



LENNTECH

info@lennotech.com

www.lennotech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89

UR629

UR629 Series Filters

ULTIPLEAT® SRT RETURN LINE FILTERS

Port Size 3" and 4"



UR629

RETURN LINE FILTERS

UR629 Series Filters

Technical Information

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 1500 L/min (400 US gpm)
- Pressures to 28 bar (400 psi)
- Port size 3" and 4"

Notes and Specifications

Filter Housing

- **Maximum Working Pressure:**
28 bar (400 psi)
- **Rated Fatigue Pressure:**
23 bar (330 psi)
10⁶ cycles per NFPA T2.06.01R2-2001
- **Typical Burst Pressure:**
145 bar (2100 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
Contact sales for other fluid group suitability
- **Materials of Construction:**
Head, tube, manifold and check valve: Aluminum alloy
Cover: Ductile Iron

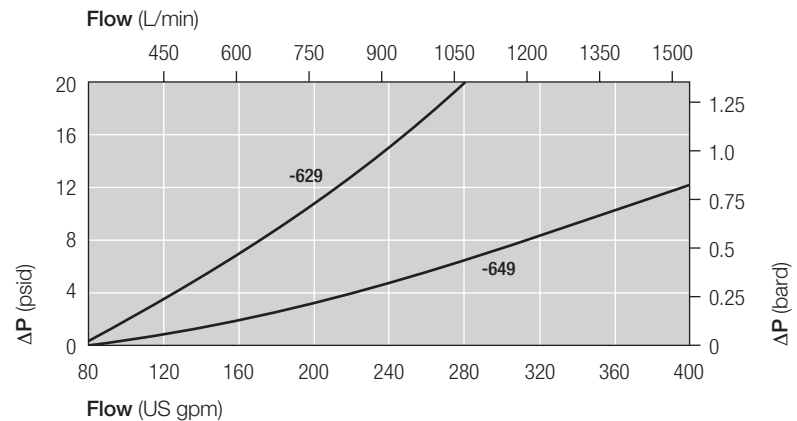
Filter Element

- **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

UR629 Series 20" length housing with F48 (3" SAE) 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 ΔP

$$\begin{aligned} &= \Delta P_{\text{housing}} + \Delta P_{\text{element}} \\ &= (0.48 \times 1.2/0.9) \text{ barg (housing)} \\ &\quad + ((600 \times 0.43/1000) \times 50/32 \times 1.2/0.9) \text{ barg (element)} \\ &= 0.64 \text{ barg (housing)} + 0.54 \text{ barg (element)} \\ &= \mathbf{1.18 \text{ barg (17.1 psid)}} \end{aligned}$$

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.

UR629 Series Filters

Ordering Information

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

Section 1

Housing P/N:

Note: Pall Ultipleat 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.

Seal Kit P/N:

Table 1: Number of Housing Options

Code	Port
2	2 housings (1 per side)
4	4 housings (2 per side)
6	6 housings (3 per side)
8	8 housings (4 per side)

Table 2: Housing Port Options

Code	Port
D48	3" Flange J518C code 61 with 5/8"-11 UNC holding bolts
D64	4" Flange J518C code 61 with 5/8"-11 UNC holding bolts
F48	3" ISO 6162 split flange with M16 x 2.00 holding bolts
F64	4" ISO 6162 split flange with M16 x 2.00 holding bolts

UR 6

--

 9 C

--

 ++

--

 Z

--

 9

Table 1 Table 2 Table 3 Table 4

Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall.
The number '9' at the end of the Housing P/N designates 2 indicator ports per filter tower, one fitted with a plastic shipping plug and the other with a blanking plug.

UR 619 SK Z

*Other seal material options are available; Contact Pall.

Table 3: Housing Length Options

Code	Length (in)*
20	20
40	40

* Nominal length

Table 4: 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 for each filter tower)

Differential Pressure Indicator P/N:

Note: Two Differential Pressure Indicators can be fitted on each filter tower

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 indicator options are available; contact Pall.

RC

--

--

 Z

--

--

Table 1 Table 2 Table 3 Table 4

Note: A differential pressure indicator or a 'B' Type blanking plug (P/N HA9000-P8-Kit Z) must be ordered separately for each filter tower on the housing and fitted to replace the plastic shipping plug. For typical installations, only 2 indicators are required - only one housing per side requires an indicator. Replace other shipping plugs with blanking plugs.

