### Technical Features

- Hardened precision parts
- High flow capacity and leak-free closing
- High transmitted hydraulic power
- Wide range of manual overrides available
- All ports may be fully pressurized
- Normally open and normally closed version
- Coil interchangeability among ROE / RPE3-04 product line
- Standard version zinc-coated with surface protection acc. to ISO 9227 (240 h salt spray)

### Functional Description

2-way, 2-position high pressure, direct acting poppet valve in the form of a screw-in cartridge. The valve is used mainly for ON-OFF bi-directional control of flow to actuators with leak-free closing in both directions.

### Technical Data

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#### Valve size / Cartridge cavity
- M22x1.5 / QG2
- Max. flow: 25 l/min (7 GPM)
- Max. operating pressure: 250 bar (3600 PSI)
- Fluid temperature range (NBR): -30 ... +80 (-22 ... +176) °C (°F)
- Fluid temperature range (FPM): -20 ... +80 (-4 ... +176) °C (°F)
- Ambient temperature: -20 ... 50 (-4 ... 122) °C (°F)
- Supply voltage tolerance: AC, DC: ± 10 %
- Max. switching frequency: 15 000 1/h
- Mass without coil: 0.2 (0.44) kg (lbs)

### Characteristics

- Measured at $v = 32$ mm/s (156 SUS)

#### Operating limits

Operating limits for maximum hydraulic power at rated temperature and supply voltage equal to 90% nominal.

#### Pressure drop related to flow rate

* Flow up to 15 l/min (4 GPM)
**Dimensions in millimeters (inches)**

- 28 (1.12)
- 77 (3.03)
- 26.1 (1.02)
- 28
- 30

**Manual Override in millimeters (inches)**

In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

**Ordering Code**

ROE3-042

2/2 directional valve, solenoid operated, poppet type, blocking, direct acting

M22x1.5

Functional symbol

2(A)
1(B)

S5

Seals

NBR
FPM (Viton)

Manual override

standard
rubber boot protected
hand screw

No designation

V

Surface treatment

A  zinc-coated (ZnCr-3), ISO 9227 (240 h)
B  zinc-coated (ZnNi), ISO 9227 (520 h)

Subject to change · ROE3-042S5(S6)_4055_1en_02/2016

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