4/2, 4/3 Directional control valve, NG 4 ISO 4401, monitored

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 | pressure-free drained (max. 0.5 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
| 230 V, 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 director 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 - Datasheet: 14607-DSH
- Alternative plugs
- Alternative solenoid position
- Switch position „0“ or „b“ monitoring

Circuit diagram proximity switch

- The position of the valve piston is monitored by proximity switch.
- Proximity switch is mounted on valve body side for monitoring switch position „a“ and on solenoid side for monitoring switching position „b“ (option).
- Connection: plug M12 x 1 (pins) , A-code

Characteristic curve

Hydraulic oil 35 mm²/s, 50°C

Electrical connection

a

1

2

3

b

1
Fastening screws are included.
Plug is not included.
The position of the M12 connector is not defined, it depends on the adjustment.

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>
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<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>
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<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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<td>0</td>
<td>24</td>
<td>24</td>
<td>0</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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</tbody>
</table>

Symbol

1
2
3
4
5
6
Type code

**Wew05 - 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, monitored
- **Material number**

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Legally binding language version of document: german.