

A microscopic view of fuel, showing a complex network of thin, interconnected channels and numerous small, dark, spherical contaminants of various sizes. The overall color is a warm, golden-brown. The text is overlaid on this image.

# FUEL FILTER KITS

FOR DIESEL ENGINES AND BULK FUEL TANKS

**IF YOU DON'T  
STOP CONTAMINANTS,  
THEY WILL  
STOP YOU.**

# Protect your investment

With additional primary filtration for severe operating conditions.

Worn fuel pumps or failed injectors ruin your day as easily as they ruin your bank account. Donaldson diesel fuel filter kits can save you both - by delivering clean, filtered fuel to your engine.

Dirt and water are the enemies of fuel systems and can dramatically reduce the service life of fuel system components. If your vehicle operates in extreme conditions, or where fuel cleanliness is uncertain, we recommend the installation of additional primary fuel filtration to provide added engine protection.

- ▶ Ideal for many 4WD and heavy-duty applications
- ▶ Includes bonus filter element - keep one in the vehicle as a spare for an emergency
- ▶ Supports flow range up to 379 lph
- ▶ High-efficiency versions available



**Uncertain how often you should drain the water from your fuel filter?**

Donaldson's Water in Fuel Sensor & Display Kit is designed to give a visual warning for when separated water is present in the filter and needs to be drained. The kit contains a drain valve with electrical plug, wiring loom and adjustable dash mount LED display.



# Added Protection

for all diesel and high pressure common rail (HPCR) engines

Operating Pressure

Operating Temperature

80 psi / 550 kPa / 5.5 bar

-40°C to 121°C

| Part No | Flow Rate | Micron Rating Efficiency | Head Assembly Port Size | Replacement Filter | Priming Pump | Bowl | WIF Sensor |
|---------|-----------|--------------------------|-------------------------|--------------------|--------------|------|------------|
|---------|-----------|--------------------------|-------------------------|--------------------|--------------|------|------------|

## HIGH EFFICIENCY DIESEL FUEL FILTER KIT

Recommended for HPCR vehicles to 4.3L engine capacity

|                |         |                                       |                            |         |   |   |   |
|----------------|---------|---------------------------------------|----------------------------|---------|---|---|---|
| <b>P903316</b> | 114 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 1 in, 1 out 1/4" - 18 NPTF | P551615 |   | • |   |
| <b>X900165</b> | 114 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 1 in, 1 out 1/4" - 18 NPTF | P551615 |   | • | • |
| <b>X900167</b> | 220 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 2 in, 2 out M14 x 1.5      | P581681 | • | • |   |
| <b>X900168</b> | 220 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 2 in, 2 out M14 x 1.5      | P581681 | • | • | • |

Recommended for vehicles with engine capacity of 4.4L and above. Suitable for smaller capacity engines also

|                |         |                                       |                          |          |  |     |     |
|----------------|---------|---------------------------------------|--------------------------|----------|--|-----|-----|
| <b>X900169</b> | 245 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 2 in, 2 out M14 x 1.5    | P581681  |  | •   |     |
| <b>X900170</b> | 245 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 2 in, 2 out M14 x 1.5    | P581681  |  | •   | •   |
| <b>X900166</b> | 340 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 2 in, 2 out M14 x 1.5    | P551313* |  | N/A | N/A |
| <b>P903074</b> | 379 lph | B <sub>3</sub> = 100 (99% @ 3 micron) | 1 in, 1 out 1/2"-14 NPTF | P553207  |  | •   |     |

## STANDARD EFFICIENCY DIESEL FUEL FILTER KIT

Recommended for non-HPCR engines to 4.3L engine capacity

|                |         |   |                            |         |  |   |   |
|----------------|---------|---|----------------------------|---------|--|---|---|
| <b>P902976</b> | 114 lph | B <sub>11</sub> = 100 (99% @ 11 micron) | 1 in, 1 out 1/4" - 18 NPTF | P550588 |  | • |   |
| <b>X900164</b> | 114 lph | B <sub>11</sub> = 100 (99% @ 11 micron) | 1 in, 1 out 1/4" - 18 NPTF | P550588 |  | • | • |

Fuel line fittings and port plugs included.

