

## Applications



FLEET FILL / BULK FUEL TRANSFER



BULK FUEL UNLOADING



PROTECTION FOR HIGH-FLOW FUEL INJECTION SYSTEMS



BULK TANK KIDNEY LOOP / RECIRCULATION

## 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)

## Markets



INDUSTRIAL



MOBILE VEHICLES



MARINE



MINING TECHNOLOGY



AGRICULTURE



POWER GENERATION



COMMON RAIL INJECTOR SYSTEMS



FLEET



RAILROAD



BULK FUEL FILTRATION

100 gpm ICF  
380 L/min BDF

150 psi BDFA  
10.3 bar BDA

**GHPF**

GHCF

QCF

BDS

BDS2

BDS3

BDS4

LVH-F

LVH-C

BDFC

## Filter Housing Specifications

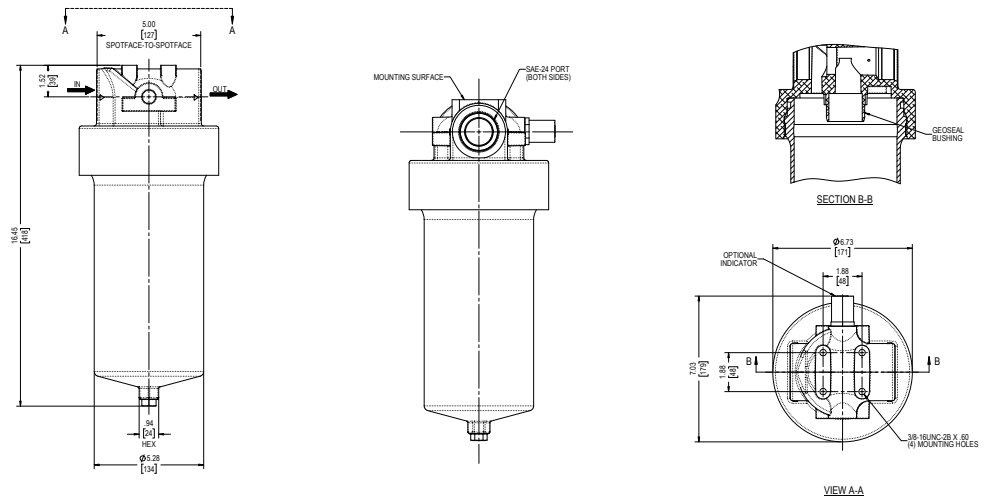
BCFP

BDC

HDP

HDPD

BCC



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

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

## Dirt Holding Capacity

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

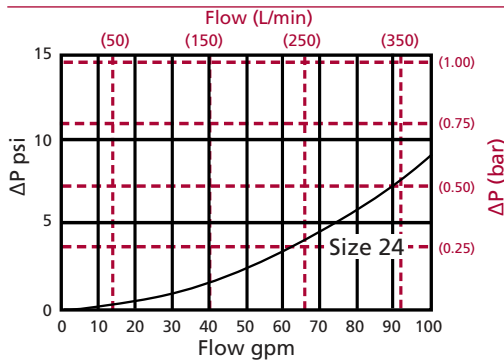
Fluid Compatibility ICF  
DF

Pressure	Series	Element Part No.	Element selections are predicated on the use of 37 SUS (3 cSt) Diesel Fuel and Biodiesel (B100), SAE-24 porting, and a 40 psi (2.8 bar) bypass valve.					
	Z-Media®	11GGZ1V	11GGZ1V					
		11GGZ3V	11GGZ3V					
		11GGZ5V	11GGZ5V					
		11GGZ10V	11GGZ10V					
		11GGZ25V	11GGZ25V					
Flow		gpm	0	20	40	60	80	100
		(L/min)	0	50	150	250	380	

Element Selection BDA  
Based on Flow Rate **GHPF**

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

$\Delta P_{\text{housing}}$   
GH  $\Delta P_{\text{housing}}$  for fluids with sp gr = 0.86:



$\Delta P_{\text{element}}$   
 $\Delta P_{\text{element}} = \text{flow} \times \text{element } \Delta P \text{ factor} \times \text{viscosity factor}$

El.  $\Delta P$  factors @ 37 SUS (3 cSt):

11GGZ1V 0.07 11GGZ3V 0.05  
11GGZ5V 0.05 11GGZ10V 0.05  
11GGZ25V 0.04

If working in units of bars & L/min, divide above factor by 54.9.

Viscosity factor: Divide viscosity by 37 SUS (3 cSt).

CF = Contact factory.

Pressure Drop Information LVH-F  
Based on Flow Rate and Viscosity LVH-C

sp gr = specific gravity

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

Notes

$$\Delta P_{\text{filter}} = \Delta P_{\text{housing}} + \Delta P_{\text{element}}$$

**Exercise:**

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

**Solution:**

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

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

or

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

$$\Delta P_{\text{total}} = 6.0 + 4.0 = 10.0 \text{ psi}$$

or

$$= [0.41 + 0.28 = 0.69 \text{ bar}]$$

BDFS  
BDS2  
BDS3  
BDS4  
BDFC  
BDFP  
BDC  
HDP  
HDPD  
BCC

## Filter Model Number Selection

Highlighted product eligible for **QuickDelivery**

### How to Build a Valid Model Number for a Schroeder GHPF:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10
GHPF									

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10
GHPF	11GG	Z	3	V		S24	D5	R	

= GHPF11GGZ3-VS24D5

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
<b>Filter Series</b>	<b>Element Length &amp; Series</b>	<b>Element Media</b>	<b>Micron Rating</b>	<b>Element Seal Material</b>
GHPF	11GG	Z = Excellement® Z-Media® (synthetic)	1 = (1 µm, Z media) 3 = (3 µm, Z media) 5 = (5 µm, Z media) 10 = (10 µm, Z media) 25 = (25 µm, Z media)	V = Viton®

BOX 6	BOX 7	BOX 8
<b>Bypass Setting</b>	<b>Inlet Port</b>	<b>Dirt Alarm® Options</b>
Omit = 40 psid	S24 = SAE-24 P24 = 1.5" NPTF	Visual   D5 = Visual pop-up w/manual reset

BOX 9	BOX 10
<b>Indicator Orientation</b>	<b>Options</b>
R = Right Side L = Left Side	Omit = None 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.