

**FILTRATION SOLUTIONS FOR THE RAILROAD INDUSTRY**



Improved Reliability

Branded Solutions

Lower Maintenance Costs



TMU

TCM

## Fluid Condition Monitoring | TMU and TCM

- ◆ Newest generation of particulate monitors that continuously measures solid contamination in fluids.
- ◆ Enclosed in a 4-inch diameter case, the TCM utilizes an optical sensor and measures particulates in four sizes (>4, >6, >14 and >21 microns).
- ◆ Measurement results can be displayed or exported as a contamination code according to ISO 4406:1999 or SAE AS 4059.
- ◆ Mounted on a manifold for flow control and integration of a water sensor TWS for measuring water saturation of fluids.

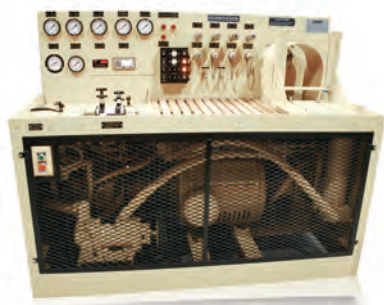


HDP-HT

HDP-BC

## On-Board Diesel Filters | HDP-HT and HDP-BC

- ◆ Low investment costs and small installation space, ideal for critical engine applications and railroad locomotives.
- ◆ Consistent dewatering over the entire life of the filter element.
- ◆ Robust design thanks to aluminum housing.
- ◆ Economical and technically superior operation as a result of long element service life.
- ◆ High-tech design: reliable dewatering thanks to automatic water discharge, even during suction side operation.
- ◆ Water sensor and fuel preheating available as options.



HTB

## Hydraulic Test Bench | HTB

- ◆ An ingenious universal mounting bracket makes mounting pumps and motors on the bench a simple, quick operation
- ◆ Mounting plates are furnished to accommodate flange-mounted and foot-mounted pumps or motors
- ◆ Drive adapter equipment includes inserts for keyed shafts, an insert chuck and a universal drive shaft
- ◆ Quick disconnect porting on the bench provides convenient hook-up for test components
- ◆ Includes a factory-trained technician for a two-day, on-site training session
- ◆ Two complete operating manuals are supplied with each bench
- ◆ Kits and spare parts available for upgrades and maintenance



Schroeder Elements

## Schroeder Bestfit® Element with Private Label Branding Available

- ◆ Affordable filtration solution that can be used in a wide variety of applications
- ◆ Cartridge and Spin-on styles available
- ◆ Variety of media grades (cellulose, synthetic, water removal, anti-stat)
- ◆ Available for private label branding
- ◆ Over 40,000 cross references on the website



## Fluid Conditioning | FS, KLC



MFDBC

FS

KLC

◆ **FS:** The Filtration Station<sup>®</sup> is a mobile filter cart, ideal for maintenance on rail yard equipment in remote rail yard locations. The large semi-pneumatic tires on the unit, along with the rugged frame design, allow for the unit to be easily transported over the rails and through the dirt and stones of rail yard. The FS comes standard with TCM and TWS condition monitoring sensors for real time monitoring and automatic shutdown when target ISO code is reached.

◆ **KLC:** The Kidney Loop Compact System is a small, self-contained filtration system equipped with high efficiency, high capacity elements. It is capable of removing particulate contamination and/or water quickly, conveniently and economically. This off-line system can be used to supplement in-line filters, when adequate turnover cannot be achieved in the system, with flow rates of 1.3 gpm to 4.9 gpm. It is supplied as a ready-to-install off-line unit with integrated pump/motor assembly.

◆ **MFDBC:** Compact, low cost cart that is top-ported and provides easy element service. Bar-type Dirt Alarm<sup>®</sup> indicates when filter elements require a change Hoses and connection tubes included.

## Particulate Removal and Fuel/Water Separation | BDF1, BDF2, ICF and K9



BDF1

BDF2

ICF

K9

◆ **BDF1 and BDF2:** An ICF combined with particulate filtration at 1 or 3 microns, utilizing Excellement<sup>®</sup> synthetic Z-Media<sup>®</sup> element. Fully synthetic, patent-pending coalescing (fuel/water separation) media requires minimal change outs. Routine element change is only needed on KL3 particulate filter which saves time and money. Flow rates available up to 16 gpm for BDF1 and 32 gpm for BDF2. Optional electrical Dirt Alarm<sup>®</sup>, integrated thermostat controlled water sump heater and automatic water drain available.