\* Fuel Filter only not a Fuel Filter Water Separator. Operating pressure 100 psi / 690 kPa / 6.9 bar

## Optional Indicators

| Part No        | Description                            | Comments  |
|----------------|--|---|
| <b>X220052</b> | M12 x 1.5 Visual, Stepped <sup>1</sup> | 4 Steps to 5 psi / 34 kPa   |
| <b>X220057</b> | M12 x 1.5 Electrical <sup>1</sup>      | Set point 5 psi / 34 kPa  |
| <b>P506153</b> | M12 - M14 Adaptor                      |   |
| <b>X220112</b> | Water-in-Fuel Sensor LED Display Kit   | 6V to 30V DC Power Supply<br>Dash mount Display: 66.3mm (w) x 50mm (h) x 15.4mm (d) |

<sup>1</sup>Restriction Indicators for installation on SUCTION side of head assembly in suction applications.

# Clean diesel fuel at the dispenser

Clean diesel is necessary for the proper functioning of modern equipment.

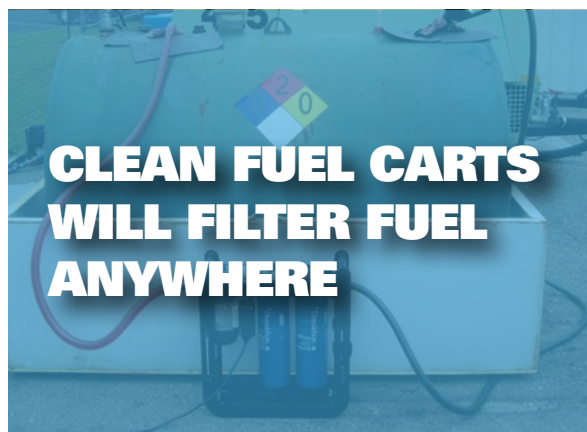
Clean, dry diesel is more important today than ever before. Without it, your operations are susceptible to unplanned downtime and increased costs.

You can't always control the cleanliness of diesel fuel delivered to you, but you can control how clean it is when you pump it into your vehicles and equipment. Donaldson Clean Diesel Kits are easy to install on any fuel dispenser and come with everything needed to filter out even the finest contaminants before they enter your equipment's fuel system.

- ▶ Easy to install
- ▶ Recommended for all diesel and bio diesel blends
- ▶ Supports flow range up to 375 lpm

## Benefits

- ▶ Protect expensive fuel injection systems
- ▶ Prevent premature plugging of on-board fuel filters
- ▶ Reduce maintenance costs
- ▶ Prevent unplanned downtime



Clean Diesel Carts are the perfect solution for fuel transfer and kidney loop applications.

We offer convenient portable packages which enable off-line filtration to supplement existing filtration to achieve system cleanliness.

Visit [donaldson.com](https://www.donaldson.com) to explore our range.

# Added Protection

for bulk fuel tanks, mobile service trucks and portable tanks

Operating Pressure

150 psi / 1034 kPa / 10.3 bar

Operating Temperature

-20°C to 107°C

| Primary Application                                     | Flow Rate | Part No        | Micron Rating Efficiency                  | Head Assembly     | Replacement Filter | T.R.A.P. Breather |
|---|-----------|----------------|---|-------------------|--------------------|-------------------|
| <b>BULK FUEL TANK KITS</b>                              |           |                |   |                   |                    |                   |
| Gravity fed or low pressure overhead and portable tanks | 220 lpm   | <b>P902973</b> | B <sub>10</sub> = 200 (99.5% @ 10 micron) | SAE-20 / 1" BSP/G | P574959            | P564669 **        |
|   |           | <b>X900133</b> | B <sub>10</sub> = 200 (99.5% @ 10 micron) | SAE-20            | P574959            | P566151 **        |
|   |           | <b>X900134</b> | B <sub>10</sub> = 200 (99.5% @ 10 micron) | 1 1/4" BSP/G      | P579099            | P566151 **        |
|   |           | <b>X900115</b> | B <sub>10</sub> = 200 (99.5% @ 10 micron) | 1 1/4" BSP/G      | P579099            |                   |

\*\* 1" NPT male thread inc 1" female BSP socket included.

