HDK06

Max Flow: 150 gpm (568 lpm)



HDK06 In-Line/Tank Mount Filters

Working 350 psi 2415 kPa **Pressures to:** 24.1 bar

Rated Static 500 psi 3450 kPa **Burst to:** 34.5 bar

Flow Range To: 150 gpm 568 lpm

Features

HDK06 filters come in two styles: In-line and tank mount. Both styles feature a die cast aluminum head and steel body for strength and durability; service is made easier with a single, center retention bolt on top of the head. Filter flow is inside to outside. Buna-N® seals are standard.

HDK06 assemblies come complete with our β_{q_0} =1000 rated Synteq™ filter cartridge. Other ratings are available, depending on your cleanliness requirements. HDK06 comes with an easy-to-read visual service indicator.



In-line model shown

Beta Rating

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

Porting Size Options

• 21/2" NPT

Replacement Filter Lengths

• 16.00" / 406mm

Standard Bypass Ratings

• 25 psi / 172.5 kPa / 1.7 bar

Assembly Weight

• 39.25 lbs / 18 kg

Operating Temperatures

- -20°F to 250°F
- -29°C to 121°C

Filter Burst Ratings

•100 psid / 690 kPa / 6.9 bar

HDK06

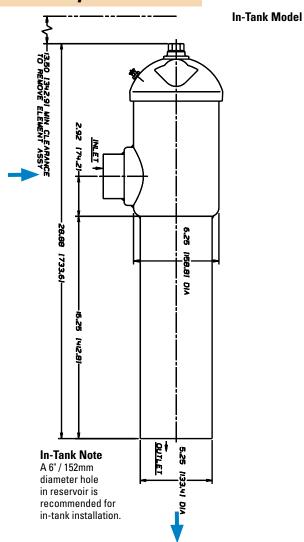




HDK06 Specification Illustrations

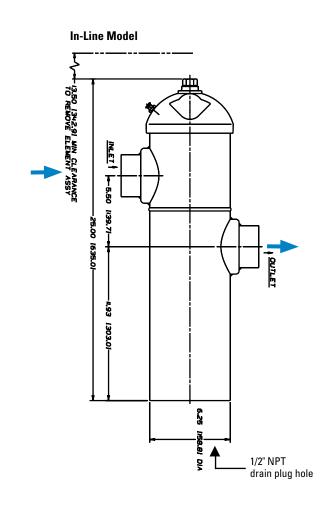
All dimensions are shown in inches [millimeters].

Assembly - Side Views

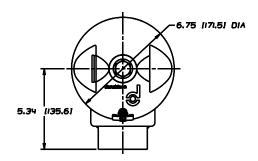


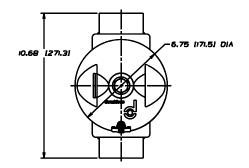
Applications

- Cooling Circuits
- Fluid Conditioning Systems
- Lube Oil Systems
- Return Lines
- Suction Lines



Head - Top Views





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HDK06 Components

Assembly Choices

| Style | Part No. | Port Size | Bypass Rating | Indicator | Includes Filter Cartridge |
|---------|----------|-----------|--------------------|-----------|---------------------------|
| In-Tank | K060173 | 21/2" NPT | 25 psi / 172.5 kPa | Visual | P176221 |
| In-Line | K060160 | 2½" NPT | 25 psi / 172.5 kPa | Visual | P176221 |

Filter Choices

| Media | $B_{x(c)} = 2$ | $R_{x(c)} = 1000$ | Len | gth | Donaldson |
|-----------|----------------|-------------------|-------|-----|-----------|
| Туре | Rating base | d on ISO 16889 | in | mm | Part No. |
| Synteq | | <4 µm | 16.00 | 406 | P161016 |
| Synthetic | | 6 μm | 16.00 | 406 | P165628 |
| | | 11 µm | 16.00 | 406 | P176221 |
| | | 22 μm | 16.00 | 406 | P161571 |
| | | 23 μm | 16.00 | 406 | P164699 |
| • | | 50 μm | 16.00 | 406 | P166597 |
| Wire Mesh | 150 µm | | 11.6 | 294 | P160700 |

Filter Notes

Standard HDK06 replacement filters have Buna-N® seals, which are appropriate for most applications involving petroleum oil. Filters with seals made of fluorocarbon elastomer (such as Viton® and Fluorel®) are required when using diester, phosphate ester fluids, water glycol, water/oil emulsions, and HWCF (high water

content fluids) over 150°F. HDK06 filters are inside to outside reverse flow 4.39" (112mm) OD.

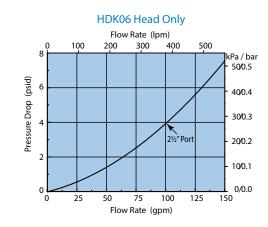
Refer to the table in the Technical Reference Guide for fluid compatibility with our filter media.

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Performance Data

HDK06 Filters Only Flow Rate (Ipm) 100 200 300 kPa / bar <4ur 600.6 Pressure Drop (psid) 500.5 400.4 30/0.3 200.2 11µm 10/0.1 50μm 0/0.0 100 125 150 Flow Rate (gpm)



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MEDIUM PRESSURE FILTERS



HDK06 Service Parts

Some service parts may not be stocked. Please contact your Donaldson sales representative for lead time details.

Optional Tee Handle for Easier Servicing

The first step in changing the HDK06 cartridge is loosening the top nut with a wrench. Our optional tee handle makes this job easier. The P160135 kit, comprised of the handle, an o-ring, and a clip ring, replaces the entire top nut assembly.

Head Assembly

Visual Indicator Repair Kit P160710 Buna-N® Seal

Visual Indicator Assembly P160473 Buna-N® Seal

Head O-Ring P160137 Buna-N® seal

Tee Handle

(not shown)

P160135

Nut Assembly Kit

Hex Nut Retainer Kit

Bleed Valve

P160779

Baffle Assembly Kit (Blue Plastic) P160293 Buna-N® seal

Bypass Valve Assembly

Snaps into Filter End Cap P160351 No Bypass P160373 Bypass (with magnets) P160353 Bypass (without magnets)

Cup Seal

P160476 Buna-N® seal

Bypass Indicator O-Ring

(Size 227) P160125 Buna-N® seal P161851 Fluorocarbon seal

Replacement Filter





Filter OK



Filter Needs Service

How to Read the Visual Indicator

This simple device will tell you when the filter needs to be changed. Always check when the fluid is at operating temperature and the system is at normal operating flow.

If the top of the white panel is below the lower half of the window, the filter needs servicing.

Bypass Spring P160130 25 psi / 170 kPa

Drain Port 1/2 - 14 NPT

Buna-N® is a registered trademark of E. I. DuPont de Nemours and Company.