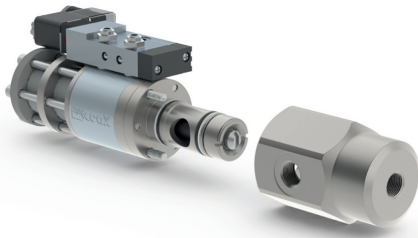


09/2022



⚠ 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

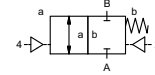
explosion proof

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

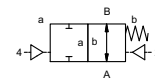
actuation pressure range
control
actuator ports
by media

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 stainless steel

synthetic materials on metal
 PU, NBR

general specifications

PCD-3 without valve body
 bar NC
 0-150 (0-200 see pressure diagram)
 m³/h 3.0
 leak rate < 10⁻⁶ mbar•L•s⁻¹
 P₁ ⇌ P₂ upon request
 P₂ > P₁ upon request
 gaseous - liquid - highly viscous - gelatinous - pasty

options

with valve body thread G 3/8
 NO
 NO [see pressure diagram]
 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
 PCD-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%
 plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm
 M12x1 connector acc. DESINA illuminated plug with varistor
 media 60°C
 ambient 50°C
 E Ex e II T5 nominal voltage U_n power consumption

options

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

pneumatic specifications

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

options

connector acc. VDMA

hydraulic specifications

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

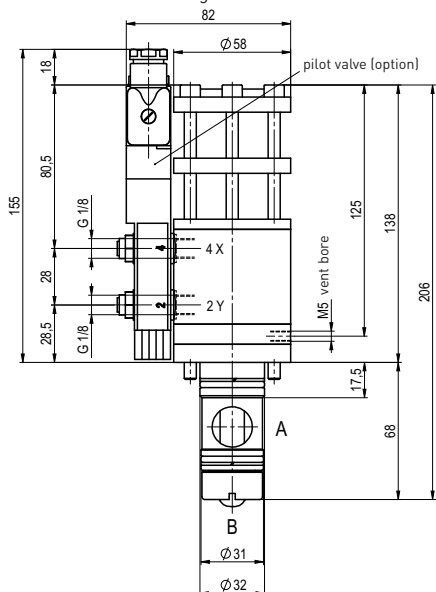
options

> 30 bar upon request
 NPT 1/4 via adapter

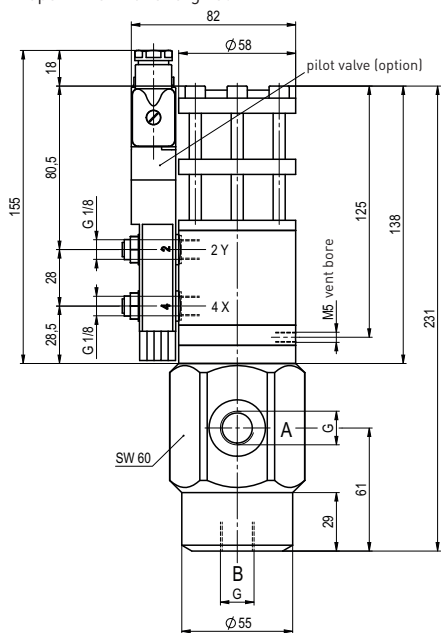
coax® data sheet - lateral valve

type PCD-3 10

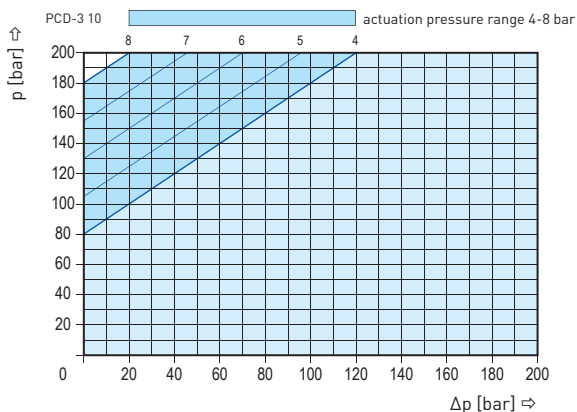
function: **NC**
closed when not energized



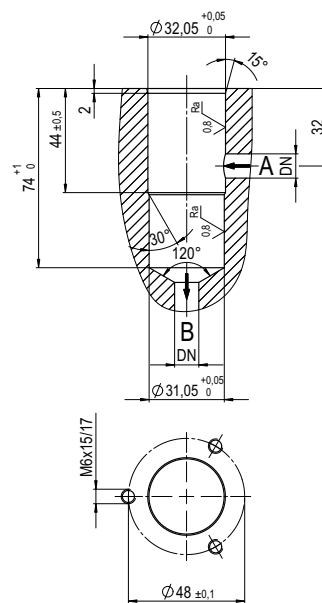
function: **NO**
open when not energized



pressure-diagram



drilling design for cartridge



pneumatic specifications

