4/2, 4/3 Directional control valve NG 6 ISO 4401, directly controlled

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: 4x M5x45 DIN912
- Connection of ports: mounting plate
- Mounting positions: mountable in any position
- Ambient temperature: -25 to +50 °C
- Mass valve: 2.2 kg

**Hydraulic**
- Operation pressure P,A,B: 315 bar
- Operation pressure T: 160 bar
- Hydraulic oil temperature: -10 to +70 °C
- Viscosity range: 20 to 400 mm²/s
- Max. flow: 80 l/min

**Electric**
- Voltage (±10%): 24 V DC, 230V, 50Hz AC
- Switching time on*: 40 ms
- Switching time off**: 40 ms
- Power consumption P20: 32 W
- Start up peak P20: 39 VA
- Duty factor: 100%
- Protection system DIN 40450: IP65

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

Optional features:
- Alternative voltages
- Alternative symbols – data sheet: 14607-DSH
- Alternative connectors
- 8 Watt variant: max. operating pressure 140 bar
- Max. rate of flow 40 l/min

Advantages
- Directly controlled piston valve
- High switching capacity
- Saving energy by low flow resistance
- Pressure sealed oil-immersed solenoids for director alternating current
- Easy service: solenoid can be changed without leakage while the valve is under system pressure; no tools are required
- Solenoids can be rotated 3 x 90°, allowing alternative connector positions
- Port connection pattern according to ISO 4401

Symbol

Electrical connection

Electrical connection diagram with the connector type: DIN 43650, design A

Characteristic curve

Characteristic curve graph showing the relationship between Δp [bar] and Q [l/min]

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

all dimensions in mm

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>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>x [mm]</td>
<td>21.5</td>
<td>12.7</td>
<td>21.5</td>
<td>30.2</td>
<td>0</td>
<td>40.5</td>
<td>40.5</td>
<td>0</td>
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<tr>
<td>y [mm]</td>
<td>25.9</td>
<td>15.5</td>
<td>5.1</td>
<td>15.5</td>
<td>0</td>
<td>-0.75</td>
<td>31.75</td>
<td>31</td>
</tr>
</tbody>
</table>
Type code

We 05 - 6 P 100 - E 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
- Nominal size
- Symbol
- Directional control valve, electrically operated
- Material number

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Legally binding language version of document: german.