

# lateral valve

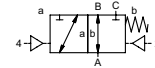
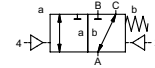
## type PCD-H 15 DR


### 5-PCD-H 15 DR

valve type with pilot valve



**3/2 way valve** externally controlled  
**pressure range** PN 0-500 bar  
**orifice** DN 15 mm  
**connection** thread  
**function** valve  
 normally closed (A ► B)  
 symbol **NC**  
 valve  
 normally open (A ► B)  
 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, switching overlap

**body materials** ① brass ③  
 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
- inlet pressure at A, B or C
- 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.

#### general specifications

<b>ports</b>	PCD-H	threads G 1/2 - G 3/4
<b>function</b>	NC	NO
<b>pressure range</b>	bar	0-500
<b>Kv value</b>	m³/h	3,5
<b>vacuum</b>	leak rate	
<b>pressure-vacuum</b>	P1 ⇄ P2	
<b>back pressure</b>	P2 > P1	
<b>media</b>		gaseous - liquid
<b>abrasive media</b>		
<b>damping</b>	opening	
	closing	
<b>flow direction</b>		see pressure range
<b>switching cycles</b>	1/min	100
<b>switching time</b>	ms	opening 30-3000 closing 30-3000
<b>media temperature</b>	°C	direct mounted pilot valve 60
<b>ambient temperature</b>	°C	direct mounted pilot valve 50
<b>flush ports</b>		
<b>leak ports</b>		
<b>limit switches</b>		inductive
<b>manual override</b>		
<b>approvals</b>		
<b>mounting</b>		
<b>weight</b>	kg	17,5
<b>additional equipment</b>		

#### options

#### electrical specifications

<b>nominal voltage</b>	U <sub>n</sub>	DC 24 V	special voltage upon request
	U <sub>n</sub>	AC 230 V 50 Hz	special voltage upon request
<b>power consumption</b>	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
<b>protection</b>	IP65 (P54)	acc. DIN 40050	
<b>energized duty rating</b>	ED	100%	
<b>connection</b>		plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
<b>optional</b>	M12x1	connector acc. DESINA	connector acc. VDMA
<b>additional equipment</b>		illuminated plug with varistor	
<b>max. temperature</b>	media	60°C	
	ambient	50°C	
<b>explosion proof</b>	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

<b>actuation pressure range</b>	bar	4-10
<b>air consumption</b>	cm³/stroke	7
<b>cycle speed</b>		main valve speed variable by throttleson pilot valve
<b>control</b>		preferably 5/2 way pilot valve
<b>pilot valve interface</b>		
<b>actuator ports</b>	2/4	G 1/8

#### options

#### hydraulic specifications

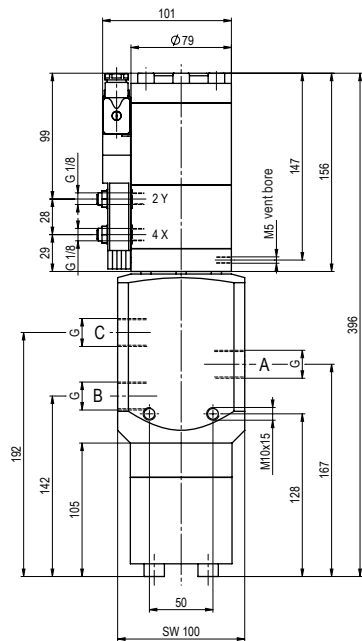
<b>actuation pressure range</b>		
<b>control</b>		
<b>actuator ports</b>		
<b>by media</b>		

#### options

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

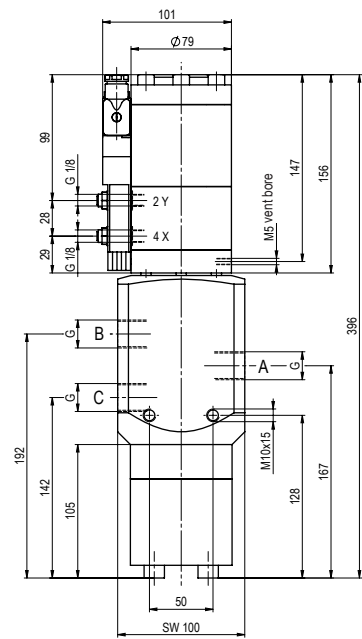
type **PCD-H 15 DR**

function: **NC**  
closed when not energized (A ► B)

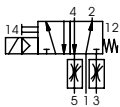


type **PCD-H 15 DR**

function: **NO**  
open when not energized (A ► B)



**pneumatic actuation**



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