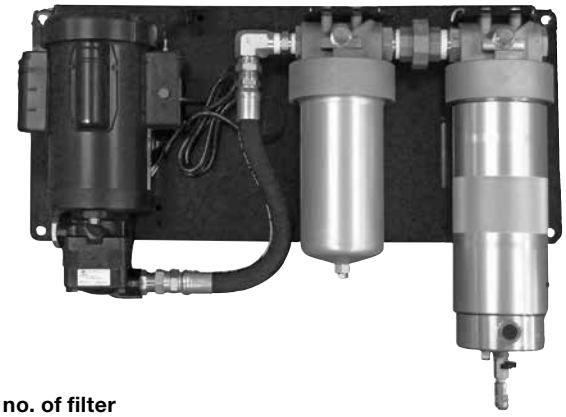
BDFP Series

Bulk Diesel Filtration Panel
Up to **25 gpm**



Model no. of filter in photograph is: BDFPG03CG5VVM14

Description:

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 HYDAC's fully synthetic filter 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.

Features

- 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 3 and Tier 4 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

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

Technical 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)	
Fluid Temp. Range	32°F to 104°F (0°C to 40°C) Standard -20°F to 104°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 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: 4.5" (114 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	

Markets:

- Industrial
- Power Generation
- Bulk Fuel Filtration
- Mining Technology
- Railroad
- Marine
- Fleet
- Mobile Vehicles
- Agriculture
- Common Rail Injector Systems

Model Code

BDF – P – Gxx – CG5 – V – VM – H – 14

Filter Series
BDF = Bulk Diesel Particulate and Coalescing Filtration

Configuration
P = Plate Mounted

Particulate Filtration
G01 = 1 µm Betamicron
G03 = 3 µm Betamicron

Coalescing Filtration
CG5 = C125GZ5V Coalescing Element

Sealing Material
V = Fluorocarbon Elastomer (FKM)

Element Change Indicator
VM = Visual Pop-up, Manual Reset

Options
Omit = Sight Glass (standard)
U = Downstream test point
T = WIF Sensor Only
I = WIF Sensor with Indicator Lamp
H = Sump Heat
S5 = Manual Water Drain with 5 gallon Collection Tank
S20 = Manual Water Drain with 20 gallon Collection Tank
AWD5 = Auto Water Drain w/ 5 Gallon Collection Tank
AWD20 = Auto Water Drain w/ 20 Gallon Collection Tank

Pump/Motor Configuration
14 = 14 gpm 120VAC 60Hz Single Phase
25 = 25 gpm 120VAC 60Hz Single Phase
16A = 16 gpm Air Driven Pump
25A = 25 gpm Air Driven Pump

Element Particulate Performance

Particulate Elements	DHC	Filtration Ratio Per ISO 16889 Using automated particle counter (APC) calibrated per ISO 11171	
		$ß_x(c) \geq 200$	$ß_x(c) \geq 1000$
5.40.11 D 01 BN4 /-V-G	172 grams	<4.0	4.2
5.40.11 D 03 BN4 /-V-G	148 grams	<4.0	4.8

Element Water Coalescing Performance

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

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

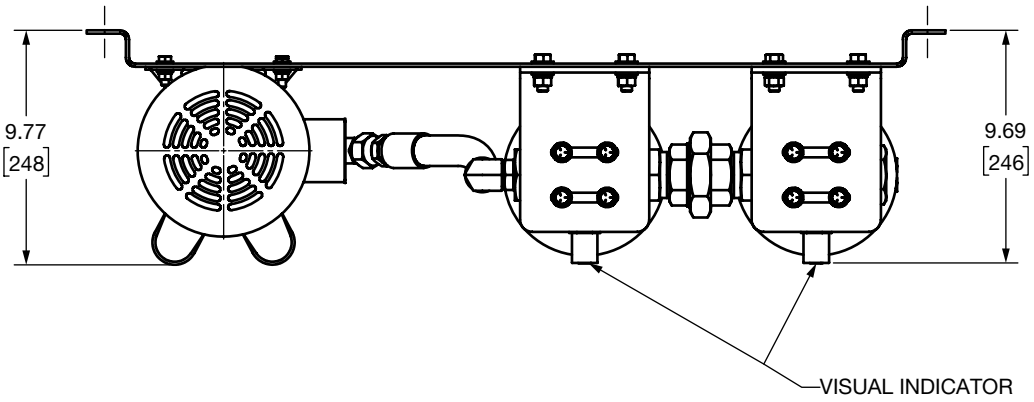
Particulate Element
Flow Direction: Outside In
Element Nominal Dimensions: 5.0” (27 mm) O.D. x 11” (279 mm) long

