

# Bulk Diesel Skid | BDS

*\*Coalescing Elements Patent Pending*

## Introduction

The BDS Bulk Diesel Coalescing Skid is a highly effective method to remove particulate and water from diesel fuels stored in bulk fuel tanks. Water is typically introduced into the fuel supply by condensation. Water in a vehicle fuel system can reduce lubricity, causing seizure of close tolerance parts and increased wear. Water in fuel storage tanks causes rust and promotes microbial growth. Microbial growth in fuel storage systems begins in free water at the tank bottom and can quickly migrate through the fuel. In warm weather, microbial "blooms" can quickly overwhelm and bypass fuel filters, causing contamination to reach the fuel injectors. Today's high pressure fuel injector systems have tighter tolerances, and require complete water removal to minimize wear related failures. The BDS will protect critical equipment and components.

The BDS is capable of handling flows up to 70 gpm, and is ideal for bulk fuel filtration and power generation applications.

The Schroeder coalescing units are rated at 99.5% single pass efficiency, and are capable of removing free water and particulate matter from the following petroleum based fuels: ULSD 15 (and similar petroleum fuels), biodiesel and all blends, along with synthetic diesel and all blends.



BDS39QPMLZ3VVM

## Technical Data

**Flow Rating:** Up to 70 gpm (265 L/min)

**Maximum Operating Pressure:** 100 psi (7 bar), 45 psi (3 bar) with water sight gauge

**Minimum Yield Pressure:** 400 psi (27.6 bar) without water sight gauge. Contact Factory for use with sight gauge.

**Rated Fatigue Pressure:** Contact Factory

**Temperature Range:** -20°F to 165°F (-29°C to 74°C) standard, 32°F to 165°F (0°C to 74°C) with sight gauge

**Bypass Setting:** Cracking 30 psi (2 bar)

**Porting Base:** Anodized Aluminum

**Element Case:** Plated Steel

**Cap:** Plated Steel

**Weight:** 441 lbs. (200 kg)

**Element Change Clearance:** 33.8" (858 mm)

**Schroeder**  
**INDUSTRIES**

Advanced Fluid Conditioning Solutions®

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## Features

- 99.5% Single-Pass Efficiency
- New fuel/water separation media technology in a three-phase element construction for high efficiency, single-pass removal of free-water in today's Ultra-low Sulfur Diesel ( ULSD) and biodiesel fuels
- Particulate filtration down to 1 or 3 microns utilizing Excellement® synthetic Z-Media® element
- Prior generation coalescing products no longer provide high-efficiency separation in ULSD and biofuels
- Helps protect expensive, vital engine components against failures caused by water transferred from the bulk fuel tanks to the vehicle
- Separates emulsified or finely dispersed water from fuel
- For use in single-pass fuel dispensing or multi-pass reservoir clean up and continuous maintenance
- Built-in dirt alarm to show when element needs to be replaced
- Manual water drains and up and downstream test points

## Optional Equipment

- Sight gauge on coalescing filter
- Water sump heater
- Automatic water drain with 5 or 20 gallon tank
- Cla-Val® flow control valve
- Higher flow rates available:
  - BDS2: 140 gpm
  - BDS3: 210 gpm
  - BDS4: 280 gpm

## Markets

- Industrial
- Power Generation
- Bulk Oil Filtration
- Mining
- Agriculture