HRK10 In-Line Cartridge Filters

Working Pressures to:

150 psi / 1035 kPa / 10.3 bar

Rated Static Burst to:

500 psi / 3450 kPa / 34.5 bar

Flow Range To:

300 gpm / 1135 lpm

Applications

- Fluid Conditioning Systems
- In-Plant Systems
- Lube Oil Systems
- Side Loop Systems



Features

The HRK10 high flow filter combines the best features of its predecessor, the HEK11: ANSI inlet port options, top cover filter servicing for ease of maintenance, and a selection of service indicators. The HRK10 all-steel housing design provides a strong, durable, and dependable unit. It offers standard features like deep pleat filters for higher dirt holding capacity and standard Donaldson DT 4-layer media filter construction. This technology, combined with many other standard features, is ideal for today's applications in pulp and paper, power generation and steel mill applications. A port for an electrical indicator is incorporated into the differential indicator block.

- Robust "Twist & Lift" cover for simplified servicing
- Multiple bypass valve design assures proper operation
- Wide variety of bypass valve ratings
- Reverse flow (inside to outside) filters for positive contamination containment
- Fluorocarbon seals standard
- Housing & cover material: steel
- Drain plug in bottom
- · Bleed valve in cover
- Fill plug in cover

Beta Rating (per ISO 16889)

• Performance to $\beta_{<4(c)}=1000$

Porting Size Options

• 4" ANSI Flange, 8-bolt 150#

Replacement Filter Lengths

• 21.99" / 559mm

Standard Bypass Ratings

- 5 psi / 34.5 kPa / 0.34 bar
- 25 psi / 172 kPa / 1.7 bar
- 50 psi / 345 kPa / 3.4 bar
- No Bypass

Assembly Weight

• 140 lbs / 64 kg

Operating Temperatures

• -20°F to 250°F (-29° to 121°C)

Filter Collapse Ratings

• 100 psid / 689 kPa / 6.9 bar

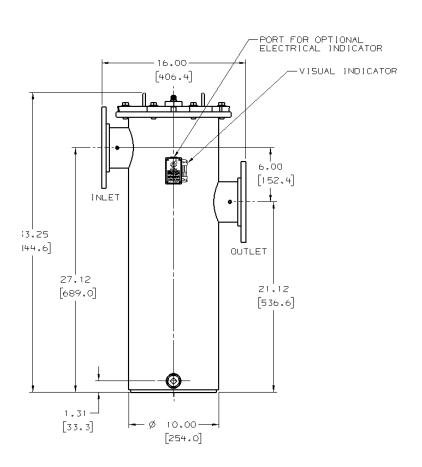
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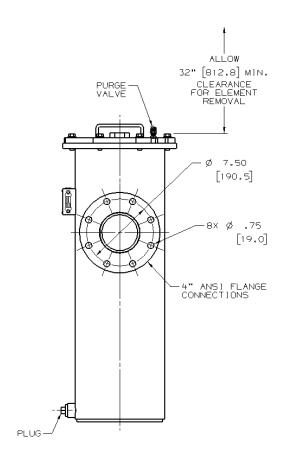
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HRK10 Specification Illustrations

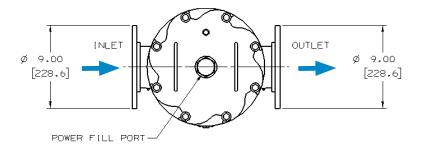
ASSEMBLY - SIDE VIEW

All dimensions are shown in inches [millimeters].





HEAD - TOP VIEW



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HRK10 Components

Filter Choices

Media Type	$\beta_{x(c)} = 2$	$\beta_{x(c)} = 1000$	Len	gth	Part No.	Comments
	Rating based on ISO 16889		in	mm	Fait No.	Conninents
Synteq Synthetic		<4 μm	21.99	559	P566187	Replaces old HEK11 filter P163472
		5 μm	21.99	559	P566188*	
		8 µm	21.99	559	P566189	Replaces old HEK11 filter P176417** or P176223***
		12 µm	21.99	559	P566190	Replaces old HEK11 filter P165449
		23 µm	21.99	559	P566191	Replaces old HEK11 filter P164707
Water Absorbing	10 μm		21.99	559	P569531	Absorbs approximately 60 oz/1800 ml water @ 25 psid/1.72 bar
Wire Mesh	150 µm		21.99	559	P566192	Replaces old HEK11 filter P160078

Use HRK10 in place of previous HEK11 housings. For better performance use HRK10 filters in existing HEK11 housings. * Utilizes DT Synthetic media

Filter Notes: All \$\textit{B}\$=1000 filters utilize glass fiber media with an epoxy-based resin system for the ultimate in chemical compatibility. All Donaldson HRK10 filters are potted with epoxy-based adhesives. All HRK10 filters are reserve flow (inside to outside), keeping contaminants contained during servicing. Fluorocarbon seals are standard on all HRK10 filters.

Housing Choices

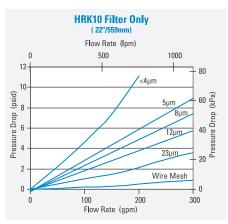
Note: Filters Ordered Separately.

Part No.	Port Connections	Bypass Valve	Indicator Options	
K100001	4" ANSI Flange	No bypass	Visual standard, electrical optional	
K100002	4" ANSI Flange	5 psi (0.34 bar) bypass	Visual standard, electrical optional	
K100003	4" ANSI Flange	25 psi (1.7 bar) bypass	Visual standard, electrical optional	
K100004	4" ANSI Flange	50 psi (3.4 bar) bypass	Visual standard, electrical optional	

Electrical Indicator Options

Part No.	Set Point	Bypass Valve
P173944	20 psi (1.4 bar)	AC/DC, 3-wire
P174396	40 psi (2.8 bar)	AC/DC, 3-wire

Performance Data







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^{** 9} µm rating *** 10 µm rating



HRK10 Service Parts

