Spool Valve Catalogue

Spool Valves and Accessories
1500 series
1600 series
1650 series

Redefining Flow Control
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, gearboxes 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. Redefining flow control.
Introduction

Rotork Midland is a specialist designer and manufacturer of ¼" to 1" compact spool valves with a full range of mechanical, air and solenoid operators available. Suitable for use in industrial and severe environments, we have a range of solutions for all your control valve requirements.

Certification Options Available

UL  CSA  CE  ATEX  TEx  EAC

Redefining Flow Control
1500 Series spool valves – 1/4” Pilot operated

A range of 3/2 and 5/2 pilot operated spool valves in stainless steel for use on gases.

Features and Benefits
• Specifically designed for severe environments
• 3/2 and 5/2 Versions
• Working temperature range
  -20 to +180 °C (-4 to +356 °F)
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Working Temperature Range
• Valve only version
  -20 to +180 °C (-4 to +356 °F)
• Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
• 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
• 1/4” NPT line port
• 1/8” NPT pilot ports

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

Construction Materials
• Body: 316L stainless steel
• Spool: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
• 3/2 valves - 1,000 l/min (35.3 SCFM)
• 5/2 valves - 1,200 l/min (42.4 SCFM)

Certification Options Available

CE Ex ATEX EAC

rotork MIDLAND
1500 Series spool valves – ¼” Pilot operated spring-return

Ordering Information

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<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Pilot Pressure</th>
<th>Weight (kg)</th>
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**1500 Series spool valves — ¼" Double pilot operated**

### 3/2 Function

- 3 - ¼" NPT Line Ports
- 3 - Ø5.5 Mounting Holes

### 5/2 Function

- 5 - ¼" NPT Line Ports
- 3 - Ø5.5 Mounting Holes

### Ordering Information

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<td>2.3 Bar</td>
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1500 Series spool valves – 1/4” Pilot servo operated spring-return

Ordering Information

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<td>1.2 Bar</td>
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1500 Series spool valves – 1/4” Pilot operated latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

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<th>Min Pilot Pressure</th>
<th>Weight (kg)</th>
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<td><img src="image.png" alt="Product 2" /></td>
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1500 Series spool valves — 1/4” Pilot operated reverse latchlock manual reset

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<th>Function</th>
<th>Min Pilot Pressure</th>
<th>Weight (kg)</th>
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<th>Product</th>
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<tbody>
<tr>
<td>2326M218VR2B</td>
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<td>3 Bar</td>
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<tr>
<td>2526M218VR2B</td>
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<td>5 Bar</td>
<td>1.38</td>
<td>1.2</td>
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1500 Series spool valves – ¼” Mechanically operated spring-return

A range of 3/2 and 5/2 mechanically operated spool valves in stainless steel for use on gases.

Features and Benefits
• Specifically designed for severe environments
• 3/2 and 5/2 versions
• Ambient temperature range
  -20 to +180 ºC (-4 to +356 ºF)
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Working Temperature Range
• Valve only version
  -20 to +180 ºC (-4 to +356 ºF)
• Low temperature version
  -50 ºC (-58 ºF optional)

Working Pressure
• 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
• ¼” NPT line ports

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

Construction Materials
• Body: 316L stainless steel
• Spool: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
• 3/2 valves - 1,000 l/min (35.3 SCFM)
• 5/2 valves - 1,200 l/min (42.4 SCFM)
1500 Series spool valves — 1/4” Plunger operated spring-return

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
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1500 Series spool valves – 1/4" Roller lever operated spring-return

### 3/2 Function

- **6**
- **31.25**
- **21**

- **8**
- **50**
- **47**

- **12.5 total travel 11.75 to operate**

### 5/2 Function

- **44.5**
- **14**

- **24**
- **69**
- **51**

- **15.25 total travel 14.5 to operate**

### Ordering Information

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<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
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<th>Product</th>
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<td>40</td>
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1500 Series spool valves — 1/4” Roller operated spring-return

Redefining Flow Control
1500 Series spool valves – 1/4" Manually operated spring-return

A range of 3/2 and 5/2 manually operated spool valves in stainless steel for use on gases.

