

10/2023



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

**details needed**

- orifice
- port
- function NC
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

⚠ 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.

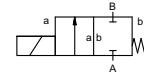
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.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

**2/2-way valve**

**pressure range**  
**orifice**  
**connection**  
**function**

**direct acting**

PN 0-50 bar  
 DN 8-14 mm  
 thread  
 valve normally closed  
 symbol **NC**



**operating principle**

**body material**

direct acting, with spring return

- |   |  |
|---|--|
| ① | ②  |
| ③ | ⑤  |
| ④ | ⑥ stainless steel, 1.5662, nickel plated |

**valve seat**

**seal materials**

synthetic materials on metal  
 NBR, VMQ, PTFE, RCH 1000

**ports**

**function**  
**pressure range**

KB threads G 1/2

**options**

special thread NPT 1/2

**Kv value**  
**vacuum**  
**pressure-vacuum**  
**back pressure**  
**media**

	NC
bar	50   35   25   15
DN	8   10   12   14
m <sup>3</sup> /h	1,8   2,5   2,9   3,2
leak rate	< 10 <sup>-6</sup> mbar•L•s <sup>-1</sup>
P <sub>1</sub> ↔ P <sub>2</sub>	
P <sub>2</sub> > P <sub>1</sub>	gaseous - liquid

**abrasive media damping**

**flow direction**  
**switching cycles**  
**switching time**

opening	
closing	
A ↔ B	as marked
1/min	150
ms	opening 120
	closing 270
°C	< -21 °C / -196 °C

**media temperature**

**ambient temperature**

°C < -21 °C / -196 °C

**limit switches**  
**manual override**  
**approvals**  
**mounting**  
**weight**  
**additional equipment**

WAZ  
 kg 3,5

**nominal voltage**

**actuation**

**electrical specifications**

**options**

U <sub>n</sub>	DC 24 V +5%/-10%	special voltage upon request
U <sub>n</sub>	AC 230 V +5%/-10% 40-60 Hz	special voltage upon request
DC	direct-current magnet	
AC	direct-current magnet with integrated rectifier	under -50 °C with separate rectifier

**insulating rating**  
**protection**  
**energized duty rating**  
**connection**

H 180°C  
 IP65  
 ED 100%  
 terminal box M16x1,5

**optional additional equipment**  
**current consumption**

DC 24 V	2,64 A
AC 230 V 40-60 Hz	0,30 A

**explosion proof**

**limit switches**

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

# coax® data sheet - cryogenic valve

type KB 20

function: **NC**  
closed when not energized

