4/2, 4/3 Directional control valve, NG 4 ISO 4401
Technical data sheet

Advantages
+ Compact design
+ Short switching time
+ Pressure sealed oil-immersed solenoids
+ Easy service
+ Only one plug, even with 4/3 directional control valves
Technical data

**General**
- **Type of valve**: piston valve
- **Operation**: electric
- **Mounting**: 4 x M5 x 40 DIN912
- **Connection of ports**: mounting plate
- **Mounting positions**: mountable in any positions
- **Ambient temperature**: -5 to +50 °C
- **Mass valve**: 0.68 kg with single acting solenoid
  0.77 kg with double acting solenoid

**Hydraulic**
- **Operation pressure P,A,B**: max. 315 bar
- **Operation pressure T**: max. 150 bar
- **Hydraulic oil temperature**: -10 to +70 °C
- **Viscosity range**: 10 to 300 mm²/s
- **Max. flow**: 30 l/min

**Electric**
- **Voltage (+10%)**: 24 V DC, 230V, 50Hz AC
- **Switching time on****: 17 ms 25 ms
- **Switching time off****: 17 ms 25 ms
- **Power consumption P20**: 20 W
- **Start up peak P20**: 64 VA
- **Duty factor**: 100%
- **Protection system DIN 40450**: IP65

* at 24V DC ± 5 %
** at terminal voltage = -50V at free circuit

Advantages
- Directly controlled piston valve
- Compact design
- Short switching time
- Low internal leakage
- Pressure sealed oil-immersed solenoids for direct or alternating current
- 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
- Only one plug, even with 4 / 3 directional control valves
- Port connection pattern according to ISO 4401

Options
- Alternative voltages
- Alternative symbols – data sheet: 14607-DSH
- Alternative plugs
- Alternative solenoid position
- Manual emergency operation even for 4 / 3 directional control valves

Symbol

Electrical connection

Characteristic curve

Hydraulic oil 35 mm²/s, 50°C
**Dimensional drawing**

- All dimensions in mm

- 4 pcs. M5 x 40 DIN 912 / $M_\alpha = 8$Nm included

**Port connection pattern NG 4 ISO 4401**

- View: fastening side of mounting plate
- F: M5, thread depth min. 1.5 x Ø
- G: bore hole depth min. 1.5 x Ø

Various single and multiple mounting plates are available.

<table>
<thead>
<tr>
<th>P</th>
<th>A</th>
<th>T</th>
<th>B</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø max [mm]</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>x [mm]</td>
<td>12</td>
<td>4.3</td>
<td>12</td>
<td>19.7</td>
<td>0</td>
<td>24</td>
<td>24</td>
<td>0</td>
</tr>
<tr>
<td>y [mm]</td>
<td>20.25</td>
<td>11.25</td>
<td>2.25</td>
<td>11.25</td>
<td>0</td>
<td>-0.75</td>
<td>23.25</td>
<td>22.5</td>
</tr>
</tbody>
</table>

Solenoids 90° rotatable

108 Single-acting solenoid
121 Double-acting solenoid

Plug not included
We 05 - 4 L 100 - Z 024/0 H N

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 acting solenoid
Z = double acting solenoid

Design code
Design
L = horizontal

Nominal size

Symbol

Directional control valve, electrically operated

Material number

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