

03/2022



⚠ 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
- inlet pressure at A, B or C
- 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.

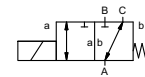
specifications not highlighted are standard
 specifications highlighted in grey are optional

3/2 way valve

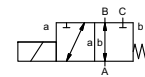
pressure range
orifice
connection
function

direct acting

PN 0-16 bar
 DN 80 mm
 flange
 valve normally closed (A ► B)
 symbol **NC**



valve normally open (A ► B)
 symbol **NO**



operating principle
body material

pressure balanced, with spring return, intersecting switch-over
 ① aluminium
 ② steel galvanized
 ③
 ⑤
 ④ steel, nickel plated
 ⑥ stainless steel

valve seat

synthetic materials on metal

seal materials

NBR PTFE, FPM, EPDM

ports

general specifications

options

function
pressure range

FK flanges PN 16 special flanges
 NC NO
 0-16
 A ⇒ B max. 16 / B ⇒ A max. 5 / A ⇒ C max. 16 / C ⇒ A max. 16

Kv value
vacuum
pressure-vacuum
back pressure
media

m³/h 55,0
 leak rate < 10⁻⁴ mbar•L•s⁻¹
 P₁ ⇔ P₂ upon request
 P₂ > P₁ see pressure range
 gaseous - liquid - highly viscous -
 gelatinous - contaminated
 upon request

abrasive media
damping

opening
 closing

flow direction
switching cycles
switching time

see pressure range
 1/min 20
 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
manual override
approvals
mounting
weight
additional equipment

inductive
 LR/DNV/WAZ
 kg FK 48,8
 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

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 4,36 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 nA 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

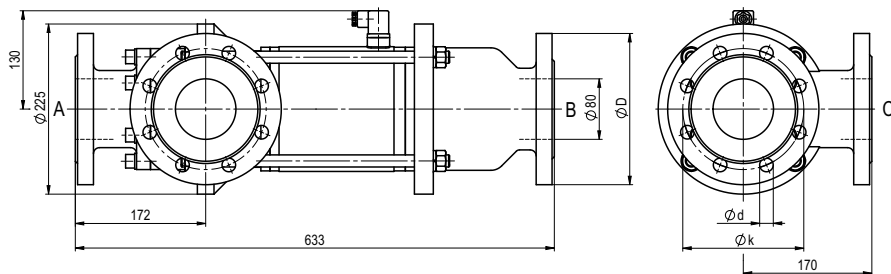
limit switches

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

coax® data sheet - coaxial valve

type FK 80 DR

function: **NC**
closed when not energized (A ► B)



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

function: **NO**
open when not energized (A ► B)

