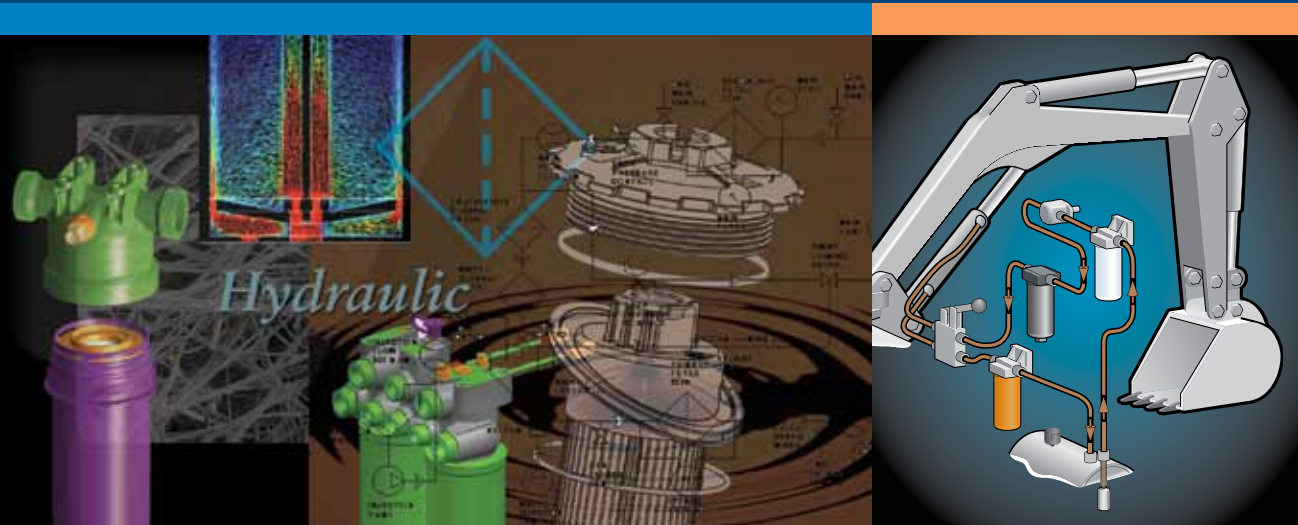


Filtration Technologies for Hydraulic-Powered Equipment



Donaldson values our OE customers and we continually strive to introduce new and differentiated filtration technologies that work within your engineering specifications and add customer value.

This overview demonstrates our latest hydraulic filtration technologies and solutions for hydraulic-powered equipment.

Donaldson®

Complete Product Range



Donaldson has a complete line of hydraulic filtration products for the protection of heavy duty mobile equipment. We can provide high, medium, or low pressure filters in any hydraulic system location and in any filter configuration. Combining product range with media technology creates filtration options to meet any need.

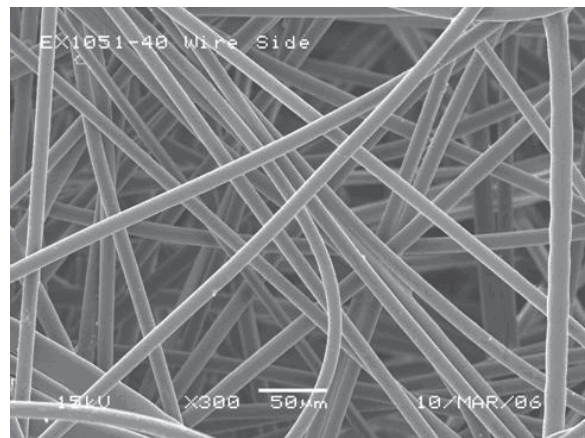
Our product range includes:

- Low pressure spin-on's
- Duramax® medium pressure spin-on's
- In-line cartridge systems
- Tanks breathers
- Custom heads
- Return line
- Case drain
- Accessories
- In-Tank Systems
- Duramax® medium pressure removable cartridge systems
- High pressure cartridge assemblies
- Suction strainers
- Pressure line
- Suction filters
- Tank breather

