

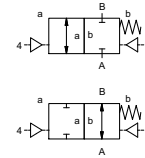
# lateral valve type PCD-H 10

## 5-PCD-H 10

valve type with pilot valve



**2/2 way valve** externally controlled  
**pressure range** PN 0-500 bar  
**orifice** DN 10 mm  
**connection** thread  
**function** valve normally closed symbol **NC**  
 valve normally open symbol **NO**



Above stated body materials refer to the valve port connections that get in contact with the media only!

**design** pressure balanced, with spring return  
**body materials** ① brass ②  
 ③ ⑤  
 ④ ⑥ stainless steel  
**valve seat** synthetic resin on metal  
**seal materials** NBR PTFE, FPM, CR, EPDM

**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
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

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

|                      | general specifications             | options   |
|----------------------|------------------------------------|---|
| ports                | PCD-H threads G 3/8                |   |
| function             | NC                                 | NO  |
| pressure range       | bar 0-500                          |   |
| Kv value             | m <sup>3</sup> /h 1,5              |   |
| vacuum               | leak rate                          |   |
| pressure-vacuum      | P <sub>1</sub> ↔ P <sub>2</sub>    |   |
| back pressure        | P <sub>2</sub> > P <sub>1</sub>    |   |
| media                | gaseous - liquid                   |   |
| abrasive media       |                                    |   |
| damping              | opening                            |   |
|                      | closing                            |   |
| flow direction       | A ↔ B see pressure range           |   |
| switching cycles     | 1/min 130                          |   |
| switching time       | ms opening 30-3000 closing 30-3000 |   |
| media temperature    | °C direct mounted pilot valve 60   | remote mounted pilot valve outside temperature range of media max.150°C |
| ambient temperature  | °C direct mounted pilot valve 50   |   |
| flush ports          |                                    |   |
| leak ports           |                                    |   |
| limit switches       |                                    | inductive   |
| manual override      |                                    |   |
| approvals            |                                    |   |
| mounting             |                                    |   |
| weight               | kg 9,0                             |   |
| additional equipment |                                    |   |

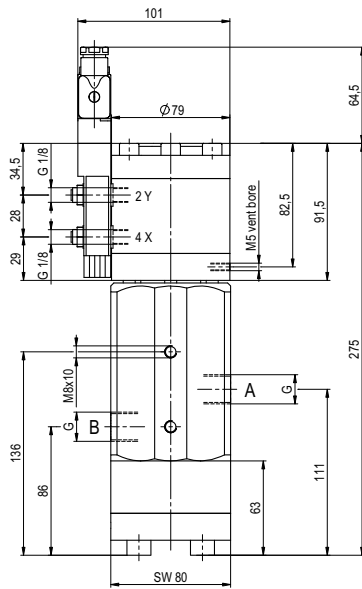
|                       | electrical specifications  | options                                |
|-----------------------|--|--|
| nominal voltage       | U <sub>n</sub> DC 24V  | special voltage upon request           |
|                       | U <sub>n</sub> AC 230V 50 Hz   | special voltage upon request           |
| power consumption     | DC 4,8 W   | 2,5 W                                  |
|                       | AC pick up 11,0 VA holding 8,5 VA  |  |
| protection            | IP 65 (P54) acc. DIN 40 050  |  |
| energized duty rating | ED 100%  |  |
| connection            | plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm |  |
| additional equipment  | illuminated plug with varistor   |  |
| optional              | M12x1 connector acc. DESINA  | connector acc. VDMA                    |
| max. temperature      | media 60°C   |  |
|                       | ambient 50°C   |  |
| explosion proof       | EEx m II T5 nominal voltage U <sub>n</sub>                                   | direct current 24 V 3,25 W             |
|                       | power consumption  | alternating current 230 V 50 Hz 2,90 W |

|                          | pneumatic specifications                              | options |
|--------------------------|---|---------|
| actuation pressure range | bar 4-10  |         |
| air consumption          | cm <sup>3</sup> /stroke 7                             |         |
| cycle speed              | main valve speed variable by throttles on pilot valve |         |
| control                  | preferably 5/2-way pilot valve                        |         |
| actuator ports           | 2/4 G 1/8   |         |

|                          | hydraulic specifications | options |
|--------------------------|--------------------------|---------|
| actuation pressure range |                          |         |
| by media                 |                          |         |
| control                  |                          |         |
| actuator ports           |                          |         |

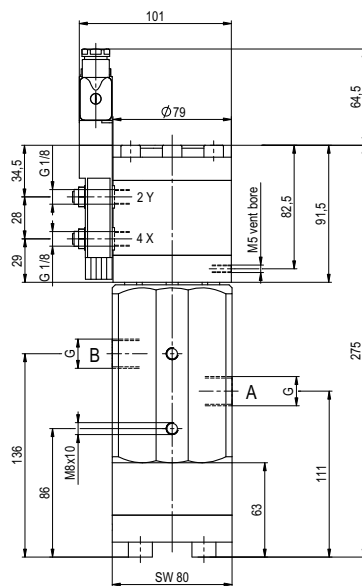
# type PCD-H 10

function: **NC**  
closed when not energized

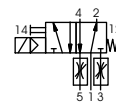


# type PCD-H 10

function: **NO**  
open when not energized



## pneumatic actuation



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

The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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