Features and Benefits
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Working Temperature Range
- Valve only version
  -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- 1/4” NPT line port
- 1/8” NPT pilot ports

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

Construction Materials
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
- 3/2 valves - 1,000 l/min (35.3 SCFM)
- 5/2 valves - 1,200 l/min (42.4 SCFM)

Certification Options Available
- ATEX
### 1500 Series spool valves –

- **1/4” Manually operated switch 2 position positive**
- **1/4” Manually operated switch spring-return**

#### 3/2 Function

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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Options</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>Symbol</th>
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<tbody>
<tr>
<td>2326B00-VR2B</td>
<td>2326B00-ER2B</td>
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<td>3/2 manually operated switch 2 position positive detent</td>
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<tr>
<td>2326B20-VR2B</td>
<td>2326B20-ER2B</td>
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<td>3/2 manually operated switch spring-return</td>
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<td>0.80</td>
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<tr>
<td>2526B00-VR2B</td>
<td>2526B00-ER2B</td>
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<td>5/2 manually operated switch 2 position positive</td>
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<td>5/2 manually operated switch spring-return</td>
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#### 5/2 Function

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<tbody>
<tr>
<td>2326B00-VR2B</td>
<td>2326B00-ER2B</td>
<td>3/2</td>
<td>3/2 manually operated switch 2 position positive detent</td>
<td>13</td>
<td>0.80</td>
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<tr>
<td>2326B20-VR2B</td>
<td>2326B20-ER2B</td>
<td>3/2</td>
<td>3/2 manually operated switch spring-return</td>
<td>13</td>
<td>0.80</td>
<td><img src="image" alt="Symbol 2" /></td>
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<tr>
<td>2526B00-VR2B</td>
<td>2526B00-ER2B</td>
<td>5/2</td>
<td>5/2 manually operated switch 2 position positive</td>
<td>16</td>
<td>1.10</td>
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<td>2526B20-VR2B</td>
<td>2526B20-ER2B</td>
<td>5/2</td>
<td>5/2 manually operated switch spring-return</td>
<td>16</td>
<td>1.10</td>
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1500 Series spool valves — 1/4" Pad operated spring-return

### Ordering Information

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<tr>
<td>2326M27-VR2B</td>
<td>2326M27-ER2B</td>
<td>3/2</td>
<td>Without lock nuts</td>
<td>76</td>
<td>0.50</td>
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<td>With lock nuts</td>
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<td>0.50</td>
<td>1.0</td>
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<tr>
<td>2526M27-VR2B</td>
<td>2526M27-ER2B</td>
<td>5/2</td>
<td>Without lock nuts</td>
<td>89</td>
<td>0.95</td>
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<td>0.95</td>
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1500 Series spool valves – ¼" Pad operated push pull with DETENT
¼" Pad operated push pull

### Ordering Information

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<td>3/2 pad operated push pull with detent cv lock nuts</td>
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<td>5/2 pad operated push pull</td>
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1500 Series spool valves – 1/4" Pad operated pilot air return

### Ordering Information

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<td>Without lock nuts</td>
<td>1.3 Bar</td>
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<td>2326B175VR2B</td>
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<td>With lock nuts</td>
<td>1.3 Bar</td>
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<tr>
<td>2526B175VR2B</td>
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<td>With lock nuts</td>
<td>2.3 Bar</td>
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1500 Series spool valves  —  ¼” Pad (to pull) or pilot operated spring-return

Ordering Information

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<td>With lock nuts</td>
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<td>0.65</td>
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<tr>
<td>2526M2F-VR2B</td>
<td>2526M2F-ER2B</td>
<td>5/2</td>
<td>Without lock nuts</td>
<td>89</td>
<td>1.00</td>
<td>1.2</td>
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<tr>
<td>2526M2F5VR2B</td>
<td>2526M2F5ER2B</td>
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<td>With lock nuts</td>
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<td>1.00</td>
<td>1.2</td>
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Redefining Flow Control
1500 Series spool valves — 1/4" 3/2 Pad (to pull) spring-return with pilot latch

Ordering Information

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<th>Low Temperature Version</th>
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<td>0.75</td>
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Pad operated, spring-return with pilot latch

If a pilot pressure of 1.5 to 10 bar (21 to 145 psi) is present at pilot ports when the knob is pulled out, the pilot pressure will hold the valve in the operated position against the return spring. If the pilot pressure falls to 0.5 bar (7 psi) or less the valve will be reset to its unoperated position. The valve cannot be operated by pilot pressure alone, manual operation must take place first.
1500 Series spool valves – Relay Valve Range

1/4" 3/2 Pad (to pull) spring-return with pilot latch and visual indicator

Ordering Information

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<th>Low Temperature Version</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M27JVR2B</td>
<td>2326M27JER2B</td>
<td>76</td>
<td>0.90</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pad operated, spring-return with pilot latch and visual indicator

The visual indicator will show RED when the valve is closed. If a pilot signal is applied the valve will not operate. When the valve is operated (via the pad) the pilot signal latches the valve in the operated position and the visual indicator will show GREEN - on loss of the pilot signal the valve will reset and the visual indicator will show RED again - reintroduction of the pilot signal will not operate the valve.
1500 Series spool valves – Relay Valve Range

1/4" 3/2 Pad (to pull) spring-return with pilot and manual latch

Manual Operation:
To operate the valve, pull out the pad, if the pad is released the valve will return to the un-operated position.

