

Solenoid Valves

SV11-10-4

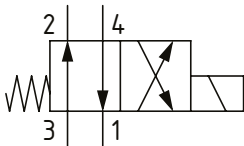
Solenoid Valve, 4-way, 2-position, Spool Type

350 bar [5000 psi] • 23 l/min [6 USgpm]

OPERATION AND DESCRIPTION

This is a 4-way, 2-position, spool type, direct acting solenoid valve. In the de-energized, condition port 3 is open to 2 and port 4 to 1. When energized port 3 is open to 4 and port 2 to 1. These valves are used to control the movement of cylinders or motors able to reverse the motion. Always check the operating envelope to make sure the valve will work under the required application conditions.

SCHEMATIC



DIMENSIONS

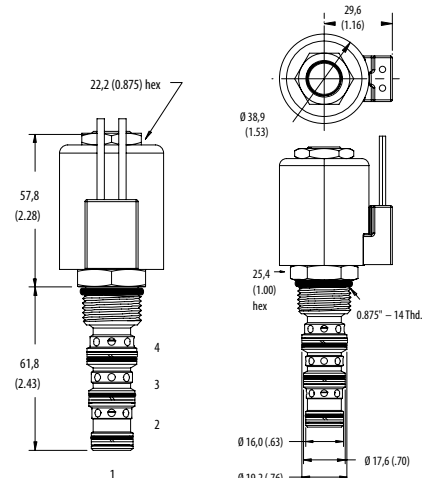
mm [in]

Coil nut torque

5-8 Nm [4-6 ft. lbs]

Installation torque

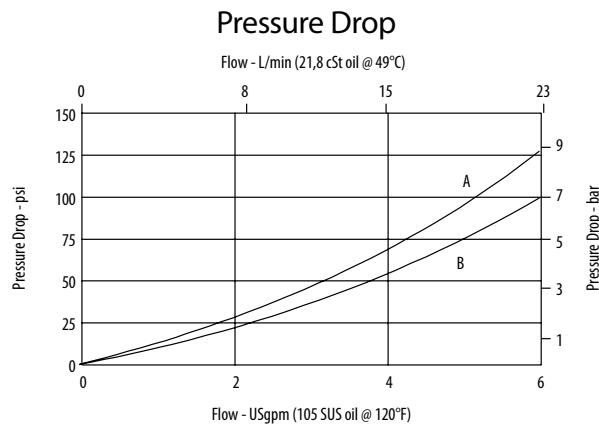
68-75 Nm [50-55 ft. lbs]



PERFORMANCE DATA

| | |
|------------------------|---|
| Rated Pressure | 350 bar [5000 psi] |
| Flow Capability | 23 l/min [6 USgpm] |
| Leakage | 82 ml/min (5 in ³ /min) @ 350 bar [5000 psi] |
| Coil Options | H series |
| Weight | 0.21 kg [0.46 lb] |
| Cavity | SDC10-4 |

