

Applications



POINT OF USE
FUEL DISPENSING



FLEET FILL / BULK FUEL
TRANSFER



BULK FUEL
UNLOADING



DATA CENTER
GENERATOR



BULK TANK
KIDNEY LOOP /
RECIRCULATION

Features and Benefits

- Versatile diesel fuel coalescing filter suitable for both pressure and suction side applications, including:
 - Large engine primary fuel filtration
 - Bulk fuel dispensing
 - Transfer filtration
 - Tank polishing
- Uses patented GeoSeal® elements
- All-aluminum filter housing is fully compatible with diesel and biodiesel blends
- Minimal clearance needed for element service, ideal for enclosure installations
- Cartridge style element improves performance and reduces waste compared to spin-on solutions
- A compact design with reduced dimensions compared to similar cartridge filter and spin-on solutions on the market



Model No. of filter in photograph is:
GHCFCG5VS24D5R

Flow Rating:	For Pressure Installations - Up to 25 gpm (95 L/min) For Suction Installations - Up to 900 gph (Up to 3410 L/hr [57 L/min])
Max. Operating Pressure:	150 psi (10.3 bar)
Min. Yield:	1189 psi (82 bar)
Temp. Range:	32°F to 225°F (0°C to 107°C) Standard; -20°F to 225°F (-29°C to 107°C) Heater Option
Bypass Setting:	For Pressure Installations - 40 psi (2.8 bar) For Suction Installations - Blocked Bypass
Porting Head:	Cast Aluminum, Anodized
Element Case:	Aluminum, Anodized
Sump:	Cast Aluminum, Anodized
Weight of GHCF:	19.45 lbs. (8.82 kg)
Element Change Clearance:	4.5" (114 mm)

Markets



INDUSTRIAL



MOBILE
VEHICLES



MARINE



MINING
TECHNOLOGY



AGRICULTURE



POWER
GENERATION



COMMON RAIL
INJECTOR SYSTEMS



FLEET



RAILROAD



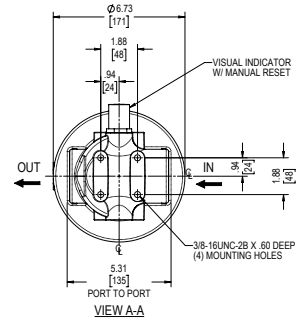
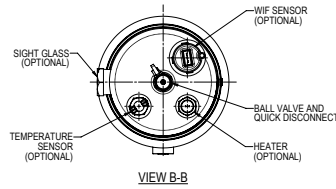
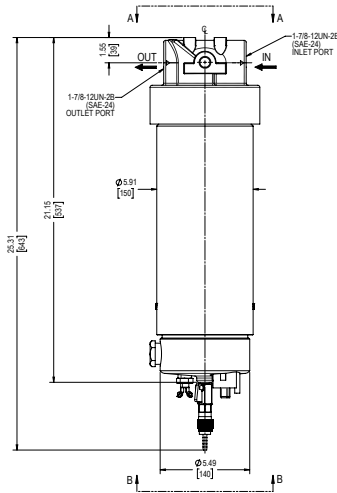
BULK FUEL
FILTRATION

25 gpm
95 L/min
for pressure installations
15 gpm
(900 gph)
3410 L/hr
(57 L/min)
for suction installations
150 psi
10.3 bar

ICF
BDF
BDA
GHPF
GHCF

Filter Housing Specifications

QCF
BDS
BDS2
BDS3
BDS4
LVH-F
LVH-C
BDFC
BDFP
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.

Coalescing Element	Performance	
	Recommended Flow	Single Pass Water Removal Efficiency
C125GZ5V	25 gpm	> 95%

Flow Direction: Inside Out

Element Nominal Dimensions: 5" (127 mm) O.D. x 12" (305 mm) long

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

*NOTE: Efficiency based on ULSD15 with 15-19 mN/m IFT (interfacial tension) and 2500 ppm water injection. Discharge water concentration of <200 ppm undissolved water.

