Rotork Instruments

Spool Valves and Accessories
1500, 1600, 1650 series

Keeping the World Flowing
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. Keeping the world flowing.
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  SB  CE  Ex  ATEX  TEx  EAC
1500 Series spool valves – ¼” 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
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Media & Ambient Temperature Range
• -20 to + 180 °C (-4 to +356 °F)
• Low temperature version
  -50° to +90 °C (-58 to +248 °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)
• ¼” 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

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: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer (EPDM on low temperature options)

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

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

### 3/2 Function

![3/2 Function Diagram]

### 5/2 Function

![5/2 Function Diagram]

### Ordering Information

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<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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If ATEX certification is required suffix product code with 'ATEX'.
1500 Series spool valves — \( \frac{1}{4} \)” Double pilot operated

### 3/2 Function

- 3 - \( \frac{1}{4} \)” NPT Line Ports
- 3 - \( \frac{1}{2} \)” NPT Mounting Holes

### 5/2 Function

- 5 - \( \frac{1}{4} \)” NPT Line Ports
- 3 - \( \frac{1}{2} \)” NPT Mounting Holes

### Ordering Information

<table>
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<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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If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ⅛” Pilot servo operated spring-return

Ordering Information

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<th>Min Pilot Pressure</th>
<th>Weight (kg)</th>
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If ATEX certification is required suffix product code with 'ATEX'
1500 Series spool valves – ¼” Pilot operated latchlock manual reset

3/2 Function

5/2 Function

Ordering Information

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<th>Product Code</th>
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<th>Function</th>
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<th>Weight (kg)</th>
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<td>5 Bar</td>
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If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ½" Pilot operated reverse latchlock manual reset

Ordering Information

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<th>Min Pilot Pressure</th>
<th>Weight (kg)</th>
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<td>2526M218VR2B</td>
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<td>5 Bar</td>
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<td>1.2</td>
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If ATEX certification is required suffix product code with ‘ATEX’
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
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Media & Ambient Temperature Range
• -20 to + 180 °C (-4 to +356 °F)
• Low temperature version
  -50 to +90 °C (-58 to +248 °F)

Notes: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.
For part numbers 2326M28 (see pg.12), Media and Ambient temperature range is -20 to +75 °C (-4 to +167 °F).

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

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: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer (EPDM1 on low temperature options)
• Plunger Gaiter (roller lever operated valve only): Nitrile rubber (Note the gaiter is not fitted to low temperature options)
• Roller (standard option): Acetal
• Roller (low temp option): 316 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:
• 3/2 valves - 1,000 l/min (35.3 SCFM)
• 5/2 valves - 1,200 l/min (42.4 SCFM)

Certification Options Available

Spool Valves and Accessories
1500 Series spool valves – \(\frac{1}{4}\)" Plunger operated spring-return

### Ordering Information

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<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
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If ATEX certification is required suffix product code with ‘ATEX’
### 1500 Series spool valves – ¼” Roller lever operated spring-return

#### 3/2 Function

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<th>Product Code</th>
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**Ordering Information**

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

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**Spool Valves and Accessories**
1500 Series spool valves – ¾” Roller operated spring-return

### 3/2 Function

- 4.5 Roller Width
- 30.5 (1.2”) A/F HEX

### 5/2 Function

- 4.5 Roller Width
- 30.5 (1.2”) A/F HEX

### Ordering Information

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<th>Product Code</th>
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If ATEX certification is required suffix product code with ‘/ATEX’
1500 Series spool valves – ¼” 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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
- -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 to +90 °C (-58 to +248 °F)

Notes: When product is ordered as ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6. Excludes fusible bulb valve, please refer to separate temperature ratings on page 25.

