Hydraulic Directional Control Valves and Check Valves

Quality Hydraulic Components from the Webtec Range
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SV50 Rotary

Diverter Valve

THE DIRECTIONAL CONTROL VALVE of the rotary spool type consists of a rotor which is turned with respect to the valve body. When the rotor is placed in selected positions, inlet and outlet ports are connected in various combinations permitting the start, stop or directional change of fluid under pressure. The functions specific to a valve depend primarily on rotor type selected.

Specifications

Maximum Pressure: 210 bar

Maximum Flow: 30 lpm

Porting: 3/8 BSP

Material: steel spool in cast iron body

Weight: 1.24 kg

Mounting: 2 Bolt

Features

- Provides a fast and positive control of oil to and from cylinders and motors.
- Customers can select from one of three spool types allowing flow to be diverted from one line to another or in a neutral position of pressure to tank.
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ORDERING CODES

Typical Code

Basic Valve

Flow Pattern (Table 1)

Porting 3/8" BSP

Table 1: Flow Patterns

<table>
<thead>
<tr>
<th>Code</th>
<th>Flow Patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

INSTALLATION DETAILS

Dimensions in millimetres
SV80
Diverter Valve

A DIVERTER VALVE provides an alternative to the standard directional control valve when a neutral (centre) position is not required. It allows flow to be directed into either of two lines which enables fast changing from one system to another, or from one system to tank thus providing an idling circuit.

Other applications may be as a safety lock preventing accidental operation of separate functions which should not operate together and the selection of attachments as on a farm tractor.

Specifications

Maximum Working Pressure:
210 bar

Maximum Flow:
80 lpm

Porting:
see Table 2, ordering codes

Material:
stainless steel spool in cast iron body

Weight:
2 kg (approx.)

Mounting:
two bolt

Symbol
For valve model number SV80-A-J-S
(see ordering codes)

Features

- Flow may be directed by mechanically pushing the spool with spring offset or by a mechanical push pull operation in which case the valve stem is threaded or fitted with a moulded knob.
- Customer can select from one of two spool types allowing flow to be diverted from one line to another or from system to tank.
- A choice of port threads are available.
- Special versions also available.
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ORDERING CODES
Typical Code
SV80 A J S

Basic Valve
Spool Type (Table 1)
Porting (Table 2)
Operation (Table 3)

Table 1: Spool Type

<table>
<thead>
<tr>
<th>Code</th>
<th>Spool Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

Table 2: Porting

<table>
<thead>
<tr>
<th>Code</th>
<th>Porting</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>1/2&quot; BSP</td>
</tr>
<tr>
<td>G</td>
<td>7/8&quot; - 14 SAE</td>
</tr>
<tr>
<td>M</td>
<td>M22 x 1.5</td>
</tr>
<tr>
<td>A</td>
<td>1/2&quot; NPT</td>
</tr>
</tbody>
</table>

Table 3: Operation

<table>
<thead>
<tr>
<th>Code</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Spring Offset, Mechanical Push</td>
</tr>
<tr>
<td>M</td>
<td>Manual, Push - Pull</td>
</tr>
<tr>
<td>T</td>
<td>Threaded, Push - Pull</td>
</tr>
</tbody>
</table>

INSTALLATION DETAILS
Dimensions in millimetres
‘A’ Spool - Inlet to Port ‘A’ in position shown below
‘B’ Spool - All Ports closed in position shown below

THREADED PUSH, PULL TYPE
MANUAL PUSH, PULL TYPE

SPRING OFFSET TYPE
A DIVERTER VALVE provides an alternative to the standard directional control valve when a neutral (centre) position is not required. It allows flow to be directed into either of two lines which enables fast changing from one system to another, or from one system to tank thus providing an idling circuit.

Other applications may be as a safety lock preventing accidental operation of separate functions which should not operate together and the selection of attachments as on a farm tractor.

