Rotork is the global market leader in valve automation and flow control. Our products and services are helping organisations around the world to improve efficiency, assure safety and protect the environment.

We strive always for technical excellence, innovation and the highest quality standards in everything we do. As a result, our people and products remain at the forefront of flow control technology.

Uncompromising reliability is a feature of our entire product range, from our flagship electric actuator range through to our pneumatic, hydraulic and electro-hydraulic actuators, as well as instruments, gear boxes and valve accessories.

Rotork is committed to providing first class support to each client throughout the whole life of their plant, from initial site surveys to installation, maintenance, audits and repair. From our network of national and international offices, our engineers work around the clock to maintain our position of trust.

Rotork. Keeping the world flowing.
Introduction

Rotork Midland manufactures a full range of ancillary products in 316L stainless steel to compliment our full range of products. Suitable for use in industrial and severe environments, we have a range of solutions for all your control valve requirements.

Certification Options Available
4500 Series Ancillary Products – Air Pressure Switch

A compact fully adjustable pneumatically operated 316L stainless steel pressure switch with operating pressures up to 16 bar (232 psi). For use on fail-safe systems.

Features and Benefits
- Specifically designed for severe environments
- Compact and lightweight
- Up to 5 Pressure Ratings
- Tagging Facility
- Fluoroelastomer seals
- 3/2 and 5/2 Versions
- Low temperature option available
- NACE standard on application
- PED Certified ¼” only

Media & Ambient Temperature Range
- Standard temperature
  -20 to + 80 °C (-4 to +176 °F)
- Low temperature version
  -50 to +80 °C (-58 to +176 °F)
Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure (for main directional valve)
- 12 bar (174 psi) maximum

Maximum Pilot Pressure Inlet
- 16 bar (232 psi)

Pressure setting hysteresis
- 0.25 bar (3.63 psi)

Ports NPT (BSP option available)
- ¼” - ½” NPT line port
- ½” NPT pilot port

Operating Media
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases
- Sour gas option available
Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials
- Body: 316L Stainless Steel
- Spool: 316L Stainless Steel
- Spring: 316 Stainless Steel
- Seals: Fluoroelastomer (EPDM on low temperature version)

1 The use of lubrication upstream of the product is not recommended for low temperature applications.

Maximum Flow
At 6 bar, 1 bar differential:
- ¼” 3/2 Valves - 1000 L/Min (35.3 SCFM)
- ¼” 5/2 Valves - 1200 L/Min (42.4 SCFM)
- ½” 3/2 Valves - 3500 L/Min (123 SCFM)
- ½” 5/2 Valves - 3500 L/Min (123 SCFM)

Certification Options Available

ATEX

Ancillaries and Accessories 4
### 4500 Series Ancillary Products – ¼” NPT 3/2 Air Pressure switch

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>2PS3SV022</td>
<td>2PS3SL022</td>
<td>1.0</td>
<td>1.60</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>2PS3SV042</td>
<td>2PS3SL042</td>
<td></td>
<td></td>
<td>1.0 to 4 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>2PS3SV072</td>
<td>2PS3SL072</td>
<td></td>
<td></td>
<td>1.0 to 7 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>2PS3SV102</td>
<td>2PS3SL102</td>
<td></td>
<td></td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
<tr>
<td>2PS3SV162</td>
<td>2PS3SL162</td>
<td></td>
<td></td>
<td>1.0 to 16 bar (14.5 to 232 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with 'ATEX'.

NOTE: 16 bar regulated pressure must be fed from independent supply to main directional valve.

**Function**

**Application for spring return actuators 3/2**

1. **Airfail stay put**
   
   For this application port 3 is plugged. When pilot air is applied to port 1 or 2 in the Normally Closed mode and pilot air is greater than set pressure, air can flow in either direction. When pilot pressure falls below set pressure the integral spool valve closes and therefore blocks port 1 to 2 and the output from 2 remains blocked, leaving the actuator or downstream signal in the last controlled position.

2. **Venting**
   
   By not plugging port 3 the valve can be used in the Normally Open, Closed, Diverter or Changeover mode and the actuator will vent to atmosphere.
### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>2PSSSV022</td>
<td>2PSSSL022</td>
<td>1.2</td>
<td>2.05</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>2PSSSV042</td>
<td>2PSSSL042</td>
<td></td>
<td></td>
<td>1.0 to 4 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>2PSSSV072</td>
<td>2PSSSL072</td>
<td></td>
<td></td>
<td>1.0 to 7 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>2PSSSV102</td>
<td>2PSSSL102</td>
<td></td>
<td></td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
<tr>
<td>2PSSSV162</td>
<td>2PSSSL162</td>
<td></td>
<td></td>
<td>1.0 to 16 bar (14.5 to 232 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with '/ATEX'.

NOTE: 16 bar regulated pressure must be fed from independent supply to main directional valve.

### Function

Application for double acting actuators 5/2
4500 Series Ancillary Products – ¼" NPT 3/2 Air Pressure switch with latch-lock manual reset

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>2PS3SV022LL</td>
<td>2PS3SL022LL</td>
<td>1.0</td>
<td>2.30</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>2PS3SV042LL</td>
<td>2PS3SL042LL</td>
<td></td>
<td></td>
<td>1.0 to 4 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>2PS3SL072LL</td>
<td>2PS3SL072LL</td>
<td></td>
<td></td>
<td>1.0 to 7 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>2PS3SV102LL</td>
<td>2PS3SL102LL</td>
<td></td>
<td></td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
<tr>
<td>2PS3SV162LL</td>
<td>2PS3SL162LL</td>
<td></td>
<td></td>
<td>1.0 to 16 bar (14.5 to 232 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with 'ATEX'.

NOTE: 16 bar regulated pressure must be fed from independent supply to main directional valve.
### Ancillaries and Accessories

### 4500 Series Ancillary Products – ¼" NPT 5/2 Air Pressure switch with latch-lock manual reset

#### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>2PSSV022LL</td>
<td>2PSSSL022LL</td>
<td>1.2</td>
<td>2.75</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>2PSSV042LL</td>
<td>2PSSSL042LL</td>
<td></td>
<td></td>
<td>1.0 to 4 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>2PSSSL072LL</td>
<td>2PSSSL072LL</td>
<td></td>
<td></td>
<td>1.0 to 7 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>2PSSV102LL</td>
<td>2PSSSL102LL</td>
<td></td>
<td></td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
<tr>
<td>2PSSV162LL</td>
<td>2PSSSL162LL</td>
<td></td>
<td></td>
<td>1.0 to 16 bar (14.5 to 232 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with '/ATEX'.

