



Pall Corporation

9000

9050/9051 Series Filter Assembly

H I G H P R E S S U R E F I L T E R S

Pressure 1000 bar max • Port Size 3/8", 1/2" and 3/4"



9050/9051 Series Filter Assembly Technical Information

Notes and Specifications

Maximum working pressure: 700 bar
YA15 option: 1000 bar

Proof pressure: 1050 bar
YA15 option: 1500 bar

Burst pressure: 3150 bar typical
YA15 option: 4000 bar typical

Temperature range:
Nitrile Seals: -43°C to +120°C
Fluorocarbon Seals: -29°C to +120°C
50°C max in HWCF or water glycol fluids.

Bypass valve setting: 9050 series only
3.4 ± 0.3 bar
ΔP switch indicator setting: 2.4 ± 0.3 bar
Bypass valve setting: 9051 series only
None
ΔP switch indicator setting: 6.9 ± 1.0 bar
(See PME DELTAP for full indicator details)

Materials: Stainless steel 316S12 head, bowl and valve.
YA15 - Duplex stainless steel to ATSM A789/SEW400

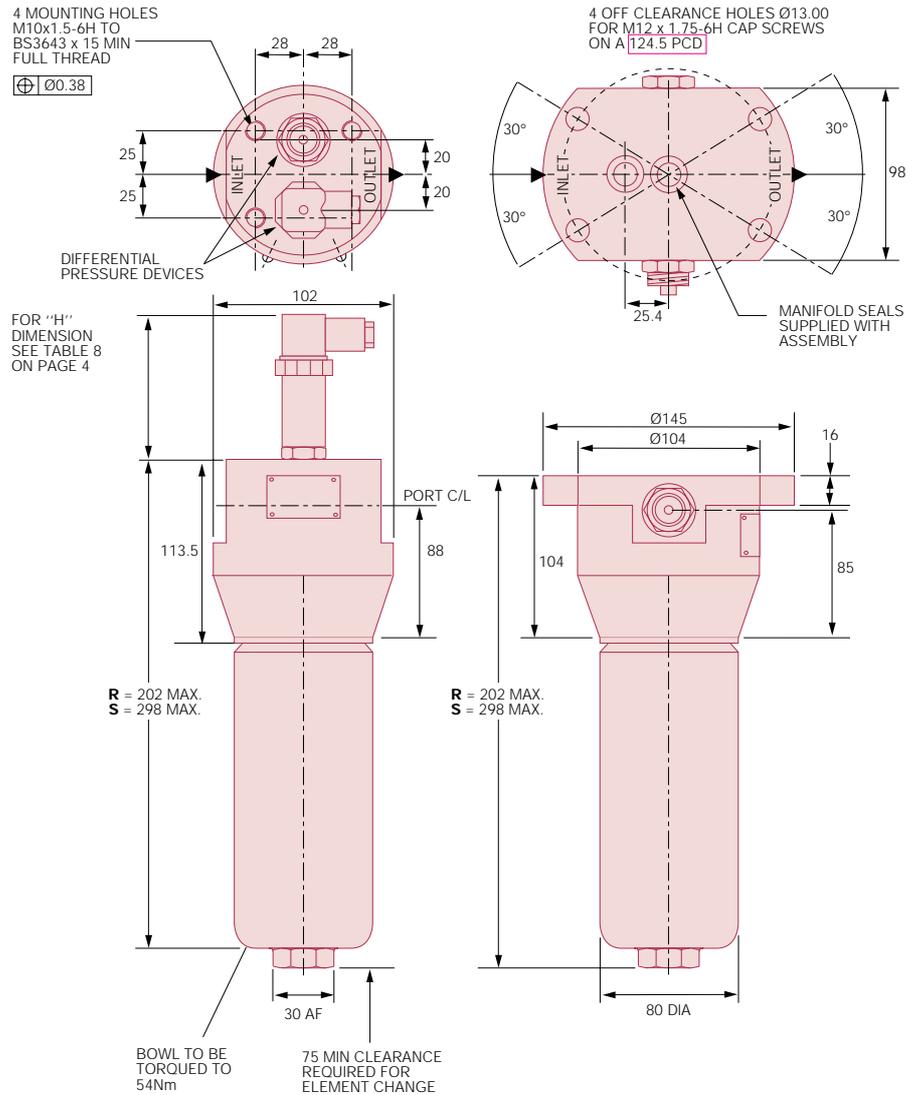
Disposable filter medium:
Element collapse pressure rating per ISO 2941:

Ultipor III

9050 series only
20 bar minimum with bypass valve
Note: For water containing fluids 10 bar minimum. If operating above 50°C, contact Pall Sales office.
9051 series only
210 bar minimum without bypass valve

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 Pall Sales for other fluid/gas group suitability.

