



Donaldson.
FILTRATION SOLUTIONS

FISB

In-Tank Return Line Filter Assemblies

Donaldson FISB in-tank filter assemblies are ideal for mobile and industrial power unit hydraulic applications where the breather integrated into the filter head can save space to yield a compact solution.

Max Operating Pressure: 150 psi (10.3 bar)



Cleanliness beyond the industry standard.

High performance media filter elements deliver lower operating ISO Codes with high efficiency particulate removal and retention efficiency. With integral element bypasses and a range of media options, you get the perfect element for your application, every time.

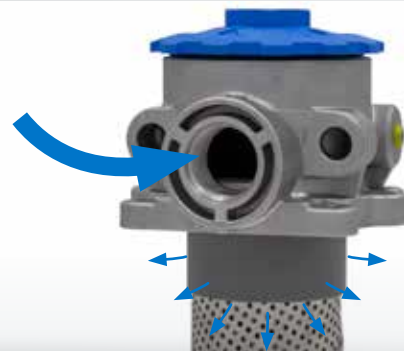


Clean and easy servicing access.

The top-loading FISB housing provides easy and clean access during element service — no slippery spin-ons to handle. A threaded cover allows for quick element changes with no special tools required.

Reduced contamination risk with inside-to-out flow.

The FISB housing utilizes an inside-to-out element flow, meaning all the dirt captured by the element stays in the element during service. Contaminants aren't released back into the system like in traditional outside-to-in element designs that re-contaminate hydraulic tanks during filter changes.



Loaded with features for convenient use.

Packed with features such as an easy-to-service composite threaded cover, integral BT T.R.A.P.™ breather, industry-standard 2-bolt and 4-bolt mounting patterns, integral element hold-down/removal handle (no spring), and integral bypass (new bypass with every element change). Optional auxiliary inlet ports are available.

Helps prevent aeration.

Smaller reservoirs, high return flow and high velocity through outside-to-in flow elements add up to tank turbulence and reservoir aeration with poor air release. The FISB assemblies help prevent aeration by diffusing return flow and creating laminar conditions inside the hydraulic tank.



Easy incorporation of breather.

Adding a breather to the FISB assembly is easy because the breather can be incorporated directly into the filter housing. Utilizing exclusive T.R.A.P. technology, the breather removes both airborne moisture as well as 97% of particulate 3 micron and larger. Servicing the breather is tool-free and can be done in just seconds.

LOW PRESSURE FILTRATION

FISB



In-Tank Assembly

Max Flow: 70 gpm (265 lpm)

Max Pressure: 150 psi (1034 kPa) / 10.3 bar

- Common 2-bolt and 4-bolt mounting options
- Integrated breather with anti-splash design
- Reverse flow element prevents fluid aeration and allows for a smaller reservoir
- Raised bypass valve design keeps the dirt in the filter during servicing
- Easy servicing with common hand tools
- Optional auxiliary ports
- Visual and electrical indicator options

Part Number

P583634

P583554

X220872

Port Connection

1" SAE thread

1-1/4" SAE thread

Weld Flange

FILTER CHOICES

Donaldson Part Number	$\beta_{x(c)} = 1000$ per ISO 16889	Media Type	Filter Length	Bypass Rating (psid)
P583635	<4μm	DT Synthetic	8" (20 cm)	25
P583636	5μm			
P583637	8μm			
P583638	12μm			
P583639	23μm			
P583641	5μm	DT Synthetic	10" (25 cm)	
P583642	8μm			
P583643	12μm			
P583644	23μm			
P583646	5μm	DT Synthetic	13" (33 cm)	
P583647	8μm			
P583648	12μm			
P583649	23μm			
P583651	5μm	DT Synthetic	19" (48 cm)	
P583555	8μm			
P583652	12μm			
P583653	23μm			
P583655	5μm	DT Synthetic	8" (20 cm)	50
P583656	8μm			
P583657	12μm			
P583658	23μm			
P583660	5μm	DT Synthetic	10" (25 cm)	
P583661	8μm			
P583662	12μm			
P583663	23μm			
P583665	5μm	DT Synthetic	13" (33 cm)	
P583666	8μm			
P583667	12μm			
P583668	23μm			
P583670	5μm	DT Synthetic	19" (48 cm)	
P583671	8μm			
P583672	12μm			
P583673	23μm			

