Check Valve With Pressure Gauge Port

**SC1F-A3**

3/4-16 UNF • \( Q_{\text{max}} = 20 \text{ l/min (5 GPM)} \) • \( p_{\text{max}} = 350 \text{ bar (5100 PSI)} \)

### Technical Features

- Hardened precision parts
- Sharp-edged steel seats for dirt-tolerant performance
- Leak-free closing, suitable for fast cycling with long life
- Integrated pressure gauge port G 1/4” or SAE
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

### Functional Description

A hydraulic check valve in the form of a screw-in cartridge for use in 3-way cavity. The cartridge has a ball check which is closed by spring until sufficient pressure is applied at port 1 to open flow to port 2.

### Technical Data

<table>
<thead>
<tr>
<th>Valve size / Cartridge cavity</th>
<th>3/4-16 UNF-2A / A3 (C-B-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow ( Q ) [ l/min (GPM) ]</td>
<td>20 (5.3)</td>
</tr>
<tr>
<td>Max. operating pressure [ bar (PSI) ]</td>
<td>350 (5080)</td>
</tr>
<tr>
<td>Cracking pressure [ bar (PSI) ]</td>
<td>0.5 (7.3)</td>
</tr>
<tr>
<td>Fluid temperature range (NBR) [ °C (°F) ]</td>
<td>-30 .... +100 (-22 ... +212)</td>
</tr>
<tr>
<td>Fluid temperature range (FPM) [ °C (°F) ]</td>
<td>-20 .... +120 (-4 ... +248)</td>
</tr>
<tr>
<td>Mass [ kg (lbs) ]</td>
<td>0.05 (0.11)</td>
</tr>
</tbody>
</table>

### Characteristics

Measured at \( v = 32 \text{ mm/s (156 SUS)} \)

### Pressure drop related to flow rate

![Pressure drop related to flow rate graph](chart.png)
### Dimensions in millimeters (inches)

#### Model G

- **Dimensions:**
  - 34-16 UNF
  - 39.5 (1.56)
  - 48 (1.89)

#### Model S

- **Dimensions:**
  - 34-16 UNF
  - 39.5 (1.56)
  - 48 (1.89)

### Ordering Code

- **Check valve with pressure gauge port**
- **Valve cavity:** 3/4-16 UNF (C-8-3)
- **Lightline**
- **Cracking pressure:** 0.5 bar (7.3 PSI)
- **Surface treatment:**
  - A: zinc-coated (ZnCr-3), ISO 9227 (240 h)
  - B: zinc-coated (ZnNi), ISO 9227 (520 h)
- **Seals:**
  - NBR
  - FPM (Viton)
- **Thread:**
  - G: 1/4"
  - S: SAE-6, 9/16-18 UNF

Subject to change · SC1F-A3_5016_1en_02/2016

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