Filter Media Technology choices for all conditions

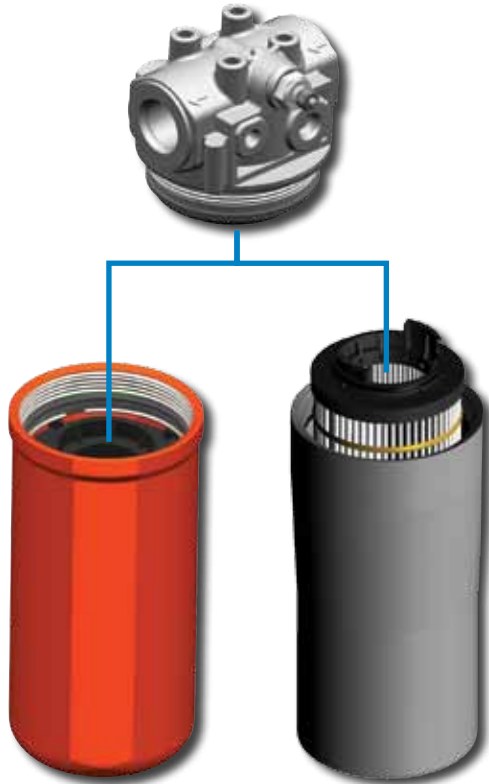
Synteq™ XP – a new choice for the highest quality filtration

- Performance range: 5 μ absolute efficiency with the capacity of a 15 μ filter
- Uniform synthetic fiber structure delivers higher filtration efficiency and longer filter life
- Available in the new Duramax® filter
- Wide variety of other medias available for in-plant, mobile and suction strainer applications, including: synthetic (Synteq™), cellulose, and high water based fluids



Scanning electron microscope image (x300 magnification) and cross section of Synteq XP filtration technology.

Duramax[®] Generation 2 Filter Series



Working Pressure: 500 psi / 3448 kPa / 34.5 bar
 Static Pressures: 4" - 1000 psi / 6895 kPa / 69 bar
 5" - 8000 psi / 55158 kPa / 552 bar
 Flow Ranges: 4" - 0-35 gpm or 0-132 l/min
 5" - 0-50 gpm or 0-190 l/min

- Applications include hydrostatic charge side filtration, pilot circuits, powershift transmissions and mid-pressure kidney loop circuits
- Utilizes Synteq XP filter media for high filtration efficiency and higher dust-holding capacity
- Improved performance including higher burst, greater fatigue strength and longer filter life
- Dual purpose design – one head assembly fits both spin-on and bowl cartridge filter
- Patent pending seal provides ease of service
- Available in 4" and 5" diameters
- Reference Brochure No. F111211

The flexibility in filter style makes the Duramax (HNK Series) is a great choice for equipment operation locations where filter disposal requirements are more stringent. Spin-on style shown on left, cartridge style on right.

In-tank Filtration Combo Return & Suction



The inlet oil comes from the return line which returns to the reservoir. The outlet provides clean, pressurized oil for several uses.

Working Pressure: 145 psi / 1000 kPa / 10 bar
 Status Pressure: 218 psi / 1500 kPa / 15 bar
 Flow Ranges: 0-32 gpm / 0-120 l/min
 Weight: 3.6 lbs. / 1.6 kg

- Typical applications include mobile hydrostatic transmission and suction that need return circuits
- Modular, compact design
 - Unique valve arrangement and filter interface
 - Ports on same side or available on opposite ends
 - Easy-to-service housing for clean oil servicing with no loose parts
 - Replaceable components include filter cartridge and by-pass strainer
 - Variety of indicators
- Reference Brochure No. F111234



T.R.A.P. Hydraulic Tank Breather

- Filters contaminant and removes moisture from hydraulic reservoirs using a patented Thermally Reactive Advanced Protection (T.R.A.P.) filtration media
- Senses and begins removing moisture at a low 15% relative humidity
- Electronic or mechanical filter service indicator options
- Construction either glass-filled ABS or epoxy coated steel
- Simple installation - spin-on and hand tighten
- Models available with 1" NPT, Bayonet, 3/4" NPT, 3/4" BSP connection
- Reference Brochure No. F11221



Die-cast and Sand-cast Custom Head Assemblies



- Custom design capability
- Variety of styles port sizes
- Multiple head interfaces
- Sensors
- Switches
- Indicators



Donaldson

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