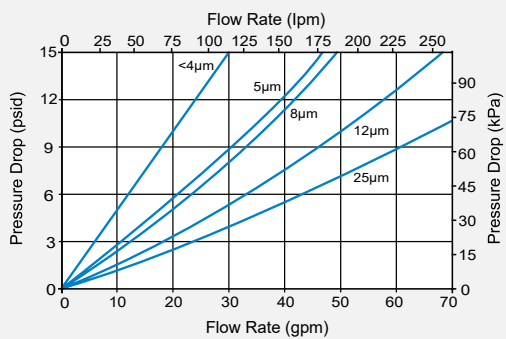
LOW PRESSURE FILTRATION

HEAD CHOICES

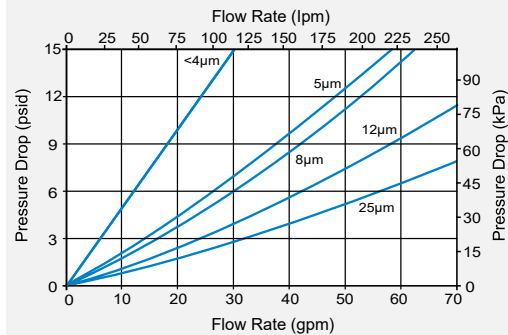
Donaldson Part Number	Connection	Breather	Indicator	Seals
P583554	SAE-20, O-ring	Plug	None	Flouorocarbon
P583634	SAE-16, O-ring	Plug	None	Flouorocarbon