Specifications

**Maximum Working Pressure:**
- 210 bar

**Maximum Flow:**
- 80 lpm

**Porting:**
- see Table 2, ordering codes

**Material:**
- stainless steel spool in cast iron body

**Weight:**
- 2 kg (approx.)

**Mounting:**
- two bolt

**Symbol**
For valve model DV80-A-J-B (see ordering codes)

### Features
- Flow may be directed by mechanically pushing the spool with spring offset.
- Customer can select from one of two spool types allowing flow to be diverted from one line to another or from system to tank.
- A choice of port threads and spool end types are available.
- Spring and spool end protected from environment in sealed housing.
- Special versions also available
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ORDERING CODES

Typical Code

DV80

A

J

R

Basic Valve

Spool Type (Table 1)

Porting (Table 2)

Spool End Type (Table 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Spool Type</th>
<th>Porting</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>J 1/2&quot; BSP</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>G 7/8&quot; - 14 SAE</td>
</tr>
</tbody>
</table>

Table 2

Table 3

INSTALLATION DETAILS

Dimensions in millimetres

'\text{A}' Spool - Inlet to Port 'A' in position shown below

'\text{B}' Spool - All Ports closed in position shown below

MANUAL PUSH, PULL TYPE

ROLLER SPRING OFFSET

BALL SPRING OFFSET
A DIRECTIONAL CONTROL VALVE of the linear spool type consists of a cylindrical spool fitted inside a longitudinal bore of the valve housing. When the spool is placed in selected positions along the bore, inlet and outlet ports are connected in various combinations permitting the start, stop or directional change of fluid under pressure. The functions specific to a valve will depend primarily on the spool type selected.

Specifications

Maximum Working Pressure:
   207 bar

Maximum Shock Flow:
   345 bar

Flow Capacity:
   113 lpm

Porting:
   3/4" - 14 BSPF (standard)

Material:
   steel components in cast iron body.

Weight:
   5.4 kg

Mounting:
   Foot mounting brackets optional

Features

- Provides fast, positive control of the flow of oil to and from cylinders and motors.
- Choice of spools provides for 3 or 4 way, tandems, open or closed centre operation.
- Alloy steel spools are heat treated, precision ground and fully balanced at all pressures.
- Cartridge type relief valve with hardened steel poppet may be direct acting or pilot operated.
- Detented type will hold valve in either of the selected positions until released by operation to spring centred position.
- Foot mounting brackets are optional on all models.
- Formed tube handles are standard.
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ORDERING CODES

Typical Code

1 - AV2
4 0 1 LH 1

Table 2: Spool Action and Relief Valve Type

<table>
<thead>
<tr>
<th>Code</th>
<th>Spool Action</th>
<th>R/V Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4 - way</td>
<td>Pilot Operated</td>
</tr>
<tr>
<td>2</td>
<td>3 - way</td>
<td>Pilot Operated</td>
</tr>
<tr>
<td>3</td>
<td>3 - way</td>
<td>Brute Force (Direct Acting)</td>
</tr>
<tr>
<td>4</td>
<td>4 - way</td>
<td>Brute Force (Direct Acting)</td>
</tr>
</tbody>
</table>

Table 3: Spool Type

<table>
<thead>
<tr>
<th>Code</th>
<th>Double Acting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>Tandem Centre</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Closed Centre</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Open Centre</td>
</tr>
</tbody>
</table>

Table 4: Spool Control detents and spring

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Spring Centred - No Detents</td>
</tr>
<tr>
<td>3</td>
<td>Spring Centred - Detents both ways (Not available for codes 1 &amp; 4 of (Table 2)</td>
</tr>
<tr>
<td>6</td>
<td>Not Spring Centred - No Detents</td>
</tr>
</tbody>
</table>

Cylinder Ports

Detent Type

Inlet Port

Outlet Port

Relief Valve Adjustable to 2000 psi
Series 180

Manual Directional Control Valve

THE DIRECTIONAL CONTROL VALVE of the rotary spool type consists of a rotor which is rotated with respect to the valve body. When the rotor is placed in selected positions inlet and outlet ports are connected in various combinations permitting the start, stop or directional change of fluid under pressure. The functions specific to a valve depends primarily on rotor type selected.

