RF Series

In-tank / Inline Filters 360 psi • up to 400 gpm

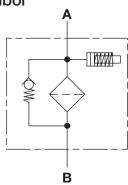


Features

- RF 30 filters are constructed of polyamide plastic.
- RF 60 330 filters are constructed of aluminum material.
 Aluminum alloy is water tolerant anodization is not required for high water based fluids (HWBF).
- RF 660 1300 filters are constructed of ductile iron.
- Non-welded housing design reduces stress concentrations and prevents fatigue failure.
- Inlet/outlet port options include NPT, SAE straight thread O-ring boss, and SAE 4-bolt flange to allow easy installation without costly adapters.
- O-ring seals are used to provide positive, reliable sealing. Choice
 of O-ring materials (nitrile rubber, fluorocarbon elastomer,
 ethylene propylene rubber) provides compatibility with petroleum
 oils, synthetic fluids, water-glycols, oil/water emulsions, and high
 water base fluids.
- Bolt-on lid requires minimal clearance for removal.
- Reusable contamination basket prevents loss of retained contaminants into the reservoir during element replacement.
- Single piece casting provides rigidity for inline or in-tank mounting.

Note: This filter is configured with an R type (return/low pressure) element, so if the filter requires a bypass, the bypass is located in the closed end cap of the cartridge element.

Hydraulic Symbol



Technical Specifications

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Mounting Method	4 Mounting holes - filter housing			
Port Connections	Inlet / Outlet			
30 60/110 160/240	1/2" Threaded / 0.71" Dia Smooth SAE-12 / SAE-12; 3/4" NPT / SAE-12 SAE-20 / SAE-20; 1 1/4" NPT (with adapter) / SAE-20			
330	SAE-20 / 2" NPT (with flange port adapter) 2" Threaded (NPT/BSPP/SAE) / same as inlet			
660	2" SAE Flange, Code 61 / 2" NPT 3" SAE Flange, Code 61 / 3" NPT 3" SAE Flange, Code 61 / 3" SAE Flange, Code 61			
950	3-1/2" SAE Flange, Code 61 3-1/2" SAE Flange, Code 61 3-1/2" SAE Flange, Code 61			
1300	4" SAE Flange, Code 61 / 4" SAE Flange, Code 61			
Direction of Flow	Inlet: Side	Outlet: bottom		
Materials of Construction				
	Housing	Lid		
30	Polyamide	Polyamide		
60-330 660-1300	Aluminum Ductile Iron	Aluminum Ductile Iron		
Flow Capacity				
30 60 110 160 240 330 660 950	8 gpm (30 lpm) 16 gpm (60 lpm) 29 gpm (110 lpm) 42 gpm (160 lpm) 63 gpm (240 lpm) 87 gpm (330 lpm) 174 gpm (660 lpm) 251 gpm (950 lpm)			
1300 Housing Pressure R	343 gpm (1300 lpm)			
Max. Allowable	ating			
Working Pressure*	360 psi (25 bar);	360 psi (25 bar); (size 30 - 145 psi, 10 bar)		

Housing Pressure Rating				
Max. Allowable Working Pressure* Fatigue Pressure	360 psi (25 bar); <i>(size 30 - 145 psi, 10 bar)</i> 478 psi (33 bar) @ 700,000 cycles;			
Burst Pressure	30 60/110 160/240 330 660-1300	580 psi (40 bar) 1080 psi (75 bar) 1230 psi (85 bar) 1440 psi (100 bar) 3045 psi (210 bar)		

Element Collapse Pressure Rating

ON, W/HC, 290 psid (20 bar) ECON2, BN4AM, P/HC, AM 145 psid (10 bar) V 435 psid (30 bar)

Fluid Temp. Range 14°F to 212°F (-10°C to 100°C)

Consult HYDAC for applications below 14°F (-10°C)

Fluid Compatibility

Compatible with all hydrocarbon based, synthetic, water glycol, oil/water emulsion, and high water based fluids when the appropriate seals are selected.

Indicator Trip Pressure

P = 29 psi (2 bar) -10% (standard) P = 72 psi (5 bar) -10% (optional)

Bypass Valve Cracking Pressure

 $\Delta P = 43$ psid (3 bar) +10% (standard) $\Delta P = 87$ psid (6 bar) +10% (optional)

*Note: All RF Filters MAWP reduce to 7 bar (101.5 psi) when using the following "VMF" and "VR" indicators: B, BM, E, ES, GC, LE, LZ.

Model Code