PERFORMANCE CURVES



MODEL CODE

SV11 - 10 - V - 4 - M - S - 2G - 12D - G - H

| <p>Seal Option</p> <table border="1"> <tr> <th>Code</th> <th>Seal kit</th> </tr> <tr> <td>Omit - Buna - N</td> <td>889625</td> </tr> <tr> <td>V - Viton</td> <td>566080</td> </tr> </table> <p>Manual Override Option</p> <table border="1"> <tr> <td>Omit - No manual override</td> <td></td> </tr> <tr> <td>M - Pull and Twist</td> <td></td> </tr> </table> <p>Housing</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Ports</th> <th>Steel</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>No Housing</td> <td></td> </tr> <tr> <td>2G</td> <td>1/4" BSP</td> <td>02-175139</td> </tr> <tr> <td>3G</td> <td>3/8" BSP</td> <td>02-175140</td> </tr> <tr> <td>6T</td> <td>#6 SAE</td> <td>02-175137</td> </tr> <tr> <td>8T</td> <td>#8 SAE</td> <td>02-175138</td> </tr> </tbody> </table> <p><small>* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi]. * Additional housings available</small></p> | Code | Seal kit | Omit - Buna - N | 889625 | V - Viton | 566080 | Omit - No manual override | | M - Pull and Twist | | Code | Ports | Steel | 00 | No Housing | | 2G | 1/4" BSP | 02-175139 | 3G | 3/8" BSP | 02-175140 | 6T | #6 SAE | 02-175137 | 8T | #8 SAE | 02-175138 | <p>Housing Material</p> <table border="1"> <tr> <td>Omit - No Housing</td> <td></td> </tr> <tr> <td>S - Steel</td> <td></td> </tr> </table> | Omit - No Housing | | S - Steel | | <p>Coil Series</p> <table border="1"> <tr> <td>Omit - No coil</td> <td></td> </tr> <tr> <td>H - 10 series, 29 W</td> <td></td> </tr> </table> <p>Coil Voltage</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Coil Voltage</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>No Coil, nut included, (p/n 02-175698)</td> </tr> <tr> <td>12D</td> <td>12 VDC</td> </tr> <tr> <td>24D</td> <td>24 VDC</td> </tr> <tr> <td>115A</td> <td>115 VAC**</td> </tr> <tr> <td>230A</td> <td>230 VAC**</td> </tr> <tr> <td>12B</td> <td>2VDC/w diode*</td> </tr> <tr> <td>24B</td> <td>24 VDC/w diode*</td> </tr> </tbody> </table> <p><small>*Optional arc suppression diode **Internally rectified ***Other voltage options available</small></p> | Omit - No coil | | H - 10 series, 29 W | | Code | Coil Voltage | 00 | No Coil, nut included, (p/n 02-175698) | 12D | 12 VDC | 24D | 24 VDC | 115A | 115 VAC** | 230A | 230 VAC** | 12B | 2VDC/w diode* | 24B | 24 VDC/w diode* | <p>Connector Type</p> <table border="1"> <tr> <td>Omit - No coil</td> <td></td> </tr> <tr> <td>G - ISO 4400 DIN 43650</td> <td></td> </tr> <tr> <td>Q - Spade terminals</td> <td></td> </tr> <tr> <td>W - Flying lead</td> <td></td> </tr> <tr> <td>N - Deutsch (DC only)</td> <td></td> </tr> <tr> <td>Y - Amp JR (DC only)</td> <td></td> </tr> <tr> <td>D - Metripack 150 male DC only)</td> <td></td> </tr> <tr> <td>J - Metripack 280 male (DC only)</td> <td></td> </tr> </table> | Omit - No coil | | G - ISO 4400 DIN 43650 | | Q - Spade terminals | | W - Flying lead | | N - Deutsch (DC only) | | Y - Amp JR (DC only) | | D - Metripack 150 male DC only) | | J - Metripack 280 male (DC only) | |
|---|--|-----------|-----------------|--------|-----------|--------|---------------------------|--|--------------------|--|------|-------|-------|----|------------|--|----|----------|-----------|----|----------|-----------|----|--------|-----------|----|--------|-----------|--|-------------------|--|-----------|--|---|----------------|--|---------------------|--|------|--------------|----|--|-----|--------|-----|--------|------|-----------|------|-----------|-----|---------------|-----|-----------------|--|----------------|--|------------------------|--|---------------------|--|-----------------|--|-----------------------|--|----------------------|--|---------------------------------|--|----------------------------------|--|
| Code | Seal kit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Omit - Buna - N | 889625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V - Viton | 566080 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Omit - No manual override | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M - Pull and Twist | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Ports | Steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | No Housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2G | 1/4" BSP | 02-175139 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3G | 3/8" BSP | 02-175140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6T | #6 SAE | 02-175137 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8T | #8 SAE | 02-175138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Omit - No Housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S - Steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Omit - No coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H - 10 series, 29 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Coil Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | No Coil, nut included, (p/n 02-175698) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12D | 12 VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24D | 24 VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115A | 115 VAC** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230A | 230 VAC** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12B | 2VDC/w diode* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24B | 24 VDC/w diode* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Omit - No coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G - ISO 4400 DIN 43650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q - Spade terminals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W - Flying lead | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N - Deutsch (DC only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y - Amp JR (DC only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D - Metripack 150 male DC only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J - Metripack 280 male (DC only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |