Proportional pressure reducing valve, pilot operated

Types ZDRE; ZDREE

Size 10
Component series 2X
Maximum pressure setting 315 bar
Maximum flow 80 l/min

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1 – Pilot operated valve for reducing a system pressure
2 – Actuation by proportional solenoid, which can be rotated
3 – Sandwich plate design
4 – Porting pattern to DIN 24340-A and ISO 4401
5 – 4 pressure ratings
6 – Valve and control electronics from a single source
7 – External control electronics for type ZDRE
8 – Linear command value/pressure characteristic curve
9 – Integrated electronics (OBE) with type ZDREE, with low manufacturing tolerance of the command value/pressure characteristic curve

Information on available spare parts:
www.boschrexroth.com/spc
### Ordering code

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Z</td>
<td>DRE</td>
<td>10</td>
<td>VP</td>
<td>2−2X/M</td>
<td>M</td>
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<tr>
<td>Sandwich plate</td>
<td>= Z</td>
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<tr>
<td>Proportional pressure reducing valve</td>
<td>= DRE</td>
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<tr>
<td>For external electronics</td>
<td>= No code</td>
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<td>With integrated electronics</td>
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<tr>
<td>Size 10</td>
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<tr>
<td>Pressure reduction in channel P1</td>
<td>= VP</td>
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<tr>
<td>Preferred position of mating connector</td>
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1) The mating connector can be brought to the desired position after the nut was loosened (see page 13)

1) Valve contact face
   (O-ring recesses in the housing)

Component series 20 to 29 | = 2X
(20 to 29: unchanged installation and connection dimensions)

<table>
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<th>Pressure rating</th>
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<td>Up to 50 bar</td>
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<td>Up to 100 bar</td>
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<tr>
<td>Up to 200 bar</td>
<td>= 200</td>
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<tr>
<td>Up to 315 bar</td>
<td>= 315</td>
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</table>

### Accessories (not included in scope of supply)

- Sandwich plate with X and Y port
  (for details, see page 3)
  Type HSZ 10 B097-3X/M01
  Material no.: R900320785

- Subplates to data sheet RE 45054
  - G 535/01 (G3/4), Material no. R900476061
  - G 536/01 (G1), Material no. R900475059

- External control for type ZDRE:
  - Analog amplifier VT-MSPA1-11-1X/V0 of modular design to data sheet RE 30223
  - Digital amplifier VT-VSPD-1-2X/V0/-0-1 of Euro-card format to data sheet RE 30523
  - Analog amplifier VT-VSPA1-11-1X/V0/0 of Euro-card format to data sheet RE 30100

- Mating connectors (for details, see page 8)
  - For ZDRE: to DIN EN 175301-803, Material no. R901017011
  - For ZDREE: to DIN EN 175201-804, Material no. R900223890 or R90021267

### Further details in clear text

- Seal material
  - M = NBR seals,
  - V = FKM seals

- Electronics interface
  - A1 = Command value 0 to 10 V
  - F1 = Command value 4 to 20 mA
  - No code = For ZDRE

- Electrical connection
  - K4 = Without mating connector, with component plug to DIN EN 175301-803
  - K31 = Without mating connector, with component plug to DIN EN 175201-804

- Supply voltage of control electronics
  - G24 = DC voltage 24 V
  - M = Without check valve

- Pilot oil supply/drain
  - Y = Pilot oil supply for directional valve from port P2, external pilot oil drain for directional valve and ZDRE
  - XY = External pilot oil supply for directional valve, external pilot oil drain for directional valve and ZDRE
  - L = Pilot oil supply for directional valve from P2, internal pilot oil drain for directional valve and external for ZDRE
  - XL = Pilot oil supply from P2 to X is plugged (direct operated directional valve needs no pilot oil), pilot oil drain of directional valve is plugged (direct operated directional valve needs no pilot oil drain), external pilot oil drain for ZDRE

### Note:
If no pilot oil supply is provided on the subplate, use sandwich plate HSZ 10 B097-3X/M01 for the supply.