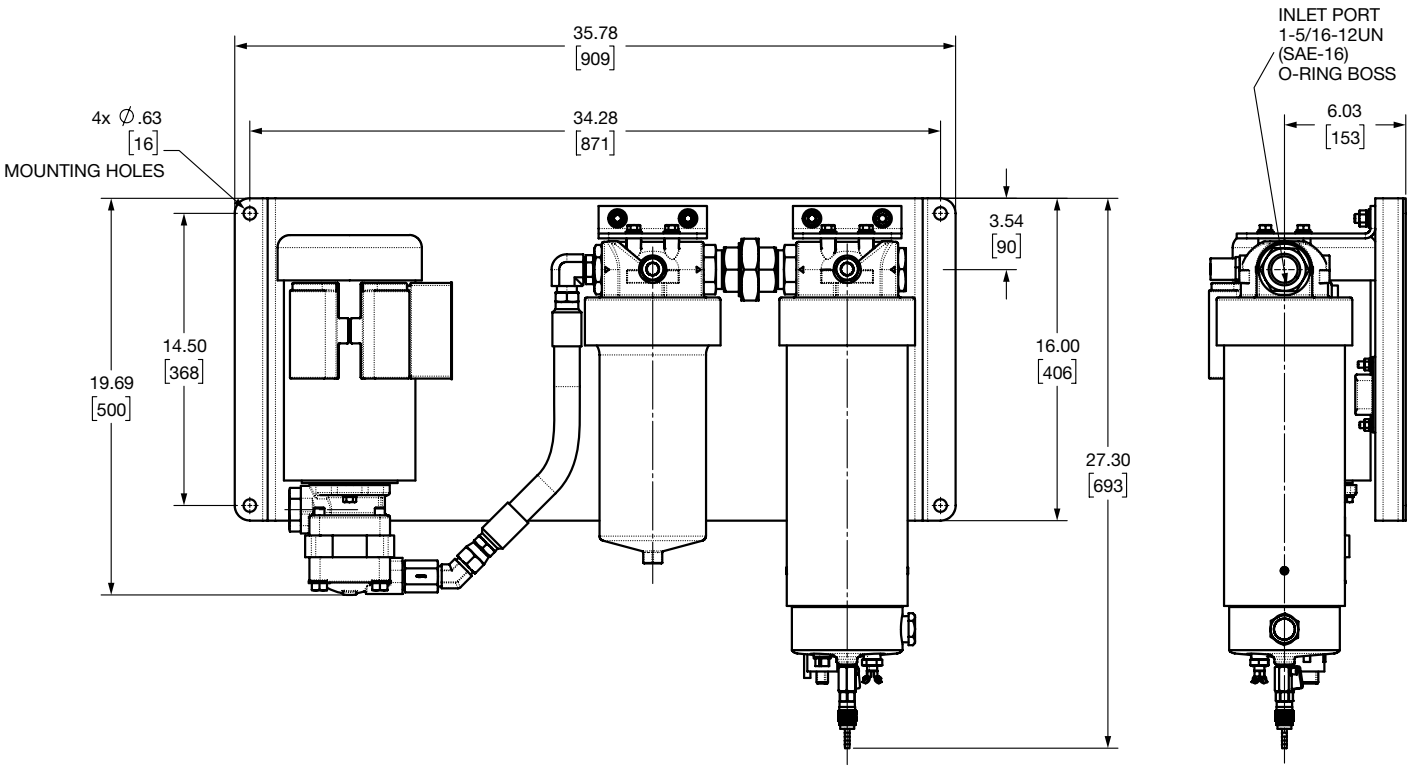
Coalescing Element
Flow Direction: Inside Out
Element Nominal Dimensions: 5.0” (27 mm) O.D. x 12” (305 mm) long

