4/2, 4/3 Directional Control Valve, NG 25 ISO 4401, Pilot NG 4, ISO 4401, horizontal

Technical Data Sheet

- Pilot controlled piston valve
- High switching power
- Short switching time
- Energy saving due to minimized flow resistivity
- With internal or external pilot oil supply
- Easy service: solenoid can be changed without leakage while the valve is under system pressure
- Solenoids can be rotated 3 x 90°, allowing alternative connector positions
Technical Data

General
Type of valve  
piston valve
Operation  
electric
Mounting  
6 x M12 x 60 DIN912
Connection of ports  
mounting plate
Mounting positions  
any position
Ambient temperature  
-5 to +50 °C
Mass valve  
10.5 kg

Hydraulic
Operating pressure P,A,B  
max. 280 bar
Operating pressure T  
max. 150 / 280*** bar
Pilot pressure range  
15 bis 120 bar
Pilot volume oil  
4/3 valves: 2x 8.3 cm³
4/3 valves: 9.6 cm³
Hydraulic oil temperature  
-10 to +70 °C
Viscosity range  
10 to 300 mm²/s
Max. flow  
450 l/min

Electric
Voltage (±10%)  
24 V DC  230V, 50Hz AC
Switching time off*  
50 ms  50 ms
Switching time off**  
60 ms  40 ms
Power consumption P20  
28 W
Start up peak P20  
35 VA
Duty factor  
100%  100%
Protective system  
IP65 at connected valve plug DIN 40050

Symbol

Options
• Alternative voltages
• Alternative symbols - data sheet: 14607-DSH
• Alternative plugs
• Adjustable switching delay
• Electric monitoring of the spool position
• Stroke limitation (replace one-way restrictor)

Characteristic Curve

hydraulic oil 35 mm²/s, 50°C
Dimensional Drawing

Port Connection Pattern

View: fastening side of mounting plate

<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>A</th>
<th>T</th>
<th>B</th>
<th>x</th>
<th>y</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>F5</th>
<th>F6</th>
<th>G1</th>
<th>G2</th>
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</thead>
<tbody>
<tr>
<td>Ø max [mm]</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>11.2</td>
<td>11.2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.5</td>
<td>7.5</td>
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<tr>
<td>x [mm]</td>
<td>77</td>
<td>53.2</td>
<td>29.4</td>
<td>100.8</td>
<td>17.5</td>
<td>112.7</td>
<td>0</td>
<td>130.2</td>
<td>130.2</td>
<td>0</td>
<td>53.2</td>
<td>77</td>
<td>94.5</td>
<td>29.4</td>
</tr>
<tr>
<td>y [mm]</td>
<td>27.5</td>
<td>74.6</td>
<td>17.5</td>
<td>74.6</td>
<td>73</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>92.1</td>
<td>92.1</td>
<td>0</td>
<td>92.1</td>
<td>-4.8</td>
<td>92.1</td>
</tr>
</tbody>
</table>

F: M12, thread depth min. 1.5 x Ø;
G: bore hole depth min. 1.5 x Ø;
x and y: only at external control.
Various single and multiple mounting plates are available.
Type Code

- **manual emergency operation**
- **electric interface**
  - H = plug DIN 43650, design A
  - M = plug M12
- **power supply**
  - 024/0 = 24V DC
  - 220/5 = 230V/50Hz
- **solenoid type**
  - R = single solenoid
  - Z = double solenoid
- **stroke limitation**
- **adjustable switching time**
- **pilot oil drain extern**
- **pilot oil supply extern**
- **design pilot valve**
- **nominal size pilot valve**
- **design code**
- **mounting**
- **design**
- **symbol**
- **directional control valve, electric operated**
- **material number**
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