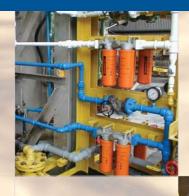


Hydraulic Filters for Industrial & Mobile Applications



Low Pressure Filters Medium Pressure Filters High Pressure Filters Filter Assemblies & **Replacement Cartridges Hydraulic Line Accessories Reservoir Accessories**



T.R.A.P.™ **Moisture Meets** its Match see page 5



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Low Pressure Filters

Our broad line of low pressure hydraulic filters perform optimally in return-line applications with working pressures up to 150 psi/10 bar and static pressures up to 300 psi/21 bar.

In-tank and in-line configurations are available to accommodate virtually any industrial application.

Hydraulic Series	Flow Range	Pressure (NFI Working	PA/t3.10.17) <i>Static</i>	Porting Types	Media Choices
SP15/25	0-30 gpm 0-114 l/min	150 psi 1034 kPa 10.3 bar	300 psi 2070 kPa 20.7 bar	½", ¾" NPT SAE-8, -12 O-Ring	Synteq® Synthetic Media, Cellulose, Wiremesh, or Water Removal
HBK05	0-60 gpm 0-227 l/min	150 psi 1034 kPa 10.3 bar	250 psi 1724 kPa 17.2 bar	SAE-20 O-Ring 1¼" NPT	Synteq Synthetic Media
SP50/60	0-60 gpm 0-227 l/min	150 psi 1034 kPa 10.3 bar	250 psi 1724 kPa 17.2 bar	1¼" NPT SAE-20 O-Ring	Cellulose, Synteq Synthetic Media, Wiremesh, or Water Removal
SP80/90	0-100 gpm 0-380 l/min	150 psi 1034 kPa 10.3 bar	250 psi 1724 kPa 17.2 bar	1½" NPT, SAE-24 O-Ring 2" SAE Flange	Cellulose, Synteq Synthetic Media, Wiremesh, or Water Removal
SP100/120	0-100 gpm 0-380 l/min	150 psi 1034 kPa 10.3 bar	250 psi 1724 kPa 17.2 bar	1½" NPT	Cellulose, Synteq Synthetic Media, Wiremesh, or Water Removal
TT15/30/60	0-50 gpm 0-189 l/min	100 psi 690 kPa 6.9 bar	150 psi 1030 kPa 10.3 bar	¾'', 1½'' NPT	Cellulose
FIK	0-211 gpm 0-800 l/min	145 psi 1000 kPa 10 bar	217 psi 1500 kPa 15 bar	SAE-8, -12, -16, -20, -24 O-Ring 2" SAE 4-Bolt Flange	Synteq Synthetic Media, Cellulose, or Wiremesh
FIK Combo	0-79 gpm 0-300 l/min	145 psi 1000 kPa 10 bar	217 psi 1497 kPa 15 bar	Inlet SAE-20 and SAE-16 O-Ring Outlet (2) SAE-16 O-Ring	Synteq Synthetic Media



HRK10 features rugged all-steel construction, Donaldson's proprietary Synteq® filter media and unique multi-valve bypass design for superior operating performance.

Low Pressure Filters In Use

The HRK-10 low-pressure filters shown at left are used in a 2 x 2 duplex arrangement at a paper manufacturer. The filters are filtering paper machine oil before it is used to lubricate bearings. This type of arrangement allows filter servicing during system operation.



Hydraulic Series	Flow Range	Pressure (NF <i>Working</i>	PA/t3.10.5.1) Static	Porting Types	Media Choices
T125	0-60 gpm 0-227 l/min	150 psi 1030 kPa 10.3 bar	200 psi 1380 kPa 13.8 bar	1¼" NPT	Synteq® Synthetic Media or Cellulose
HDK06	0-150 gpm 0-568 l/min	350 psi 2413 kPa 24.1 bar	500 psi 3448 kPa 34.5 bar	2½" NPT	Synteq Synthetic Media, or Wiremesh
HFK08	0-300 gpm 0-1136 l/min	350 psi 2413 kPa 24.1 bar	500 psi 3448 kPa 34.5 bar	3" NPT SAE-20 O-Ring	Synteq Synthetic Media, or Wiremesh
HRK10	0-300 gpm 0-1136 l/min	150 psi 1034 kPa 10.3 bar	500 psi 3448 kPa 34.4 bar	4" ANSI Flange	Synteq Synthetic Media, or Wiremesh
W041	0-300 gpm 0-1135 l/min	500 psi 3448 kPa 34.4 bar	1500 psi 10342 kPa 103 bar	SAE-24 O-Ring 2" Code 61 4-Bolt, 2½" Code 61 4-Bolt	Synteq Synthetic Media
W042	0-300 gpm 0-1135 l/min	400 psi 2758 kPa 27.6 bar	1500 psi 10342 kPa 103 bar	3" SAE 4 Bolt Flange	Synteq Synthetic Media

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Medium Pressure Filters

Donaldson's famous Duramax® filters are the highest rated medium pressure filters available in a spin-on configuration.