To leave valve operated press down the manual latch pin when pad is pulled out, then release the pad so that the manual latch pin engages. To return valve to its un-operated position, pull out the pad, this will dis-engage the manual latch pin, then release the pad.

Pilot Signal Operation:
To operate the valve, pull out the pad and apply a pilot pressure of between 3 to 10 bar to the signal port, the valve will remain operated until the pilot pressure is lost.

The valve cannot be operated by pilot pressure alone, pad must be pulled out first.

Releasing the manual latch with pilot signal:
If the valve has been manual operated and latched, this can be released by applying a pilot pressure to the signal port, this will release the manual latch, so when pilot pressure is lost the valve will return to the un-operated position.

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M27AVR2B</td>
<td>2326M27AER2B</td>
<td>76</td>
<td>0.85</td>
<td>1.0</td>
<td>10</td>
<td>12</td>
</tr>
</tbody>
</table>

Pad operated, spring-return with pilot latch and manual latch pin

3/8" NPT Exh Port

1/4" NPT Line Ports

9 Panel Thickness (MAX)

1 1/2" x 26TPI Whit Form

1/8" NPT Signal Port

3 - Ø5.5 Mounting Holes

30.5 (1.2") A/F HEX

1/8" NPT Signal Port

Manual Latch

22
1500 Series spool valves – Relay Valve Range – 1/4" 3/2 Pad (to pull) spring-return with pilot / manual latch and visual indicator

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M27HVR2B</td>
<td>2326M27HER2B</td>
<td>76</td>
<td>1.00</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pad operated, spring-return with pilot / manual latch pin and visual indicator

The visual indicator will show RED when the valve is closed. The valve is operated by pulling out the pad - the latch pin when pressed while releasing the pad will hold the valve in the open position - the visual indicator will still show RED. When a pilot signal is applied the latch pin is released and the visual indicator will show GREEN - on loss of the pilot signal the valve closes and the visual indicator will show RED - reintroduction of the pilot signal will not operate the valve.
1500 Series spool valves – 1/4” 3/2 Pad operated (push-pull) with position indicator switch

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326877-V1657A</td>
<td>2326877-E1657A</td>
<td>76</td>
<td>0.65</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
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</table>
1500 Series spool valves — ⅛" 3/2 Fusible bulb operated

Ordering Information

<table>
<thead>
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<th>Product Code</th>
<th>Standard Operating Temperature °C (°F)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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</thead>
<tbody>
<tr>
<td>2326M2T-VR2B</td>
<td>68 (154)</td>
<td>0.85</td>
<td>1.0</td>
<td>10</td>
<td>![Product Image]</td>
</tr>
</tbody>
</table>

Alternative operating temperatures available suffix product code with selection from options below: e.g. 2326M2T-VR2B093

- For 79 °C (174 °F) - Suffix with 079
- For 93 °C (199 °F) - Suffix with 093
- For 141 °C (286 °F) - Suffix with 141

Note: Other temperatures not shown above available on request.
1500 Series spool valves – 1/4" Key operated 2 position positive
1/4" Key operated spring-return

### 3/2 Function

![Diagram of 3/2 Function spool valve]

### 5/2 Function

![Diagram of 5/2 Function spool valve]

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Type</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326BRR-VR2B</td>
<td>2326BRR-ER2B</td>
<td>3/2</td>
<td>Positive</td>
<td>0.50</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2326M2R-VR2B</td>
<td>2326M2R-ER2B</td>
<td>3/2</td>
<td>Spring-return</td>
<td>0.50</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2526BRR-VR2B</td>
<td>2526BRR-ER2B</td>
<td>5/2</td>
<td>Positive</td>
<td>0.55</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2526M2R-VR2B</td>
<td>2526M2R-ER2B</td>
<td>5/2</td>
<td>Spring-return</td>
<td>0.55</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1500 Series spool valves – 1/4” Button operated spring-return

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M2G-VR2B</td>
<td>2326M2G-ER2B</td>
<td>3/2</td>
<td>76</td>
<td>0.50</td>
<td>1.0</td>
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<td></td>
</tr>
<tr>
<td>2326M2GGVR2B</td>
<td>2326M2GGER2B</td>
<td>3/2 guarded</td>
<td>76</td>
<td>0.55</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1500 Series spool valves – 1/4” Lever operated spring-return

### 3/2 Function

![Diagram of 3/2 Function Valve]

### 5/2 Function

![Diagram of 5/2 Function Valve]

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M25-VR2B</td>
<td>2326M25-ER2B</td>
<td>3/2</td>
<td>13</td>
<td>0.65</td>
<td>1.0</td>
<td><img src="symbol1.png" alt="Symbol" /></td>
<td><img src="product1.png" alt="Product1" /></td>
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<tr>
<td>2526M25-VR2B</td>
<td>2526M25-ER2B</td>
<td>5/2</td>
<td>16</td>
<td>1.10</td>
<td>1.2</td>
<td><img src="symbol2.png" alt="Symbol" /></td>
<td><img src="product2.png" alt="Product2" /></td>
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</table>
## 1500 Series spool valves — 1/4" Lever operated (detented) spring-return

