Bulk Diesel Cart

*Coalescing Elements Patent-Pending



Applications







UNLOADING

HIGH-FLOW FUEL



KIDNEY LOOP

Application Introduction:

The Reason for Better Bulk Fuel Filtration

The BDC provides exceptional single pass or kidney loop diesel particulate filtration and continuous water removal. All 3 filters combine Schroeder's fully synthetic media and patent-pending fuel water separation technology. The BDC is ideal for fuel maintenance operations.

Features and Benefits

- Great for kidney loop clean-up and single pass transfer of diesel fuel in larger storage tanks
- Incorporates a bag element pre-filter, available from 1 to 200 micron, for gross removal of microbial bloom contamination and rust
- Fuel and water separation media technology in a three-phase element construction for high efficiency, single-pass removal of emulsified and free-water in Ultra-low Sulfur Diesel (ULSD) and biodiesel fuels
- Designed because prior generation coalescing methods no longer provide high-efficiency separation in ULSD and biodiesel
- Real time fuel condition monitoring can be achieved while using the supplied test points and one of our contamination sensing products
- Pump motor is 115VAC with re-settable overload and 7' power cord for 25 gpm models and available as 220V Single Phase, 230V Three Phase, or 460V Three Phase for 70 gpm models
- Helps protect expensive, vital engine components against failures caused by contaminated fuel



Model no. of filter in photograph is: BDC39QPMLZ3VAVM

Markets



INDUSTRIAL



POWER GENERATION



MOBILE **VEHICLES**





COMMON RAIL INJECTOR SYSTEMS



MARINE



FLEET



MINING **TECHNOLOGY**





AGRICULTURE



BULK FUEL FILTRATION

25 or 70 gpm ICF

95 or 275 L/min





Bulk Diesel Cart

Filter Housing Specifications

Flow Rating: Up to 25 gpm (95 L/min) or 70 gpm (265 L/min) for ULSD15 & biodiesel blends

Temperature Range: 32°F to 150°F (0°C to 66°C) standard and with AWD option

-20°F to 150°F (-29°C to 66°C) with heater option

Bypass Indication: Particulate Filter **Coalescing Filter**

> Particulate: 15 psi (1.03 bar) Coalescing: 25 psi (1.7 bar)

Bypass Valve Cracking: Particulate Filter **Coalescing Filter**

> Particulate: 20 psi (1.37 bar) Coalescing: 30 psi (2 bar)

Materials of Construction: Porting Base: Anodized Aluminum

Cap: Plated Steel

Bag Housing: 304 Stainless Steel

Particulate Filter Housing: Epoxy Paint w/ High-phos Electroless Nickel Plating

(Standard)

Coalescing Filter Housing: Epoxy Paint w/ High-phos Electroless Nickel Plating (Standard)

Weight: 25 gpm model - 785 lbs. (356 kg), 70 gpm model - contact factory

Element Change Clearance: 33.8" (858 mm)

Operating Frequency*: 60 Hz

Operating Phase*: Single

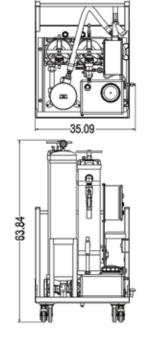
Full Load Amperage 13.4 A @ 115 VAC @ Operating Voltage*: 7.2-6.7 A @ 208-230 VAC

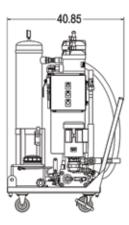
Service Factor Amperage 15.2 A @ 115 VAC @ Operating Voltage*: 8.1-7.6 A @ 208-230 VAC

33.00

*For 25 gpm models only. For electrical on 70 gpm models, Contact Factory.

AWD Version





Dimensions shown are inches [millimeters] for general information and overall envelope size only. For complete dimensions please contact Schroeder Industries to request a certified print.

Bulk Diesel Cart BDC



Filtration Ratio per ISO 16889

Using APC calibrated per ISO 11171

Particulate Elements	DHC	β_{x} (c) ≥ 200	β_{x} (c) ≥ 1000
39QPMLZ1V	1485 grams	<4.0	4.2
39QPMLZ3V	1525 grams	<4.0	4.8

Element Particulate Performance

Element Water **Coalescing Performance** Information Particulate and Coalescing

Highlighted

with Cart

QuickDelivery

BDC

Optional Replacement PD

Highlighted product eligible for

Information

Elements Sold

product eligible for

Elements

QuickDelivery

Coalescing Element	Pressure Side Coalescing		
	Max Flow	Single Pass Water Removal Efficiency	
C396Z5V	70 gpm	≥ 99.5%	

Note:

Based on ULSD15 with 27 Dynes/cm surface tension and 0.25% (2500 ppm) water injection

Coalescing Element

Flow Direction: Inside Out

Element Nominal Dimensions: 6.4" (163 mm) O.D. x 39.4" (1001 mm) long

Particulate Element

Flow Direction: Outside In

Element Nominal Dimensions: 6.0" (150 mm) O.D. x 37.8" (960 mm) long

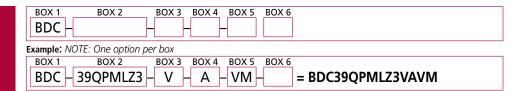
Part Number	Description	Micron Rating	Elements Per Case
C396Z5V	Coalescing Element	5 μm	1
39QPMLZ1V	Particulate Element	1 μm	1
39QPMLZ3V	Particulate Element	3 μm	1
PEF5P2PH	Bag Element	5 μm	50
PEF25P2PH	Bag Element	25 μm	50
PEF50P2PH	Bag Element	50 μm	50
PEF100P2PH	Bag Element	100 μm	50



Bulk Diesel Cart

Filter Model Number Selection

Highlighted product eligible for wickDelivery





NOTES:

Optional AWD is for use only >32°F (0°)

For 50Hz applications, contact factory

Box 3. Viton® is a registered trademark of DuPont Dow Elastomers

Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171

Particulate Elements	DHC	β_{x} (c) ≥ 200	β_{x} (c) ≥ 1000
39QPMLZ1V	1485 grams	<4.0	4.2
39QPMLZ3V	1525 grams	<4.0	4.8

70C = 70 gpm 460VAC Three Phase 60 Hz

Coalescing Element	Pressure Side Coalescing		
	Max Flow	Single Pass Water Removal Efficiency	
C396Z5V	70 gpm	> 99.5%	

Note:

Based on ULSD15 with 27 Dynes/cm surface tension and 0.25% (2500 ppm) water injection

Coalescing Element

Flow Direction: Inside Out

Element Nominal Dimensions: 6.4" (163 mm) O.D. x 39.4" (1001 mm) long

Particulate Element

Flow Direction: Outside In

Element Nominal Dimensions: 6.0" (150 mm) O.D. x 37.8" (960 mm) long

Fluid Compatibility

Element

Part Number Selection

Highlighted product eligible for Quick Delivery

Fuel Oils

- ULSD15, low sulfur diesel and high sulfur diesel
- Biodiesel blends
- Synthetic diesel and blends
- No. 2 fuel oil and heating oil