

08/2021



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

**details needed**

- orifice
- port
- function NC/NO
- 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.

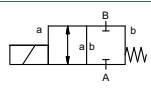
**⚠** If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

**2/2-way valve**

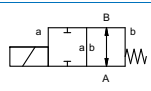
**pressure range**  
**orifice**  
**connection**  
**function**

**direct acting**

PN 0-16 bar  
 DN 80 mm  
 flange  
 valve normally closed  
 symbol **NC**



valve normally open  
 symbol **NO**



**design**

**body materials**

pressure balanced, with spring return

- ① aluminium
- ② steel galvanized
- ③
- ④ steel, nickel plated
- ⑤ without non-ferr. Metals
- ⑥ stainless steel

**valve seat**

synthetic resin on metal

**seal materials**

NBR PTFE, FPM, EPDM

**ports**

**general specifications**

**options**

**function**  
**pressure range**

FK flanges PN 16 special flanges  
 NC NO  
 bar 0-16 > 16 bar upon request

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

m<sup>3</sup>/h 92,0  
 leak rate < 10<sup>-4</sup> mbar•L•s<sup>-1</sup>  
 P<sub>1</sub> ↔ P<sub>2</sub> upon request  
 P<sub>2</sub> > P<sub>1</sub> available (max. 5 bar)  
 gaseous - liquid - highly viscous -  
 gelatinous - contaminated

**abrasive media**  
**damping**

opening upon request  
 closing upon request  
 A ↔ B as marked bi-directional (max. 5 bar)

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

1/min 20  
 ms opening 600  
 closing 800  
 °C DC: -20 to +80  
 AC: -20 to +80  
 °C DC: -20 to +80  
 AC: -20 to +80

**media temperature**  
**ambient temperature**

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

inductive  
 LR/GL/WAZ  
 kg FK 38,0  
 upon request

**nominal voltage**

**electrical specifications**

**options**

**actuation**

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

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

H 180°C  
 IP65  
 ED 100%  
 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**

illuminated plug with varistor  
 N-coil DC 24 V 4,40 A  
 AC 230 V 40-60 Hz 0,65 A  
 H-coil AC 230 V 40-60 Hz 0,79 A

**explosion proof**

**limit switches**

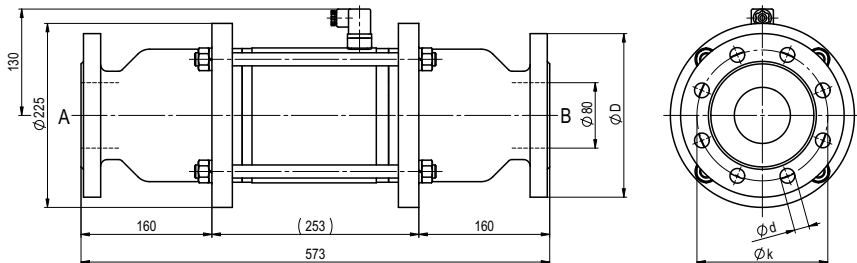
inductive (I) normally open-PNP  
 inductive (B) normally open-PNP

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

# coax® data sheet - coaxial valve

## type FK 80

function: **NC**  
closed when not energized



flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	EN 1092-1	200	160	18

function: **NO**  
open when not energized