**Filter
Element
Selection
Coalescing
Element
Performance
Information**
 Elements Sold
Separately

**Fluid
Compatibility**

Ultra-Low Sulfur Diesel (ULSD15)
 Low Sulfur Diesel (LSD500)
 Biodiesel Blends of Up to 20% (B20)
 Synthetic (GTL) and Renewable Diesel Fuel (HVO)
 Other Light Distillate Petroleum with a Flash Point of >125°F (52°C)

For other fluids, contact factory.

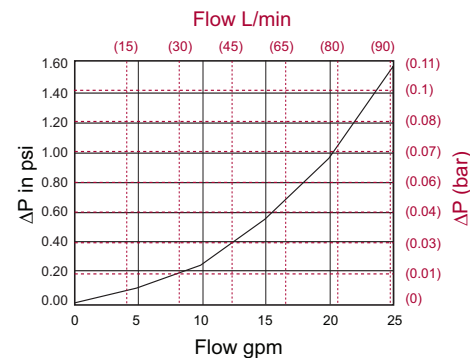
GeoSeal® High-Flow Coalescing Filter



*Coalescing Elements Patent-Pending

$\Delta P_{\text{housing}}$

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



sp gr = specific gravity

Notes

$\Delta P_{\text{element}}$

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

Element ΔP factors @ 37 SUS (3 cSt).

C125GZ5V = 0.098

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

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

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

Exercise: Determine ΔP at 25 gpm (95 L/min) for GHCF5V

Solution:

$$\Delta P_{\text{housing}} = 1.6 \text{ psi} [0.11 \text{ bar}]$$

$$\Delta P_{\text{coalescing element}} = 25 \times 0.098 = 2.5 \text{ psi} [0.17 \text{ bar}]$$

$$\Delta P_{\text{total}} = 1.6 + 2.5 = 4.1 \text{ psi} [0.28 \text{ bar}]$$

Pressure Drop Information Based on Flow Rate and Viscosity

ICF

BDF

BDA

GHPF

GHCF

QCF

BDS

BDS2

BDS3

BDS4

LVH-F

LVH-C

BDFC

BDFP

BDC

HDP

HDPD

BCC

Highlighted product eligible for QuickDelivery

Filter Model Number Selection

Highlighted product eligible for **QuickDelivery**

How to Build a Valid Model Number for a Schroeder GHCF:

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

Example: NOTE: One option per box

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
GHCF	CG5	V		S24	D5	R	

= GHCFCG5VS24D5R

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Filter Series	Coalescing Filtration	Element Seal Material	Bypass Setting	Inlet Port
GHCF	CG5 = C125GZ5V Coalescing Element	V = Viton®	Omit = 40 psid X = Blocked Bypass	S24 = SAE-24 P24 = 1.5" NPTF

BOX 6
Dirt Alarm® Options
D5 = Visual pop-up w/manual reset Omit = Blocked Indicator Ports (both)

BOX 7
Indicator Orientation
R = Right Side L = Left Side Omit = None (Blocked Indicator Ports)

BOX 8
Options
Omit = Sump Sight Glass (standard) UU = Upstream & Downstream Test Point T = WIF Sensor Only (-AS16 Active Sensor) I = WIF Sensor w/ Indicator Lamp H = Sump Heat (74W) S5 = 5 gal. Water Collection Tank S20 = 20 gal. Water Collection Tank AWD5 = Auto Water Drain w/ 5 gal. Collection Tank AWD20 = Auto Water Drain w/ 20 gal. Collection Tank

*Contact factory for other options not listed in the model code builder

NOTES:

- Box 4. A blocked bypass requires the user to ensure a pressure relief is integrated into the system to prevent over-pressuring the filter housings when used in pressure installations.
- Box 7. As viewed in the direction of the fluid flow from inlet to outlet.
- Box 8. Test point adapter replaces the blanking plug installed opposite the element indicator.