Operating Pressure

350 psi / 2413 kPa / 24.1 bar

Operating Temperature

-40°C to 118°C

| Primary Application  | Flow Rate | Part No        | Micron Rating Efficiency                   | Head Assembly                          | Replacement Filter | Target ISO Cleanliness |
|--|-----------|----------------|--|--|--------------------|------------------------|
| <b>CLEAN DIESEL KITS</b>                                   |           |                |  |  |                    |                        |
| Fuel Dispensers<br>Mobile Service Trucks<br>Portable Tanks | 121 lpm   | <b>X900098</b> | B <sub>7</sub> = 2,000 (99.95% @ 7 micron) | SAE-20                                 | DBB7733            | 16/14/11               |
| <b>CLEAN &amp; DRY DIESEL KITS</b>                         |           |                |  |  |                    |                        |
| Fuel Dispensers<br>Mobile Service Trucks<br>Portable Tanks | 189 lpm   | <b>P506073</b> | B <sub>4</sub> = 2,000 (99.95% @ 4 micron) | 1 1/4" NPTF                            | DBB8666<br>DBB0248 | 14/13/11               |
|  |           | <b>X900096</b> | B <sub>7</sub> = 2,000 (99.95% @ 7 micron) | 1 1/4" NPTF                            | DBB8777<br>DBB0248 | 16/14/11               |
|  | 375 lpm   | <b>X900018</b> | B <sub>4</sub> = 2,000 (99.95% @ 4 micron) | 1 1/2" SAE 4 bolt flange / 1 1/2" BSPP | DBB8666<br>DBB0248 | 14/13/11               |
|  |           | <b>X900097</b> | B <sub>7</sub> = 2,000 (99.95% @ 7 micron) | 1 1/2" SAE 4 bolt flange / 1 1/2" BSPP | DBB8777<br>DBB0248 | 16/14/11               |

Clean Diesel and Clean & Dry Diesel Kits are not recommended for gravity fed or low pressure applications.

## For complete protection

T.R.A.P (Thermally Reactive Advanced Protection) breathers reduce the risk of moisture and contaminants entering your fuel tank so fluids are kept clean and dry. Used together with effective filtration, they'll help guard fluids from free water, airborne contamination and microbial growth for as long as they stay in storage. Always confirm the selected breather is suitable for application flow rates and tank specifications. **Consult Donaldson for assistance.**



| Mobile Tanks   |                      | Fixed Tanks to 1,000 litres |                              | Fixed Tanks over 1,000 litres |                            |
|----------------|----------------------|-----------------------------|------------------------------|-------------------------------|----------------------------|
| Part No        |                      | Part No                     |                              | Part No                       |                            |
| <b>P767025</b> | 1/2" BSP Anti-splash | <b>P566151</b>              | 1" NPT                       | <b>P923075</b>                | T.R.A.P. Breather Filter   |
| <b>P766645</b> | 3/4" BSP Anti-splash | <b>P565516</b>              | Bayonet                      | <b>P506159</b>                | T.R.A.P. Breather Assembly |
| <b>P766646</b> | 1" BSP Anti-splash   | <b>P506113</b>              | Single T.R.A.P. P&V Assembly | <b>P506063</b>                | Dual T.R.A.P. P&V Assembly |



## Why Choose Donaldson?



### PERFORMANCE

First-fit choice of leading equipment manufacturers around the world.



### INNOVATION

Continuous development of new technologies to meet changing filtration needs.



### RELIABILITY

Comprehensive warranty covering our filters and your equipment.



### QUALITY

The foundational principle driving the design, manufacture and delivery of every product.



### SUPPORT

Knowledgeable technical support specialists available in-field when you need them.



### AVAILABILITY

Innovative, reliable distribution partners providing local support.



## Quality Guaranteed!

Designed to meet or exceed OE requirements, Donaldson Filters are built to the highest standard, utilising quality materials and backed by a full aftermarket warranty.

You can always choose top-quality Donaldson filters designed specifically for your engine. As long as you change your filters according to the engine manufacturer's maintenance schedule - **using Donaldson filters will not void your engine manufacturer's warranty.**

## The Proof is in the Performance

Highest performance filtration is the best preventive maintenance for hard-working vehicles. Donaldson Filters deliver increased engine and equipment protection, extended service intervals, reduced downtime and increased operating efficiency. It all adds up to maximising your up-time across your entire operation with filtration solutions from Donaldson.



## Complete Filtration Solutions

Donaldson delivers a complete line of innovative filtration solutions, coupled with superior customer service and technical support. With unrivalled research and development, commitment to lean manufacturing and unmatched global reach, Donaldson is your best source for filtration.

From air, oil, fuel and hydraulic filters and accessories, through to dust, mist and fume collection, process filtration, gas turbine filtration and performance membranes; Donaldson's range of filtration products maximise performance and reduce maintenance for a broad range of vehicles and equipment.

Donaldson has an established global distribution network serving customers locally and globally. Our distribution centres are strategically located to quickly and accurately deliver filtration and exhaust products wherever replacement products are needed.



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### Brochure No. F111650 Fuel Filter Kits for HPCR and Bulk Fuel Tanks (02/22)

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