NOTE: 16 bar regulated pressure must be fed from independent supply to main directional valve.
4500 Series Ancillary Products – ½” NPT 3/2 Air Pressure switch

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>4PS3SV022</td>
<td>4PS3SL022</td>
<td>3.5</td>
<td>3.0</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>4PS3SV042</td>
<td>4PS3SL042</td>
<td></td>
<td>3.0</td>
<td>1.0 to 4.0 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>4PS3SV072</td>
<td>4PS3SL072</td>
<td></td>
<td>3.0</td>
<td>1.0 to 7.0 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>4PS3SV102</td>
<td>4PS3SL102</td>
<td></td>
<td>3.0</td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’. 
4500 Series Ancillary Products – ½” NPT 5/2 Air Pressure switch

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>CV</th>
<th>Weight (kg)</th>
<th>Regulated Pressure (Adjustable) for Main Directional Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>4PSSSV022</td>
<td>4PSSSL022</td>
<td>3.5</td>
<td>3.6</td>
<td>1.0 to 2.0 bar (14.5 to 29 psi)</td>
</tr>
<tr>
<td>4PSSSV042</td>
<td>4PSSSL042</td>
<td>3.6</td>
<td>3.6</td>
<td>1.0 to 4 bar (14.5 to 58 psi)</td>
</tr>
<tr>
<td>4PSSSV072</td>
<td>4PSSSL072</td>
<td>3.6</td>
<td>3.6</td>
<td>1.0 to 7 bar (14.5 to 102 psi)</td>
</tr>
<tr>
<td>4PSSSV102</td>
<td>4PSSSL102</td>
<td>3.6</td>
<td>3.6</td>
<td>1.0 to 10 bar (14.5 to 145 psi)</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘/ATEX’.
4500 Series Ancillary Products – Pressure switch optional accessories

Panel Mounting Ring

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSAF238/20</td>
<td>Panel mounting ring</td>
</tr>
</tbody>
</table>

Tamper-proof cap kit

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSAF238/22</td>
<td>Kit comprises of 1 Pressure adjusting screw and 1 Tamperproof Cap. All material 316 Stainless Steel</td>
</tr>
</tbody>
</table>
Mounting Bracket Kit

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSASF238/26</td>
<td>Kit comprises of 1 Bracket and 1 Panel Mounting Ring</td>
</tr>
</tbody>
</table>
4500 Series Ancillary Products – ¼” to 1” Flow Regulators

Uni-directional flow regulators:
316L Stainless Steel in-line flow regulators for uni-directional operation (free flow return).

Bi-directional flow regulators:
316 Stainless Steel in-line flow regulators for bi-directional operation (separate flow control in each direction).

Features and Benefits
- Specifically designed for severe environments
- For use on fail-safe systems
- In-line flow
- Low temperature option available

Media & Ambient Temperature Range
- Standard temperature -20 to +70 °C (-4 to +158 °F)
- Low temperature version -50 to +80 °C (-58 to +176 °F)
Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP option available)

Operating Media
- Gases - Filtered lubricated or non-lubricated air, inert gas, sweet (natural) gases
- Sour gas option available
- Liquids - Low pressure hydraulic, mineral oil or water
Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials
- Body: 316L Stainless Steel
- Spring: 316 Stainless Steel
- Seals: Nitrile (EPDM¹ on low temperature option)
- Internals: 316L Stainless Steel
¹ The use of lubrication upstream of the product is not recommended for low temperature applications.

Certification Options Available

ATEX

Maximum Flow
At 6 bar, 1 bar differential:

Uni-Directional
- ¼” - 1000 L/Min (35 SCFM)
- ⅜” - 1680 L/Min (59 SCFM)
- ½” - 2520 L/Min (89 SCFM)
- ¾” - 5428 L/Min (192 SCFM)
- 1” - 9820 L/Min (347) SCFM

Bi-Directional
- ¼” - 620 L/Min (22 SCFM)
- ⅜” - 1290 L/Min (45 SCFM)
- ½” - 2000 L/Min (71 SCFM)

Uni-directional flow regulators

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2REGSN122</td>
<td>2REGSE122</td>
<td>⅛”</td>
<td>1.0</td>
<td>0.26</td>
</tr>
<tr>
<td>3REGSN122</td>
<td>3REGSE122</td>
<td>⅜”</td>
<td>1.7</td>
<td>0.75</td>
</tr>
<tr>
<td>4REGSN122</td>
<td>4REGSE122</td>
<td>½”</td>
<td>2.5</td>
<td>0.75</td>
</tr>
<tr>
<td>6REGSN122</td>
<td>6REGSE122</td>
<td>¾”</td>
<td>5.4</td>
<td>1.75</td>
</tr>
<tr>
<td>8REGSN122</td>
<td>8REGSE122</td>
<td>1”</td>
<td>9.8</td>
<td>3.1</td>
</tr>
</tbody>
</table>

Bi-directional flow regulators

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2BIDSN122</td>
<td>2BIDSE122</td>
<td>⅛”</td>
<td>0.6</td>
<td>0.38</td>
</tr>
<tr>
<td>3BIDSN122</td>
<td>3BIDSE122</td>
<td>⅜”</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>4BIDSN122</td>
<td>4BIDSE122</td>
<td>½”</td>
<td>2.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Keeping the World Flowing
### 4500 Series Ancillary Products – ¼" to ½" Uni-Directional Flow Regulators

#### 2REGSN122
- **Product Code:** 2REGSN122
- **Size:** ¼"
- **A:** 48
- **B:** 25.4
- **C:** 9
- **D:** 25.4
- **E:** 54
- **F:** 20
- **G:** 40
- **H:** 6.35
- **J:** 5
- **K:** 18
- **L:** 6