Working Pressure
- 12 bar (174 psi) maximum

Ports NPT (BSP Option Available)
- ¼” NPT line port
- ⅜” NPT pilot ports

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer (EPDM¹ on low temperature options)

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

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 — ¼" Manually operated switch 2 position positive
¼" Manually operated switch spring-return

### 3/2 Function

- **Front Nut:** 30.5 (1.2"
- **Back Nut:** A/F HEX

### 5/2 Function

- **Front Nut:** 30.5 (1.2"
- **Back Nut:** A/F HEX

### Ordering Information

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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Options</th>
<th>Operating Force (N)</th>
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<td><img src="image" alt="Product" /></td>
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<td>2326820-ER2B</td>
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<td>3/2 manually operated switch spring-return</td>
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<td>5/2 manually operated switch 2 position positive</td>
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<td>2526820-ER2B</td>
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If ATEX certification is required suffix product code with ‘ATEX’
### 1500 Series Spool Valves

#### Spool Valves and Accessories

**3/2 Function**

![3/2 Function Diagram]

**5/2 Function**

![5/2 Function Diagram]

#### Ordering Information

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<tbody>
<tr>
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<td>2326M275ER2B</td>
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<td>With lock nuts</td>
<td>76</td>
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<td>2526M27-ER2B</td>
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<td>Without lock nuts</td>
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If ATEX certification is required, suffix product code with 'ATEX'.
1500 Series spool valves – 

3/2 Function

5/2 Function

Ordering Information

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<th>Options</th>
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<td>3/2 pad operated push pull with lock nuts</td>
<td>0.63</td>
<td>1.0</td>
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<td>2326B7773VR2B</td>
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<td>3/2</td>
<td>3/2 pad operated push pull with detent c/w lock nuts</td>
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<td>1.0</td>
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<tr>
<td>2526B775-VR2B</td>
<td>2526B775-ER2B</td>
<td>5/2</td>
<td>5/2 pad operated push pull</td>
<td>0.93</td>
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<td>2526B775ER2B</td>
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<td>5/2 pad operated push pull with lock nuts</td>
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<td>1.2</td>
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<td>5/2 pad operated push pull with detent</td>
<td>0.95</td>
<td>1.2</td>
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If ATEX certification is required suffix product code with 'ATEX'
1500 Series spool valves – \( \frac{3}{4} \)" Pad operated pilot air return

### Ordering Information

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<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Function</th>
<th>Options</th>
<th>Min pilot pressure</th>
<th>Weight (kg)</th>
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<td>2326B17-ER2B</td>
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<td>Without lock nuts</td>
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<td>1.0</td>
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<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>2526B17-VR2B</td>
<td>2526B17-ER2B</td>
<td>5/2</td>
<td>Without lock nuts</td>
<td>2.3 Bar</td>
<td>0.95</td>
<td>1.2</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>2526B175VR2B</td>
<td>2526B175ER2B</td>
<td>5/2</td>
<td>With lock nuts</td>
<td>2.3 Bar</td>
<td>0.95</td>
<td>1.2</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’.
1500 Series spool valves – ¾” Pad (to pull) or pilot operated spring-return

### 3/2 Function

- ¼” NPT Pilot Port
- 3/16” NPT Line Ports
- 4.5 Panel Thickness (MAX)
- 5/16” x 26 TPI Whit Form
- 3 – Ø5.5 Mounting Holes

### 5/2 Function

- ¼” NPT Pilot Port
- 5 – 3/16” NPT Line Ports
- 4.5 Panel Thickness (MAX)
- 5/16” x 26 TPI Whit Form
- 3 – Ø5.5 Mounting Holes

### Ordering Information

<table>
<thead>
<tr>
<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>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M2F-VR2B</td>
<td>2326M2F-ER2B</td>
<td>3/2</td>
<td>Without lock nuts</td>
<td>76</td>
<td>0.65</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2326M2F5VR2B</td>
<td>2326M2F5ER2B</td>
<td>3/2</td>
<td>With lock nuts</td>
<td>76</td>
<td>0.65</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<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>
<td></td>
<td></td>
</tr>
<tr>
<td>2526M2F5VR2B</td>
<td>2526M2F5ER2B</td>
<td>5/2</td>
<td>With lock nuts</td>
<td>89</td>
<td>1.00</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ¼" 3/2 Pad (to pull) spring-return with pilot latch