### 3/2 Function

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326B553VR2B</td>
<td>2326B553ER2B</td>
<td>3/2</td>
<td>13</td>
<td>0.80</td>
<td>1.0</td>
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<td><img src="image" alt="Product" /></td>
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<tr>
<td>2526B553VR2B</td>
<td>2526B553ER2B</td>
<td>5/2</td>
<td>16</td>
<td>1.10</td>
<td>1.2</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
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</tbody>
</table>

### 5/2 Function

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326B553VR2B</td>
<td>2326B553ER2B</td>
<td>3/2</td>
<td>13</td>
<td>0.80</td>
<td>1.0</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>2526B553VR2B</td>
<td>2526B553ER2B</td>
<td>5/2</td>
<td>16</td>
<td>1.10</td>
<td>1.2</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>
1500 Series spool valves – 1/4” Pilot solenoid operated spring-return

A range of 3/2 and 5/2 solenoid operated spool valves in stainless steel for use on gases.

Features and Benefits
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Working Temperature Range
- Valve only version
  -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- 1/4” NPT line port
- 1/8” NPT pilot ports

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

Construction Materials
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
- 3/2 valves - 1,000 l/min (35.3 SCFM)
- 5/2 valves - 1,200 l/min (42.4 SCFM)

Certification Options Available

UL, S, CE, ATEX, EAC
1500 Series spool valves — 1/4" Double pilot solenoid operated

Redefining Flow Control

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326B33-VR2B*#</td>
<td>2326B33-ER2B*#</td>
<td>3/2</td>
<td>2 Bar</td>
<td>0.71 + Solenoids</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2526B33-VR2B*#</td>
<td>2526B33-ER2B*#</td>
<td>5/2</td>
<td>2 Bar</td>
<td>1.02 + Solenoids</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500 Series spool valves – 1/4" Pilot solenoid operated pilot air return

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326B13-VR2B*#</td>
<td>2326B13-ER2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>0.71 + Solenoid</td>
<td>1.0</td>
<td><img src="image1.png" alt="Symbol" /></td>
<td><img src="image2.png" alt="Product" /></td>
</tr>
<tr>
<td>2526B13-VR2B*#</td>
<td>2526B13-ER2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>1.01 + Solenoid</td>
<td>1.2</td>
<td><img src="image3.png" alt="Symbol" /></td>
<td><img src="image4.png" alt="Product" /></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500 Series spool valves — 1/4” Pilot solenoid operated spring-return

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M23-VR2B**#</td>
<td>2326M23-ER2B**#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>0.56 + Solenoid</td>
<td>1.0</td>
<td><img src="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Product" /></td>
</tr>
<tr>
<td>2526M23-VR2B**#</td>
<td>2526M23-ER2B**#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>1.01 + Solenoid</td>
<td>1.2</td>
<td><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Product" /></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500 Series spool valves – \(\frac{1}{4}\)“ Pilot solenoid operated latchlock manual reset

### 3/2 Function

![Diagram of 3/2 Function](image)

### 5/2 Function

![Diagram of 5/2 Function](image)

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M232VR2B*#</td>
<td>2326M232ER2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>0.94 + Solenoid</td>
<td>1.0</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>2526M232VR2B*#</td>
<td>2526M232ER2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>1.39 + Solenoid</td>
<td>1.2</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500 Series spool valves — ¼" Pilot solenoid operated reverse latchlock manual reset

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M238VR2B**#</td>
<td>2326M238ER2B**#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>0.94 + Solenoid</td>
<td>1.0</td>
<td>![Symbol for 3/2 Function]</td>
<td>![Product Image for 3/2 Function]</td>
</tr>
<tr>
<td>2526M238VR2B**#</td>
<td>2526M238ER2B**#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>1.39 + Solenoid</td>
<td>1.2</td>
<td>![Symbol for 5/2 Function]</td>
<td>![Product Image for 5/2 Function]</td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61

Redefining Flow Control
1600 Series spool valves – ½” Pilot operated

A range of 3/2 and 5/2 pilot operated spool valves in stainless steel for use on gases.