All dimensions in mm unless otherwise stated.



Multipass Filtration Ratings per ISO 16889

'Pall' Media Grade		Micrometre Size for $\beta_{x(c)}$ Values*						Terminal ΔP Bar
		$\beta_{x(c)=2}$	$\beta_{x(c)=10}$	$\beta_{x(c)=75}$	$\beta_{x(c)=100}$	$\beta_{x(c)=200}$	$\beta_{x(c)=1000}$	
9020	KZ	<2	<2	<2	<2	2	2.5	4
	KP	<2	<2	3.1	3.3	3.8	5	4
	KN	2.1	3.4	5.0	5.2	5.7	7	4
	KS	3.2	5.5	8.3	8.7	9.7	12	4
	KT	7.2	11	15.8	16.5	18.2	22	4
9021	DP	<2	<2	3.0	3.2	3.8	5	16
	DT	3.3	6.3	10.1	10.7	12	15	16

* Beta ratios are designated using the symbol (c) to signify they were measured using the ISO 16889 procedure.

9050/9051 Series Filter Assembly Features and Benefits

Bypass valve

Full flow low inertia bypass valve mounted in the filter head between inlet and outlet port.

- Operation is independent of clogging indicator.
- Instant response to limit ΔP across element during cold starts and flow surges.
- Fluid flow clear of the element when in bypass mode.

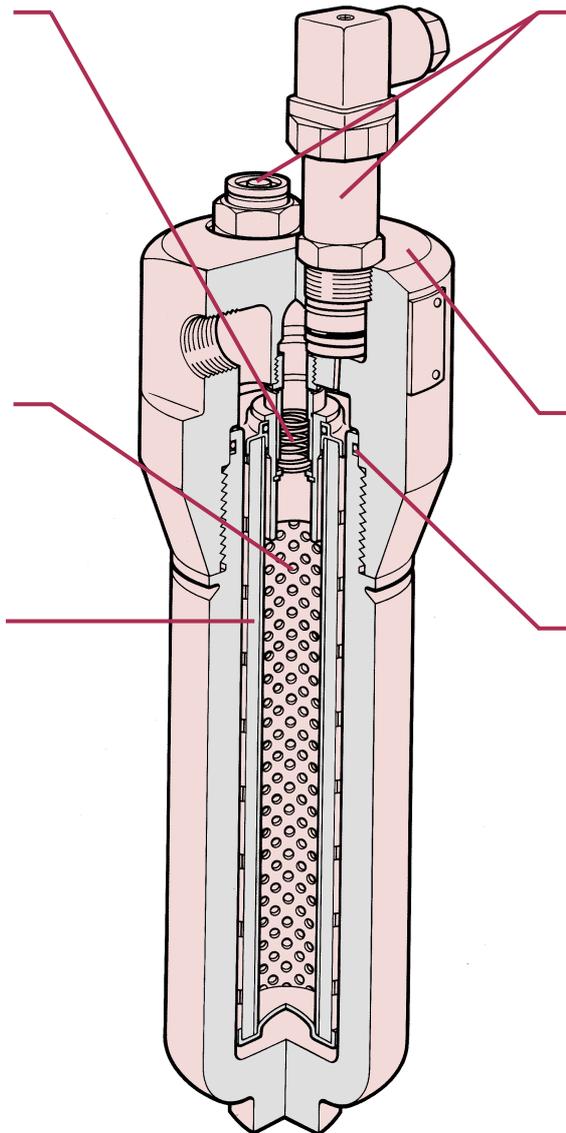
Fully supported element construction for out-to-in flow

- High collapse strength and filtration integrity.
- Uniform diffused flow.

Ultipor III elements

Ultipor III filter media

- Unique composite structure.
- Graded pore construction.
- Inert, inorganic fibres with corrosion protected steel endcap and core.
- Removal ratings:- 2.5, 5, 7, 12 and 22 micrometres where $\beta_{x(c)} \geq 1000$ to ISO 16889.



Optional visual and electrical differential pressure indicating devices

Accurate and reliable indication of the need for element service.

Sampling port

Sampling via the differential pressure indicator port for sampling without breaking lines.

Mounting

Variety of head mountings for installation versatility. Pipe mounting, or top manifold options available.

Positive sealing

Unique positive sealing interface using standard 'O' rings.



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