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>2326M276VR28</td>
<td>2326M276ER2B</td>
<td>76</td>
<td>0.75</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

¾” 3/2 Pad (to pull) spring-return with pilot 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>2326M27JVR2B</td>
<td>2326M27JER2B</td>
<td>76</td>
<td>0.90</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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
¼” 3/2 Pad (to pull) spring-return with pilot and manual latch

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></td>
<td></td>
</tr>
</tbody>
</table>

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

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

**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.
1500 Series spool valves – Relay Valve Range – ¼” 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>

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

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 – ¼” 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><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ¼” 3/2 Fusible bulb operated

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Standard Operating Temperature °C (°F)</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>2326M2T-VR2B</td>
<td>68 (154)</td>
<td>0.85</td>
<td>1.0</td>
<td></td>
<td><img src="image" alt="Diagram" /></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.

If ATEX certification is required suffix product code with ‘/ATEX’
1500 Series spool valves – ¼" Key operated 2 position positive
¼" Key operated spring-return

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>

If ATEX certification is required suffix product code with ’ATEX’
### 1500 Series spool valves – ¼” Button operated spring-return

#### 3/2 Function

![Diagram of 3/2 Function spool valve]

#### 3/2 Function (guarded)

![Diagram of 3/2 Function (guarded) spool 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>2326M2G-VR2B</td>
<td>2326M2G-ER2B</td>
<td>3/2</td>
<td>76</td>
<td>0.50</td>
<td>1.0</td>
<td>![Symbol for 2326M2G-VR2B]</td>
<td>![Product for 2326M2G-VR2B]</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>![Symbol for 2326M2GGVR2B]</td>
<td>![Product for 2326M2GGVR2B]</td>
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</tbody>
</table>

If ATEX certification is required, suffix product code with ‘ATEX’
1500 Series spool valves – ¼” 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>2326M25-VR2B</td>
<td>2326M25-ER2B</td>
<td>3/2</td>
<td>13</td>
<td>0.65</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<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></td>
<td></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ¾” Lever operated (detented)

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>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></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></td>
<td></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
1500 Series spool valves – ¼” 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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
Please refer to solenoid selection chart on page 62.

Working Pressure
- 12 bar (174 psi) maximum

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

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer (EPDM\(^1\) on low temperature options)

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

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
- CE
- ATEX
- EAC
### 1500 Series spool valves – ¼” Double pilot solenoid operated

#### 3/2 Function

![3/2 Function Diagram](image1)

#### 5/2 Function

![5/2 Function Diagram](image2)

### 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><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Product" /></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><img src="image5" alt="Symbol" /></td>
<td><img src="image6" 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 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>1</td>
<td><img src="diagram1.png" alt="Diagram" /></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>1</td>
<td><img src="diagram2.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1500 Series spool valves – ¼” 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="image" alt="Symbol 1" /></td>
<td><img src="image" alt="Product 1" /></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="image" alt="Symbol 2" /></td>
<td><img src="image" alt="Product 2" /></td>
</tr>
</tbody>
</table>

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

#### 3/2 Function

![3/2 Function Diagram]

#### 5/2 Function

![5/2 Function Diagram]

### 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>![Symbol 3/2]</td>
<td>![Product 3/2]</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>![Symbol 5/2]</td>
<td>![Product 5/2]</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></td>
<td></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></td>
<td></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
- -20 to +180 °C (-4 to +356 °F)
- Low temperature version
  -50 to +90 °C (-58 to +248 °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)
- 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

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer (EPDM 1 on low temperature options)

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

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
- cUL
- CE
- ATEX
- IECEx
- EAC

Spool Valves and Accessories
### 1600 Series spool valves — ¾" Pilot operated spring-return

