

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

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:
GHCFCG5VS24D5RTH

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)

Markets



INDUSTRIAL



MOBILE
VEHICLES



MARINE



MINING
TECHNOLOGY



AGRICULTURE



POWER
GENERATION



COMMON RAIL
INJECTOR SYSTEMS



FLEET



RAILROAD



BULK FUEL
FILTRATION

25 gpm ICF
95 L/min BDF

150 psi BDFA
10.3 bar BDA

GHPF

GHCF

QCF

BDS

BDS2

BDS3

BDS4

LVH-F

LVH-C

Filter
Housing
Specifications

BDFC

BCFP

BDC

HDP

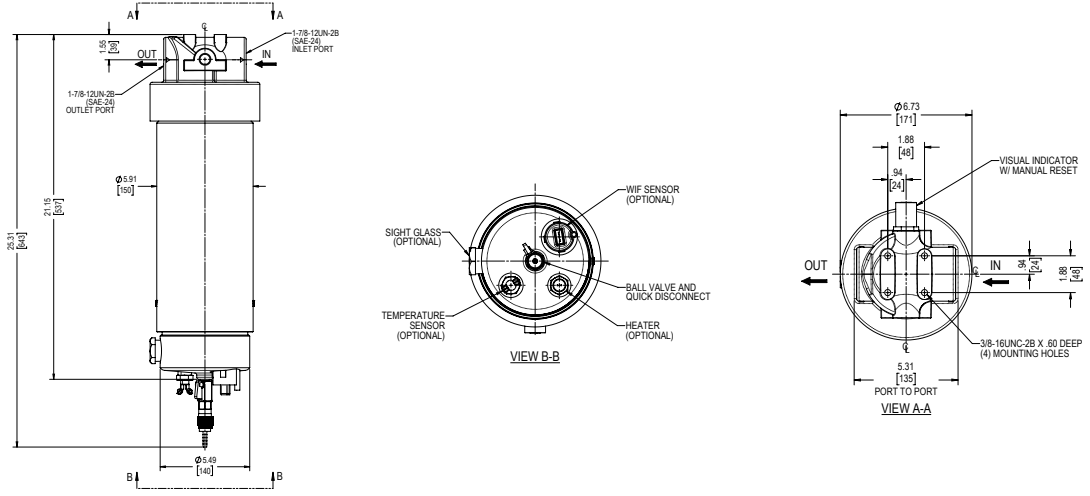
HDPD

EPM

EPTT

EWU

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.

**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.

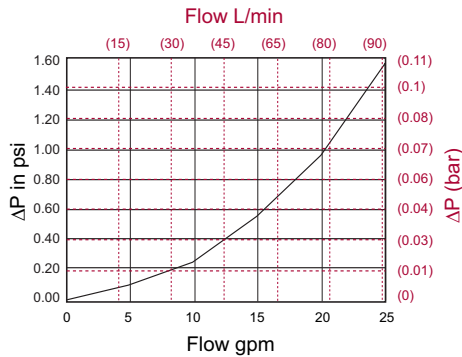
GeoSeal® High-Flow Coalescing Filter



*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 GHCFG5V

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

- ICF
- BDF
- BDF A
- BDA
- GHPF
- GHCF**

- QCF
- BDS

BDS2

BDS3

BDS4

LVH-F

LVH-C

BDFC

BDFP

BDC

HDP

HDPD

EPM

EPTT

SVU

BCC

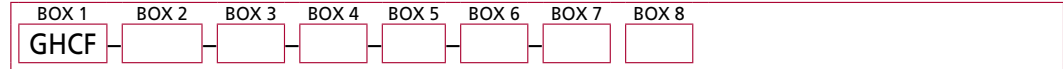
Filter Element Selection Coalescing Element Performance Information Elements Sold Separately



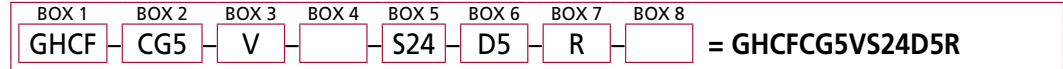
Filter Model Number Selection

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.