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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol 1]</td>
<td>1</td>
</tr>
<tr>
<td>![Symbol 2]</td>
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<tr>
<td>![Symbol 3]</td>
<td>3</td>
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<tr>
<td>![Symbol 4]</td>
<td>4</td>
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<td>![Symbol 5]</td>
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<tr>
<td>![Symbol 6]</td>
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</table>

### Electrical connection

- Port connection pattern according to ISO 4401

### Characteristic curve

Hydraulic oil 35 mm²/s, 50°C

![Characteristic curve graph]
Dimensional drawing

**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></th>
<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>
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</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>
<td>3.4</td>
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<td>x [mm]</td>
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<td>4.3</td>
<td>12</td>
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<td>0</td>
<td>24</td>
<td>24</td>
<td>0</td>
<td>26.5</td>
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<tr>
<td>y [mm]</td>
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<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>
<td>17.75</td>
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</table>
Type code

We 05 - 4 R 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
  - R = vertical
- Nominal size
- Symbol
- Directional control valve, electric operated
- Material number

This is a translated document. Original language: german. Legally binding language version of document: german.