Specifications

Maximum Working Pressure:
700 bar
Spring centred models will not spring return to centre when operated over 207 bar.

Maximum Flow:
38 lpm
See table 3, ordering codes for available flow sizes.

Porting:
see Table 2, ordering codes

Material:
steel components in aluminium body

Weight:
1.13 kg

Mounting:
Pipe or manifold in any position

Features

- Pressure loaded seats working against optically flat rotors automatically compensated for valve wear to assure near zero leakage even after more than 500,000 cycles.
- Customer can select from numerous variations including 7 flow patterns, 3 flow ratings, many porting configurations, ball or offset ball operating handles, spring centring and detents.
- Valves may be in-line, panel or manifold mounted.
- High pressure cap available (max pressure 250 bar) enables valve to be used in series without drain.
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ORDERING CODES

Typical Code

Valve Model (Table 1)

Port Size and Location (Table 2)

Flow Size (Table 3)

Handle Type and Rotor Action (Table 4)

NOTE: Models 185 and 187 available in 1 and 2 flow sizes only

Table 1: Valve Model

<table>
<thead>
<tr>
<th>Code</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>181</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>182</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>183</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>184</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>185</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
<tr>
<td>187</td>
<td><img src="image" alt="Symbol" /></td>
</tr>
</tbody>
</table>

Table 2: Port Size and Location

<table>
<thead>
<tr>
<th>Code</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>P1</th>
<th>P2</th>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>C*</td>
<td>3/8</td>
<td>. 0</td>
<td>3/8</td>
<td>3/8</td>
<td>0</td>
<td>3/8</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>3/8</td>
<td>1/4</td>
<td>1/4</td>
<td>3/8</td>
<td>3/8</td>
<td>1/4</td>
<td>3/8</td>
<td>1/4</td>
</tr>
</tbody>
</table>

Note:

1/4 = 1/4 NPTF
3/8 = 3/8 BSPF
0 = C'Bore for 014 'O' Ring ([4] 'O' Rings included)
● = Ports shipped plugged
* Manifold mounted models utilise 5/16 - 18 NC through bolts provided for mounting to manifold ('C' porting only)

Table 3: Flow Size

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Curve</th>
<th>MAX Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15 lpm Non - interflow*</td>
<td>A</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>1</td>
<td>26.5 lpm Low Interflow*</td>
<td>B</td>
<td>5,000 psi</td>
</tr>
<tr>
<td>2</td>
<td>38 lpm Medium Interflow*</td>
<td>C</td>
<td>3,000 psi</td>
</tr>
</tbody>
</table>

*Interflow = flow through valve in intermediate position

Table 4: Handle Type & Rotor Action

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Ball</td>
<td>Detented Action</td>
</tr>
<tr>
<td>E</td>
<td>Ball</td>
<td>Spring Centred Action</td>
</tr>
<tr>
<td>F</td>
<td>Offset Ball</td>
<td>Detented Action + Panel Mount</td>
</tr>
<tr>
<td>G</td>
<td>Offset Ball</td>
<td>Spring Centred Action + Panel Mount</td>
</tr>
</tbody>
</table>

Note:

External drains are required when valves are connected in series.
Consult Sales Office

Typical Performance Drop Curve

Established using Hydraulic oil with viscosity of 27.4 centisokes at 49°C
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SECTIONAL VIEW

5/16 - 18 Thru. Bolts for 'C' Porting

5/16 - 18 UNC - 2B x 15.75
Deep 4 Holes
(All Valves except 'C' Porting)

Position
Neutral

45°

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INSTALLATION DETAILS
PANEL MOUNTED
Dimensions in millimetres

5/16 - 18 UNC - 2B x 7.9 mm Deep
4 Mounting Holes
* (For Panel Mounted Valves only)
Not used with ‘C’ Porting

Tank Port
Neutral Position

Cylinder Port
Cylinder Port

5/16 - 18 UNC - 2B x 15.7 mm
2 Mounting Holes

133.3
41.1
76.2
47.6

139.7
76.2
104.1
20.5

79.3
47.6
45°

23.8
47.7
**SOV Series**

**Shut Off Valve**

**SHUT OFF VALVES** provide an In-line means of completely shutting off or metering the flow of hydraulic fluid in pipelines where constant full flow is not necessary. Applications may include the control of hydraulic Cylinder or Motor speed.

