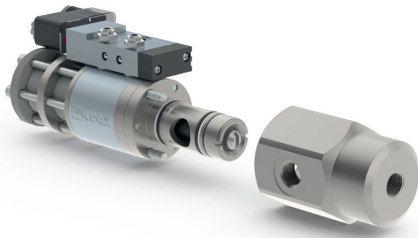


09/2022



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

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure/Δp
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

details needed for pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max
- pilot valve type

details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

⚠ 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

operating principle

body material

valve seat

seal materials

ports

function
pressure range

Kv value
vacuum
pressure-vacuum

back pressure
media

abrasive media
damping

flow direction
switching cycles
switching time

media temperature
ambient temperature
flush ports
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

nominal voltage

power consumption

protection
energized duty rating
connection
optional additional equipment
max. temperature

explosion proof

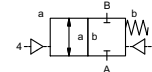
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

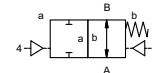
externally controlled

PN 0-200 bar
 DN 10 mm
 thread/cartridge

valve normally closed
 symbol **NC**



valve normally open
 symbol **NO**



externally controlled with spring return

① aluminium
 ②
 ③
 ④
 ⑤ stainless steel

synthetic materials on metal
 HNBR

metal on metal
 FPM, EPDM

general specifications

PCS-3 without valve body
 bar NC
 0-150 (0-200 see pressure diagram)

options

with valve body thread G 3/8
 NO
 NO [see pressure diagram]

m³/h 3.0
 leak rate
 P₁ ↔ P₂

P₂ > P₁
 gaseous - liquid - highly viscous -
 gelatinous - pasty - contaminated

upon request

available

opening closing
 A ↔ B
 1/min
 ms opening closing
 °C direct mounted pilot valve 60
 °C direct mounted pilot valve 50

by throttles on pilot valve

as marked

700

30-3000

30-3000

bi-directional upon request

remote mounted pilot valve outside

temperatur range of media max. 150 °C

available

inductive

via pilot valve

WAZ

mounting holes on valve body 2 x M6

kg PCS-3 1.3

PCS-3 1.9

valve body

electrical specifications

U_n DC 24 V
 U_n AC 230 V 50 Hz
 DC 4.8 W
 AC pick up 11.0 VA holding 8.5 VA
 IP65 (P54) acc. DIN 40050
 ED 100%

options

special voltage upon request
 special voltage upon request
 2.5 W [actuation pressure range 4-7 bar]

M12x1 connector acc. DESINA
 illuminated plug with varistor

connector acc. VDMA

media ambient
 E Ex e II T5 nominal voltage U_n
 power consumption

60°C
 50°C
 DC 24 V 3.25 W
 AC 230 V 50 Hz 2.90 W

pneumatic specifications

bar 4-8
 cm³/stroke PCS-3 27
 main valve speed variable by throttleson pilot valve preferably 5/2 way pilot valve
 2/4 G 1/8

options

hydraulic specifications

bar 10-30
 X/Y G 1/4 via adapter

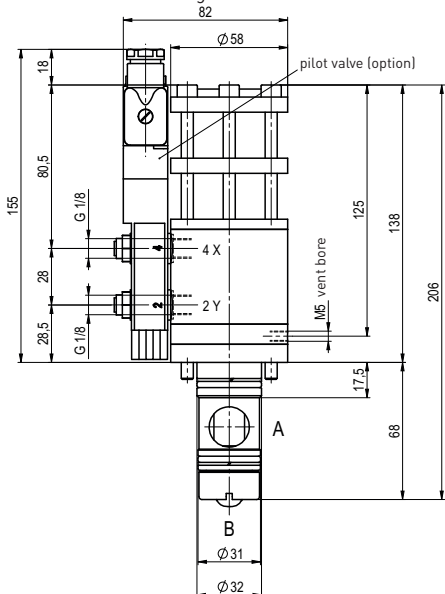
options

> 30 bar upon request
 NPT 1/4 via adapter

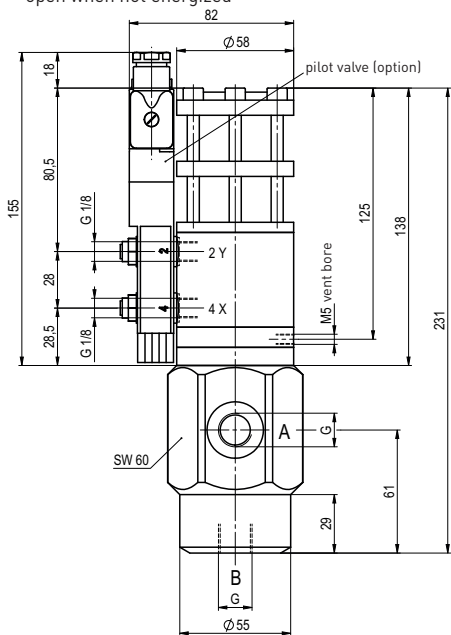
coax® data sheet - lateral valve

type PCS-3 10

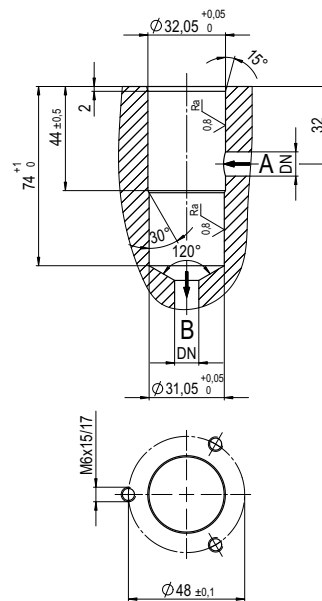
function: **NC**
closed when not energized



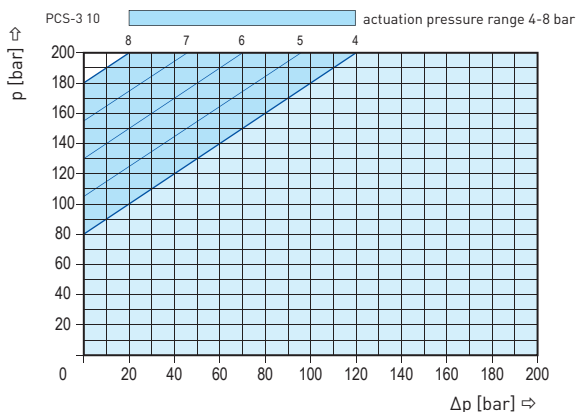
function: **NO**
open when not energized



drilling design for cartridge



pressure-diagram



pneumatic specifications

