Proportional cartridge throttle valve, with inductive position transducer, pilot operated

Type FESX

Nominal size 16, 25, 32, 40, 50
Unit series 1X
Maximum working pressure A, B, X 315 bar, Y 100 bar
Nominal flow rate \( Q_{\text{nom}} = 980 \, \text{l/min} \)

Overview of Contents

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Features

- Pilot operated throttle valves with inductive position transducer
- Design: cartridge type DIN 24342, ISO/DIS 7368
  Control oil external X and Y
- Adjustable via the position-controlled main stage by means of the position transducer and the external valve electronics
- Hysteresis < 0.2 %, positioning accuracy > 0.5 %, see Technical Data
- Plug-in connector to DIN 43650-AM2 for the solenoid and plug-in connector for the position transducer, included in scope of delivery
- Data for the external trigger electronics
  \( U_s = 24 \, V_{\text{nom}} \, \text{DC} \)
  Adjustment of valve curve Np and gain, with and without ramp generator
  Europe card format, setpoint 0...+10 V (order separately)

\( U_B = 24 \, \text{V}_{\text{nom}} \, \text{DC} \)
Ordering data

Proportional throttle valve with inductive position transducer (pilot operated)

Nominal size
Mounting hole configuration
DIN 24342, ISO/DIS 7368
Connection type (cartridge)
Direction of flow A → B
(customer may implement B → A)
Unit series 10 to 19
(10 to 19: installation and connection dimensions unchanged)

Further information in plain text
M = NBR seals, suitable for mineral oils (HL, HLP) to DIN 51524
Z4 = Electrical connection
Unit plug to DIN 43650-AM2
Plug-in connector included in scope of delivery
Flow characteristic
Linear
Nominal flow rate
\( \dot{Q}_{\text{nom}} \) in l/min
\( \Delta p = 5 \text{ bar} \)

Preferred types

<table>
<thead>
<tr>
<th>Type</th>
<th>Material Number</th>
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<tbody>
<tr>
<td>FESX16CA–1X/125LZ4M</td>
<td>0 811 402 452</td>
</tr>
<tr>
<td>FESX25CA–1X/210LZ4M</td>
<td>0 811 402 515</td>
</tr>
<tr>
<td>FESX32CA–1X/320LZ4M</td>
<td>0 811 402 614</td>
</tr>
<tr>
<td>FESX40CA–1X/500LZ4M</td>
<td>0 811 402 620</td>
</tr>
<tr>
<td>FESX50CA–1X/980LZ4M</td>
<td>0 811 402 633</td>
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</tbody>
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Symbol

For external trigger electronics