Bulk Diesel Filtration Panel BDFP

Applications


POINT OF USE FUEL DISPENSING


FLEET FILL / BULK FUEL TRANSFER


BULK FUEL UNLOADING

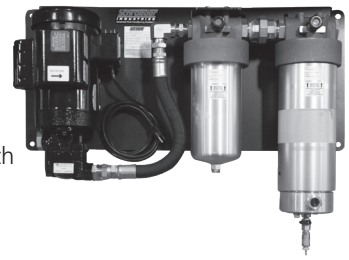

PROTECTION FOR HIGH-FLOW FUEL INJECTION SYSTEMS


BULK TANK KIDNEY LOOP / RECIRCULATION

Application Introduction:

A simple turn-key stationary fuel filtration system

The BDFP provides a simple turn-key stationary fuel filtration system for exceptional fuel transfer, polishing, and dispensing applications. Both filters combine Schroeder's fully synthetic Z-Media® in a particulate pre-filter, the GHPF, with our patent-pending coalescing water removal filter, the GHCF, to fully protect vital diesel engine components from dirt and water. The BDFP provides premium filtration in a simple system which can easily be integrated into new and existing fuel storage systems.



Model no. of filter in photograph is: BDFP11GGZ3CH5VD514

Features and Benefits

- Turn-key coalescing and filtration system, for use as a fuel transfer, polishing, and dispensing solution
- Incorporates high-efficiency particulate and water removal filtration into a stationary mounted system with pump
- Available with either electrical or air operated pump options for more system flexibility
- GHPF and GHCF filter housings use patented GeoSeal® elements
- All-aluminum filter housings are fully compatible with diesel and biodiesel
- Minimal clearance needed for element service, ideal for enclosure installations
- Routine element change only needed on GHPF particulate filter, reducing operating cost
- Patent-pending, three-phase particulate, coalescing and fuel/water separation media technology
- A revolutionary element designed for the highest single-pass water and particulate removal efficiencies in today's ultra-low sulfur diesel (ULSD) fluids
- Protects expensive Tier III and Tier IV engine components against failures caused by particulate and water transferred from the fuel storage tanks to the equipment
- Allows users to achieve or exceed the particulate and water removal specifications of the injection system OEMs

