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⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

details needed for pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max
- pilot valve type

⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

PN 0-100 bar
 DN 8 mm
 thread
 valve normally closed
 symbol **NC**

 valve normally open
 symbol **NO**

operating principle

body material

pressure balanced, with spring return
 ① brass
 ②
 ③
 ④
 ⑤
 ⑥

valve seat

seal materials

synthetic materials on metal
 NBR, FPM, PTFE

ports

function
pressure range

general specifications
 MCF threads G 3/8
 NC
 bar 0-100
options
 NO

Kv value
vacuum
pressure-vacuum

m³/h 1.6
 leak rate < 10⁻⁶ mbar•L•s⁻¹
 P₁ ⇔ P₂ pressure side max. 100 bar
 P₂ > P₁ vacuum side leak rate upon request
 available (max. 16 bar)
 emulsion - oil - neutral gases other medias upon request

back pressure
media

abrasive media
damping

opening
 closing by throttles on pilot valve
 A ⇔ B as marked
 1/min 600
 ms opening 30-3000
 closing 30-3000
 °C direct mounted pilot valve 60 > 60 °C upon request
 °C direct mounted pilot valve 50 > 50 °C upon request

flow direction
switching cycles
switching time

media temperature
ambient temperature

temperature range max 70°C

flush ports
leak ports

limit switches
manual override

via pilot valve

approvals
mounting

mounting brackets

weight
additional equipment

kg 1.3

nominal voltage

power consumption

electrical specifications
 U_n DC 24 V special voltage upon request
 U_n AC 230 V 50 Hz special voltage upon request
 DC 4.8 W 2.5 W [actuation pressure range 4-7 bar]
 AC pick up 11.0 VA holding 8.5 VA

protection
energized duty rating
connection

IP65 (P54) acc. DIN 40050
 ED 100%
 plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm

optional
additional equipment
max. temperature

M12x1 connector acc. DESINA connector acc. VDMA
 illuminated plug with varistor

explosion proof

media 60°C
 ambient 50°C
 E Ex e II T5 nominal voltage U_n DC 24 V 3.25 W
 power consumption AC 230 V 50 Hz 2.90 W

actuation pressure range

air consumption
cycle speed
control

pneumatic specifications
 bar 4-8 3-10 upon request
 cm³/stroke 4,5
 main valve speed variable by throttles on pilot valve
 preferably 5/2 way pilot valve

pilot valve interface
actuator ports

co-ax NAMUR acc. VDI / VDE 3845
 2/4 G 1/8

actuation pressure range

control
actuator ports
by media

hydraulic specifications
options