**Specifications**

**Maximum Pressure:**
- 340 bar (working)

**Maximum Flow:**
- 225 lpm

**Porting:**
- See Table 1

**Material:**
- Zinc plated steel body, hardened steel spindle, plastic knob.

**Weight:**
- See Table 1

**Mounting:**
- In-line

**Features**

- In-line mounting.
- easy adjustment of flow rates using the hand wheel.
- flow range from 45 lpm to 225 lpm.
- zinc plated finish.
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ORDERING CODES
Typical Code

SOV - Shut Off Valve

FLOW SIZE
Typical Code SOV 37

FLOW SIZE (Table 1)

<table>
<thead>
<tr>
<th>Code</th>
<th>Flow Capacity</th>
<th>Port Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>45 lpm</td>
<td>1/4&quot; BSP</td>
<td>51</td>
<td>-</td>
<td>26 sq.</td>
<td>57</td>
<td>95</td>
<td>92</td>
<td>0.4 kg</td>
</tr>
<tr>
<td>37</td>
<td>180 lpm</td>
<td>3/8&quot; BSP</td>
<td>66</td>
<td>34</td>
<td>38</td>
<td>57</td>
<td>114</td>
<td>106</td>
<td>0.75 kg</td>
</tr>
<tr>
<td>50</td>
<td>180 lpm</td>
<td>1/2&quot; BSP</td>
<td>66</td>
<td>34</td>
<td>38</td>
<td>57</td>
<td>114</td>
<td>106</td>
<td>0.75 kg</td>
</tr>
<tr>
<td>75</td>
<td>225 lpm</td>
<td>3/4&quot; BSP</td>
<td>90</td>
<td>41</td>
<td>52</td>
<td>63</td>
<td>125</td>
<td>120</td>
<td>1.25 kg</td>
</tr>
</tbody>
</table>

INSTALLATION DETAILS
Dimensions in millimetres

Table 1: Flow Size

Diagram of shut off valve with dimensions labeled.
CHECK (NON-RETURN) VALVES stop fluid flow in one direction while permitting free flow in the opposite direction. The force exerted by fluid entering the valve in the ‘free flow’ direction unseats a spring loaded poppet permitting fluid to pass. The fluid pressure required to unseat the poppet is known as the ‘cracking’ pressure. Both the spring force and the fluid force in the opposite direction push the poppet against the seat thus preventing fluid passage.

Specifications

Maximum Working Pressure:
210 bar

Cracking Pressure:
see Table 2, ordering codes

Rated Flow:
see Table 1, ordering codes

Porting:
see Table 1, ordering codes

Material:
steel body

Weight:
see Table 1, ordering codes

Features

- Straight through porting allows the valve to be connected directly in-line thus making the best use of restricted space.

- Customer can select from 7 valve sizes offering a range of flow ratings from 15 - 260 lpm and 4 ‘cracking’ pressure settings ranging from 0.35 to 4.5 bar.
Quality Hydraulic Components from the Webtec Range

ORDERING CODES

<table>
<thead>
<tr>
<th>Typical Code</th>
<th>NR</th>
<th>25</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR - Non-Return Valve</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Valve Size (Table 1)