Markets


INDUSTRIAL


MOBILE VEHICLES


MARINE


MINING TECHNOLOGY


AGRICULTURE


POWER GENERATION


COMMON RAIL INJECTOR SYSTEMS


FLEET


RAILROAD


BULK FUEL FILTRATION

14 or 25 gpm

53 or 95 L/min

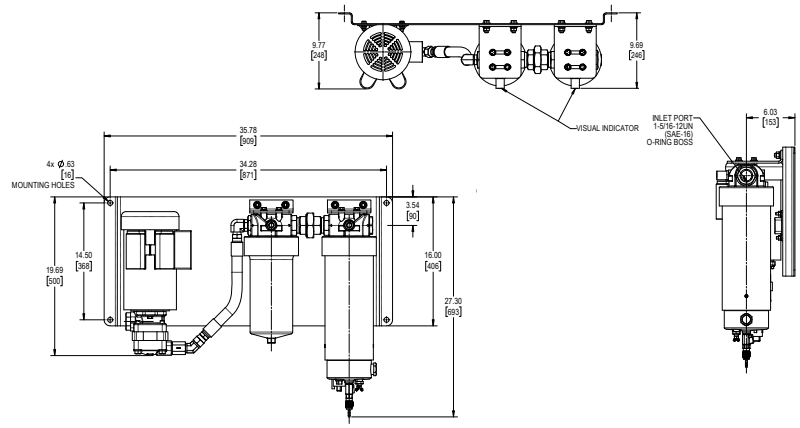
BDFP Bulk Diesel Filtration Panel

Filter Housing Specifications

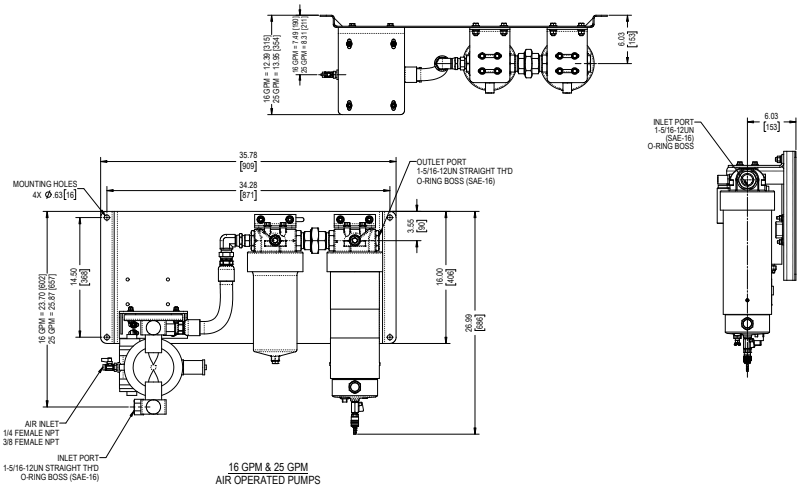
Flow Rating:	Electric Motor Option: 14 gpm or 25 gpm (53 or 95 L/min) Air Operated Option: 16 or 25 gpm (53 or 95 L/min)	
Ambient Temperature Range:	32°F to 104°F (0°C to 40°C) Standard; -20°F to 140°F (-29°C to 40°C) Heater Option	
Bypass Indication:	Particulate Filter Electric Motor: 35 psi (2.4 bar) Air Operated: 25 psi (1.7 bar)	Coalescing Filter Electric Motor: 35 psi (2.4 bar) Air Operated: 15 psi (1.0 bar)
Bypass Valve Cracking:	Particulate Filter Electric Motor: 40 psi (2.8 bar) Air Operated: 30 psi (2.1 bar)	Coalescing Filter Electric Motor: 40 psi (2.8 bar) Air Operated: 20 psi (1.4 bar)
Materials of Construction:	Particulate Filter Porting Head: Cast Aluminum, Anodized Element Bowl: Aluminum, Anodized	Coalescing Filter Porting Head: Cast Aluminum, Anodized Element Bowl: Aluminum, Anodized Sump: Cast Aluminum, Anodized
Weight:	130 - 150 lbs. (59 - 68 kg)	
Element* Change Clearance:	GHPF: 2" (51 mm) GHCF: 4" (102 mm)	
Operating Frequency:	60 Hz	
Operating Phase:	Single	
Full Load Amperage @ Operating Voltage:	13.4 A @ 115 VAC 7.2-6.7 A @ 208-230 VAC	
Service Factor Amperage @ Operating Voltage:	15.2 A @ 115 VAC 8.1-7.6 A @ 208-230 VAC	

*Elements sold with the filter system

Electric Motor Option



Air Operated Option



Metric dimensions in ( ).
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.

Element Particulate Performance Information

Particulate Elements	DHC(g)	Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171 β_x (c) ≥ 200	β_x (c) ≥ 1000
11GGZ1V	172	<4.0	4.2
11GGZ3V	148	<4.0	4.8

Element Water Coalescing Performance Information

Coalescing Element	Pressure Side Coalescing	
	Max Flow	Single Pass Water Removal Efficiency
C125GZ5V	25 gpm	≥ 95%

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

Particulate Element
Flow Direction: Outside In
Element Nominal Dimensions: 5.0" (27 mm) O.D. x 11" (279 mm) long

Coalescing Element
Flow Direction: Inside Out
Element Nominal Dimensions: 5.0" (27 mm) O.D. x 12" (305 mm) long

Particulate and Coalescing Elements Sold with System

Highlighted product eligible for QuickDelivery

Notes

BDFP Bulk Diesel Filtration Panel

Filter Model Number Selection

Highlighted product eligible for QuickDelivery

How to Build a Valid Model Number for a Schroeder BDFP Supplied with Elements:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
BDF							

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	
BDF	P	11GGZ3	CG5	V	D5		14	= BDFP11GGZ3CG5VD514

BOX 1 — Filtration

BDF

BOX 2 — Configuration

P = Panel Mount

BOX 3 — Particulate Filtration

11GGZ1 = 1 µm
11GGZ3 = 3 µm

BOX 4 — Coalescing Filtration

CG5 = C125GZ5V Coalescing Element

BOX 5 — Seal Material

V = Viton®

BOX 6 — Dirt Alarm®

D5 = Visual Pop-up, Manual Reset

BOX 7 — Options

Omit = Sight Glass (standard)
U = Downstream Test Point
T = Water-In-Fuel (WIF) sensor only
I = WIF sensor w/ remote mount light indicator
H = Coalescing sump heater
S5 = 5 gal. sump tank*
S20 = 20 gal. sump tank*
AWD5 = Auto. water drain w/ 5 gal. remote tank*
AWD20 = Auto. water drain w/ 20 gal. remote tank*

BOX 8 — Pump Sizing and Configuration

14 = 14 gpm 120VAC 60Hz Single-Phase
25 = 25 gpm 120VAC 60Hz Single-Phase
16 = 16 gpm Air Driven Pump
25A = 25 gpm Air Driven Pump

*only to be used in applications above 32°F (0°C)

NOTES:
For configurations not listed, please contact factory

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

Box 7. Only box that will allow a combination of options.

Element Part Number Selection

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Fluid Compatibility

Fuel Oils

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