

lateral valve

5-PCS-1 10 5-PCS-2 10

valve type with pilot valve

type **PCS-1 10 PCS-2 10**



2/2 way valve externally controlled pressure range PN 0-200 bar

orifice DN 10 mm connection thread/cartridge function valve

normally closed symbol NC

valve normally open symbol NO



options

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

externally controlled with spring return

body materials aluminium (3) 1

general specifications

(4)

2 6 stainless steel valve seat synthetic resin on metal metal on metal seal materials HNBR FPM. EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure/∆p
- I 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

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.

ambient temperature flush ports leak ports limit switches manual override approvals C direct mounted pilot valve 50 ratur range of media max. 150 °C		•	•	•
Function pressure range PCS-1 0-50 (0-200 see pressure diagram) NO (see pressure diagram) Kv value vacuum pressure-vacuum P1 3,0 leak rate P1 ⇔ P2 back pressure media damping closing damping closing damping closing switching cycles switching time media temperature ambient temperature ambient temperature ambient temperature amprovals mounting weight additional equipment NC	ports	PCS-1	without valve body	with valve body thread G 3/8
PCS-1		PCS-2	without valve body	with valve body thread G 3/8
CS-2 0-100 (0-200 see pressure diagram) m³/h 3,0 leak rate P₁⇔ P₂	function		NC	NO
Rv value vacuum Frequency	pressure range	PCS-1	0-50 (0-200 see pressure diagram)	NO (see pressure diagram)
vacuum pressure-vacuum back pressure media abrasive media abrasive media damping closing by throttles on pilot valve flow direction switching time media temperature ambient temperature aleak ports leak ports leak ports limit switches manual override approvals mounting weight additional equipment vacuum pressure-vacuum P₂ > P₁		PCS-2	0-100 (0-200 see pressure diagram)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Kv value	m³/h	3,0	
back pressure media abrasive media damping closing by throttles on pilot valve flow direction switching cycles switching time media temperature ambient temperature ambient temperature leak ports leak ports limit switches manual override approvals mounting weight additional equipment back pressure media gaseous - liquid - highly viscous - gelatinous - pasty - contaminated version available version available oversion available	vacuum	leak rate		
abrasive media damping flow direction switching cycles switching time media temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment gaseous - liquid - highly viscous - gelatinous - pasty - contaminated version available version available bi-directional upon request // I/min 700 ms opening 30-3000 closing 30-3000 ms opening 30-3000 closing 30-3000 remote mounted pilot valve 60 remote mounted pilot valve 50 ratur range of media max. 150 °C wia 5/2 way pilot valve weight additional equipment	pressure-vacuum	P₁⇔ P₂		
abrasive media damping flow direction switching cycles switching time media temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment gaseous - liquid - highly viscous - gelatinous - pasty - contaminated version available version available bi-directional upon request // I/min 700 ms opening 30-3000 closing 30-3000 ms opening 30-3000 closing 30-3000 remote mounted pilot valve 60 remote mounted pilot valve 50 ratur range of media max. 150 °C wia 5/2 way pilot valve weight additional equipment	back pressure	P ₂ > P ₁		available upon request
abrasive media damping closing poening closing by throttles on pilot valve A ⇒ B as marked bi-directional upon request 1/min 700 ms opening 30-3000 closing 30-3000 media temperature ambient temperature ambient temperature flush ports leak ports leak ports limit switches manual override approvals mounting weight additional equipment abrasive media by throttles on pilot valve bi-directional upon request request bi-directional upon request request bi-directional upon request request request limit valve 60 remote mounted pilot valve 60 reatur range of media max. 150 °C available inductive wia 5/2 way pilot valve WAZ mounting holes on valve body 2 x valve body valve body			gaseous - liquid - highly viscous -	aranazio aporrioquost