Duramax filters are reliable, sturdy, long-lived and easy to install. Most often used as returnline filters, they are designed for working pressures up to 1000 psi/69 bar and static pressures up to 2000 psi/138 bar.

Donaldson Duramax spin-on filters protect hydraulic oil in thousands of applications around the world. They are shown on a gas turbine installation in Hungary.





Media choices include: Synteq® (Donaldson's synthetic filter media specially developed for fluid filtration), natural fiber cellulose and stainless steel wiremesh for harsh environments.

Offered in both single-head and dual-head designs to accommodate a broad range of flow ranges.

Hydraulic Series	Flow Range	Pressure (NFPA/t3.1 <i>Working</i>	0.17) <i>Static</i>	Porting Types	Media Choices
НМК03	0-25 gpm 0-95 l/min	1000 psi 6895 kPa 69 bar	2000 psi 13790 kPa 137.9 bar	SAE-12 O-Ring	Synteq®Synthetic Media
HMK04 HNK04	0-35 gpm 0-132 l/min	500 psi 3448 kPa 34.5 bar	1000 psi 6895 kPa 69 bar	SAE-12, -16 O-Ring ¾", 1" NPT	Synteq Synthetic Media, Cellulose, or Water Removal
HMK05 HNK05	0-50 gpm 189 l/min	350 psi 2413 kPa 24 bar	800 psi 5516 kPa 55 bar	SAE-20 O-Ring 1¼" NPT	Synteq Synthetic Media, Wiremesh, or Water Removal
HMK24 (dual head, two elements)	0-60 gpm 0-230 l/min	500 psi 3450 kPa 34.5 bar	1000 psi 6895 kPa 69 bar	1¼" SAE O-Ring 1¾" SAE 4-Bolt Flange	Synteq Synthetic Media, or Water Removal
HMK25 (dual head, two elements)	0-100 gpm 0-378 l/min	350 psi 2413 kPa 24 bar	800 psi 5516 kPa 55 bar	1½" SAE 4-Bolt Flange SAE-24 O-Ring 1½" NPT	Synteq Synthetic Media, Wiremesh, or Water Removal
W061	0-100 gpm 0-379 l/min	600 psi 4137 kPa 41 bar	1500 psi 10342 kPa 103 bar	SAE-12, -16 O-Ring	Synteq® Synthetic Media

Call 800-846-1846



High Pressure Filters

Donaldson high pressure filters help protect the most expensive components within a hydraulic system, typically the valves and actuators.

Designed with heavy-duty housings for working pressures 2000 - 6000 psi (138-414 bar).

All HPK, FPK & DT filters contain Synteq, a Donaldson proprietary synthetic media.



W451 filters clean the fluid on a hydraulic bench that tests hydraulic pumps, motors and cylinders using our highest performance Donaldson Triboguard™ elements.