**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>4326M21-V52B</td>
<td>4326M21-ES2B</td>
<td>3/2</td>
<td>3 Bar</td>
<td>1.40</td>
<td>3.5</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>4526M21-V52B</td>
<td>4526M21-ES2B</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.00</td>
<td>3.5</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘/ATEX’
1600 Series spool valves – ½” Double pilot operated

### 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>4326B11-VS2B</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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<td><img src="image1.png" alt="Symbol" /></td>
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<tr>
<td>4526B11-VS2B</td>
<td>4526B11-ES2B</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.10</td>
<td>3.5</td>
<td></td>
<td><img src="image2.png" alt="Symbol" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
### 1600 Series spool valves – ½” Pilot operated latchlock manual reset

#### 3/2 Function

<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>
<td>3/2</td>
<td>2 Bar</td>
<td>2.00</td>
<td>3.5</td>
<td><img src="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Product" /></td>
</tr>
</tbody>
</table>

#### 5/2 Function

<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>4526M212VS2B</td>
<td>4526M212ES2B</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.60</td>
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</table>

If ATEX certification is required suffix product code with 'ATEX'
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>
</tr>
</thead>
<tbody>
<tr>
<td>4326M218VS2B</td>
<td>4326M218ES2B</td>
<td>3/2</td>
<td>2 Bar</td>
<td>2.00</td>
<td>3.5</td>
<td><img src="symbol1.png" alt="Symbol" /></td>
<td><img src="product1.png" alt="Product" /></td>
</tr>
<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="symbol2.png" alt="Symbol" /></td>
<td><img src="product2.png" alt="Product" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘ATEX’
1600 Series spool valves – ½” 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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
- -20 to + 180 °C (-4 to +356 °F)
- Low temperature version
  -50 to +90 °C (-58 to +248 °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)
- 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

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

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

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 ATEX EAC
1600 Series spool valves – ½" Pad operated (push pull)
½" Pad operated (push pull) detented

Spool Valves and Accessories

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>
</tr>
</thead>
<tbody>
<tr>
<td>4326877-V52B</td>
<td>4326877-ES2B</td>
<td>3/2 pad operated push pull</td>
<td>112</td>
<td>1.30</td>
<td>3.5</td>
<td><img src="symbol1.png" alt="Symbol" /></td>
<td><img src="product1.png" alt="Product" /></td>
</tr>
<tr>
<td>43268773-V52B</td>
<td>43268773-ES2B</td>
<td>3/2 pad operated push pull with detent</td>
<td>112</td>
<td>1.40</td>
<td>3.5</td>
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<td><img src="product2.png" alt="Product" /></td>
</tr>
<tr>
<td>4526877-V52B</td>
<td>4526877-ES2B</td>
<td>5/2 pad operated push pull</td>
<td>112</td>
<td>1.90</td>
<td>3.5</td>
<td><img src="symbol3.png" alt="Symbol" /></td>
<td><img src="product3.png" alt="Product" /></td>
</tr>
<tr>
<td>45268773-V52B</td>
<td>45268773-ES2B</td>
<td>5/2 pad operated push pull with detent</td>
<td>112</td>
<td>2.00</td>
<td>3.5</td>
<td><img src="symbol4.png" alt="Symbol" /></td>
<td><img src="product4.png" alt="Product" /></td>
</tr>
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</table>

If ATEX certification is required suffix product code with ‘ATEX’
1600 Series spool valves – ½” Key operated 2 position positive ½” Key operated spring-return