Features and Benefits
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Working Temperature Range
- Valve only version
  -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- ½” NPT line port
- ¼” NPT pilot ports

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

Construction Materials
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
- 3/2 valves - 3,500 l/min (123 SCFM)
- 5/2 valves - 3,500 l/min (123 SCFM)

Certification Options Available
UL  CEE  ATEX  EAC
1600 Series spool valves – 1/2” Pilot operated spring-return

**3/2 Function**

**5/2 Function**

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M21-VS2B</td>
<td>4326M21-ES2B</td>
<td>3/2</td>
<td>3 Bar</td>
<td>1.40</td>
<td>3.5</td>
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<tr>
<td>4526M21-VS2B</td>
<td>4526M21-ES2B</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.00</td>
<td>3.5</td>
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</table>
1600 Series spool valves – ½” Double pilot operated

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
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<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326B11-ES2B</td>
<td>4326B11-ES2B</td>
<td>3/2</td>
<td>2 Bar</td>
<td>1.50</td>
<td>3.5</td>
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<tr>
<td>4526B11-ES2B</td>
<td>4526B11-ES2B</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.10</td>
<td>3.5</td>
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</tbody>
</table>
1600 Series spool valves – ½” Pilot operated latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M212VS2B</td>
<td>4326M212ES2B</td>
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<td>2 Bar</td>
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<tr>
<td>4526M212VS2B</td>
<td>4526M212ES2B</td>
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<td>2 Bar</td>
<td>2.60</td>
<td>3.5</td>
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</tbody>
</table>
1600 Series spool valves – ½” Pilot operated reverse latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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</thead>
<tbody>
<tr>
<td>4326M218VS2B</td>
<td>4326M218ES2B</td>
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<td>2 Bar</td>
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<tr>
<td>4526M218VS2B</td>
<td>4526M218ES2B</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.60</td>
<td>3.5</td>
<td><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Product" /></td>
</tr>
</tbody>
</table>
1600 Series spool valves — 1/2" Mechanically operated spring-return

A range of 3/2 and 5/2 manually operated spool valves in stainless steel for use on gases.

Features and Benefits
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Working Temperature Range
- Valve only version
  -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- 1/2" NPT line port
- 1/8" NPT pilot ports

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

Construction Materials
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
- 3/2 valves - 1,000 l/min (35.3 SCFM)
- 5/2 valves - 1,200 l/min (42.4 SCFM)

Certification Options Available

Redefining Flow Control
1600 Series spool valves – 1/2” Pad operated (push pull)

1/2” Pad operated (push pull) detented

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Description</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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<tbody>
<tr>
<td>4326877-VS2B</td>
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<tr>
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<tr>
<td>4526877-VS2B</td>
<td>4526877-ES2B</td>
<td>5/2 pad operated push pull</td>
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<td>5/2 pad operated push pull</td>
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</table>
1600 Series spool valves – 1/2” Key operated 2 position positive
1/3” Key operated spring-return

3/2 Function

5/2 Function

Ordering Information

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<th>Product Code</th>
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<tr>
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<td>4326BRR-ES2B</td>
<td>3/2 key operated 2 position positive</td>
<td>61</td>
<td>1.75</td>
<td>3.5</td>
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<td><img src="image2" alt="Product" /></td>
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<tr>
<td>4326M2R-VS2B</td>
<td>4326M2R-ES2B</td>
<td>3/2 key operated spring-return</td>
<td>61</td>
<td>1.75</td>
<td>3.5</td>
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<td>4526BRR-ES2B</td>
<td>5/2 key operated 2 position positive</td>
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<tr>
<td>4526M2R-VS2B</td>
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<td><img src="image8" alt="Product" /></td>
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Redefining Flow Control
1600 Series spool valves – Pad operated pilot return

### 3/2 Function

![Diagram of 3/2 Function](image1)

### 5/2 Function

![Diagram of 5/2 Function](image2)

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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</thead>
<tbody>
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<td>4326B17- VS2B</td>
<td>4326B17-ES2B</td>
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<td>4526B17- VS2B</td>
<td>4526B17-ES2B</td>
<td>5/2</td>
<td>112</td>
<td>2.10</td>
<td>3.5</td>
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</table>
1600 Series spool valves – Pad operated spring-return

3/2 Function

5/2 Function

Ordering Information

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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
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<th>Weight (kg)</th>
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<tr>
<td>4326M27-VS2B</td>
<td>4326M27-ES2B</td>
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<tr>
<td>4526M27-VS2B</td>
<td>4526M27-ES2B</td>
<td>5/2</td>
<td>112</td>
<td>1.95</td>
<td>3.5</td>
<td><img src="image3" alt="Symbol" /></td>
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</table>
1600 Series spool valves – Lever operated spring-return

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M25-VS2B</td>
<td>4526M25-ES2B</td>
<td>3/2</td>
<td>61</td>
<td>1.40</td>
<td>3.5</td>
<td><img src="image" alt="Symbol for 3/2 Function" /></td>
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<tr>
<td>4526M25-VS2B</td>
<td>4526M25-ES2B</td>
<td>5/2</td>
<td>61</td>
<td>2.0</td>
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<td><img src="image" alt="Symbol for 5/2 Function" /></td>
<td><img src="image" alt="Product for 5/2 Function" /></td>
</tr>
</tbody>
</table>
1600 Series spool valves – Lever operated (detented) spring-return

### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Operating Force (N)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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<tr>
<td>4326B553VS2B</td>
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<td>3/2</td>
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<tr>
<td>4526B553VS2B</td>
<td>4526B553ES2B</td>
<td>5/2</td>
<td>61</td>
<td>2.10</td>
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<td><img src="product2.png" alt="Product" /></td>
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</table>
1600 Series spool valves – ½” Pilot operated spring-return

A range of 3/2 and 5/2 solenoid operated spool valves in stainless steel for use on gases.

Features and Benefits
• Specifically designed for severe environments
• 3/2 and 5/2 versions
• Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Working Temperature Range
• Valve only version
  -20 to +180 °C (-4 to +356 °F)
• Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
• 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
• ½” NPT line port
• ⅛” NPT pilot ports

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

Construction Materials
• Body: 316L stainless steel
• Spool: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
• 3/2 valves - 3,500 l/min (123 SCFM)
• 5/2 valves - 3,500 l/min (123 SCFM)

Certification Options Available

K-TYPE solenoid shown - See Solenoid Specification Chart
1600 Series spool valves — Pilot solenoid operated spring-return

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M23-VS2B*#</td>
<td>4326M23-ES2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>1.50 + Solenoid</td>
<td>3.5</td>
<td><img src="symbol1.png" alt="Symbol" /></td>
<td><img src="product1.png" alt="Product" /></td>
</tr>
<tr>
<td>4526M23-VS2B*#</td>
<td>4526M23-ES2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.10 + Solenoid</td>
<td>3.5</td>
<td><img src="symbol2.png" alt="Symbol" /></td>
<td><img src="product2.png" alt="Product" /></td>
</tr>
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* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1600 Series spool valves – Double pilot solenoid operated

3/2 Function

5/2 Function

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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</thead>
<tbody>
<tr>
<td>4326833-V52B*#</td>
<td>4326833-ES2B*#</td>
<td>3/2</td>
<td>2 Bar</td>
<td>1.70 + Solenoids</td>
<td>3.5</td>
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<td><img src="product1.png" alt="Product" /></td>
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<tr>
<td>4526833-V52B*#</td>
<td>4526833-ES2B*#</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.30 + Solenoids</td>
<td>3.5</td>
<td><img src="symbol2.png" alt="Symbol" /></td>
<td><img src="product2.png" alt="Product" /></td>
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* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1600 Series spool valves – Pilot solenoid operated latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

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<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M232VS2B*#</td>
<td>4326M232ES2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>2.10 + Solenoid</td>
<td>3.5</td>
<td><img src="symbol1.png" alt="Symbol" /></td>
<td><img src="product1.png" alt="Product" /></td>
</tr>
<tr>
<td>4526M232VS2B*#</td>
<td>4526M232ES2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.70 + Solenoid</td>
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<td><img src="symbol2.png" alt="Symbol" /></td>
<td><img src="product2.png" alt="Product" /></td>
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</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1600 Series spool valves – Pilot solenoid operated reverse latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

<table>
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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326M238VS2B*#</td>
<td>4326M238ES2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>2.10 + Solenoid</td>
<td>3.5</td>
<td><img src="image" alt="Symbol 1" /></td>
<td><img src="image" alt="Product 1" /></td>
</tr>
<tr>
<td>4526M238VS2B*#</td>
<td>4526M238ES2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.70 + Solenoid</td>
<td>3.5</td>
<td><img src="image" alt="Symbol 2" /></td>
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</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1650 Series spool valves — ¾” & 1” Pilot operated

A range of 3/2 and 5/2 pilot operated spool valves in stainless steel for use on gases.

**Features and Benefits**
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range
  -20 to +180 ºC (-4 to +356 ºF)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

**Working Temperature Range**
- Valve only version
  -20 to +180 ºC (-4 to +356 ºF)
- Low temperature version
  -50 ºC (-58 ºF optional)

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

**Ports NPT (BSP Option Available)**
- ¾” & 1” NPT line port
- ¼” NPT pilot ports

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

**Construction Materials**
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

**Maximum Flow**
At 6 bar, 1 bar differential:
- ¾” valves - 9,000 l/min (318 SCFM)
- 1” valves - 13,500 l/min (477 SCFM)

Certification Options Available
- CE
- Ex
- ATEX
- EAC

Redefining Flow Control
1650 Series spool valves – 3/4" & 1" Pilot operated spring-return

### 3/2 Function

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<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>
<th>K</th>
<th>L</th>
<th>M</th>
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<td>122</td>
<td>93.5</td>
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### 5/2 Function

