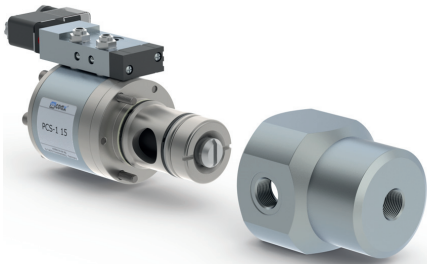


type PCS-1 15  
PCS-2 15

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**

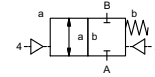
**explosion proof**

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

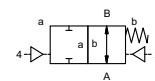
**actuation pressure range**  
**control**  
**actuator ports**  
**by media**

**externally controlled**

PN 0-200 bar  
DN 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 materials on metal metal on metal

HNBR FPM, EPDM

**general specifications**

PCS-1 without valve body  
PCS-2 without valve body  
NC  
PCS-1 0-50 [0-200 see pressure diagram]  
PCS-2 0-100 [0-200 see pressure diagram]  
m<sup>3</sup>/h 6.0  
leak rate  
P<sub>1</sub> ⇄ P<sub>2</sub>

**options**

with valve body thread G 1/2 - G 3/4  
with valve body thread G 1/2 - G 3/4  
NO [see pressure diagram]

P<sub>2</sub> > P<sub>1</sub> upon request  
gaseous - liquid - highly viscous -  
gelatinous - pasty - contaminated

available

opening closing by throttles on pilot valve  
A ⇄ B as marked  
1/min 300  
ms opening 100-3000  
closing 100-3000

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 M8

kg PCS-1 1.8 PCS-2 2.1  
PCS-1 2.9 PCS-2 3.2  
valve body

**electrical specifications**

U<sub>n</sub> DC 24 V  
U<sub>n</sub> 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<sub>n</sub>  
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 4-8  
cm<sup>3</sup>/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  
X/Y G 1/4 via adapter

**options**

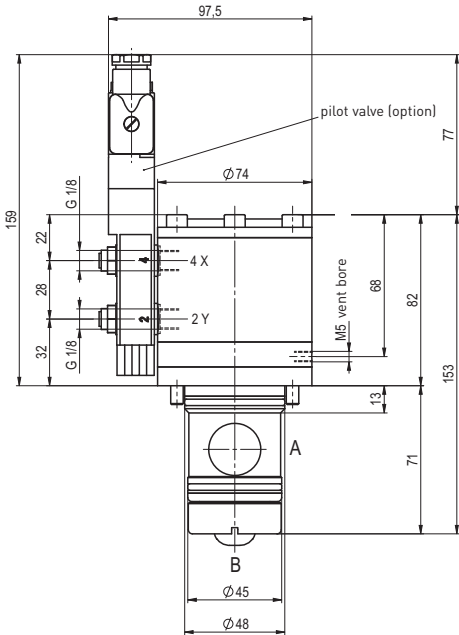
> 30 bar upon request  
NPT 1/4 via adapter

# coax® data sheet - lateral valve

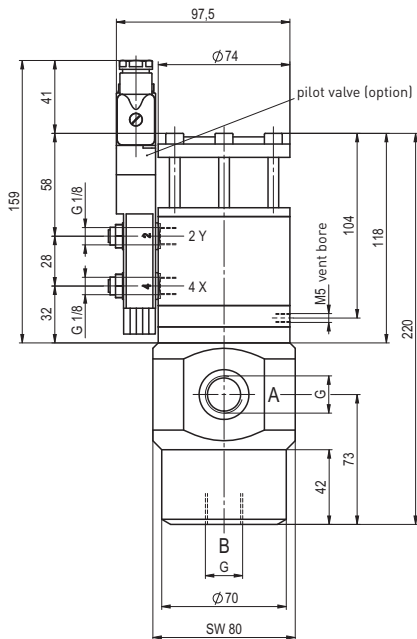
type PCS-1 15

PCS-2 15

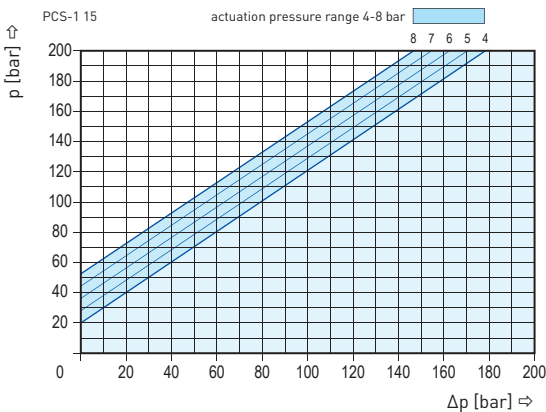
function: **NC**  
closed when not energized



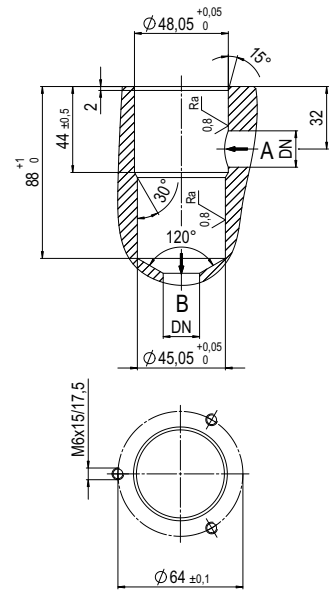
function: **NO**  
open when not energized



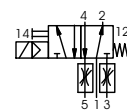
### pressure-diagram



### drilling design for cartridge



### pneumatic specifications



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