#### 3REGSN122
- **Product Code:** 3REGSN122
- **Size:** ⅜"
- **A:** 70
- **B:** 35
- **C:** 15.5
- **D:** 35
- **E:** 76
- **F:** 29
- **G:** 45
- **H:** 6.35
- **J:** 6
- **K:** 23.4
- **L:** 12

#### 4REGSN122
- **Product Code:** 4REGSN122
- **Size:** ½"
- **A:** 70
- **B:** 35
- **C:** 13.5
- **D:** 35
- **E:** 76
- **F:** 29
- **G:** 45
- **H:** 6.35
- **J:** 6
- **K:** 23.4
- **L:** 12

*If ATEX certification is required suffix product code with ‘ATEX’.*
### 4500 Series Ancillary Products – ⅜" to 1" Uni-Directional Flow Regulators

#### Ordering Information

| 6REGSN122    | 6REGSE122               | ⅜"  | 100| 30.8| 25.4| 50.8| 95 | 16 | 19 | 6.35| 10 | 30.5| 20 | 103| 80 | 5.5| 3 | 125| 76 | 100| 2 |
| 8REGSN122    | 8REGSE122               | 1"   | 125| 63.5| 31.75| 63.5| 107.5| 19 | 24 | 6.35| 12 | 36 | 25 | 115.5| 80 | 5.5| 3 | 137.5| 76 | 100| 2 |

If ATEX certification is required suffix product code with ‘ATEX’.
### 4500 Series Ancillary Products – ¼" to ½" Bi-Directional Flow Regulators

#### Ordering Information

| Product Code | Low Temperature Version | Size  | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | L  | M  |
|--------------|-------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|
| 2BIDSN122    | 2BIDSE122               | ⅛"   | 85 | 40 | 15.5 | 25.4 | 44.5 | 28 | 32 | 6.35 | 5  | 18 | 6  | 24.5 |
| 3BIDSN122    | 3BIDSE122               | ⅜"   | 121| 51 | 18  | 35  | 63.5 | 35 | 45 | 6.35 | 6  | 23.4 | 12 | 33 |
| 4BIDSN122    | 4BIDSE122               | ½"   | 121| 51 | 21  | 35  | 63.5 | 35 | 45 | 6.35 | 6  | 23.4 | 12 | 30 |

If ATEX certification is required, suffix product code with ‘/ATEX’.
4500 Series Ancillary Products – ¼” to ½” Needle Valves

Needle valve: 316L stainless steel needle valve with 3mm, 6mm or 12mm orifice.

Features and Benefits
• Specifically designed for severe environments
• Low temperature option available
• 316L Stainless Steel

Media & Ambient Temperature Range
• Standard temperature
  -20 to +70 °C (-4 to +158 °F)
• Low temperature version
  -50 to +80 °C (-58 to +176 °F)

Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure
• 12 bar (174 psi)

Ports NPT (BSP option available)

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases
• Sour gas option available
• Liquids - Low pressure hydraulic, mineral oil or water

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials
• Body: 316L Stainless Steel
• Spring: 316 Stainless Steel
• Seals: Nitrile (EPDM\(^1\) on low temperature option)
• Internals: 316L Stainless Steel

\(^1\) The use of lubrication upstream of the product is not recommended for low temperature applications.

Maximum Flow
At 6 bar, 1 bar differential:

Needle Valve (3mm orifice)
• ¼” - 290 L/Min (10.5 SCFM)

Needle Valve (6mm orifice)
• ¼” - 640 L/Min (23 SCFM)

Needle Valve (12mm orifice)
• ½” - 2240 L/Min (79 SCFM)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>Orifice (mm)</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NDVSN12203</td>
<td>2NDVSE12203</td>
<td>¼”</td>
<td>3</td>
<td>0.3</td>
<td>0.27</td>
</tr>
<tr>
<td>2NDVSN12206</td>
<td>2NDVSE12206</td>
<td>¼”</td>
<td>6</td>
<td>0.7</td>
<td>0.27</td>
</tr>
<tr>
<td>4NDVSN12206</td>
<td>4NDVSE12206</td>
<td>½”</td>
<td>6</td>
<td>1.1</td>
<td>0.71</td>
</tr>
<tr>
<td>4NDVSN12212</td>
<td>4NDVSE12212</td>
<td>½”</td>
<td>12</td>
<td>2.8</td>
<td>0.71</td>
</tr>
</tbody>
</table>

Certification Options Available

ATEX
## 4500 Series Ancillary Products – ¼” to ½” Needle Valves

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NDVSN12203</td>
<td>2NDVSE12203</td>
<td>¼&quot;</td>
<td>54</td>
<td>48</td>
<td>25.4</td>
<td>6.35</td>
<td>40</td>
<td>20</td>
<td>9</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>2NDVSN12206</td>
<td>2NDVSE12206</td>
<td>¼&quot;</td>
<td>54</td>
<td>48</td>
<td>25.4</td>
<td>6.35</td>
<td>40</td>
<td>20</td>
<td>9</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>4NDVSN12206</td>
<td>4NDVSE12206</td>
<td>½&quot;</td>
<td>76</td>
<td>70</td>
<td>35</td>
<td>6.35</td>
<td>45</td>
<td>29</td>
<td>13.5</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>4NDVSN12212</td>
<td>4NDVSE12212</td>
<td>½&quot;</td>
<td>76</td>
<td>70</td>
<td>35</td>
<td>6.35</td>
<td>45</td>
<td>29</td>
<td>13.5</td>
<td>12</td>
<td>6</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with '/ATEX'.
4500 Series Ancillary Products – ¼" to ½" Exhaust port flow regulators

Exhaust port flow regulators: 316L stainless steel exhaust flow regulator/breather supplied complete with tamper proof cap.

**Features and Benefits**
- Specifically designed for severe environments
- Low temperature option available
- 316L Stainless Steel

**Media & Ambient Temperature Range**
- Standard temperature
  -20 to + 70 °C (-4 to +158 °F)
- Low temperature version
  -50 to +80 °C (-58 to +176 °F)

**Working Pressure**
- 12 bar (174 psi)

**Operating Media**
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases
- Sour gas option available
- Liquids - Low pressure hydraulic, mineral oil or water

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

**Construction Materials**
- Body: 316L Stainless Steel
- Spring: 316 Stainless Steel
- Seals: Nitrile (EPDM\(^1\) on low temperature option)
- Internals: 316L Stainless Steel

\(^1\) The use of lubrication upstream of the product is not recommended for low temperature applications.