Hydraulic Series	Flow Range	Pressure (NFPA/ Working	t3.10.5.1) <i>Static</i>	Porting Types	Media Choices
HPK02	0-30 gpm 0-114 l/min	2000 psi 13790 kPa 137.9 bar	4500 psi 31028 kPa 310.3 bar	SAE-12 O-Ring	Synteq® Synthetic Media
FPK02	0-25 gpm 0-95 l/min	6090 psi 42000 kPa 420 bar	9135 psi 63000 kPa 630 bar	SAE-12 O-Ring	Synteq Synthetic Media
НРК03	0-60 gpm 0-227 l/min	3000 psi 20685 kPa 206.9 bar	6000 psi 41370 kPa 413.8 bar	SAE-12, -16 O-Ring	Synteq Synthetic Media or Stainless Steel Wiremesh
FPK04	0-100 gpm 0-379 l/min	4350 psi 300 bar	9135 psi 630 bar	SAE-20 O-Ring	Synteq Synthetic Media
НРК04	0-100 gpm 0-378 l/min	6000 psi 41370 kPa 413.8 bar	12000 psi 82740 kPa 827.6 bar	SAE-20, -24 O-Ring 1¼, 1½" SAE 4-Bolt Flange	Synteq Synthetic Media or Stainless Steel Wiremesh
НРК05	0-200 gpm 0-757 l/min	3000 psi 20685 kPa 206.9 bar	6000 psi 41370 kPa 413.8 bar	2" SAE 4-Bolt Flange	Synteq Synthetic Media
W451	0-150 gpm 0-568 l/min	4500 psi 31028 kPa 310 bar	13500 psi 93083 kPa 931 bar	SAE-24 O-Ring, Manifold Mount, 1½'' SAE 4-Bolt Flange, Code 61 1½'' SAE 4-Bolt Flange, Code 62	Synteq Synthetic Media
W440	0-20 gpm 0-91 l/min	4000 psi 27580 kPa 276 bar	10000 psi 68950 kPa 690 bar	Manifold Mount	Synteq Synthetic Media
W350	0-50 gpm 0-189 l/min	3000 psi 20685 kPa 207 bar	7500 psi 51713 kPa 517 bar	SAE-12, -16 O-Ring	Synteq Synthetic Media

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Comprehensive Line of Replacement Filters

In-Stock & Ready to Ship

Along with our complete line of hydraulic filter heads and housings for low, medium, and high pressure applications, Donaldson offers a comprehensive line of replacement filters. Spin-ons and cartridges are available in your choice of media.

When replacing another filter brand, our comprehensive and up-to-date cross-reference guide (available on our website) can lead you through performance improvement possibilities.

Our worldwide network of authorized hydraulic distributors is ready to serve you with their solid knowledge of Donaldson hydraulic filters and vast experience with hydraulic circuits. Most distributors stock our filters, and we have quick-ship programs so that you can get the filter you need, when you need it. To find a distributor near you, access our website and click on Industrial Hydraulics, then on Where to Buy.

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Hydraulic Line Accessories

Donaldson hydraulic components are available from your fluid power experts at Donaldson—your one stop shop:

- Pressure gauges for monitoring system pressure
- Hoses and test points for sampling oil and determining ISO cleanliness levels
- Flanges to connect components
- Valves for system control

Test Points



Ball Valves



Pressure Gauges



Port Flanges



A Call 800-846-1846

Reservoir Accessories

- Suction Strainers
 - Line Mount
 - Tank Mount
- Diffusers
 - Line Mount
 - Tank Mount
- Level Gauges
- Sight Gauges
- Plugs, Caps, Vents
- Filler Breather Assemblies
- Breathers

Introducing
Extended Range
T.R.A.P.™
Breather
Technology!





Protect your pump from damage.

Diffusers are highly effective in reducing aeration, foaming, turbulence and noise caused by return lines.

A variety of Sight & Level Gauges is available. Besides standard length versions, Donaldson has several screw-in styles in plastic and steel for use in a variety of applications.

Donaldson has a wide range of plastic Plugs, Caps & Vents that are great for small power units and gearboxes.

Donaldson Filler Breathers and Caps come in chrome, zinc, epoxy-coated weatherproof finishes and corrosion-resistant technopolymer. Lockable versions, dipsticks and side-mount versions are available.

T.R.A.P.TM (Thermally Reactive Advanced Protection) Breather provides fast-acting protection against airborne moisture and particulate contamination. It stops solid particulate down to 3 µm at 97% efficiency as well as prevents moisture from entering the reservoir. Water-holding capacity is regenerated with every oil return phase for long service life. Its self-regenerating capability enables extended life.

Donaldson's T.R.A.P. breathers are available in a variety of configurations:

- ABS plastic, nylon or epoxy-coated steel construction
- NPT, BSP, UN straight thread or bayonet connections
- With and without electronic indicator options to fit a broad range of applications



Leading Technology



- 550 engineers worldwide
- More than 500 patents
- Full range of filter media choices
- Complete testing and evaluation capabilities

Experience & Service



- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours
- Industry's largest selection of replacement hydraulic filters
- Easy-to-use online crossreference and ordering

Global Support



- Facilities in 37 countries
- 40 manufacturing plants and 14 distribution centers
- · Sales offices worldwide

Log On www.donaldson.com

From the Donaldson home page click on Industrial Hydraulics to:

- Find cross-reference part numbers
- View filter specifications
- View/print brochures in PDF format
- Locate a distributor in your area



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Filtration Solutions

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