4/2, 4/3 Directional Control Valve, NG 25 ISO 4401, monitored; Pilot NG 4, horizontal
Technical Data Sheet

- Pilot controlled piston valve
- Electrical monitoring of the spool position
- Safety function due to positive opening operation
- 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: 11 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: 2 x 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

* at 24V DC ± 5%
** at terminal voltage = -50V at free circuit
*** at external pilot oil drain

Options
- Alternative voltages
- Alternative symbols - data sheet: 14607-DSH
- Alternative plugs
- Adjustable switching delay

Symbol

Electrical Connection

Characteristic Curve

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

Plug is not included, fastening screws are not included, 6x M12x65 DIN 912 - 10.9, MA = 80 Nm

**Port Connection Pattern**

<table>
<thead>
<tr>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Ø max [mm]</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>
</tr>
<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>
</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>
</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.
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, monitored

material number