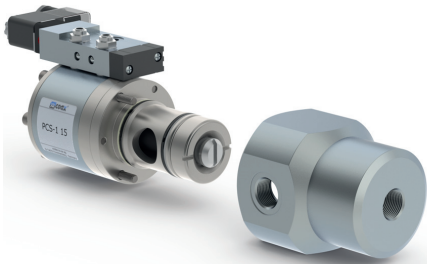


08/2021



⚠ 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

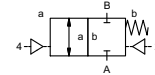
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

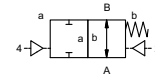
externally controlled

PN 0-200 bar
DN 15 mm
thread/cartridge

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



externally controlled with spring return

- ① aluminium
- ② brass
- ③
- ④ stainless steel

synthetic resin on metal

metal on metal

HNBR

FPM, EPDM

general specifications

| | | |
|-------|------------------------------------|--------------------------------------|
| PCS-1 | without valve body | with valve body thread G 1/2 - G 3/4 |
| PCS-2 | without valve body | with valve body thread G 1/2 - G 3/4 |
| | NC | NO |
| PCS-1 | 0-50 [0-200 see pressure diagram] | NO [see pressure diagram] |
| PCS-2 | 0-100 [0-200 see pressure diagram] | |
| | m ³ /h | 6,0 |
| | leak rate | |
| | P ₁ ⇄ P ₂ | |

options

| | | |
|---------------------------------|---|---------------------------------------|
| P ₂ > P ₁ | | upon request |
| | gaseous - liquid - highly viscous - gelatinous - pasty - contaminated | available |
| opening | | |
| closing | by throttles on pilot valve | |
| A ⇄ B | as marked | bi-directional upon request |
| 1/min | 300 | |
| ms | opening 100-3000 | |
| | closing 100-3000 | |
| °C | direct mounted pilot valve 60 | remote mounted pilot valve outside |
| °C | direct mounted pilot valve 50 | temperatur range of media max. 150 °C |
| | | available |
| | | inductive |
| | via pilot valve | |
| | | WAZ |
| | | mounting holes on valve body 2 x M8 |
| kg | PCS-1 1,8 PCS-2 2,1 | PCS-1 2,9 PCS-2 3,2 |
| | | valve body |

electrical specifications

| | | |
|----------------|---|--|
| U _n | DC 24 V | special voltage upon request |
| U _n | AC 230 V 50 Hz | special voltage upon request |
| DC | 4,8 W | 2,5 W [actuation pressure range 4-7 bar] |
| 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 | connector acc. VDMA |
| | illuminated plug with varistor | |
| media | 60°C | |
| ambient | 50°C | |
| E Ex e II T5 | nominal voltage U _n | DC 24 V 3,25 W |
| | power consumption | AC 230 V 50 Hz 2,90 W |

pneumatic specifications

| | |
|-------------------------|--|
| bar | 4-10 |
| cm ³ /stroke | PCS-1 14 PCS-2 36 |
| | 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 | > 30 bar upon request |
| | preferably 4/2 way control valve | |
| X/Y | G 1/4 via adapter | NPT 1/4 via adapter |

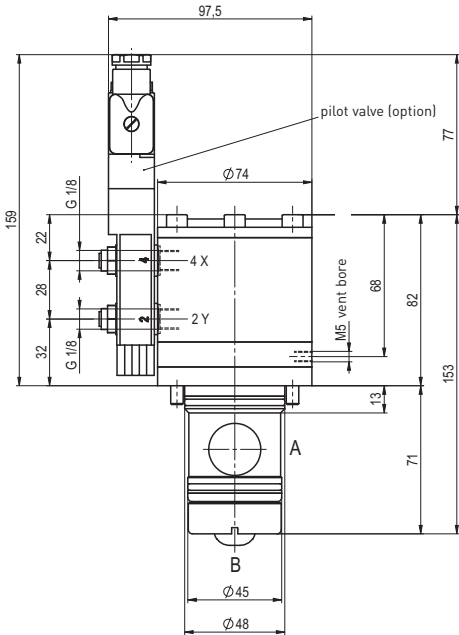
options

coax® data sheet - lateral valve

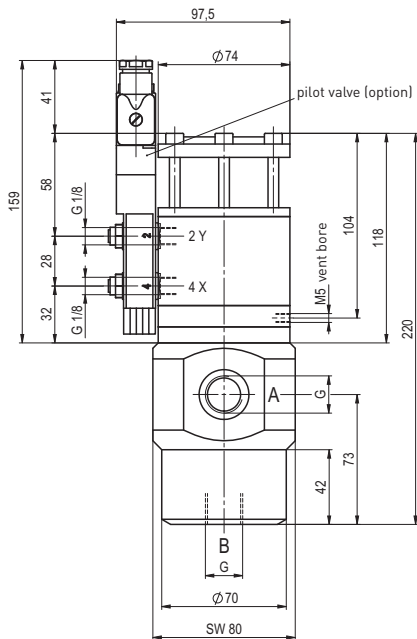
type PCS-1 15

PCS-2 15

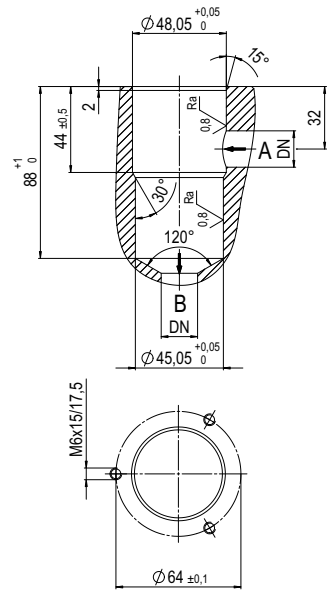
function: **NC**
closed when not energized



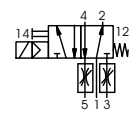
function: **NO**
open when not energized



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

