



Graver Technologies

Filtration | Separation | Purification

SC™ Single-Cartridge Filter Series



SCR Ring Closure Housing



SCB Bolt Closure Housing

Single Cartridge Filter Housings

The SC Series of single cartridge metal filter housings are available in 304L or 316L stainless steel with either bolt or ring seal closure to service a wide range of general purpose filter applications. The SCR Ring Closure Series provide superior design features to serve higher pressure applications, allow full sump drainage and utilize a wider range of cartridge configurations. The SCB Bolt Closure Series is an economical design for double open ended cartridges.

General Features

- Single shell construction for quick spill-free cartridge replacement
- In-line pipe connections for easy installation in 1/2, 3/4 and 1 inch pipe sizes
- Drains built in
- Rated for flow rates to 7 GPM (26.5 lpm) per 10 inch filter cartridge length
- Mounting brackets are available
- Housing pressure drop is 0.6 psid at 7gpm (.04 bar @ 26.5 lpm)

Housing Types and Features

SCR—Single Cartridge Housing with Ring Seal Closure

- Superior design accommodates most cartridges, higher pressure and complete housing drainage
- High pressure seal design supports pressures to 300 psi (20.7 bar) @ 200°F (93°C)
- Center rod is eliminated to permit the use of double open end or single open end cartridges
- Tapered housing bottom permits complete drainage
- Model available for 222 and 226 O-ring style cartridge in all 316L stainless steel

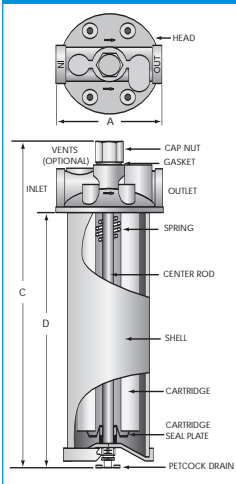
SCB—Single Cartridge Housing with Bolt Closure

- Economical design accommodates DOE cartridges
- Optional T-handle available for sump removal
- Temperature rated to 250°F (121°C) and 250 psi (17.23 bar) maximum pressure

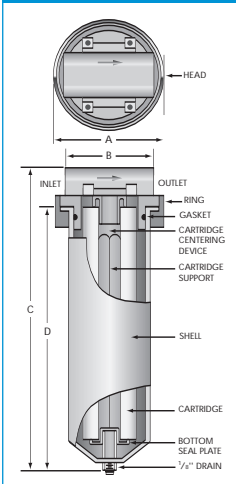
Applications

- Process water
- Potable liquids
- Petro chemicals
- Coolants
- Hydraulic oils
- Solvents

SCB Bolt Closure



SCR Ring Closure



Selection and Ordering Guide for SC Series Housings (Select one from each column)

| Model | Cartridge Length | Material of Construction | Inlet/Outlet Size (inches) | Connector | Gasket | Legend |
|-------|------------------|--------------------------|----------------------------|-----------|-------------|---------------------------------------|
| SCB | 04 - 4 7/8" | BSS | 050 - 0.50" | DOE | B- Buna-N | SCB - Single Cartridge - Bolt Closure |
| SCR | 09 - 9 3/4" | 304L* | 075 - 0.75" | 222** | E- EPR | SCR - Single Cartridge - Ring Closure |
| | 10 - 10" | 316L | 100 - 1.00" | 226** | S- Silicone | 304L - 304L Sump, 316L Head |
| | 20 - 20" | | | | T- Teflon | 316L - 316L Sump & Head |
| | 30 - 30" | | | | V- Viton | BSS - Brass Head, 304L Sump |

Example of a Typical SC Filter Housing Selection

| | | | | | | |
|-----|------|-------|-------|-------|-----|---|
| SCR | - 10 | - BSS | - 075 | - DOE | - E | * Not available in SCR ** Available as 316L only |
|-----|------|-------|-------|-------|-----|---|

