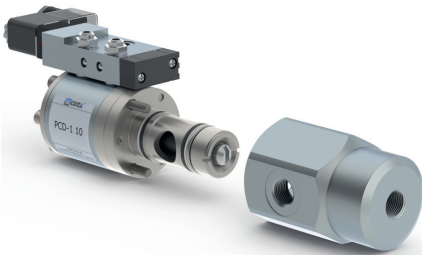


08/2021



**⚠** 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**

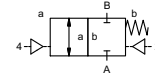
**actuation pressure range**  
**air consumption**  
**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

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

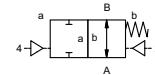
**externally controlled**

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 | ③                 |
| ①           | ④                 |
| ②           | ⑥ stainless steel |

synthetic resin on metal	metal on metal
PU, NBR	PTFE, PE, FPM, EPDM

**general specifications**

PCD-1	without valve body	with valve body thread G 3/8
PCD-2	without valve body	with valve body thread G 3/8
	NC	NO
PCD-1	0-50 [0-200 see pressure diagram]	NO [see pressure diagram]
PCD-2	0-100 [0-200 see pressure diagram]	
	m <sup>3</sup> /h	3,0
	leak rate	< 10 <sup>-6</sup> mbar•L•s <sup>-1</sup>
	P <sub>1</sub> ⇔ P <sub>2</sub>	upon request

**options**

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

opening	by throttles on pilot valve	
closing	as marked	bi-directional upon request
A ⇔ B	1/min	700
	ms	opening 30-3000
		closing 30-3000
°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 M6	
kg	PCD-1 1,1 PCD-2 1,2	PCD-1 1,7 PCD-2 1,8
		valve body

**electrical specifications**

U <sub>n</sub>	DC 24 V	special voltage upon request
U <sub>n</sub>	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 <sub>n</sub>	DC 24 V 3,25 W
	power consumption	AC 230 V 50 Hz 2,90 W

**options**

**pneumatic specifications**

bar	4-10
cm <sup>3</sup> /stroke	PCD-1 7 PCD-2 17
	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	> 30 bar upon request
X/Y	preferably 4/2 way control valve	
	G 1/4 via adapter	NPT 1/4 via adapter

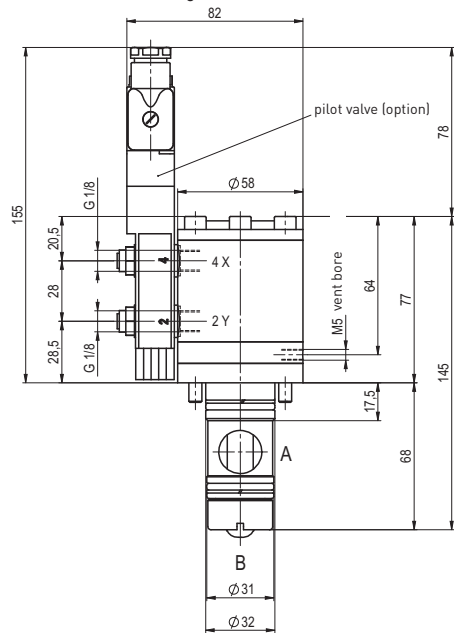
**options**

# coax® data sheet - lateral valve

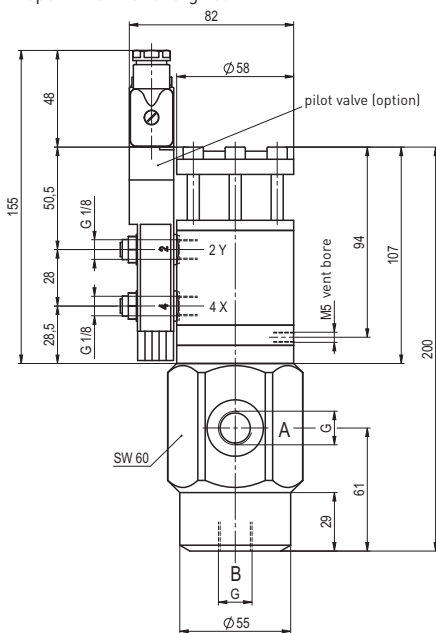
type PCD-1 10

PCD-2 10

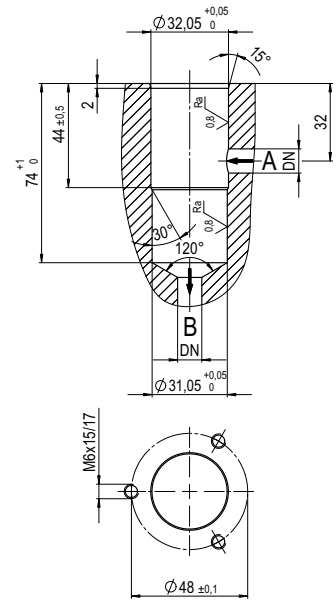
function: **NC**  
closed when not energized



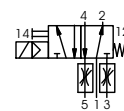
function: **NO**  
open when not energized



## 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