**Maximum Flow**
At 6 bar, 1 bar differential:

Exhaust Port Flow Regulators
- ¼” - 646 L/Min (23 SCFM)
- 3/8” - 1100 L/Min (39 SCFM)
- ½” - 1800 L/Min (64 SCFM)

**Certification Options Available**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2EFRSN102</td>
<td>2EFRSE122</td>
<td>¼&quot;</td>
<td>0.65</td>
<td>0.06</td>
</tr>
<tr>
<td>3EFRSN102</td>
<td>3EFRSE122</td>
<td>⅜&quot;</td>
<td>1.1</td>
<td>0.15</td>
</tr>
<tr>
<td>4EFRSN102</td>
<td>4EFRSE122</td>
<td>½&quot;</td>
<td>1.8</td>
<td>0.22</td>
</tr>
</tbody>
</table>

ATEX
4500 Series Ancillary Products — ¼” to ½” Exhaust port flow regulators

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2EFRSN102</td>
<td>2EFRSE102</td>
<td>¼”</td>
<td>47.5</td>
<td>17</td>
<td>10</td>
</tr>
<tr>
<td>3EFRSN102</td>
<td>3EFRSE102</td>
<td>¾”</td>
<td>66</td>
<td>23.4</td>
<td>12.5</td>
</tr>
<tr>
<td>4EFRSN102</td>
<td>4EFRSE102</td>
<td>½”</td>
<td>87</td>
<td>23.4</td>
<td>17</td>
</tr>
</tbody>
</table>
4500 Series Ancillary Products – ¼” to 2” NPT non-return valve

316L Stainless Steel non-return valves for pressures up of 12 bar (174 psi) and 27 bar (391 psi).

Features and Benefits
• Specifically designed for severe environments
• Low temperature option available
• 316L Stainless Steel

Media & Ambient Temperature Range
• Standard temperature
  -20 to + 70 °C (-4 to +158 °F)
• Low temperature version
  -50 to +80 °C (-58 to +176 °F)
Note: When product is ordered as /ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure
• 12 bar (174 psi)
• 27 bar (391 psi)

Ports NPT (BSP option available)

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases
• Sour gas option available
• Liquids - Low pressure hydraulic, mineral oil or water
Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials
• Body: 316L Stainless Steel
• Spring: 316 Stainless Steel
• Seals: Nitrile (EPDM1 on low temperature option)
• Internals: 316L Stainless Steel

1 The use of lubrication upstream of the product is not recommended for low temperature applications.

Maximum Flow
At 6 bar, 1 bar differential:
Non Return Valves (12 bar)
• ¼” - 1600 L/Min (57 SCFM)
• ½” - 2200 L/Min (80 SCFM)
• ⅜” - 3800 L/Min (137 SCFM)
• ⅝” - 5800 L/Min (205 SCFM)
• 1” - 7700 L/Min (274 SCFM)
Non-Return Valves (27 bar)
• ¼” - 736 L/Min (26 SCFM)
• ½” - 1840 L/Min (65 SCFM)
• ⅜” - 2600 L/Min (91 SCFM)

Non-return valves 12 Bar

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRVSN122</td>
<td>2NRVSE122</td>
<td>¼”</td>
<td>1.6</td>
<td>0.10</td>
</tr>
<tr>
<td>3NRVSN122</td>
<td>3NRVSE122</td>
<td>½”</td>
<td>2.3</td>
<td>0.26</td>
</tr>
<tr>
<td>4NRVSN122</td>
<td>4NRVSE122</td>
<td>⅜”</td>
<td>3.9</td>
<td>0.24</td>
</tr>
<tr>
<td>6NRVSN122</td>
<td>6NRVSE122</td>
<td>⅝”</td>
<td>11.4</td>
<td>0.74</td>
</tr>
<tr>
<td>8NRVSN122</td>
<td>8NRVSE122</td>
<td>1”</td>
<td>15.7</td>
<td>0.66</td>
</tr>
<tr>
<td>7NRVSN122</td>
<td>7NRVSE122</td>
<td>1½”</td>
<td>49</td>
<td>6.65</td>
</tr>
<tr>
<td>9NRVSN122</td>
<td>9NRVSE122</td>
<td>2”</td>
<td>51</td>
<td>6.25</td>
</tr>
</tbody>
</table>

Non-return valves 27 Bar

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRVSN272</td>
<td>2NRVSE272</td>
<td>¼”</td>
<td>1.6</td>
<td>0.10</td>
</tr>
<tr>
<td>3NRVSN272</td>
<td>3NRVSE272</td>
<td>½”</td>
<td>1.9</td>
<td>0.53</td>
</tr>
<tr>
<td>4NRVSN272</td>
<td>4NRVSE272</td>
<td>⅜”</td>
<td>3.3</td>
<td>0.58</td>
</tr>
</tbody>
</table>
### 4500 Series Ancillary Products – ¼" to 2" NPT non-return valves (12 Bar)

#### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRVSN122</td>
<td>2NRVSE122</td>
<td>¼&quot;</td>
<td>50</td>
<td>22.2</td>
<td>-</td>
</tr>
<tr>
<td>3NRVSN122</td>
<td>3NRVSE122</td>
<td>⅜&quot;</td>
<td>65</td>
<td>30.5</td>
<td>-</td>
</tr>
<tr>
<td>4NRVSN122</td>
<td>4NRVSE122</td>
<td>½&quot;</td>
<td>68</td>
<td>30.5</td>
<td>-</td>
</tr>
<tr>
<td>6NRVSN122</td>
<td>6NRVSE122</td>
<td>⅜&quot;</td>
<td>84</td>
<td>44.5</td>
<td>51</td>
</tr>
<tr>
<td>8NRVSN122</td>
<td>8NRVSE122</td>
<td>1&quot;</td>
<td>84</td>
<td>44.5</td>
<td>51</td>
</tr>
<tr>
<td>7NRVSN122</td>
<td>7NRVSE122</td>
<td>1½&quot;</td>
<td>175</td>
<td>70</td>
<td>114</td>
</tr>
<tr>
<td>9NRVSN122</td>
<td>9NRVSE122</td>
<td>2&quot;</td>
<td>175</td>
<td>70</td>
<td>114</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’.
## 4500 Series Ancillary Products – ¼” to ½” NPT Non-return valves (27 Bar)

