



W440

Max Flow: 20 gpm (76 lpm)



W440 In-Line Cartridge Filters

Working Pressures to: 4000 psi
27,600 kPa
276 bar

Rated Static Burst to: 10,000 psi
69,000 kPa
690 bar

Flow Range To: 20 gpm
76 lpm



Applications

- High Pressure Circuits
- In-Plant Systems
- Meets HF2 Specification
- Mobile Equipment

Features

The W440 filter assembly can be manifold mounted to the hydraulic system. The size and material configuration are well-suited for today's demanding proportional and servo valve applications. Our standard housing drain plug helps relieve system pressure during filter change-outs. DT 4-layer media is offered in a variety of designs. Five different media grades are offered. Donaldson filters core collapse options range from 150 to 3,000 psi. The differential pressure indicator line is designed to work with a wide assortment of bypass valves. Thermal lockout and surge control are two key features incorporated in many of the differential pressure indicators.

- Conforms to HF2 specifications
- High collapse filter available for use with non-bypass applications
- Positive sealing poppet bypass for reliability and zero leakage
- Wide range of indicator options
- Compact design for use with servo or proportional valve
- Two housing length options for design flexibility
- Head material: cast iron
- Housing material: steel
- Drain plug in housing

Beta Rating

- Performance to $\beta_{<4(c)} = 1000$

Porting Size Options

- SAE-12 O-ring
- Manifold mounting

Replacement Filter Lengths

- 4.41" / 111.9mm
- 4.46" / 113.2mm
- 8.16" / 207.2mm
- 8.28" / 210.3mm

Top-ported for subplate mounting

- 0.69" (17.5 mm) holes
- 1.25" (31.8 mm) centers

Standard Bypass Ratings

- 50 psi / 345 kPa / 3.5 bar
- 90 psi / 621 kPa / 6.2 bar
- No Bypass

Assembly Weight

- 4.41": 8.4 lbs / 3.8 kg
- 8.28": 10.6 lbs / 4.8 kg

Operating Temperatures

- -20° to 250°F (-29° to 121°C)

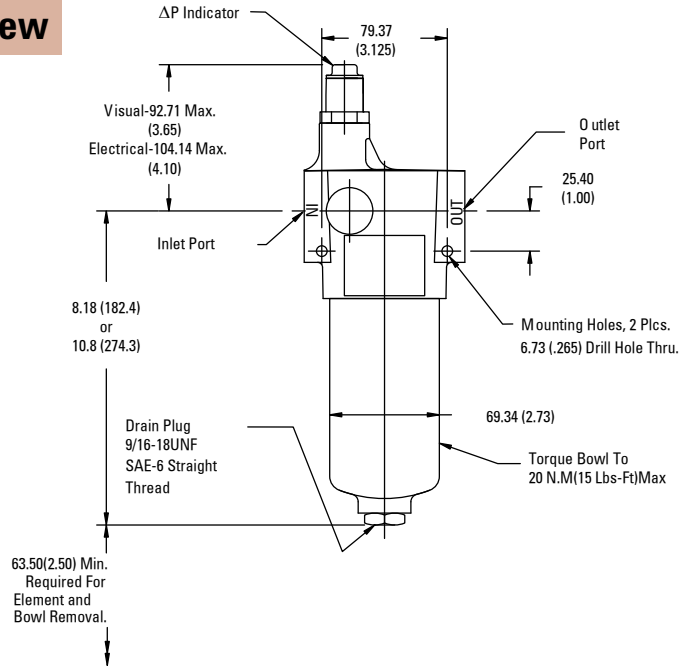
Filter Collapse Ratings

- 150 psi / 1034 kPa / 10.3 bar (standard)
- 3000 psi / 20,700 kPa / 206.8 bar (high collapse)