<table>
<thead>
<tr>
<th>Code</th>
<th>Port Size</th>
<th>Weight kg</th>
<th>Rated Flow</th>
<th>Dim ‘A’</th>
<th>Dim ‘B’</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>¼”</td>
<td>0.14</td>
<td>15</td>
<td>60</td>
<td>21.00</td>
</tr>
<tr>
<td>37</td>
<td>⅜”</td>
<td>0.18</td>
<td>27</td>
<td>70</td>
<td>23.81</td>
</tr>
<tr>
<td>50</td>
<td>½”</td>
<td>0.33</td>
<td>52</td>
<td>76</td>
<td>28.57</td>
</tr>
<tr>
<td>75</td>
<td>¾”</td>
<td>0.71</td>
<td>85</td>
<td>108</td>
<td>38.00</td>
</tr>
<tr>
<td>100</td>
<td>1”</td>
<td>0.9</td>
<td>105</td>
<td>129</td>
<td>42.42</td>
</tr>
<tr>
<td>125</td>
<td>1 ¼”</td>
<td>2.3</td>
<td>175</td>
<td>133</td>
<td>63.50</td>
</tr>
<tr>
<td>150</td>
<td>1 ½”</td>
<td>2.3</td>
<td>260</td>
<td>135</td>
<td>65.07</td>
</tr>
</tbody>
</table>

Cracking Pressure (Table 2)

<table>
<thead>
<tr>
<th>Code</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.35 bar</td>
</tr>
<tr>
<td>15</td>
<td>1.03 bar</td>
</tr>
<tr>
<td>30</td>
<td>2.07 bar</td>
</tr>
<tr>
<td>65</td>
<td>4.5 bar</td>
</tr>
</tbody>
</table>

INSTALLATION DETAILS

Dimensions in millimetres (see Table 1 above)
THE HYDRA CHECK acts as a safety device by automatically locking a cylinder or other components should a hydraulic failure occur in the pressure line. A poppet within the body is held open by a light spring allowing flow in both directions at normal fluid velocities, but when hydraulic failure occurs, the reacting external force creates a return flow of greater velocity than normal. This velocity acts on the poppet and closes the valve creating a hydraulic lock to sustain the external force.

For maximum protection, the safety device should be located as close as possible to the cylinder or component.

Specifications

Maximum Working Pressure: 350 bar

Flow Rate: see Table 2, ordering codes

Porting: see Table 1, ordering codes

Material: all steel black oxide finish with guided steel poppet

Weight: see Table 1, ordering codes

Features

- Straight through porting allows the valve to be connected directly in-line thus making the best use of restricted space.

- Customer can select from 9 closing flows ranging from 10 to 90 lpm.

- All steel black oxide finish body.
**Quality Hydraulic Components from the Webtec Range**

**ORDERING CODES**

<table>
<thead>
<tr>
<th>SF - Safety Fuse</th>
<th>Typical Code</th>
<th>SF</th>
<th>37</th>
<th>15</th>
</tr>
</thead>
</table>

**Porting (Table 1)**

<table>
<thead>
<tr>
<th>Closing Flow (Table 2)</th>
</tr>
</thead>
</table>

**Table 1: Porting (Valve Size)**

<table>
<thead>
<tr>
<th>Code</th>
<th>A Thread</th>
<th>B mm</th>
<th>C mm</th>
<th>D mm</th>
<th>Wt. - kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>3/8&quot; BSPP</td>
<td>47</td>
<td>13.50</td>
<td>23.81</td>
<td>0.12</td>
</tr>
<tr>
<td>50</td>
<td>1/2&quot; BSPP</td>
<td>50</td>
<td>16.00</td>
<td>28.55</td>
<td>0.21</td>
</tr>
</tbody>
</table>

**Table 2: Closing Flow - SF37**

<table>
<thead>
<tr>
<th>Code</th>
<th>Closing Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10 lpm</td>
</tr>
<tr>
<td>15</td>
<td>15 lpm</td>
</tr>
<tr>
<td>25</td>
<td>25 lpm</td>
</tr>
<tr>
<td>35</td>
<td>35 lpm</td>
</tr>
<tr>
<td>40</td>
<td>40 lpm</td>
</tr>
</tbody>
</table>