◆ **ICF:** Fuel and water separation media technology in a three-phase element construction for high efficiency. With up to 16 gpm single-pass removal of free and emulsified water in Ultra-low Sulfur Diesel (ULSD) and blends, this helps protect expensive, vital engine components against failures caused by water transferred from the bulk fuel tanks to the vehicle. The coalescing filter delivers 99.5% single pass free and emulsified water removal efficiency to achieve outlet water concentrations below 100 ppm.

◆ **K9:** Base-ported filter with 900 psi operating pressure and up to 100 gpm flow. Provides in-line, single pass water and/or fine particulate filtration when mated in series with one or two additional K9 housings. Designed to meet HF4 automotive standard. Available with test points downstream and/or upstream.

## Hydraulic & Lube | BFT, KF50 and RLT



BFT

KF50

RLT

◆ **BFT:** Designed for high return line flows of up to 300 gpm, this low pressure, tank mounted filter with 100 psi operating pressure features high performance, synthetic elements with large dirt holding capacities. Available with visual or electrical Dirt Alarm<sup>®</sup> to alert users when element replacement is necessary.

◆ **KF50:** A high pressure, base-ported filter with 5,000 psi operating pressure and up to 150 gpm flow. Designed to meet HF4 automotive standard and encourages inventory consolidation through the use of standard K-size elements. Available with test points downstream and/or upstream.

◆ **RLT:** Durable, compact, and lightweight, this medium pressure, top-ported filter has 1,000 psi operating pressure and up to 70 gpm flow. Threaded bowl facilitates simple element change outs. Same day shipment model available.

Schroeder Industries, an ISO 9001:2008 certified company, focuses on developing filtration and fluid service products in the field of railroad applications. We are proud of our proven track record of providing quality products over the last sixty years. The designs you see inside are the result of thousands of hours of field testing and laboratory research... and decades of experience. Schroeder was one of the first companies to demonstrate the need for, and benefits of, hydraulic filtration. We pioneered the development of micronic filtration, helping to set performance standards in industrial fluid power systems. As a result, Schroeder is now a leader in filtration and fluid conditioning—and the proof of our expertise lies in our broad mix of unsurpassed products.

For more information, please visit: [www.schroederindustries.com](http://www.schroederindustries.com)

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## Railroad

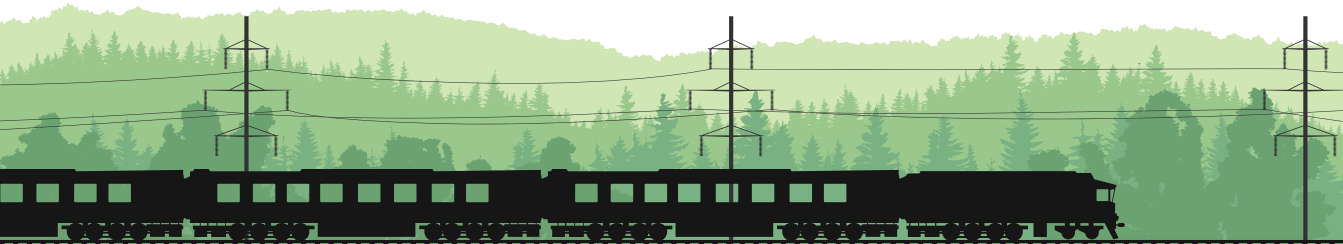


We design solutions for the rail industry and for the success of our customers by:

- ◆ Optimizing the use of technology with applications for improved equipment performance
- ◆ Using an efficient, timely customization process to fill the specific needs of railroad customers
- ◆ Preserving our reputation for reliability and flexibility to meet the demands of railroad customers
- ◆ Expanding globally to support our customers and stay current with new technologies
- ◆ Leveraging and sharing our knowledge to meet our customers' challenges
- ◆ Nurturing a creative, cooperative culture committed to providing the best solutions for our customers

Our goal is to be your fluid conditioning partner. Our expertise in filtration technology, our superior filter and element manufacturing capabilities, and our dedication to customer service and product support are the reasons we're considered experts in Advanced Fluid Conditioning Solutions®.

We are committed to providing the best available filter products to meet necessary cleanliness levels at a competitive price. As a cost-effective quality producer, we can work with your organization to supply contamination control technology or develop long-range pricing programs that can improve your company's bottom line.



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