PERFORMANCE DATA

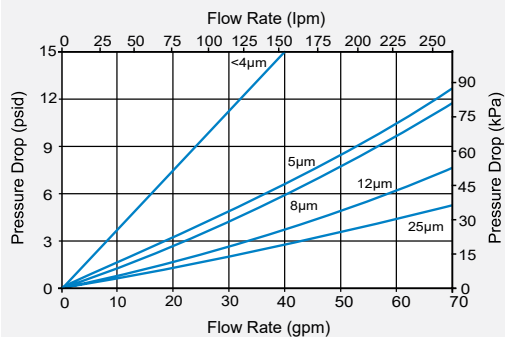
FISB 8" Filter & Housing Assembly



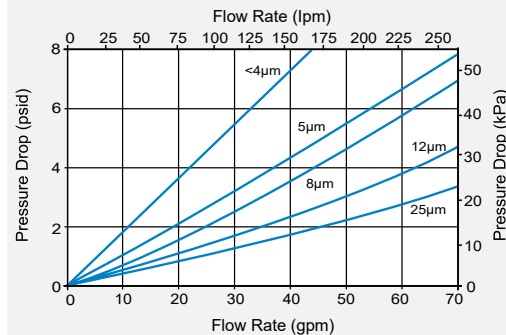
FISB 10" Filter & Housing Assembly



FISB 13" Filter & Housing Assembly



FISB 19" Filter & Housing Assembly

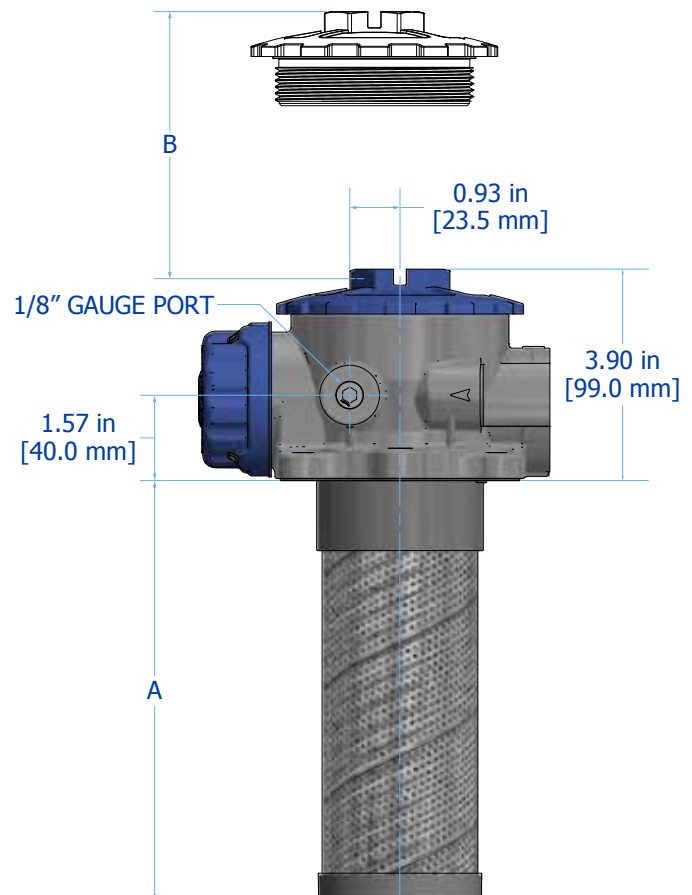
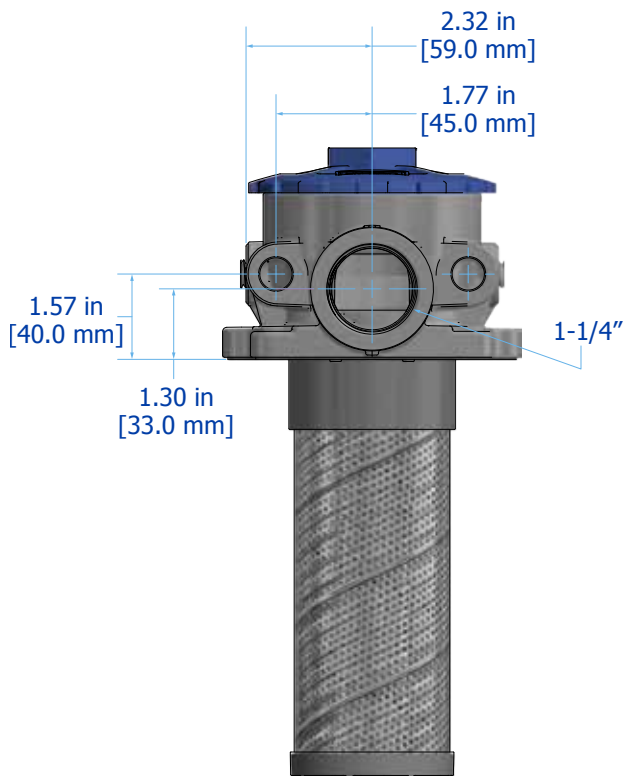
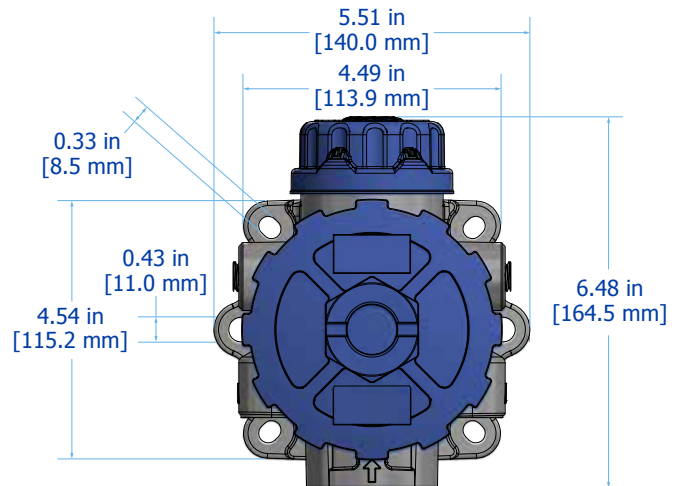
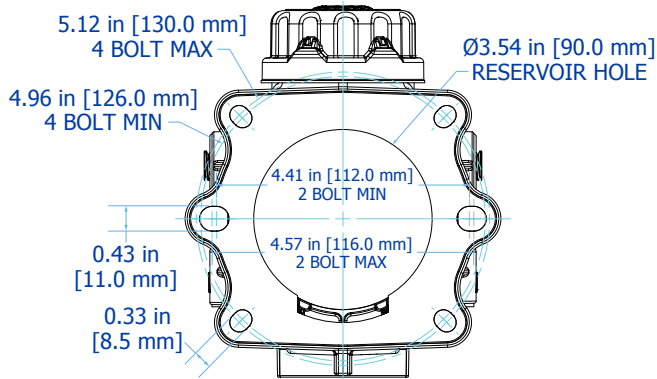