Fuel Oils

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

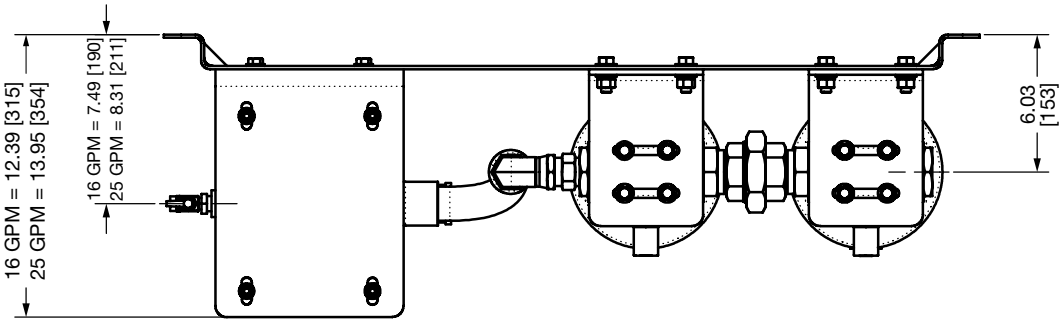
Dimensions
BDFP - Electric Motor Option

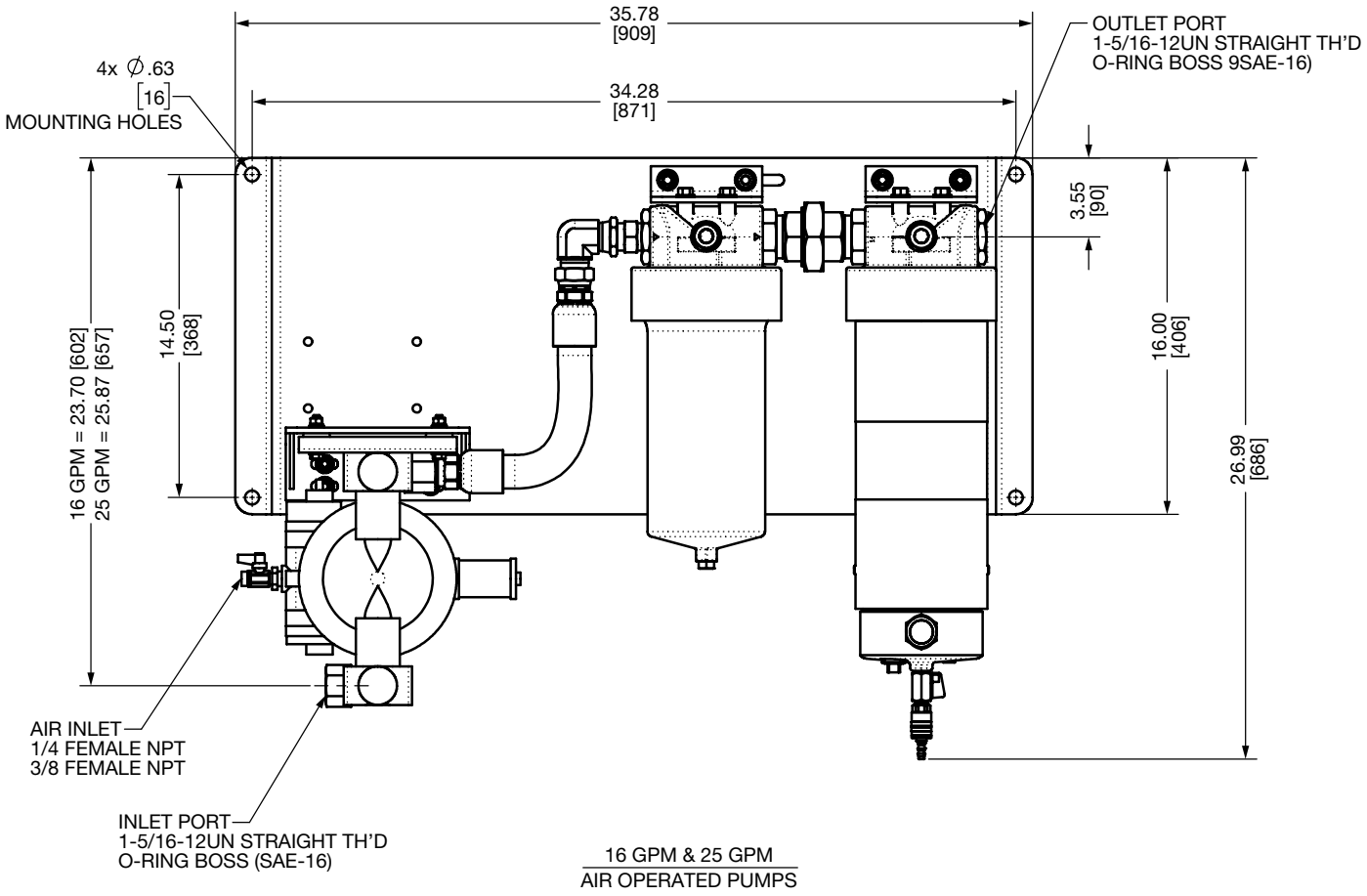




Dimensions shown are inches [millimeters] and for general information only. For complete dimensions please contact HYDAC to request a certified print.

Dimensions
BDFP - Air Operated Option





16 GPM & 25 GPM
AIR OPERATED PUMPS

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