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRVSN272</td>
<td>2NRVSE272</td>
<td>¼&quot;</td>
<td>50</td>
<td>22.2</td>
</tr>
<tr>
<td>3NRVSN272</td>
<td>3NRVSE272</td>
<td>⅜&quot;</td>
<td>80</td>
<td>36</td>
</tr>
<tr>
<td>4NRVSN272</td>
<td>4NRVSE272</td>
<td>½&quot;</td>
<td>90</td>
<td>36</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’.
Ancillaries and Accessories

4500 Series Ancillary Products – ¼" to 2" NPT Quick exhaust valve

316L Stainless Steel quick exhaust valves.

Features and Benefits
• Specifically designed for severe environments
• Low temperature option available

Media & Ambient Temperature Range
• Standard temperature
  -20 to + 70 °C (-4 to +158 °F)
• Low temperature version
  -50 to +80 °C (-58 to +176 °F)

Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure
• 12 bar (174 psi)

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases
• Sour gas option available
• Liquids - Low pressure hydraulic, mineral oil or water

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Maximum Flow
At 6 bar, 1 bar differential:
Supply to outlet
• ¼" - 1290 L/Min (46 SCFM)
• ⅜" - 1810 L/Min (64 SCFM)
• ½" - 3810 L/Min (135 SCFM)
• ¾" - 4520 L/Min (160 SCFM)
• 1" - 7700 L/Min (274 SCFM)
• 1½" - 22000 L/Min (777 SCFM)
• 2" - 32000 L/Min (1130 SCFM)

Outlet to Exhaust
• ¼" - 2780 L/Min (98 SCFM)
• ⅜" - 3810 L/Min (135 SCFM)
• ½" - 5490 L/Min (194 SCFM)
• ¾" - 6460 L/Min (228 SCFM)
• 1" - 11000 L/Min (388 SCFM)
• 1½" - 32000 L/Min (1130 SCFM)
• 2" - 45000 L/Min (1589 SCFM)

Construction Materials
• Body: 316L Stainless Steel
• Internal Parts: 316L Stainless Steel
• Springs: 316 Stainless Steel
• Seals: Nitrile (EPDM¹ on low temperature option)

¹ The use of lubrication upstream of the product is not recommended for low temperature applications.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV Supply to Outlet</th>
<th>CV Outlet to Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>2QEVS122</td>
<td>2QEVE122</td>
<td>¼&quot;</td>
<td>1.3</td>
<td>2.8</td>
</tr>
<tr>
<td>3QEVS122</td>
<td>3QEVE122</td>
<td>⅜&quot;</td>
<td>1.8</td>
<td>3.8</td>
</tr>
<tr>
<td>4QEVS122</td>
<td>4QEVE122</td>
<td>½&quot;</td>
<td>3.8</td>
<td>5.5</td>
</tr>
<tr>
<td>6QEVS122</td>
<td>6QEVE122</td>
<td>¾&quot;</td>
<td>4.5</td>
<td>6.5</td>
</tr>
<tr>
<td>8QEVS122</td>
<td>8QEVE122</td>
<td>1&quot;</td>
<td>7.8</td>
<td>11.0</td>
</tr>
<tr>
<td>7QEVS122</td>
<td>7QEVE122</td>
<td>1½&quot;</td>
<td>22.0</td>
<td>32.0</td>
</tr>
<tr>
<td>9QEVS122</td>
<td>9QEVE122</td>
<td>2&quot;</td>
<td>32.0</td>
<td>45.0</td>
</tr>
</tbody>
</table>

Certification Options Available

ATEX
**4500 Series Ancillary Products – ¼” to 1” NPT Quick exhaust valve**

![Diagram of Quick exhaust valve]

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>2QEVSN122</td>
<td>2QEVSE122</td>
<td>¼&quot;</td>
<td>52</td>
<td>38</td>
<td>31.75</td>
<td>31.75</td>
<td>22</td>
<td>16</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3QEVSN122</td>
<td>3QEVSE122</td>
<td>⅜&quot;</td>
<td>60</td>
<td>42</td>
<td>35</td>
<td>35</td>
<td>23</td>
<td>17.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4QEVSN122</td>
<td>4QEVSE122</td>
<td>⅝&quot;</td>
<td>70</td>
<td>55</td>
<td>44.5</td>
<td>44.5</td>
<td>30.5</td>
<td>22.5</td>
<td>6.5</td>
<td>10</td>
<td>8.25</td>
</tr>
<tr>
<td>6QEVSN122</td>
<td>6QEVSE122</td>
<td>¾”</td>
<td>80</td>
<td>60</td>
<td>50.8</td>
<td>50.8</td>
<td>33.5</td>
<td>25.4</td>
<td>7.5</td>
<td>10</td>
<td>8.5</td>
</tr>
<tr>
<td>8QEVSN122</td>
<td>8QEVSE122</td>
<td>1&quot;</td>
<td>106.2</td>
<td>91</td>
<td>76.2</td>
<td>76.2</td>
<td>52.2</td>
<td>38.1</td>
<td>10</td>
<td>16</td>
<td>11</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’.
Ancillaries and Accessories

4500 Series Ancillary Products – 1½” to 2” NPT Quick exhaust valve

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>7QEVSN122</td>
<td>7QEVSE122</td>
<td>1½”</td>
<td>200</td>
<td>85.5</td>
<td>114</td>
<td>63.5</td>
<td>130</td>
<td>70</td>
</tr>
<tr>
<td>9QEVSN122</td>
<td>9QEVSE122</td>
<td>2”</td>
<td>200</td>
<td>85.5</td>
<td>114</td>
<td>76</td>
<td>130</td>
<td>70</td>
</tr>
</tbody>
</table>
4500 Series Ancillary Products – ¼” to 2” NPT Quick exhaust valve c/w exhaust flow regulator

316L Stainless Steel quick exhaust valves complete with flow regulators to control the speed of exhaust.