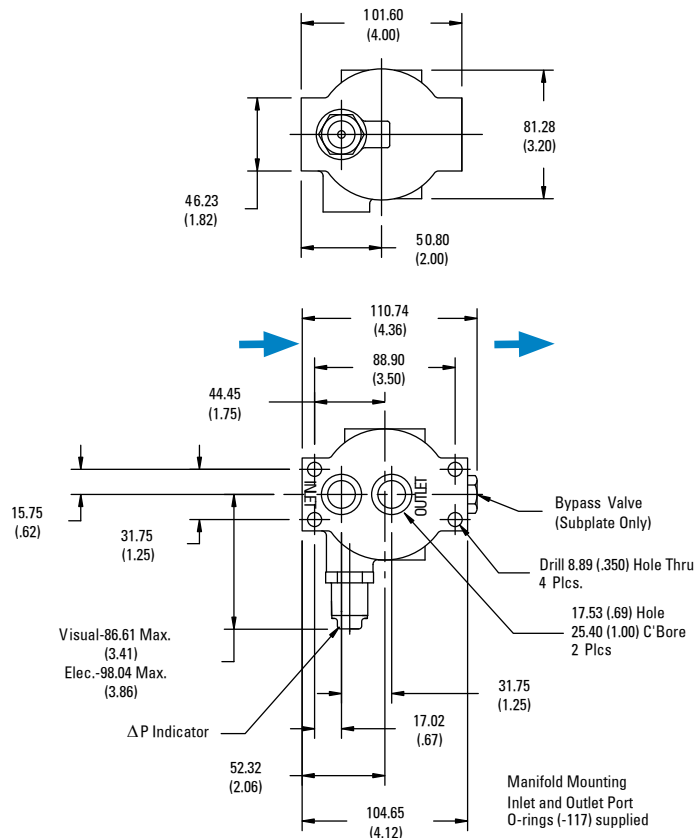
W440 Specification Illustrations

All dimensions are shown in millimeters [inches].

Assembly - Side View



Head - Top View





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W440 Components

High-Performance DT Filter Choices

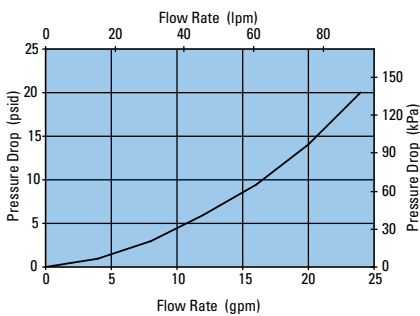
Media Type	$\beta_{x(c)} = 1000$ Rating based on ISO 16889	Length		Donaldson Part No.	Comments
		in	mm		
DT Synteq Synthetic	<4 μm	4.41	112	P566194	DT-9020-4-2UM
	5 μm	4.41	112	P566195	DT-9020-4-5UM
	8 μm	4.41	112	P566196	DT-9020-4-8UM
	12 μm	4.41	112	P566197	DT-9020-4-14UM
	23 μm	4.41	112	P566198	DT-9020-4-25UM
	<4 μm	8.28	210	P566199	DT-9020-8-2UM
	5 μm	8.28	210	P566200	DT-9020-8-5UM
	8 μm	8.28	210	P566201	DT-9020-8-8UM
	12 μm	8.28	210	P566202	DT-9020-8-14UM
	23 μm	8.28	210	P566203	DT-9020-8-25UM
	5 μm	4.46	113	P566335	DT-9021-4-5UM, High collapse
	12 μm	4.46	113	P566336	DT-9021-4-14UM, High collapse
	5 μm	8.16	207	P566337	DT-9021-8-5UM, High collapse
	12 μm	8.16	207	P566338	DT-9021-8-14UM, High collapse

Filter Notes

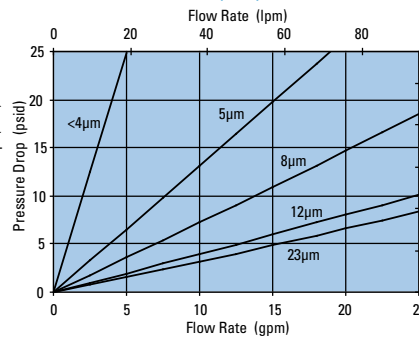
All Donaldson DT filters utilize glass fiber media with an epoxy-based resin system for the ultimate in chemical compatibility. All Donaldson DT filters are potted with epoxy-based adhesives. Standard collapse DT designs are double wire-backed using epoxy-coated steel mesh for maximum pleat support and dirt capacity. High collapse designs are double wire-backed using stainless steel mesh. High collapse designs are also potted into machined aluminum endcaps for greater filter integrity in critical applications. Viton® seals are standard on all Donaldson DT filters. Viton® is a registered trademark of E. I. DuPont de Nemours and Company.