**Table 2: Closing Flow - SF50**

<table>
<thead>
<tr>
<th>Code</th>
<th>Closing Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>40 lpm</td>
</tr>
<tr>
<td>50</td>
<td>50 lpm</td>
</tr>
<tr>
<td>60</td>
<td>60 lpm</td>
</tr>
<tr>
<td>70</td>
<td>70 lpm</td>
</tr>
<tr>
<td>90</td>
<td>90 lpm</td>
</tr>
</tbody>
</table>

**INSTALLATION DETAILS**

Dimensions in millimetres (See Table 1)

![Diagram of hydraulic component with dimensions labeled D, C, B, A, 60°, and Closing Flow]
SHV 20
Shuttle Valve

The SHUTTLE VALVE permits either of two input flows to be directed to a common outlet port. Flow entering one of the inlets causes a steel ball to travel along a centre bore to seal off the alternative inlet whilst leaving the outlet port free and allowing unimpeded oil flow through the valve.

Specifications

Maximum Working Pressure:
250 bar

Maximum Flow:
20 lpm

Porting:
1/4” BSP

Material:
Body and adaptor chemically blacked steel.
Steel ball.

Features

- Fast switching between 2 inlet flows.
- Free flow between inlet and outlet ports.
- 2 bolt mounting.
- Chemically blacked finish.
Quality Hydraulic Components from the Webtec Range

ORDERING CODES
Typical Code

SHV - Shuttle Valve
20 - Flow Rating
J - 1/4" BSP Porting

Typical Performance

INSTALLATION DETAILS
Dimensions in millimetres

Mounting Holes 6.5 dia
CP Series

Pilot Operated Check Valve
In-line Type

CP SERIES PILOT OPERATED CHECK VALVES are used in hydraulic circuits where a positional load must not drift due to valve leakage. Applications include elevating, forklift, boom and crane equipment. These type of systems cannot tolerate the normal leakage of a directional control valve and require a positive check in the circuit to hold the load at any position.

In the typical circuit shown below a CP check valve with double pilot is being used to ‘lock’ a double acting cylinder. To extend the rod, oil flow is directed through check ‘B’. This flow also moves a pilot piston which unseats ‘A’ allowing the rod end oil to flow through the check valve. To retract the rod, oil flow through ‘A’ unseats check ‘B’ allowing the piston end oil to return through ‘B’. With the loss of pilot pressures, both checks will remain closed.

Specifications

Maximum Working Pressure:
207 bar

Standard Pressure Ratio:
4 to 1

Maximum Flow:
95 lpm

Maximum Leakage:
0.0025 lpm

Operating Temperature:
-54°C to 125°C

Porting:
see Table 2, ordering codes

Material:
hardened steel seats, balls and pistons in hi-
tensile ductile iron body

Seal Compound:
Buna-N

Weight:
1.25 kg

Features

- Valves are available with single or double pilot.
- Will prevent possible accidents by locking a cylinder or motor in place if a hose or tube breaks in the circuit between the pump and the valve.

Symbol

Typical Circuit

Variable Load

CPIDIA

Check Valve
Quality Hydraulic Components from the Webtec Range

ORDERING CODES

Typical Code

C - Check Valve
P - Pilot Operated
1 - Nominal Size

Pilot Action (Table 1)
Porting (Table 2)

A - Design Standard

Table 1: Pilot Action

<table>
<thead>
<tr>
<th>Code</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Double Pilot</td>
</tr>
<tr>
<td>S</td>
<td>Single Pilot</td>
</tr>
</tbody>
</table>

Table 2: Porting

<table>
<thead>
<tr>
<th>Code</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$\frac{3}{4}$&quot; - 16 SAE (straight)</td>
</tr>
<tr>
<td>3</td>
<td>3/8&quot; BSPF</td>
</tr>
</tbody>
</table>

INSTALLATION DETAILS
Dimensions in millimetres
Manufacturers of Hydraulic Components and Test Equipment for the Mobile, Industrial and Agricultural Industries

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