Features and Benefits
- Specifically designed for severe environments
- Low temperature option available

Media & Ambient Temperature Range
- Standard temperature
  -20 to + 70 °C (-4 to +158 °F)
- Low temperature version
  -50 to +80 °C (-58 to +176 °F)

Working Pressure
- Quick exhaust valve c/w flow regulator
  - 12 bar (174 psi)

Operating Media
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases
- Sour gas option available
- Liquids - Low pressure hydraulic, mineral oil or water

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Maximum Flow
At 6 bar, 1 bar pressure drop:
Quick exhaust valve c/w flow regulator
Supply to outlet
- ¼” - 1290 L/Min (46 SCFM)
- ⅝” - 1810 L/Min (64 SCFM)
- ⅜” - 3810 L/Min (135 SCFM)
- ⅝” - 4520 L/Min (160 SCFM)
- 1” - 7700 L/Min (274 SCFM)
- 1½” - 22000 L/Min (777 SCFM)
- 2” - 32000 L/Min (1130 SCFM)

Quick exhaust valve c/w Flow Regulator
Outlet to exhaust
- ¼” - 2780 L/Min (98 SCFM)
- ⅝” - 5490 L/Min (194 SCFM)
- ⅜” - 6460 L/Min (228 SCFM)
- 1” - 11000 L/Min (388 SCFM)
- 1½” - 32000 L/Min (1130 SCFM)
- 2” - 45000 L/Min (1589 SCFM)

Construction Materials
- Body: 316L Stainless Steel
- Internal Parts: 316L Stainless Steel
- Springs: 316 Stainless Steel
- Seals: Nitrile (EPDM on Low temperature option)

1 The use of lubrication upstream of the product is not recommended for low temperature applications.

1/4” to 1” Quick Exhaust Valve with Exhaust Flow Regulator and By-pass

<table>
<thead>
<tr>
<th>Standard Product Code with by-pass</th>
<th>Low Temperature Version with by-pass</th>
<th>Size</th>
<th>CV Supply to Outlet</th>
<th>CV Outlet to Exhaust</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2QEBSN122</td>
<td>2QEBSE122</td>
<td>¼”</td>
<td>1.3</td>
<td>2.8</td>
<td>0.5</td>
</tr>
<tr>
<td>3QEBSN122</td>
<td>3QEBSE122</td>
<td>⅝”</td>
<td>1.8</td>
<td>3.8</td>
<td>0.7</td>
</tr>
<tr>
<td>4QEBSN122</td>
<td>4QEBSE122</td>
<td>⅜”</td>
<td>3.8</td>
<td>5.5</td>
<td>1.7</td>
</tr>
<tr>
<td>6QEBSN122</td>
<td>6QEBSE122</td>
<td>⅝”</td>
<td>4.5</td>
<td>6.5</td>
<td>2.4</td>
</tr>
<tr>
<td>8QEBSN122</td>
<td>8QEBSE122</td>
<td>1”</td>
<td>7.8</td>
<td>11</td>
<td>6</td>
</tr>
</tbody>
</table>

1½” to 2” Quick Exhaust Valve with Exhaust Flow Regulator and By-pass

<table>
<thead>
<tr>
<th>Standard Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV Supply to Outlet</th>
<th>CV Outlet to Exhaust</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7QEBSN122</td>
<td>7QEBSE122</td>
<td>1½”</td>
<td>22</td>
<td>32</td>
<td>13.4</td>
</tr>
<tr>
<td>9QEBSN122</td>
<td>9QEBSE122</td>
<td>2”</td>
<td>32</td>
<td>46</td>
<td>13.4</td>
</tr>
</tbody>
</table>
### 4500 Series Ancillary Products

#### 1/4" to 1" NPT Quick exhaust valve c/w exhaust flow regulator

![Diagram](image1)

Ordering Information

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2QEBSN122A</td>
<td>2QEBSE122A</td>
<td>1/4&quot;</td>
<td>90</td>
<td>31.75</td>
<td>38</td>
<td>16</td>
<td>10</td>
<td>26</td>
<td>32</td>
<td>19.75</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>3QEBSN122</td>
<td>3QEBSE122</td>
<td>1/4&quot;</td>
<td>101</td>
<td>35</td>
<td>42</td>
<td>17.5</td>
<td>12.5</td>
<td>31</td>
<td>35.5</td>
<td>25</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>4QEBSN122</td>
<td>4QEBSE122</td>
<td>1/2&quot;</td>
<td>128</td>
<td>44.5</td>
<td>55</td>
<td>22.5</td>
<td>12.75</td>
<td>35</td>
<td>43.3</td>
<td>28</td>
<td>12</td>
<td>8.25</td>
<td>26</td>
<td>22.75</td>
<td>6</td>
</tr>
<tr>
<td>6QEBSN122A</td>
<td>6QEBSE122A</td>
<td>3/4&quot;</td>
<td>145</td>
<td>50.8</td>
<td>60</td>
<td>25.4</td>
<td>14.5</td>
<td>41.5</td>
<td>48</td>
<td>35.3</td>
<td>10</td>
<td>8.5</td>
<td>27</td>
<td>24.5</td>
<td>6</td>
</tr>
<tr>
<td>8QEBSN122A</td>
<td>8QEBSE122A</td>
<td>1&quot;</td>
<td>210</td>
<td>76.2</td>
<td>91</td>
<td>38.1</td>
<td>15</td>
<td>57</td>
<td>67.2</td>
<td>47</td>
<td>25</td>
<td>11</td>
<td>43</td>
<td>41</td>
<td>12</td>
</tr>
</tbody>
</table>

#### 1 1/2" to 2" NPT Quick exhaust valve c/w exhaust flow regulator & by-pass

![Diagram](image2)

Ordering Information

<table>
<thead>
<tr>
<th>Standard Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>7QEBSN122A</td>
<td>7QEBSE122A</td>
<td>1 1/2&quot;</td>
<td>347.5</td>
<td>85.5</td>
<td>114</td>
<td>76</td>
<td>130</td>
<td>102</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>9QEBSN122A</td>
<td>9QEBSE122A</td>
<td>2&quot;</td>
<td>347.5</td>
<td>85.5</td>
<td>114</td>
<td>76</td>
<td>130</td>
<td>102</td>
<td>25</td>
<td>12</td>
</tr>
</tbody>
</table>
4500 Series Ancillary Products – \( \frac{1}{4}'' \) to 1'' NPT shuttle valve

316L Stainless Steel shuttle valves for three way “OR” function.

