

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/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. 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 0-16 bar

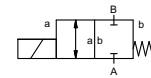
DN 80 mm

flange

valve

normally closed

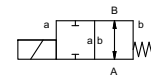
symbol **NC**



valve

normally open

symbol **NO**



**operating principle**

**body material**

pressure balanced, with spring return

① aluminium

② steel galvanized

③

⑤ without non-ferr. Metals

④ steel, nickel plated

⑥ stainless steel

**valve seat**

synthetic materials on metal

**seal materials**

NBR

PTFE, FPM, EPDM

**ports**

FK

flanges PN 16

**options**

special flanges

**function**

NC

NO

**pressure range**

0-16

> 16 bar upon request

**Kv value**

m<sup>3</sup>/h 92.0

**vacuum**

leak rate

< 10<sup>-4</sup> mbar•L•s<sup>-1</sup>

**pressure-vacuum**

P<sub>1</sub> ↔ P<sub>2</sub>

upon request

**back pressure**

P<sub>2</sub> > P<sub>1</sub>

available (max. 5 bar)

**media**

gaseous - liquid - highly viscous -

gelatinous - contaminated

upon request

**abrasive media**

**damping**

opening

upon request

closing

upon request

**flow direction**

A ↔ B

as marked

bi-directional (max. 5 bar)

**switching cycles**

1/min

20

**switching time**

ms

opening 600

closing 800

**media temperature**

°C

DC: -20 to +80

AC: -20 to +80

**ambient temperature**

°C

DC: -20 to +80

AC: -20 to +80

**limit switches**

inductive

**manual override**

LR/DNV/WAZ

**approvals**

**mounting**

**weight**

kg

FK 38.0

upon request

**additional equipment**

**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

**insulating rating**

H

180°C

**protection**

IP65

**energized duty rating**

ED

100%

**connection**

plug acc. DIN EN 175301-803 form A, 4 terminal box M16x1,5 positions x90° / wire diameter 6-8 mm

**optional**

**additional equipment**

illuminated plug with varistor

**current consumption**

N-coil

DC 24 V 4.36 A

AC 230 V 40-60 Hz 0.63 A

H-coil

AC 230 V 40-60 Hz 0.76 A

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

**limit switches**

inductive (I)

normally open-PNP

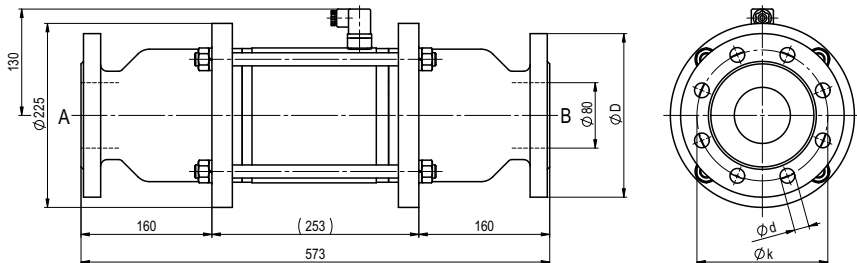
inductive (B)

normally open-PNP

# coax® data sheet - coaxial valve

type FK 80

function: **NC**  
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	200	160	18

function: **NO**  
open when not energized