<table>
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<th>D</th>
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### Ordering Information

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<th>Weight (kg)</th>
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<td>8326M21-ES2B</td>
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<td>1&quot;</td>
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<td>13.5</td>
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<td>6526M21-ES2B</td>
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<td>3/4&quot;</td>
<td>3.2</td>
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</table>
1650 Series spool valves – 3/4” & 1” Double pilot operated

3/2 Function

5/2 Function

Ordering Information

<table>
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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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<td>3/4”</td>
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<tr>
<td>8326811-VS2B</td>
<td>8326811-ES2B</td>
<td>3/2</td>
<td>1”</td>
<td>5.4</td>
<td>13.5</td>
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<td>6526811-VS2B</td>
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<td>3/4”</td>
<td>3.4</td>
<td>9.0</td>
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<tr>
<td>8526811-VS2B</td>
<td>8526811-ES2B</td>
<td>5/2</td>
<td>1”</td>
<td>7.5</td>
<td>13.5</td>
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</tr>
</tbody>
</table>

Redefining Flow Control
1650 Series spool valves  –  ¾" & 1" Manually operated

A 3/2 manually operated spool valve in stainless steel for use on gases.

Features and Benefits
• Specifically designed for severe environments
• Ambient temperature range
  -20 to +180 °C (-4 to +356 °F)
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Working Temperature Range
• Valve only version
  -20 to +180 °C (-4 to +356 °F)
• Low temperature version
  -50 °C (-58 °F optional)

Working Pressure
• 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
• ¾" & 1" NPT line port
• ⅛" NPT pilot ports

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

Construction Materials
• Body: 316L stainless steel
• Spool: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
• ¾" valves - 9,000 L/Min (318 SCFM)
• 1" valves - 13,500 L/Min (477 SCFM)

Certification Options Available

CE  ATEX  EAC
### 1650 Series spool valves — ¾" & 1" 3/2 Pad operated spring-return

![Diagram of 1650 Series spool valves](image)

#### Size

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<th>I</th>
<th>J</th>
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<th>L</th>
<th>M</th>
<th>N</th>
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<tbody>
<tr>
<td>¾&quot;</td>
<td>103</td>
<td>77</td>
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<td>31.75</td>
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<td>32.8</td>
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#### Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
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</table>
1650 Series spool valves – 3/4” & 1” Pilot solenoid operated

A range of 3/2 and 5/2 solenoid operated spool valves in stainless steel for use on gases.

Features and Benefits
- Specifically designed for severe environments
- 3/2 and 5/2 versions
- Ambient temperature range -20 to +180 °C (-4 to +356 °F)
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Working Temperature Range
- Valve only version -20 to +180 °C (-4 to +356 °F)
- Low temperature version -50 °C (-58 °F optional)

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- ¾” & 1” NPT line port
- 1/8” NPT pilot ports

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

Construction Materials
- Body: 316L stainless steel
- Spool: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

Maximum Flow
At 6 bar, 1 bar differential:
- ¾” valves - 9,000 L/Min (318 SCFM)
- 1” valves - 13,500 L/Min (477 SCFM)

Certification Options Available
UL  S  CE  EX  ATEX  EAC
1650 Series spool valves — 3/4" & 1" Pilot solenoid operated spring-return

3/2 Function

<table>
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<tr>
<th>Size</th>
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<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<th>N</th>
<th>O</th>
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5/2 Function

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Ordering Information

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<th>Function</th>
<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61

Redefining Flow Control
1650 Series spool valves — ³⁄₄" & 1" Double solenoid operated spring-return

3/2 Function

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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5/2 Function

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<th>C</th>
<th>D</th>
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<th>F</th>
<th>G</th>
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<th>M</th>
<th>N</th>
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Ordering Information

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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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<td>6526833-ES2B*#</td>
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* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500, 1600 & 1650 Series spool valves – Solenoid operators for use with pilot solenoid spool valves

<table>
<thead>
<tr>
<th>Code</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>C</td>
<td>12 VDC</td>
</tr>
<tr>
<td>D</td>
<td>24 VDC</td>
</tr>
<tr>
<td>F</td>
<td>48 VDC</td>
</tr>
<tr>
<td>M</td>
<td>110 VAC 50/60 Hz</td>
</tr>
<tr>
<td>S</td>
<td>220 VAC 50 Hz</td>
</tr>
<tr>
<td>Y</td>
<td>28 VDC</td>
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</table>
# 1500, 1600 & 1650 Series spool valves