**Features and Benefits**
- Specifically designed for severe environments
- Low temperature option available
- 316L Stainless Steel
- 5 sizes available

**Media & Ambient Temperature Range**
- Standard temperature
  -20 to + 70 °C (-4 to +158 °F)
- Low temperature version
  -50 to +80 °C (-58 to +176 °F)

Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

**Working Pressure**
- 12 bar (174 psi)

**Operating Media**
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases
- Sour gas option available
- Liquids - Low pressure hydraulic, mineral oil or water

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

**Maximum Flow**
At 6 bar, 1 bar pressure drop:

**Shuttle Valve**
- \( \frac{1}{4}'' \) - 1350 L/Min (45 SCFM)
- \( \frac{3}{8}'' \) - 1830 L/Min (65 SCFM)
- \( \frac{1}{2}'' \) - 3550 L/Min (126 SCFM)
- \( \frac{3}{4}'' \) - 5500 L/Min (194 SCFM)
- 1” - 9000 L/Min (319 SCFM)

**Construction Materials**
- Body: 316L Stainless Steel
- Internal Parts: 316L Stainless Steel
- Springs: 316 Stainless Steel
- Seals: Nitrile (EPDM\(^1\) on low temperature option)

\(^1\) The use of lubrication upstream of the product is not recommended for low temperature applications.

<table>
<thead>
<tr>
<th>Standard Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2SHVSN122</td>
<td>2SHVSE122</td>
<td>( \frac{1}{4}'' )</td>
<td>1.3</td>
<td>0.16</td>
</tr>
<tr>
<td>3SHVSN122</td>
<td>3SHVSE122</td>
<td>( \frac{3}{8}'' )</td>
<td>1.9</td>
<td>0.19</td>
</tr>
<tr>
<td>4SHVSN122A</td>
<td>4SHVSE122A</td>
<td>( \frac{1}{2}'' )</td>
<td>3.7</td>
<td>0.34</td>
</tr>
<tr>
<td>6SHVSN122</td>
<td>6SHVSE122</td>
<td>( \frac{3}{4}'' )</td>
<td>9.0</td>
<td>0.94</td>
</tr>
<tr>
<td>8SHVSN122</td>
<td>8SHVSE122</td>
<td>1”</td>
<td>15</td>
<td>1.41</td>
</tr>
</tbody>
</table>

**Certification Options Available**

Keeping the World Flowing
4500 Series Ancillary Products

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2SHVSN122</td>
<td>2SHVSE122</td>
<td>1/4&quot;</td>
<td>44.5</td>
<td>25.4</td>
<td>33</td>
<td>13</td>
<td>22</td>
<td>9.5</td>
</tr>
<tr>
<td>3SHVSN122</td>
<td>3SHVSE122</td>
<td>3/8&quot;</td>
<td>54</td>
<td>25.4</td>
<td>38</td>
<td>13</td>
<td>22</td>
<td>14.3</td>
</tr>
<tr>
<td>4SHVSN122A</td>
<td>4SHVSE122A</td>
<td>1/2&quot;</td>
<td>63.8</td>
<td>31.8</td>
<td>48</td>
<td>16</td>
<td>28</td>
<td>16</td>
</tr>
<tr>
<td>6SHVSN122</td>
<td>6SHVSE122</td>
<td>5/4&quot;</td>
<td>82.5</td>
<td>44.5</td>
<td>60</td>
<td>22.2</td>
<td>-</td>
<td>19</td>
</tr>
<tr>
<td>8SHVSN122</td>
<td>8SHVSE122</td>
<td>1&quot;</td>
<td>100</td>
<td>50.8</td>
<td>70</td>
<td>25.4</td>
<td>-</td>
<td>24.6</td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘/ATEX’.

Ancillaries and Accessories
**4500 Series Ancillary Products – \( \frac{1}{2} \)" NPT Thermal Fuses**

316L Stainless Steel thermal fuses for fire release. Available in a range of temperature settings.

**Features and Benefits**
- Specifically designed for severe environments
- 316L Stainless Steel
- For fire release

**Operating Temperatures**
- -20 °C to +70 °C (-4 °F to +158 °F)
- -20 °C to +96 °C (-4 °F to +205 °F)
- -20 °C to +102 °C (-4 °F to +216 °F)
- -20 °C to +124 °C (-4 °F to +255 °F)
- -20 °C to +137 °C (-4 °F to +279 °F)
- -20 °C to +200 °C (-4 °F to +392 °F)

**Working Pressure**
- 20 bar (290 psi)

**Ports NPT**
- \( \frac{1}{2} \)"

**Operating Media**
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

**Maximum Flow**
At 6 bar, 1 bar differential:
Supply to outlet
- \( \frac{1}{2} \)” - 5800 L/Min (205 SCFM)

**Construction Materials**
- Body: 316L Stainless Steel
- Thermal plug: Low melting point alloy (bismuth-based)

**Product Code | Temperature (°C) | Size | CV | Weight (kg)**
--- | --- | --- | --- | ---
4THFSN102070 | 70 | \( \frac{1}{2} \)" | 5.8 | 0.15
4THFSN102096 | 96 | \( \frac{1}{2} \)" | 5.8 | 0.15
4THFSN102102 | 102 | \( \frac{1}{2} \)" | 5.8 | 0.15
4THFSN102124 | 124 | \( \frac{1}{2} \)" | 5.8 | 0.15
4THFSN102137 | 137 | \( \frac{1}{2} \)" | 5.8 | 0.15
4THFSN102200 | 200 | \( \frac{1}{2} \)" | 5.8 | 0.15

**Certification Options Available**

---

*Keeping the World Flowing*
4500 Series Ancillary Products – Visual Indicator

Compact 316L Stainless Steel panel mounted visual red/green indicator.

