: **UT 319 SKZ**

\*Other seal material options are available; Contact Pall.

**Table 5: Secondary Port Options**

Code	Port
N	No secondary port
S	1 1/4" port (same style as primary port)

**Table 6: Head Material**

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

**Table 7: Gauge / Switch Options**

Part No	Rating	Indicator	'H' Dim
1373772	-	'B' option 1/8" blanking plug	3mm (0.1in)
9004D370-11	0-10 bar (150 psi)	'A' type Pressure Gauge	32mm (1.3in)
9004D370-34	0-10 bar (150 psi)	'G' type Pressure Gauge	32mm (1.3in)
HC0379-11	1.1 bar (16 psi)	Electrical absolute pressure switch 24VDC	54mm (2.1in)
HCA132-35	3.5 bar (50 psi)		
HC0618-11	1.1 bar (16 psi)	Electrical absolute pressure switch	83mm (3.25in)
HC0618-35	3.5 bar (50 psi)	220VAC with Hirschmann connector	
HC0380-11	1.1 bar (16 psi)	Electrical absolute pressure switch	55mm (2.2in)
HC0380-35	3.5 bar (50 psi)	220VAC with 3 (15") flying leads	

Note: Use 1.1 bar rating for A valve options  
Use 3.5 bar rating for G, 3 and 7 valve options

**Table 8: 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" lead	38mm (1.50in)
861CZ	'M' type Electrical switch (SPDT) with DIN43650 connector and matching cap	78mm (3.07in)

\* Other options available on application.

**Table 9: Indicator Pressure Setting Options\***

Code	Pressure Setting
084	For 'A' Valve Option Housings (1.1 bard - 16 psid)
091	For 'G', '3' and '7' Valve Option Housings (3.5 bard - 50 psid)

\* Other setting options are available; contact Pall.

**Table 10: 'M' Type Indicator Code\***

Code	Option
YM	'M' option

\* Use only if 'M' Indicator is selected from Table 8



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