4/2 and 4/3 Directional Control Valve, Manually Operated

RPR3-04

Size 04 (D 02) • \( Q_{\text{max}} \) 30 l/min (8 GPM) • \( p_{\text{max}} \) 320 bar (4600 PSI)

**Technical Features**

- Direct acting directional control valve with subplate mounting interface acc. to ISO 4401, DIN 24340 (CETOP 02)
- High transmitted hydraulic power up to 320 bar with optimized design to minimize pressure drop
- Three chamber housing design for production cost saving
- Manual lever and actuating section can be rotated in 90° increments for flexible installation
- Wide range of interchangeable spools available
- Springless, detented valves available, valve holds last selected position, available for all spools
- In the standard version the valve body is phosphated. The steel parts are zinc coated (240 h corrosion protection in NSS acc. to ISO 9227). With optional increased surface corrosion protection of the whole valve 520 h in NSS, e.g. for mobile applications.

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Z11</th>
<th>R11</th>
<th>J15</th>
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<tbody>
<tr>
<td>Symbol</td>
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<td><img src="image2" alt="Symbol" /></td>
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**Technical Data**

- Valve size: 04 (D02)
- Max. flow: \( Q_{\text{max}} \) 30 l/min (GPM)
- Max. operating pressure at ports P, A a B: \( p_{\text{max}} \) 320 bar (PSI)
- Max. operating pressure at port T: \( p_{\text{max}} \) 100 bar (1450 PSI)
- Operating force: \( N \) (lbf) < 40 (9)
- Fluid temperature range (NBR): \( °C \) (°F) -30 ... +100 (-22 ... +212)
- Fluid temperature range (FPM): \( °C \) (°F) -20 ... +120 (-4 ... +248)
- Service life: cycles 10^6
- Weight: kg (lbs) 1 (2.20)

**Datasheet**

- Type: GI_0060
- General information
- Products and operating conditions

**Mounting interface**: SMT_0019

**Spare parts**: SP_8010

**Characteristics** measured at \( v = 32 \text{ mm/s} \) (156 SUS)

**Operating limits**

Operating limits for maximum hydraulic power and rated lever force.

**Pressure drop related to flow rate**

For operating limits under conditions and flow directions other than shown contact our technical support. Admissible operating limits may be considerably lower with only one direction of flow (A or B plugged, or without flow.)
The port restrictor plugs can be ordered separately from the spare parts data sheet HA 8010.

The table of spool connections is an overview of preferred and commonly produced types. Contact our technical support for their identification, feasibility and operating limits.

Mounting screws: 5+1 Nm (3.7+0.7 lbf.ft) M5 x 35 DIN 912-10.9 - not supplied

4/2 and 4/3 directional control valve, manually operated

Valve size

Number of valve positions
two positions three positions

Spool symbols see the table “Spool Symbols”