Proportional pressure reducing valve, pilot operated, with on-board electronics (OBE) and position feedback

Type DREBE10Z

Nominal size 10
Unit series 1X
Maximum working pressure A, B, X 315 bar, Y 2 bar
Maximum flow rate $Q_{\text{nom}}$ 120 l/min

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Features

- Pilot operated valves with position feedback and on-board electronics for reducing system pressure (pilot oil internal only, with relief port X)
- Adjustable through the position of the armature against the compression spring
- With position control, minimal hysteresis <1%, rapid response times, see Technical Data
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I \geq I_{\text{max}}$)
- For subplate attachment, mounting hole configuration to ISO 5781-AG-06-2-A
  Subplates as per catalog sheet RE 45055 (order separately)
- Plug-in connector to DIN 43563-AM6, see catalog sheet RE 08008 (order separately)
- Data for the on-board trigger electronics
  • Complies with CE, EMC directives EN 61000-6-2: 2002-08 and EN 61000-6-3: 2002-08
  • $U_{\text{fb}} = 24 V_{\text{nom}}$ DC
  • Electrical connection 6P+PE
  • Signal actuation
    - Standard 0...+10 V (A1)
    • Valve curve calibrated at the factory
Ordering data

Proportional pressure reducing valve with inductive position transducer on the cone

With on-board electronics = E

Nominal size = 10

Mounting hole configuration to ISO 5781-AG-06-2-A = Z

Unit series 10 to 19 (10 to 19: installation and connection dimensions unchanged)

Max. pressure stage
up to 180 bar = 180
up to 315 bar = 315

Relief port X
Pilot oil port Y = XY

* Variant “F1” (4...20 mA version) available on request

Preferred types

<table>
<thead>
<tr>
<th>Type ..........A1 (0...+10 V)</th>
<th>Material Number</th>
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<tr>
<td>DREBE10Z–1X/180XYMG24K31A1M</td>
<td>0 811 402 155</td>
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<tr>
<td>DREBE10Z–1X/315XYMG24K31A1M</td>
<td>0 811 402 152</td>
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Symbol

For on-board electronics