

08/2022



⚠ 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
- switching cycles

⚠ 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.

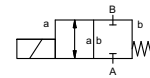
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

direct acting

PN 0-400 bar
 DN 2-8 mm
 thread
 valve normally closed
 symbol **NC**



operating principle

body material

direct acting, with spring return

① 1.4104/steel, nickel plated
 ②
 ③
 ④ stainless steel, steel, nickel plated

valve seat

synthetic materials on metal

seal materials

NBR, PTFE **FPM**

ports

general specifications

options

function
pressure range

KB threads G 3/8 **special threads**

Kv value
vacuum
pressure-vacuum
back pressure
media

	NC (1-coil operation)	NC (2-coil operation)
bar	30 50 80 120 250 300	40 70 100 150 300 400
DN	8 6 5 4 3 2	8 6 5 4 3 2
l/min	24.0 17.4 13.5 11.0 4.1 1.7	24.0 17.4 13.5 11.0 4.1 1.7
leak rate	< 10 ⁻⁶ mbar•L•s ⁻¹	
P ₁ ↔ P ₂	upon request	
P ₂ > P ₁	upon request	
	gaseous - liquid	

abrasive media damping

opening
 closing

flow direction
switching cycles
switching time

	as marked	bi-directional upon request
1/min	260	370
ms	opening 60	opening 40
	closing 170	closing 120
°C	DC: -20 to +100	> 100 °C upon request
	AC: -20 to +100	> 100 °C upon request

media temperature
ambient temperature

WAZ

limit switches
manual override
approvals
mounting
weight
additional equipment

kg 2.5
 upon request

nominal voltage

electrical specifications

options

actuation

U_n DC 24 V +5%/-10% **special voltage upon request**
 U_n AC 230 V +5%/-10% 40-60 Hz **special voltage upon request**
 DC direct-current magnet
 AC direct-current magnet with integrated rectifier **above 100 °C with separate rectifier**

insulating rating
protection
energized duty rating
connection

H 180°C
 IP65
 ED 100% (upon request)
 plug acc. DIN EN 175301-803 form A, 4 terminal box M16x1,5
 positions x90° / wire diameter 6-8 mm

optional
additional equipment
current consumption

M12x1 connector acc. DESINA **connector acc. VDMA**
 illuminated plug with varistor
 1-coil DC 24 V 2.29 A
 operation AC 230 V 40-60 Hz 0.24 A
 2-coil pick up power DC 24 V 4.21 A / AC 230 V 0.58A
 operation holding power DC 24 V 1.54 A / AC 230 V 0.15A
 terminal box M16x1,5
 Ⓢ II 3G Ex ec IIC T3 Ta -20...+80°C Gc
 Ⓢ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc
 Ⓢ II 3G Ex h IIC T3 Gc
 Ⓢ II 3D Ex h IIIC T195°C Dc

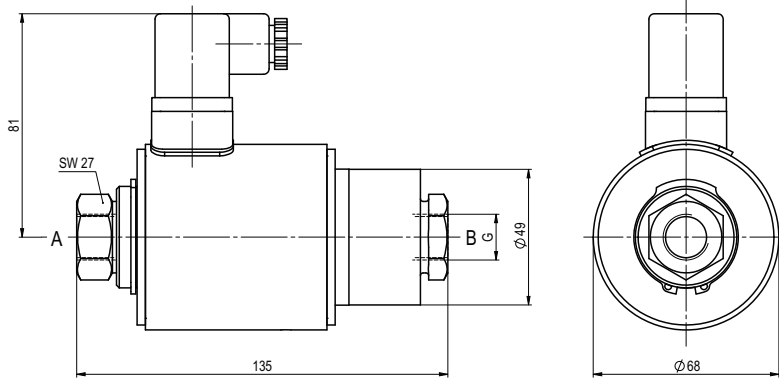
explosion proof

limit switches

coax® data sheet - coaxial valve

type KB 15

function: **NC**
closed when not energized



function: **NC**
closed when not energized