Features and Benefits
- Specifically designed for severe environments
- 316L Stainless Steel
- Can be panel mounted

Media & Ambient Temperature Range
- -20 to + 65 °C (-4 to +149 °F)
Note: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Working Pressure
- 1 to 12 bar (14.5 to 174 psi)

Ports NPT (BSP option available)
- 1/8” NPT

Operating Media
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases
Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials
- Body: 316L Stainless Steel
- Springs: 316 Stainless Steel
- Seals: Nitrile
- Visual indicator piston: acetal
- Visual indicator assembly: acetal with acrylic lens

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Ports</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1VISSN122G</td>
<td>1/8” NPT</td>
<td>0.1</td>
</tr>
<tr>
<td>1VISSN121G</td>
<td>1/8” BSP</td>
<td></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’.

Certification Options Available

CE ATEX EAC

Ancillaries and Accessories
4500 Series Ancillary Products — ¼” to ½” Non-return valve breather

316L Stainless Steel non-return breather to prevent ingress into exhaust and vent ports.

Features and Benefits
• Specifically designed for severe environments
• 316L Stainless Steel

Media & Ambient Temperature Range
• -20 to + 70 °C (-4 to +158 °F)

Working Pressure
• 12 bar (174 psi)

Ports NPT (BSP option available)
• ¼” to ½”

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases

Features and Benefits
• Specifically designed for severe environments
• 316L Stainless Steel

Media & Ambient Temperature Range
• -20 to + 70 °C (-4 to +158 °F)

Working Pressure
• 12 bar (174 psi)

Ports NPT (BSP option available)
• ¼” to ½”

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Maximum Flow
At 6 bar, 1 bar differential:
• ¼” - 646 L/Min (23 SCFM)
• 3/8” - 1300 L/Min (45 SCFM)
• ½” - 1550 L/Min (54 SCFM)

Construction Materials
• 316L Stainless Steel
• Non-return sleeve: silicon

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
<th>CV</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRBSN102</td>
<td>¼”</td>
<td>0.65</td>
<td>0.02</td>
</tr>
<tr>
<td>3NRBSN102</td>
<td>⅜”</td>
<td>1.3</td>
<td>0.06</td>
</tr>
<tr>
<td>4NRBSN102</td>
<td>½”</td>
<td>1.6</td>
<td>0.063</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2NRBSN102</td>
<td>¼”</td>
<td>34</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>3NRBSN102</td>
<td>⅜”</td>
<td>40</td>
<td>23.4</td>
<td>21</td>
</tr>
<tr>
<td>4NRBSN102</td>
<td>½”</td>
<td>45</td>
<td>23.4</td>
<td>21</td>
</tr>
</tbody>
</table>

Certification Options Available

EAC

Keeping the World Flowing
4500 Series Ancillary Products – ¼" to 1" Breathers (Silencers)

316L Stainless Steel sintered element silencers used to protect ports open to the atmosphere.

Features and Benefits
• Specifically designed for severe environments
• 316L Stainless Steel

Media & Ambient Temperature Range
• -20 to + 70 °C (-4 to +158 °F)

Working Pressure
• 12 bar (174 psi)

Ports NPT (BSP option available)
• ¼” to 1”

Operating Media
• Gases - filtered lubricated or non-lubricated
• Air, inert gas, sweet (natural) gases

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Maximum Flow
At 6 bar, 1 bar differential:
• ¼” - 1200 L/Min (42 SCFM)
• ½” - 1550 L/Min (55 SCFM)
• ⅜” - 1940 L/Min (68 SCFM)
• ⅝” - 3410 L/Min (123 SCFM)
• 1” - 5700 L/Min (201 SCFM)

Construction Materials
• Body: 316L Stainless Steel
• Porous element: 316 Stainless Steel

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
<th>CV</th>
<th>A</th>
<th>B</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1BRESN102</td>
<td>¼&quot;</td>
<td>1.3</td>
<td>31</td>
<td>14</td>
<td>0.015</td>
</tr>
<tr>
<td>2BRESN102</td>
<td>½&quot;</td>
<td>1.7</td>
<td>38</td>
<td>17</td>
<td>0.02</td>
</tr>
<tr>
<td>3BRESN102</td>
<td>⅜&quot;</td>
<td>2.0</td>
<td>44</td>
<td>22</td>
<td>0.032</td>
</tr>
<tr>
<td>4BRESN102</td>
<td>⅝&quot;</td>
<td>3.7</td>
<td>55</td>
<td>24</td>
<td>0.05</td>
</tr>
<tr>
<td>6BRESN102</td>
<td>⅝&quot;</td>
<td>5.8</td>
<td>70</td>
<td>32</td>
<td>0.12</td>
</tr>
<tr>
<td>8BRESN102</td>
<td>1&quot;</td>
<td>6.0</td>
<td>75</td>
<td>36</td>
<td>0.15</td>
</tr>
</tbody>
</table>

Certification Options Available

EAC
4500 Series Ancillary Products – 1/8” to 1/4” ‘Bug Screen’ port vents

316L Stainless Steel sintered elements used to protect vent ports open to the atmosphere.

**Features and Benefits**
- Specifically designed for severe environments
- 316L Stainless Steel

**Media & Ambient Temperature Range**
- -20 to + 70 °C (-4 to +158 °F)

**Working Pressure**
- 12 bar (174 psi)

**Ports NPT**
- 1/8” to 1/4”

**Operating Media**
- Gases - filtered lubricated or non-lubricated
- Air, inert gas, sweet (natural) gases

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

**Construction Materials**
- Body: 316L Stainless Steel

---

**Product Code** | **Size** | **CV** | **Weight (kg)**
---|---|---|---
1VPBSN122 | 1/8” | 1.3 | 0.015
2VPBSN122 | 1/4” | 1.7 | 0.02

**Ordering Information**

**Product Code** | **Size** | **A** | **B**
---|---|---|---
1VPBSN122 | 1/8” | 6 | 5
2VPBSN122 | 1/4” | 9 | 6

---

Certification Options Available

EAC

---

Keeping the World Flowing
www.rotork.com

A full listing of our worldwide sales and service network is available on our website.