

Description of the Valve

Directional control valves are suitable to control cylinder drives, they can be of many types such as 2/2, 3/2 and 4/2 or 4/3. Most common types to operate are 3/2.

The valve itself is operated by a direct acting solenoid. The solenoid is certified for use in hazardous location.

Due to the working principle of using a poppet, the valve is leakage free.

If no electrical power is available or if the valve has to be operated for inspection, it can be actuated using the optional manual override.

Technical Data of the Valve

Nominal pressure DN2: 690 bar (10.000 psi)
Nominal pressure DN3: 520 bar (7.400 psi)

Nominal size: DN 2 or DN 3

Temperature range: -40°C to +80°C
-40°F to +176°F

Nominal flow DN2: 2 l/min @ $\Delta p=10$ bar
Nominal flow DN3: 5 l/min @ $\Delta p=10$ bar

Power consumpt. DN2: 3,5 W
Power consumpt. DN3: 8 W

Media

Mineral oil, tap water, water glycol
For other media please contact Dr. Breit GmbH

Characteristics

Material: 316
Wetted parts: stainless, ceramic
Protection: EEx me II T6 (IP66)

Options

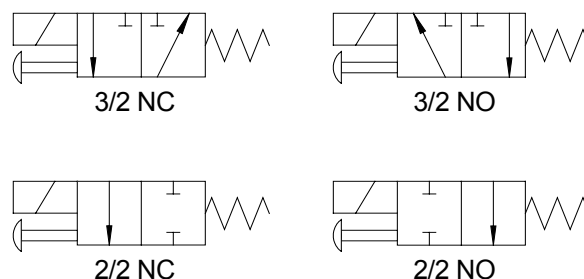
The following options are available

- NBR / Viton / FKM-sealing
- Manual override / Manual reset
- Available as 2/2
- Normally open / Normally closed
- Voltage

Designation

403003 142 (DN3)

Symbols



Mounting of the Valve

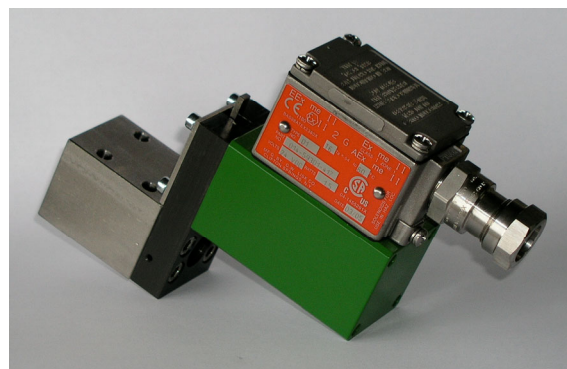
The valve is mounted onto a subplate, the portsize is determined by the subplate ports. Please make sure to apply the appropriate torque to the mounting screws.

Certificates *)



*) According to datasheet provided by solenoid manufacturer

Photographic view DN3



Drawing of the Valve DN3 (General View and Dimensions)

