

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

25 gpm
95 L/min

150 psi
10.3 bar

GHCF

Features and Benefits

- Diesel fuel coalescing 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
- 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:
GHCF5V524D5RTH

| | |
|---------------------------|--|
| Flow Rating: | Up to 25 gpm (95 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: | 40 psi (2.8 bar) |
| 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) |

Filter Housing Specifications

Markets



INDUSTRIAL



MOBILE
VEHICLES



MARINE



MINING
TECHNOLOGY



AGRICULTURE



POWER
GENERATION



COMMON RAIL
INJECTOR SYSTEMS



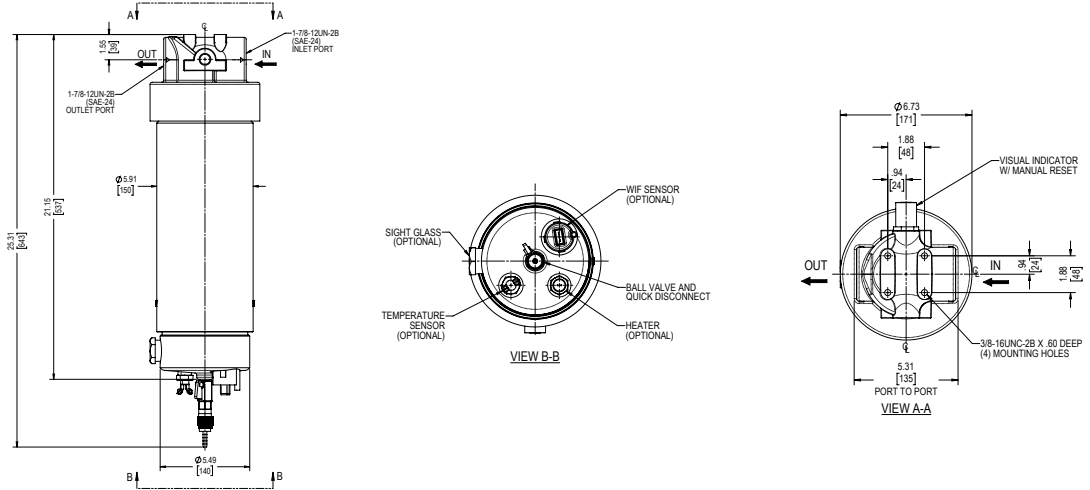
FLEET



RAILROAD



BULK FUEL
FILTRATION



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.

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

| Coalescing Element | Pressure Side Coalescing | |
|--------------------|--------------------------|--------------------------------------|
| | 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

*Schroeder Anti-Static Pleat Media (ASP®) is standard

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

*NOTE: Efficiency based on ULSD15 with 27 Dynes/cm surface tension and 0.25% (2500 ppm) water injection. Discharge water concentration of <100 ppm free and emulsified water.

**Fluid
 Compatibility**

Diesel Fuel and Biodiesel (B100).

For other Distillate Petroleum, Contact Factory.

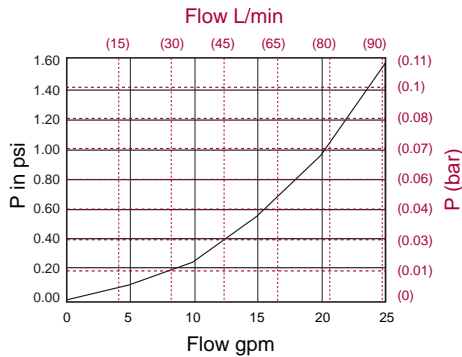
GeoSeal® High-Flow Coalescing Filter



*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:

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

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

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

| Coalescing Element | Pressure Side Coalescing | |
|--------------------|--------------------------|--------------------------------------|
| | 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

Pressure Drop Information Based on Flow Rate and Viscosity



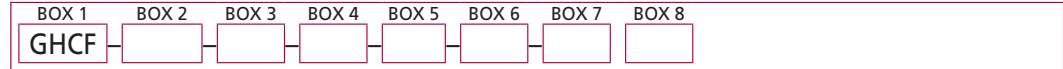
Filter Element Selection Coalescing Element Performance Information Elements Sold Separately

Highlighted product eligible for QuickDelivery

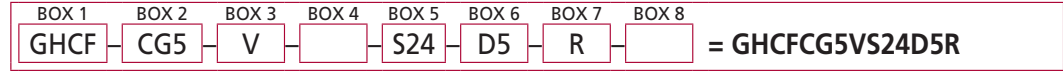
Filter Model Number Selection

Highlighted product eligible for QuickDelivery

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



Example: NOTE: One option per box



| 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 | |
| Visual | D5 = Visual pop-up w/manual reset |

| BOX 7 | BOX 8 |
|---------------------------------|---|
| Indicator Orientation | Sump Options |
| R = Right Side L = Left Side | Omit = Sump Sight Glass (standard) UU = Upstream & Downstream Test Point T = WIF Sensor Only 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 |

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.
- 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.