LOW PRESSURE FILTERS

HBK05 Spin-On Filters

Working Pressures to:	150 psi 1035 kPa 10.3 bar
Rated Static Burst to:	250 psi 1725 kPa 17.2 bar
Flow Range to:	60 gpm 227 lpm



Features

HBK05 is a strong and durable low pressure filter with a spin-on design that simplifies servicing and reduces maintenance costs. Its heavy-duty steel canister has a rigid steel attachment plate for added strength. The head-to-canister O-ring seal is designed to ensure seal integrity beyond 250 psi/17 bar. The head is made of die-cast aluminum.

Take advantage of our mix and match system of in-stock heads and filters—so you can get exactly what you need, HBK05 is available with your choice of visual or electrical service indicators, and bypass ratings of 50 psi, 25 psi, or 5 psi. The filter media is Synteq[™], our proprietary synthetic media specifically designed for liquid filtration.

HBK05 filters ship with "L", square, and O-ring gaskets (unless noted with Viton[®] seals, then with square and o-ring gaskets). All HBK05 filters are interchangeable with SP50/60, SP80/90 and SP100/120 spin-ons, and have 1½" - 16 UN threads.

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Beta Rating

• Performance to $\beta_{<4(c)}=1000$

Porting Size Options

- 11/4" NPT
- SAE-20 O-ring

Replacement Filter Lengths

- 6.7" / 170 mm (short)
- 10.7" / 271 mm (long)

Filter Collapse Ratings

• 125 psid / 863 kPa / 8.6 bar

Standard Bypass Ratings

- 50 psi / 345 kPa / 3.4 bar
- 25 psi / 172.5 kPa / 1.7 bar
- 5 psi / 34.5 kPa / .34 bar

Assembly Weight

- 6.9 lbs / 3.1 kg (long)
- 5.7 lbs / 2.6 kg (short)

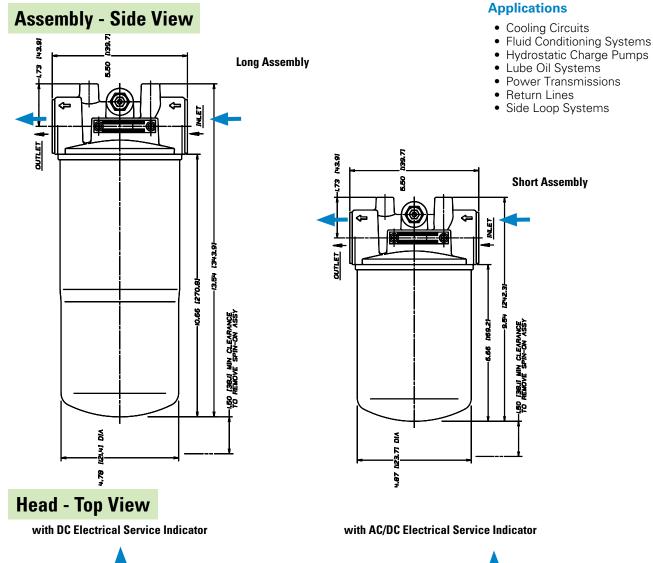
Operating Temperatures

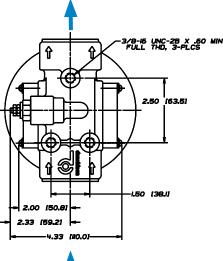
• -22°F to 225°F / -30°C to 107°C

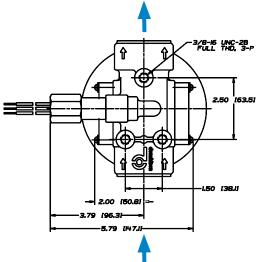


HBK05 Specification Illustrations

All dimensions are shown in inches [millimeters].









HBK05 Components

Filter Choices

Media	$B_{x(c)} = 2$	$B_{x(c)} = 1000$	Length		Donaldson	Comments
Туре		d on ISO 16889	in	mm	Part No.	
Synteq Synthetic		<4 µm	10.7	271	P167796	Viton [®] Seal
		6 µm	6.7	170	P167162	
		6 µm	10.7	271	P165762	
		11 µm	6.7	170	P165875	
		11 µm	10.7	271	P165876	
		13 µm	6.7	170	P167944	Viton Seal
		13 µm	10.7	271	P167945	Viton Seal
		23 µm	6.7	170	P165877	
		23 µm	10.7	271	P165878	
		50 µm	6.7	170	P165879	
		50 µm	10.7	271	P165880	
Water Absorbing	10 µm		10.7	271	P561183	Cellulose media, 3-seal kit. Absorbs 350 ml water.

Filter Notes * Thread size 1"-16 UNF

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Head Choices

Port	Bypass	Indicator Style	Donaldson
Size	Rating	& Location	Part No.
1¼" NPT	50 psi / 345 kPa	Visual, Both Sides	P172953
1¼" NPT	25 psi / 172 kPa	Visual, Both Sides	P166418
1¼" NPT	5 psi / 34 kPa	Visual, Both Sides	P166665
SAE-20 O-Ring	25 psi / 172 kPa	Visual, Both Sides	P166439

Note

* Donaldson uses the inlet port as the reference point. "Left side," for instance, means that the indicator mounts on the side of the filter head that is on your left when you face the inlet port.

Service Indicator Options

Use with Bypass	Indicator		
Valve Pressure of:	Part No.	Style ⁽³⁾	Description
Electric Models ⁽¹⁾			
5 psi / 34.5 kPa	P163642	А	Single post DC. Normally open.
15 psi / 103 kPa	P163601	А	Single post DC. Normally open.
25 psi / 172.5 kPa	P163839	А	Single post DC. Normally closed.
25 psi / 172.5 kPa	P162400	А	Single post DC. Normally open.
25 psi / 172.5 kPa	P171143	В	2-wire with Cannon connector. Normally open.
25 psi / 172.5 kPa	P173944	C	3-wire: White = normally open. Red = normally closed. Black = common
50 psi / 276 kPa	P574967	E	DC 2-wire. Normally closed. Gold contacts. Microprocessor compatible.



Mix and Match

Donaldson's mix and match system provides the great performance and functional advantages of custom-engineered filters with the convenience and speedy delivery of in-stock parts. Choose your options and build an HBK05 filter to suit your specifications.

Service Indicator Options

Part No.	Style ⁽³⁾
P162694	D
P162642	D
P162696	D
P165984	(blank plate)
P575334	H (Visual pop up)
P575335	H (Visual pop up)
	P162694 P162642 P162696 P165984 P575334

Indicator Notes

"All electric models have a maximum operating temperature of 250°F/ 121°C. "All visual models have a maximum operating temperature of 180°F/ 82°C. "See indicator illustrations on facing page.



HBK05 Service Parts

