GeoSeal® High-Flow Particulate Filter GHPF

100 gpm 380 Ľ/min

150 psi

Applications





UNLOADING





10.3 bar

Features and Benefits

- Diesel fuel particulate filter for dispensing, transfer or polishing filtration applications
- Uses patented GeoSeal® elements
- All-aluminum filter housing is fully compatible with diesel and biodiesel
- Minimal clearance needed for element service, ideal for enclosure installations
- Cartridge style element improves performance and reduces waste compared to spin-on solutions
- Port to port and mounting pattern dimensions match standard spin-on assembly



Model No. of filter in photograph is: GHPF11GGZ3VS24D5R

Flow Rating: Up to 100 gpm (380 L/min)

Max. Operating Pressure: 150 psi (10.3 bar) Min. Yield: 2600 psi (179 bar)

Temp. Range: -20°F to 225°F (-29°C to 107°C)

Bypass Setting: Cracking: 40 psi (2.8 bar) Porting Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized

Weight of GHPF: 7.64 lbs. (3.47 kg)

Element Change Clearance: 2" (51 mm)

Filter Housing **Specifications**

Markets



INDUSTRIAL



GENERATION



MOBILE



COMMON RAIL INJECTOR SYSTEMS





FLEET



MINING **TECHNOLOGY**



RAILROAD



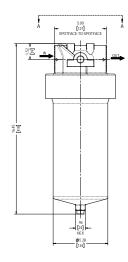
AGRICULTURE

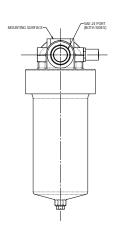


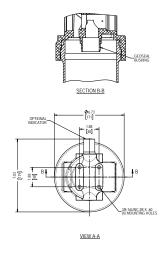
FILTRATION



GeoSeal® High-Flow Particulate Filter







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 Performance Information

		Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171		
Media Type	Element	$\beta_{x}(c) \geq 200$	$\beta_{x}(c) \geq 1000$	
Traditional	11GGZ1V 11GGZ3V	<4.0 4.6	4.5 5.8	
Excellement®	11GGZ5V	5.9	7.8	
Z-Media®	11GGZ10V 11GGZ25V	11.4 15.8	13.2 17.5	

Dirt Holding Capacity

Media Type	Element	DHC (gm)
Traditional Excellement® Z-Media®	11GGZ1V 11GGZ3V 11GGZ5V 11GGZ10V 11GGZ25V	172 148 174 165 164

Element Collapse Rating: 150 psid (10.3 bar) for standard and non-bypassing elements

Flow Direction: Outside In

Element Nominal

Dimensions: 11GG: 5" (127 mm) O.D. x 11" (305 mm) long

GeoSeal® High-Flow Particulate Filter GHPF

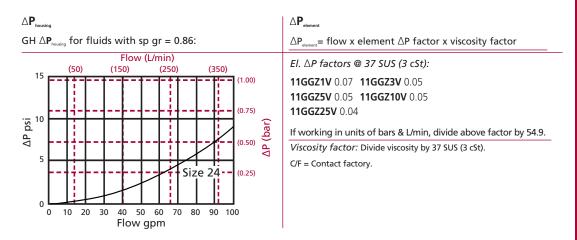


Diesel Fuel and Biodiesel (B100).

For other Distillate Petroleum, Contact Factory.

Pressure	Series	Element Part No.	D	lement selections piesel Fuel and Bio 2.8 bar) bypass va	diesel (B100)			
		11GGZ1V		11GGZ1V				
		11GGZ3V		11GGZ3V				
Z- Media®	Z- Media®	11GGZ5V			11GG	iZ5V		
Media		11GGZ10V		11GGZ10V				
		11GGZ25V		11GGZ25V				
Flow		gpm	0	20	40	60	80	100
		(L/min)	0	50	150	2	50	380

Shown above are the elements most commonly used in this housing.



sp gr = specific gravity

Sizing of elements should be based on element flow information provided in the Element Selection chart above.

Notes			

$$\Delta \mathbf{P}_{\text{filter}} = \Delta \mathbf{P}_{\text{housing}} + \Delta \mathbf{P}_{\text{element}}$$

Determine $\triangle P$ at 80 gpm (303 L/min) for GHPF11GGZ3VS24D5R using 37 SUS (3 cSt) fluid.

Solution:

 $\Delta P_{\text{housing}} = 6.0 \text{ psi } [0.41 \text{ bar}]$

$$\triangle P_{\text{element}} = 80 \times 0.05 \times (37 \div 37) = 4.0 \text{ psi}$$

= $[303 \times (0.05 \div 54.9) \times (3 \div 3) = 0.28 \text{ bar}]$

$$\Delta P_{\text{total}}$$
 = 6.0 + 4.0 = 10.0 psi
or
= [0.41 + 0.28 = 0.69 bar]

Fluid **Compatibility**

Element Selection





Flow Rate and Viscosity

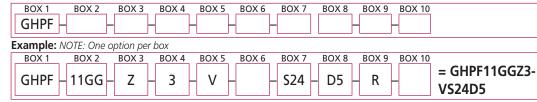


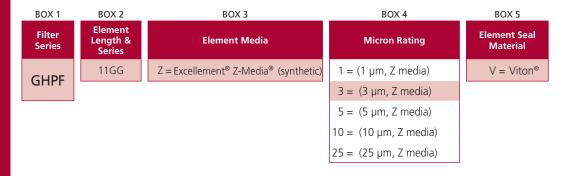
GeoSeal® High-Flow Particulate Filter

Filter Model Number Selection

Highlighted product eligible for wick Delivery









BOX 9	BOX 10		
Indicator Orientation	Options		
R = Right Side	Omit = None		
L = Left Side	U = Downstream Test Point		

NOTES:

Box 2. Replacement element part numbers are a combination of Boxes 2, 3, 4 and 5.

Box 9. As viewed in the direction of the fluid flow from inlet to outlet.