## Solenoid specifications

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<th>Model Code</th>
<th>K</th>
<th>7</th>
<th>CL</th>
<th>P</th>
<th>T</th>
<th>4</th>
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<tbody>
<tr>
<td><strong>Type of Protection</strong></td>
<td>Exd IIC T6</td>
<td>Exd IIC T4</td>
<td>NEMA 7 &amp; 9</td>
<td>Eex ia IIC T4/T5</td>
<td>Eex ia IIC T6</td>
<td>Non-hazardous</td>
</tr>
<tr>
<td><strong>Approved Area</strong></td>
<td>Zones 1 and 2</td>
<td>Zones 1 and 2</td>
<td>Class I, Div 1, Group C &amp; D. Class II, Div 1, Groups E, F, &amp; G. Class II, Div 2, Groups C, D, E, F &amp; G.</td>
<td>Zones 1 and 2</td>
<td>Zones 0</td>
<td>None</td>
</tr>
<tr>
<td><strong>Degree of Protection</strong></td>
<td>IP67 (NEMA Equivalent: 6)</td>
<td>IP67 (NEMA Equivalent: 6)</td>
<td>NEMA 4 (IP55)</td>
<td>IP66 (NEMA Equivalent: 4X)</td>
<td>IP66 (NEMA Equivalent: 4X)</td>
<td>IP65 (NEMA Equivalent: 4)</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>316 Stainless Steel, Epoxy coated</td>
<td>316 Stainless Steel, Epoxy coated</td>
<td>Stainless Steel. Coiled</td>
<td>Glass reinforced Polyamide (Stainless Steel conduit hub)</td>
<td>Glass reinforced Polyamide</td>
<td>Moulded plastic</td>
</tr>
<tr>
<td><strong>Cable Entry</strong></td>
<td>M20 x 1.5 (Optional 1/2” NPT consult factory for code)</td>
<td>M20 x 1.5 (Optional 1/2” NPT consult factory for code)</td>
<td>1/2” NPT or 24” flying lead</td>
<td>M20 x 1.5 (Optional 1/2” NPT consult factory for code)</td>
<td>M20 x 1.5 (Optional 1/2” NPT consult factory for code)</td>
<td>DIN plug</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>5W</td>
<td>5W</td>
<td>1.8 W / 1.8 W</td>
<td>7.5 W (DC)</td>
<td>2.3 W (24 VDC)</td>
<td>9 W (DC)</td>
</tr>
<tr>
<td><strong>Maximum Admissible Surface Temp</strong></td>
<td>85 °C (185 °F)</td>
<td>135 °C (275 °F)</td>
<td>160 °C (320 °F)</td>
<td>T4 135 °C (275 °F) T5 100 °C (212 °F)</td>
<td>85 °C (185 °F)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Maximum Ambient Temperature</strong></td>
<td>40 °C (104 °F)</td>
<td>80 °C (176 °F)</td>
<td>40 °C (104 °F)</td>
<td>T4 75 °C (167 °F) T5 40 °C (104 °F)</td>
<td>65 °C (149 °F)</td>
<td>50 °C (122 °F)</td>
</tr>
<tr>
<td><strong>Maximum Fluid Temperature</strong></td>
<td>80 °C (176 °F)</td>
<td>80 °C (176 °F)</td>
<td>105 °C (221 °F)</td>
<td>75 °C (167 °F)</td>
<td>75 °C (167 °F)</td>
<td>75 °C (167 °F)</td>
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<td>ATEX, CSA, UL, IECEx &amp; EAC</td>
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<td>EAC</td>
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</tbody>
</table>

**NOTES:**

The combination of valve and coil will determine maximum ambient i.e. always the lower of the two.

‘T’ type solenoid only available with 28 VDC coil (Y).
Service and Support

rotork®
Site Services

In each of our divisions, Site Services staff are dedicated to providing customer service and support, carrying out new installations and delivering retrofit projects. These teams are based out of service centres around the world and are complemented by factory-trained agents.

Our expert technicians support Rotork customers, allowing us to deliver on our promise of global solutions backed by local service.

Visit www.rotork.com to identify your nearest Rotork location.

Client Support Programme

Rotork offers a premium level of product reliability and availability through the flexible Client Support Programme (CSP). Designed to facilitate the highest production demands while providing a tiered approach to maintenance, the CSP is committed to reducing maintenance downtime and costs.

Through consultation, the CSP is tuned to deliver the optimum level of maintenance through predictive maintenance algorithms.

Features of the CSP are:

- Fixed term prices for Rotork products and services
- Customisable cover based on equipment criticality to production
- Equipment performance related targets for reliability and availability
- Priority support with customisable response times
- Fully parts and labour inclusive, no additional costs or discounted labour and parts
- Fix or replace options
- Periodic equipment performance and status reports
- Built-in regular health checks on all equipment

Benefits of the CSP include but are not limited to:

- Year-on-year reduced maintenance costs
- Easy budget management
- Maximised production resulting in reduced downtime
- Year-on-year improved reliability and availability
- Optimised resource usage to accelerate in-house projects
- Reduced lifecycle costs