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>
</tr>
</thead>
<tbody>
<tr>
<td>4326BRR-VS2B</td>
<td>4326BRR-ES2B</td>
<td>3/2 key operated 2 position positive</td>
<td>61</td>
<td>1.75</td>
<td>3.5</td>
<td><img src="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Product" /></td>
</tr>
<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>
<td><img src="image3" alt="Symbol" /></td>
<td><img src="image4" alt="Product" /></td>
</tr>
<tr>
<td>4526BRR-VS2B</td>
<td>4526BRR-ES2B</td>
<td>5/2 key operated 2 position positive</td>
<td>61</td>
<td>2.4</td>
<td>3.5</td>
<td><img src="image5" alt="Symbol" /></td>
<td><img src="image6" alt="Product" /></td>
</tr>
<tr>
<td>4526M2R-VS2B</td>
<td>4526M2R-ES2B</td>
<td>5/2 key operated spring-return</td>
<td>61</td>
<td>2.4</td>
<td>3.5</td>
<td><img src="image7" alt="Symbol" /></td>
<td><img src="image8" alt="Product" /></td>
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If ATEX certification is required suffix product code with ‘ATEX’
1600 Series spool valves – Pad operated pilot 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>
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</thead>
<tbody>
<tr>
<td>4326B17-VS2B</td>
<td>4326B17-ES2B</td>
<td>3/2</td>
<td>112</td>
<td>1.50</td>
<td>3.5</td>
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<tr>
<td>4526B17-VS2B</td>
<td>4526B17-ES2B</td>
<td>5/2</td>
<td>112</td>
<td>2.10</td>
<td>3.5</td>
<td><img src="4526B17-VS2B.png" alt="Symbol" /></td>
<td><img src="4526B17-VS2B.png" alt="Product" /></td>
</tr>
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</table>

If ATEX certification is required suffix product code with 'ATEX'
# 1600 Series spool valves – Pad operated spring-return

## 3/2 Function

![3/2 Function Diagram](image)

## 5/2 Function

![5/2 Function Diagram](image)

## 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>4326M27-VS2B</td>
<td>4326M27-ES2B</td>
<td>3/2</td>
<td>112</td>
<td>1.35</td>
<td>3.5</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<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="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
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</table>

If ATEX certification is required suffix product code with ‘ATEX’
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="image1.png" alt="Symbol" /></td>
<td><img src="image2.png" alt="Product" /></td>
</tr>
<tr>
<td>4526M25-VS2B</td>
<td>4526M25-ES2B</td>
<td>5/2</td>
<td>61</td>
<td>2.0</td>
<td>3.5</td>
<td><img src="image3.png" alt="Symbol" /></td>
<td><img src="image4.png" alt="Product" /></td>
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</table>

If ATEX certification is required suffix product code with ’ATEX’
1600 Series spool valves – Lever operated (detented)

### 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>4326B553VS2B</td>
<td>4326B553ES2B</td>
<td>3/2</td>
<td>61</td>
<td>1.50</td>
<td>3.5</td>
<td><img src="3/2.png" alt="3/2 Symbol" /></td>
<td><img src="3/2.png" alt="3/2 Product" /></td>
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<tr>
<td>4526B553VS2B</td>
<td>4526B553ES2B</td>
<td>5/2</td>
<td>61</td>
<td>2.10</td>
<td>3.5</td>
<td><img src="5/2.png" alt="5/2 Symbol" /></td>
<td><img src="5/2.png" alt="5/2 Product" /></td>
</tr>
</tbody>
</table>

If ATEX certification is required suffix product code with ‘/ATEX’
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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
Please refer to solenoid selection chart on page 62.

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

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

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

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)
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-V52B*#</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="image1.png" alt="Symbol 1" /></td>
<td><img src="image2.png" alt="Product 1" /></td>
</tr>
<tr>
<td>4526M23-V52B*#</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="image3.png" alt="Symbol 2" /></td>
<td><img src="image4.png" alt="Product 2" /></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1600 Series spool valves – Double pilot solenoid operated

### 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>Min Working Pressure</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>4326B33-VS2B*#</td>
<td>4326B33-ES2B*#</td>
<td>3/2</td>
<td>2 Bar</td>
<td>1.70 + Solenoids</td>
<td>3.5</td>
<td><img src="1" alt="Symbol" /></td>
<td><img src="1" alt="Product" /></td>
</tr>
<tr>
<td>4526B33-VS2B*#</td>
<td>4526B33-ES2B*#</td>
<td>5/2</td>
<td>2 Bar</td>
<td>2.30 + Solenoids</td>
<td>3.5</td>
<td><img src="1" alt="Symbol" /></td>
<td><img src="1" alt="Product" /></td>
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</tbody>
</table>