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

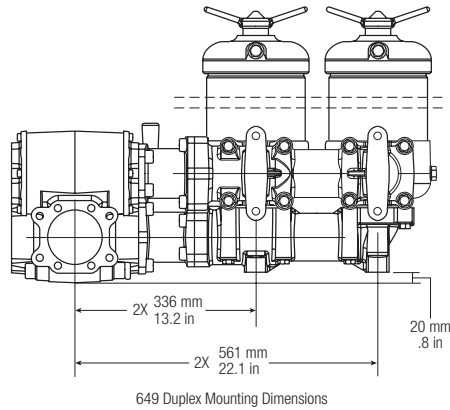
* Use only if 'R'Indicator is selected from Table 1

UR629

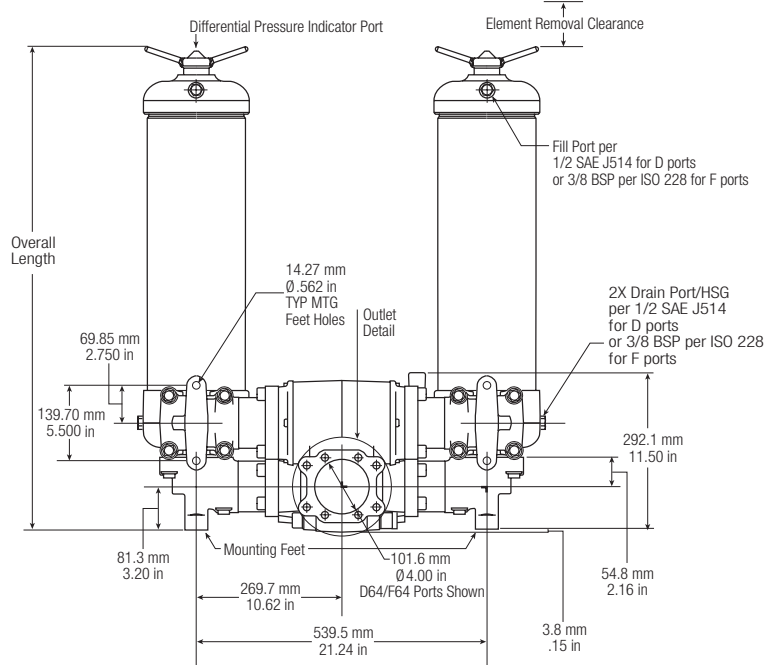
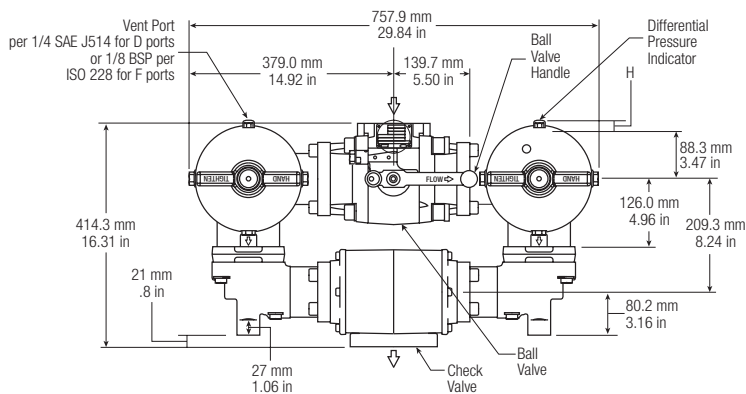
UR629 Series Filters

RETURN LINE FILTERS

Technical Information



Length Code	Overall Length mm (in)	Element Removal Clearance mm (in)	Empty Weight kg (lb)
20	897.1 (35.32)	442.7 (17.43)	88.9 (196)
40	1405.1 (55.32)	950.7 (37.43)	112.5 (248)



LENNTECH

info@lenntech.com

www.lenntech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89

Pall Corporation has offices and plants throughout the world in locations including: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, France, Germany, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, Mexico, the Netherlands, New Zealand, Norway, Poland, Puerto Rico, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Arab Emirates, United Kingdom, United States, and Venezuela. Distributors are located in all major industrial areas of the world.

Because of developments in technology these data or procedures may be subject to change. Consequently we advise users to review their continuing validity annually. Part numbers quoted above are protected by the Copyright of Pall Europe Limited.

PALL, Pall and Ultiplet are trade marks of Pall Corporation.
Filtration. Separation. Solution is a service mark of Pall Corporation.
® indicates a trademark registered in the USA.
© Copyright 2008, Pall Corporation.