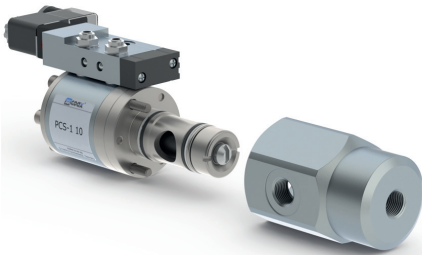


08/2021



⚠ 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.

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

2/2-way valve

pressure range
orifice
connection
function

design

body materials

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

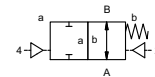
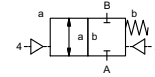
explosion proof

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 resin on metal
HNBR

metal on metal
FPM, EPDM

general specifications

PCS-1 without valve body
PCS-2 without valve body
PCS-1 0-50 [0-200 see pressure diagram]
PCS-2 0-100 [0-200 see pressure diagram]
m³/h 3,0
leak rate
P₁ ⇄ P₂

options

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

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

upon request

available

opening
closing by throttles on pilot valve
A ⇄ B as marked
1/min 700
ms opening 30-3000
closing 30-3000

bi-directional upon request

°C direct mounted pilot valve 60
°C direct mounted pilot valve 50

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-1 1,1 PCS-2 1,2
PCS-1 1,7 PCS-2 1,8
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, 4 positions x90° / 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]

connector acc. VDMA

DC 24 V 3,25 W
AC 230 V 50 Hz 2,90 W

pneumatic specifications

bar 4-10
cm³/stroke PCS-1 7 PCS-2 17
main valve speed variable by throttles on 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

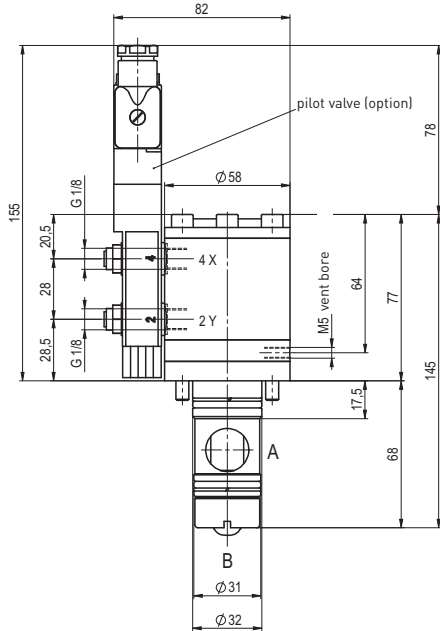
> 30 bar upon request
NPT 1/4 via adapter

coax® data sheet - lateral valve

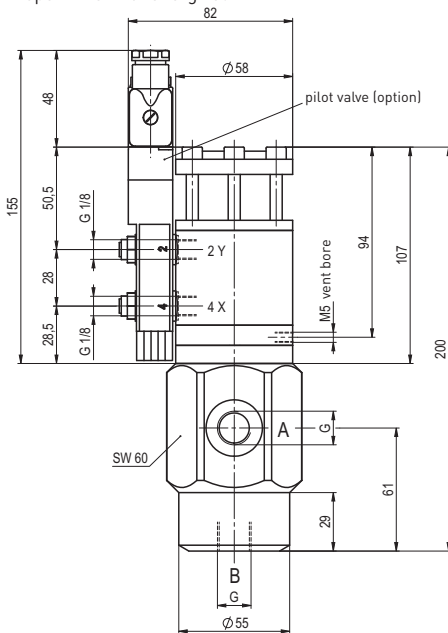
type PCS-1 10

PCS-2 10

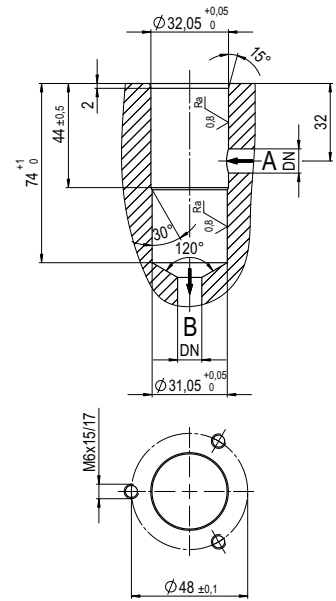
function: **NC**
closed when not energized



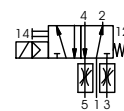
function: **NO**
open when not energized



drilling design for cartridge



pneumatic specifications



5/2 way pilot valve
flow rate 350 l/min
pressure range 3-10 bar G 1/8

pressure-diagram