* 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

![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>4326M232VS2B*#</td>
<td>4326M232ES2B*#</td>
<td>3/2</td>
<td>3 Bar</td>
<td>2.10 + Solenoid</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4526M232VS2B*#</td>
<td>4526M232ES2B*#</td>
<td>5/2</td>
<td>3 Bar</td>
<td>2.70 + Solenoid</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1600 Series spool valves – 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>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="image1" alt="Symbol" /></td>
<td><img src="image2" alt="Product" /></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="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
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
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Media & Ambient Temperature Range
• -20 to + 180 °C (-4 to +356 °F)
• Low temperature version
  -50 to +90 °C (-58 to +248 °F)

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

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: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer¹

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

Maximum Flow
At 6 bar, 1 bar differential:
• ¾” valves - 9,000 l/min (318 SCFM)
• 1” valves - 13,500 l/min (477 SCFM)
### 1650 Series spool valves – ¾” & 1” Pilot operated spring-return

#### 3/2 Function

![3/2 Function Diagram]

<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>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾”</td>
<td>140</td>
<td>39</td>
<td>22.5</td>
<td>47.5</td>
<td>77</td>
<td>54</td>
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<td>91</td>
<td>103</td>
<td>23.75</td>
<td>25.5</td>
<td>32.5</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>165</td>
<td>45</td>
<td>22.5</td>
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<td>63.5</td>
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<td>36</td>
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</tbody>
</table>

#### 5/2 Function

![5/2 Function Diagram]

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
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</thead>
<tbody>
<tr>
<td>¾”</td>
<td>140</td>
<td>39</td>
<td>22.5</td>
<td>47.5</td>
<td>77</td>
<td>54</td>
<td>31.75</td>
<td>91</td>
<td>103</td>
<td>23.75</td>
<td>25.5</td>
<td>32.5</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>165</td>
<td>45</td>
<td>22.5</td>
<td>60</td>
<td>96</td>
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<td>104</td>
<td>116</td>
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#### Ordering Information

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<th>CV</th>
<th>Symbol</th>
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<tbody>
<tr>
<td>6326M21-VS2B</td>
<td>6326M21-ES2B</td>
<td>3/2</td>
<td>¾”</td>
<td>2.5</td>
<td>9.0</td>
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<tr>
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<td>8326M21-ES2B</td>
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<td>1”</td>
<td>5.3</td>
<td>13.5</td>
<td></td>
</tr>
<tr>
<td>6526M21-VS2B</td>
<td>6526M21-ES2B</td>
<td>5/2</td>
<td>¾”</td>
<td>3.2</td>
<td>9.0</td>
<td></td>
</tr>
<tr>
<td>8526M21-VS2B</td>
<td>8526M21-ES2B</td>
<td>5/2</td>
<td>1”</td>
<td>7.5</td>
<td>13.5</td>
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## 1650 Series spool valves — ¾” & 1” Double pilot operated

### 3/2 Function

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

<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>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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</thead>
<tbody>
<tr>
<td>¾”</td>
<td>188</td>
<td>31.75</td>
<td>44.5</td>
<td>54</td>
<td>44.5</td>
<td>44.5</td>
<td>44.5</td>
<td>91</td>
<td>103</td>
<td>50</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>205</td>
<td>47.5</td>
<td>73</td>
<td>63.5</td>
<td>63.5</td>
<td>63.5</td>
<td>96</td>
<td>110</td>
<td>122</td>
<td>102.5</td>
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</table>