Performance Data

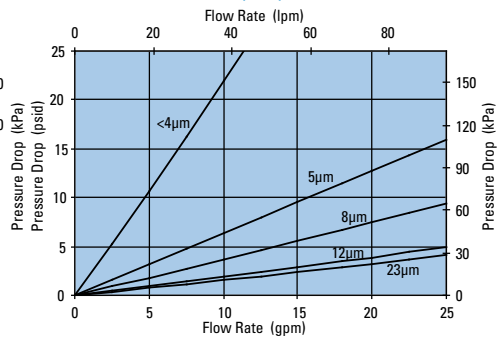
W440 Housing Only



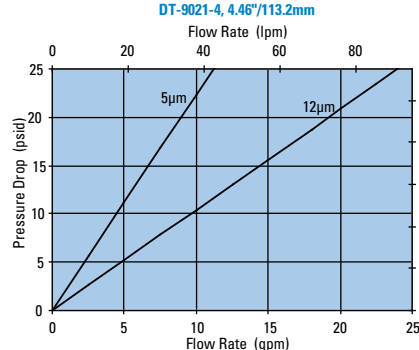
W440 4" DT Filter Only



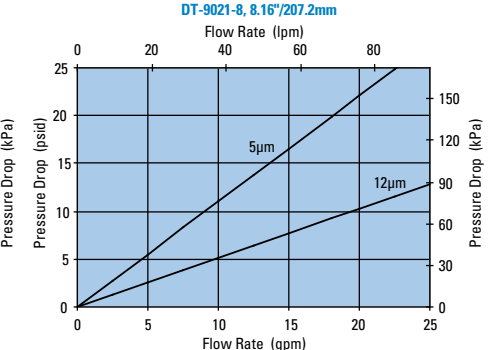
W440 8" DT Filter Only



W440 4" DT Filter Only



W440 8" DT Filter Only





Head Assembly Choices

Port Size	Bypass Rating	Seal Material Material	Indicator Style & Location	Donaldson Part No.
SAE-12 O-ring	50 psi / 3.45 bar	Buna-N	Port Machined & Plugged	P574248
Manifold Mount	50 psi / 3.45 bar	Buna-N	Port Machined & Plugged	P574249
Manifold Mount	None	Viton	Port Machined & Plugged	P574250

Housing Choices

Housing Length	Seal Material	Donaldson Part No.
4" (101.6mm)	Buna-N	X011125
8" (203.2mm)	Buna-N	X011126

Indicator Choices

Indicator Pressure Setting	Connector Style	Seal Material	Donaldson Part No.	Thermal Lockout	Surge Control	Reset
Visual Pop-up Models						
35 psi / 241 kPa	NA	Buna-N	P572347	No	No	Auto
35 psi / 241 kPa	NA	Buna-N	P572348	Yes	Yes	Manual
35 psi / 241 kPa	NA	Viton	P567456	Yes	Yes	Manual
70 psi / 482 kPa	NA	Buna-N	P572319	Yes	Yes	Manual
70 psi / 482 kPa	NA	Viton	P567457	Yes	Yes	Manual
100 psi / 690 kPa	NA	Buna-N	P572353	Yes	Yes	Manual
100 psi / 690 kPa	NA	Viton	P572354	Yes	Yes	Manual
Electrical / Visual Models						
35 psi / 241 kPa	Hirschman	Buna-N	P572327	No	No	Auto
35 psi / 241 kPa	Brad Harrison	Buna-N	P572329	No	No	Auto
35 psi / 241 kPa	Hirschman	Buna-N	P572384	Yes	Yes	Manual
35 psi / 241 kPa	Hirschman	Viton	P567458	Yes	Yes	Manual
35 psi / 241 kPa	Brad Harrison	Buna-N	P572385	Yes	Yes	Manual
35 psi / 241 kPa	3 wire flying leads	Buna-N	P572349	No	No	Auto
70 psi / 482 kPa	Hirschman	Buna-N	P572320	Yes	Yes	Manual
70 psi / 482 kPa	Brad Harrison	Buna-N	P567459	Yes	Yes	Manual
70 psi / 482 kPa	Hirschman	Buna-N	P572373	Yes	No	Manual
70 psi / 482 kPa	Hirschman	Viton	P569639	Yes	No	Manual
100 psi / 690 kPa	Hirschman	Buna-N	P572387	Yes	Yes	Manual
Electrical Models						
35 psi / 241 kPa	Hirschman	Buna-N	P572359	No	No	Auto
35 psi / 241 kPa	Brad Harrison	Buna-N	P572361	No	No	Auto
70 psi / 482 kPa	Hirschman	Buna-N	P572369	No	No	Auto

Head/Bowl/Housing Seal Kits

Donaldson Part No.	Material
X011172	Buna
X011173	Viton