LOW PRESSURE FILTRATION

FISB INSTALLATION DRAWINGS

Dimension Table

Length	L8	L10	L13	L19
A	7.75 in 152.4 mm	9.67 in 245.6 mm	12.88 in 327.1 mm	19.3 in 490.2 mm
B	11.5 in 292.1 mm	13.42 in 340.9 mm	16.63 in 422.4 mm	23.05 in 585.5 mm



LOW PRESSURE FILTRATION

T.R.A.P.™ BREATHERS

STYLE B ASSEMBLY OPTIONS with 4 Hole Mounting Configurations Only

	Donaldson Part Number	Description	Efficiency	Fits Assembly Models:	Notes
	P766528	Black Standard plug (no air exchange)	N/A	FIS-B	 T.R.A.P.™ THERMALLY REACTIVE ADVANCED PROTECTION 
	P766530	Blue Atmospheric pressure	10 µm @ 98%	FIS-B	

FISB SPECIFICATIONS

Operating Temperature

-20°F to 250°F
(-29°C to 121°C)

Operating Pressure

150 psi (10.3 bar) maximum

Pressure Switch Trigger

18 psi (1.2 bar) or 35 psi (2.4 bar)

Visual Gauge

0-100 psi, no color code
15 psi, green to red
25 psi, green to red

Element Burst Rating

100 psid (6.9 bard)

Integral Bypass Setting

25 psid (1.7 bard) or 50 psid (3.2 bard)

Materials of Construction

Head
Cast aluminum

Cover and Breather
Nylon glass-filled

Element Bypass Valve
Plated steel

LOW PRESSURE FILTRATION

ACCESSORIES

Description	Part Number	Indicator Pressure	Connection
Electrical Indicator	X011066	35 psi	Brad Harrison
Electrical Indicator	X011065	18 psi	Brad Harrison
Electrical Indicator	X011064	35 psi	Hirschman
Electrical Indicator	X011061	18 psi	Hirschman
Pressure Indicator	X011059	25 psi	Dial Gauge
Pressure Indicator	X011075	50 psi	Dial Gauge
Pressure Gauge	P579716	0-100 psi	Color Dial Gauge 25 psid
Pressure Gauge	P579714	0-100 psi	Dial Gauge
Breather (10 µm at 98%)	P766530		
Plug (no air exchange)	P766528		

Description	Part Number	Indicator Pressure	Connection
Electrical Indicator	X011066	35 psi	Brad Harrison
Electrical Indicator	X011065	18 psi	Brad Harrison
Electrical Indicator	X011064	35 psi	Hirschman
Electrical Indicator	X011061	18 psi	Hirschman
Pressure Indicator	X011059	25 psi	Dial Gauge
Pressure Indicator	X011075	50 psi	Dial Gauge
Pressure Gauge	P579716	0-100 psi	Color Dial Gauge 25 psid
Pressure Gauge	P579714	0-100 psi	Dial Gauge
Breather (10 µm at 98%)	P766530		
Plug (no air exchange)	P766528		

MORE THAN JUST FILTRATION

Upgrade to a Lower Total Cost of Ownership

Upgrading to Donaldson filter elements is a good first step in improving oil cleanliness. Keeping fluids clean can increase the efficiency and reliability of your equipment while reducing repairs, downtime, and total overall cost of ownership.

Delivery in Days, Not Weeks

Donaldson's flexible manufacturing process and large inventory of ready-to-ship filter elements help ensure a quick response time, so you get the right filter when you need it most.

Quality Products Backed by an Industry Leader

High-quality Donaldson filter elements are backed by the unrivaled knowledge and support of a company with over 100 years of filtration experience.



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India 91-124-4807-400
Japan 81-42-540-4112
Korea 82-2-517-3333
Mexico, Latin America & Caribbean 52-449-300-2400

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South Africa 27-11-997-6000
Southeast Asia 65-6311-7373

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