### 5/2 Function

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

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<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾”</td>
<td>140</td>
<td>45</td>
<td>22.5</td>
<td>47.5</td>
<td>77</td>
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<td>31.75</td>
<td>91</td>
<td>103</td>
<td>23.75</td>
<td>25.5</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>165</td>
<td>45</td>
<td>22.5</td>
<td>60</td>
<td>96</td>
<td>63.5</td>
<td>31.75</td>
<td>104</td>
<td>116</td>
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### Ordering Information

<table>
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<tr>
<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>
</tr>
</thead>
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<tr>
<td>6326B11-VS2B</td>
<td>6326B11-ES2B</td>
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<td>¾”</td>
<td>2.5</td>
<td>9.0</td>
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<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>8326B11-VS2B</td>
<td>8326B11-ES2B</td>
<td>3/2</td>
<td>1”</td>
<td>5.4</td>
<td>13.5</td>
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<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>6526B11-VS2B</td>
<td>6526B11-ES2B</td>
<td>5/2</td>
<td>¾”</td>
<td>3.4</td>
<td>9.0</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
<tr>
<td>8526B11-VS2B</td>
<td>8526B11-ES2B</td>
<td>5/2</td>
<td>1”</td>
<td>7.5</td>
<td>13.5</td>
<td><img src="image" alt="Symbol" /></td>
<td><img src="image" alt="Product" /></td>
</tr>
</tbody>
</table>
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
- 316L stainless steel construction
- Designed for actuator control
- NACE option available

Media & Ambient Temperature Range
- -20 to + 180 °C (-4 to +356 °F)
- Low temperature version
  -50 to +90 °C (-58 to +248 °F)

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

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: 316 stainless steel
- Spring: 316 stainless steel
- Seals: Fluoroelastomer

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

Maximum Flow
At 6 bar, 1 bar differential:
- ¾” valves - 9,000 L/Min (318 SCFM)
- 1” valves - 13,500 L/Min (477 SCFM)
1650 Series spool valves – ¾" & 1" 3/2 Pad operated spring-return

Ordering Information

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Low Temperature Version</th>
<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
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</thead>
<tbody>
<tr>
<td>6326M27-V528</td>
<td>6326M27-ES28</td>
<td>¾&quot;</td>
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<tr>
<td>8326M27-V528</td>
<td>8326M27-ES28</td>
<td>1&quot;</td>
<td>4.8</td>
<td>13.5</td>
<td></td>
</tr>
</tbody>
</table>
1650 Series spool valves – ¾” & 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
• 316L stainless steel construction
• Designed for actuator control
• NACE option available

Media & Ambient Temperature Range
Please refer to solenoid selection chart on page 62.

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
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: 316 stainless steel
• Spring: 316 stainless steel
• Seals: Fluoroelastomer¹
¹ The use of lubrication upstream of the product is not recommended for low temperature applications.

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

Spool Valves and Accessories
1650 Series spool valves – ¾” & 1” Pilot solenoid operated spring-return

3/2 Function

![3/2 Function Diagram]

5/2 Function

![5/2 Function Diagram]

Ordering Information

<table>
<thead>
<tr>
<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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</thead>
<tbody>
<tr>
<td>6326M23-VS2B*#</td>
<td>6326M23-ES2B*#</td>
<td>3/2</td>
<td>¾&quot;</td>
<td>4.2</td>
<td>9.0</td>
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<tr>
<td>8326M23-VS2B*#</td>
<td>8326M23-ES2B*#</td>
<td>3/2</td>
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<tr>
<td>6526M23-VS2B*#</td>
<td>6526M23-ES2B*#</td>
<td>5/2</td>
<td>¾&quot;</td>
<td>5.0</td>
<td>9.0</td>
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<tr>
<td>8526M23-VS2B*#</td>
<td>8526M23-ES2B*#</td>
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<td>13.5</td>
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* Denotes solenoid type. See page 61-62; # Denotes Voltage. See page 61
1650 Series spool valves – ¾” & 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>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾&quot;</td>
<td>156</td>
<td>260</td>
<td>32.75</td>
<td>44.5</td>
<td>44</td>
<td>110</td>
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<td>25</td>
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<td>165.2</td>
<td>95.2</td>
<td>54</td>
<td>44.5</td>
<td>91</td>
<td>103</td>
</tr>
<tr>
<td>1&quot;</td>
<td>236.8</td>
<td>340.3</td>
<td>67.5</td>
<td>70</td>
<td>76.8</td>
<td>115</td>
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<td>25</td>
<td>77.5</td>
<td>175.7</td>
<td>102.7</td>
<td>63.5</td>
<td>63.5</td>
<td>110</td>
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**5/2 Function**