SC Series Housing Dimensions Inches (cm)

| Model | A | B | C | D |
|-----------------------|--------------|--------------|---------------|---------------|
| SCB-04 | 4 (10.2) | - | 8 7/8 (22.6) | 6 (15.2) |
| SCB-09 | 4 (10.2) | - | 13 3/4 (34.9) | 11 (27.9) |
| SCB-10 | 4 (10.2) | - | 13 3/4 (34.9) | 11 (27.9) |
| SCB-20 | 4 (10.2) | - | 23 7/8 (60.6) | 21 (53.3) |
| SCB-30 | 4 (10.2) | - | 33 7/8 (86.0) | 31 (78.7) |
| SCR-09 | 4 1/2 (11.4) | 3 5/16 (8.4) | 13 1/8 (33.3) | 11 3/8 (28.9) |
| SCR-10 | 4 1/2 (11.4) | 3 7/16 (8.7) | 13 1/4 (33.7) | 11 1/2 (29.2) |
| SCR-20 | 4 1/2 (11.4) | 3 7/16 (8.7) | 23 1/4 (59.1) | 21 1/2 (54.6) |
| SCR-30 | 4 1/2 (11.4) | 3 7/16 (8.7) | 33 1/4 (84.5) | 31 1/2 (80.0) |
| SCR-10-222/226 | 4 1/2 (11.4) | 3 7/16 (8.7) | 18 (45.7) | 16 1/4 (41.8) |
| SCR-20-222/226 | 4 1/2 (11.4) | 3 7/16 (8.7) | 28 (71.1) | 26 1/4 (66.7) |
| SCR-30-222/226 | 4 1/2 (11.4) | 3 7/16 (8.7) | 38 (96.5) | 36 1/4 (92.1) |

SC Series Housing Specifications

| Model | Cartridge Length Inches (cm) | Rated Capacity GPM (LPM) | Shipping Weight lbs (kg) | Cartridge End cap type | Maximum* Pressure PSIG (bar) | Maximum Temp., °F (°C) |
|---------------|------------------------------|--------------------------|--------------------------|------------------------|------------------------------|------------------------|
| SCB-04 | 4 7/8 (12.4) | 3.5 (13.3) | 4 (1.8) | DOE | 250 (17.2) | 250 (121.1) |
| SCB-09 | 9 3/4 (24.8) | 7 (26.5) | 7 (3.2) | DOE | 250 (17.2) | 250 (121.1) |
| SCB-10 | 10 (25.4) | 7 (26.5) | 7 (3.2) | DOE | 250 (17.2) | 250 (121.1) |
| SCB-20 | 20 (50.8) | 14 (53.0) | 10 (4.5) | DOE | 250 (17.2) | 250 (121.1) |
| SCB-30 | 30 (76.2) | 21 (79.5) | 12 (5.4) | DOE | 250 (17.2) | 250 (121.1) |
| SCR-09 | 9 3/4 (24.8) | 7 (26.5) | 7 (3.2) | DOE | 300 (20.7) | 200 (93.3) |
| SCR-10 | 10 (25.4) | 7 (26.5) | 7 (3.2) | DOE | 300 (20.7) | 200 (93.3) |
| SCR-20 | 20 (50.8) | 14 (53.0) | 10 (4.5) | DOE | 300 (20.7) | 200 (93.3) |
| SCR-30 | 30 (76.2) | 21 (79.5) | 12 (5.4) | DOE | 300 (20.7) | 200 (93.3) |

For more information

Graver Technologies Customer Service: **1-888-353-0303**

Technical Support: **1-800-510-0932**

E-mail us at info@gravertech.com

Graver Technologies Europe (UK): **+44-1424-777791**

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Graver Technologies

200 Lake Drive
Glasgow,
DE 19702 U.S.A.

302-731-1700
800-249-1990
Fax: 302-369-0938

e-mail: info@gravertech.com
web site: www.gravertech.com

