Proportional flow control valve, without position control

Type 3(2)FREX

Nominal size (NG) 6, 10
Unit series 1X
Maximum working pressure 250 bar
Nominal flow rate $Q_{\text{nom}}$ 7.5...60 l/min

Features

- Directly controlled flow control valves NG6 and NG10
- 2- or 3-way function is determined by how the hydraulic ports are assigned (residual flow runs through port P, 3rd way). Symbol "NO" (normally open) can only be implemented as a 2-way function
- Adjustable by means of the solenoid current, see Characteristic Curve, Technical Data and the selected valve electronics
- Solenoid version $I_{\text{max}} = 2.5$ A
- For subplate attachment, mounting hole configuration NG6 to ISO 4401-03-02-0-05, NG10 to ISO 4401-05-04-0-05
- Subplates as per catalog sheet, RE 45053 for NG6, RE 45055 for NG10 (order separately)
- Plug-in connector to DIN 43650-AM2 included in scope of delivery
- External trigger electronics with ramps and valve calibration in the following versions/designs (order separately)
  - Plug, setpoint 0...+10 V or 4...20 mA, RE 30264
  - Module, setpoint 0...+10 V, RE 30222
  - Europe card format, setpoint 0...+10 V, RE 30109

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Ordering data

3-way = 3
2-way = 2

Proportional flow control valve, without position control

Without inductive position transducer = X
NG6 = 6
NG10 = 10

Without external closing fixture for pressure compensator = B

Unit series 10 to 19 = 1X
(10 to 19: installation and connection dimensions unchanged)

Nominal flow rate
7.5 l/min at NG6 = 7.5
15 l/min at NG6 = 15
35 l/min at NG6 = 35
60 l/min at NG10 = 60
70 l/min at NG10 = 70

Flow characteristic (L = linear) = L
Setpoint input +10 V, Q_{min} (NO) = 1
Setpoint input +10 V, Q_{max} (NC) = 2

Electrical connection
Z4 = Electrical connection
M = NBR seals, suitable for mineral oils (HL, HLP) to DIN 51524
M = Without non-return valve

Preferred types

<table>
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<th>NG6</th>
<th>Solenoid 2.5 A</th>
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<td>F8EX6B–1X/15L1G24–25N9Z4MM</td>
<td>0 811 403 123</td>
<td>F8EX10B–1X/70L1G24–25N9Z4MM</td>
<td>0 811 403 013</td>
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<td>F8EX6B–1X/7,5L2G24–25N9Z4MM</td>
<td>0 811 403 112</td>
<td>F8EX10B–1X/60L2G24–25N9Z4MM</td>
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<td>F8EX10B–1X/60L2G24–25N12Z4MM</td>
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