<table>
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<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>
<th>N</th>
<th>O</th>
<th>P</th>
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</thead>
<tbody>
<tr>
<td>¾&quot;</td>
<td>186</td>
<td>52</td>
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<td>47.5</td>
<td>74</td>
<td>140</td>
<td>64</td>
<td>103</td>
<td>91</td>
<td>54</td>
<td>44.5</td>
<td>95.2</td>
<td>68.2</td>
<td>77</td>
<td>23.75</td>
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<tr>
<td>1&quot;</td>
<td>286.75</td>
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<td>102.7</td>
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**Ordering Information**

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<th>Size</th>
<th>Weight (kg)</th>
<th>CV</th>
<th>Symbol</th>
<th>Product</th>
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<tbody>
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<td>6326833-ES2B*#</td>
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<tr>
<td>6526833-VS2B*#</td>
<td>6526833-ES2B*#</td>
<td>5/2</td>
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<td>8526833-VS2B*#</td>
<td>8526833-ES2B*#</td>
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</table>

* 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

### Voltages

<table>
<thead>
<tr>
<th>Code</th>
<th>Voltage</th>
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</thead>
<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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## Solenoid specifications

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<thead>
<tr>
<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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</thead>
<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 me II 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.</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 alt Aluminium Epoxy coated</td>
<td>316 Stainless Steel alt Aluminium Epoxy coated</td>
<td>Stainless Steel. Coil potted</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 ½˝ NPT consult factory for code)</td>
<td>M20 x 1.5 (Optional ½˝ NPT consult factory for code)</td>
<td>½˝ NPT or 24˝ flying lead</td>
<td>M20 x 1.5</td>
<td>M20 x 1.5</td>
<td>DIN plug</td>
</tr>
<tr>
<td><strong>Power Consumption AC/DC</strong></td>
<td>5 W</td>
<td>5 W</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) / 9 W (Inrush 32 VA) (AC)</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)</td>
<td>T5 100 °C (212 °F)</td>
<td>85 °C (185 °F) / 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)</td>
<td>T5 40 °C (104 °F)</td>
<td>65 °C (149 °F) / 50 °C (122 °F)</td>
</tr>
<tr>
<td><strong>Maximum Fluid Temperature</strong></td>
<td>40 °C (104 °F)</td>
<td>80 °C (176 °F)</td>
<td>105 °C (221 °F)</td>
<td>T4 75 °C (167 °F)</td>
<td>T5 40 °C (104 °F)</td>
<td>75 °C (167 °F) / 75 °C (167 °F)</td>
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<tr>
<td><strong>Solenoid Weight (kg)</strong></td>
<td>1.62</td>
<td>1.62</td>
<td>0.29</td>
<td>0.63</td>
<td>0.53</td>
<td>0.20</td>
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<tr>
<td><strong>Approved Standard</strong></td>
<td>ATEX, CSA, UL, IECEx &amp; EAC</td>
<td>ATEX, CSA, UL, IECEx &amp; EAC</td>
<td>UL Listed / CSA Certified</td>
<td>ATEX, IECEx</td>
<td>ATEX, IECEx</td>
<td>ATEX, IECEx</td>
</tr>
</tbody>
</table>

**NOTE:**
*T* type solenoid only available with 28 VDC coil (Y).
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.
A full listing of our worldwide sales and service network is available on our website.

www.rotork.com