4/2, 4/3 Directional control valve, NG10 ISO 4401, piloted
Technical data sheet

Advantages

+ High switching power, short switching time
+ Energy saving through minimised flow resistance
+ Easy service
+ Solenoid coil can be turned through 3 x 90°
+ Only one connector, even with 4/3 way valves
### Technical data

#### General
- **Type of valve**: piston valve
- **Operation**: electric
- **Mounting**: 4x M6x75 DIN912
- **Connection of ports**: mounting plate
- **Ambient temperature**: -5 to +50 °C
- **Mounting position**: any
- **Mass valve**: 4.0 kg

#### Hydraulic
- **Operation pressure P,A,B**: max. 315 bar
- **Operation pressure T**: max. 150 / 315\* bar
- **Control pressure range**: 3 to 315 bar
- **Control oil volume**: 2 x 1.5 cm³ at 4/3 valves, 3 cm³ at 4/2 valves
- **Hydraulic oil temperature**: -10 to +70 °C
- **Viscosity range**: 10 to 300 mm²/s
- **max. flow**: 160 l/min

#### Electric
- **Voltage (±10%)**: 24 V DC, 230 V, 50 Hz AC
- **Switching time on ****: 17 ms
- **Switching time off *****: 17 ms
- **Power consumption P20**: 23 W
- **Start up peak P20**: 50 VA
- **Duty factor**: 100%
- **Protection system DIN 40050**: IP65 at inserted valve plug

### Advantages
- Piloted piston valve
- High switching power, short switching time
- Energy saving through minimised flow resistance with internal or external pilot oil supply
- Easy service: solenoid can be changed without leakage while the valve is under system pressure
- Solenoid coil can be turned through 3 x 90°, allow alternative connector position
- Only one connector, even with 4/3 way valves

### Options
- Adjustable switching delay
- Stroke limitation (replace one-way restrictor )
- Electric monitoring of the spool position
- Alternative symbols - data sheet: 14607-DSH
- Alternative voltages

### Symbol

#### Electrical connection

```
<table>
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<th>3</th>
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Connector type: DIN 43650, design A

### Characteristic curve

![Characteristic curve graph]

Hydraulic oil 35 mm²/s, 50°C
Dimensions in mm
Plug is not included
Mounting screws are not included, 4 pcs. M6x75 DIN 912, M=14 Nm

Port connection pattern NG 4 ISO 4401

View: fastening side of mounting plate
F: M6, boring hole depth min. 1.5 x Ø.
Only at external supply x and y
Various single or multiple mounting plates are available

<table>
<thead>
<tr>
<th>P</th>
<th>A</th>
<th>T</th>
<th>B</th>
<th>T1</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>x</th>
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<tbody>
<tr>
<td>Ø max [mm]</td>
<td>11.5</td>
<td>11.5</td>
<td>11.5</td>
<td>11.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7</td>
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<tr>
<td>x  [mm]</td>
<td>27</td>
<td>16.5</td>
<td>3.2</td>
<td>37.5</td>
<td>50.8</td>
<td>0</td>
<td>54</td>
<td>54</td>
<td>0</td>
<td>27</td>
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<tr>
<td>y  [mm]</td>
<td>6.4</td>
<td>21.5</td>
<td>32.5</td>
<td>21.5</td>
<td>32.5</td>
<td>0</td>
<td>0</td>
<td>46</td>
<td>46</td>
<td>39.6</td>
</tr>
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</table>
Type code

We 05 - 10 H 100 - 4 R X Y T2 B1 Z 220/5 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 solenoid
  - Z = double solenoid
- stroke limitation
- adjustable switching time
- pilot oil drain extern
- pilot oil supply extern
- pilot type, R = vertical
- nominal size pilot
- design code
- design valve
- nominal size valve
- symbol
- directional control valve, electric operated
- material number

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Legally binding language version of document: german.