abrasive media damping opening closing by throttles on pilot valve flow direction switching cycles switching time media temperature ambient temperature affush ports leak ports limit switches manual override approvals mounting weight additional equipment with the media temperature approvals mounting weight additional equipment with the special point opening and point valve on pilot valve bid valve bid valve bid inductive inductive inductive was provided approvals weight additional equipment with the special point valve inductive inductive was provided approvals weight additional equipment with the special point valve inductive inductive was provided approvals weight additional equipment with the special point valve inductive inductive inductive inductive was provided approvals weight additional equipment with the special point valve inductive			. ,	
damping closing closing by throttles on pilot valve A ⇒ B as marked bi-directional upon request 1/min 700 ms opening 30-3000 closing 30-3000 ms opening 30-3000 closing 30-3000 ms opening 30-3000 closing 30-3000 ms opening 30-3000 remote mounted pilot valve outside ambient temperature afflush ports leak ports leak ports limit switches manual override approvals mounting weight additional equipment A ⇒ B as marked bi-directional upon request 1/min 700 ms opening 30-3000 closing 30-3000 remote mounted pilot valve 50 ratur range of media max. 150 °C Via 5/2 way pilot valve WAZ mounting holes on valve body 2 x valve body Recompliance of the control of the	abrasive media		goldinede pacty contamilated	version available
flow direction switching cycles switching time media temperature ambient temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment closing by throttles on pilot valve as marked bi-directional upon request 1/min 700 remote mounted pilot valve 60 remote mounted pilot valve outside ratur range of media max. 150 °C available inductive wax mounting weight additional equipment closing by throttles on pilot valve bi-directional upon request 1/min 700 remote mounted pilot valve 50 ratur range of media max. 150 °C WAZ mounting boles on valve body 2 x valve body available inductive via 5/2 way pilot valve WAZ mounting holes on valve body 2 x valve body	damping	opening		
flow direction switching cycles switching time media temperature ambient temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment A ⇒ B as marked bi-directional upon request 1/min 700 ms opening 30-3000 closing 30-3000 °C direct mounted pilot valve 60 remote mounted pilot valve outside ratur range of media max. 150 °C available inductive wia 5/2 way pilot valve WAZ mounting holes on valve body 2 x valve body kg PCS-1 1,1 PCS-2 1,2 PCS-1 1,7 PCS-2 1,8 valve body			by throttles on pilot valve	
switching cycles switching time media temperature ambient temperature affush ports leak ports limit switches manual override approvals mounting weight additional equipment in temperature ambient temperature ambient temperature ambient temperature ambient temperature ambient temperature arbient temperature	flow direction		· · · · · · · · · · · · · · · · · · ·	bi-directional upon request
switching time media temperature ambient temperature affush ports leak ports limit switches manual override approvals mounting weight additional equipment sum and temperature above the media temperature above to direct mounted pilot valve 60 remote mounted pilot valve 50 remote mounted pilot valve 50 ratur range of media max. 150 °C ratu	switching cycles	1/min	700	
ambient temperature flush ports leak ports limit switches manual override approvals mounting weight additional equipment of the flush ports limit temperature flush ports leak ports limit switches inductive inductive wia 5/2 way pilot valve wAZ mounting holes on valve body 2 x walve body walve body 2 x walve body walve body		ms	opening 30-3000 closing 30-3000	
flush ports leak ports leak ports limit switches manual override approvals mounting weight additional equipment flush ports available inductive wia 5/2 way pilot valve WAZ mounting holes on valve body 2 x valve body walve body	media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
leak ports limit switches manual override approvals mounting weight additional equipment available inductive WAZ mounting holes on valve body 2 x valve body available inductive WAZ mounting holes on valve body 2 x valve body	ambient temperature	°C	direct mounted pilot valve 50	ratur range of media max. 150 °C
limit switches manual override approvals mounting weight additional equipment limit switches inductive WAZ mounting holes on valve body 2 x yalve body walve body	flush ports		·	
manual override approvals mounting weight additional equipment via 5/2 way pilot valve WAZ mounting holes on valve body 2 x ***8 **PCS-1 1,1 PCS-2 1,2 PCS-1 1,7 PCS-2 1,8 Valve body	leak ports			available
Approvals WAZ MOUNTING MO	limit switches			inductive
mounting weight kg PCS-1 1,1 PCS-2 1,2 PCS-1 1,7 PCS-2 1,8 additional equipment valve body	manual override		via 5/2 way pilot valve	
weight kg PCS-1 1,1 PCS-2 1,2 PCS-1 1,7 PCS-2 1,8 additional equipment valve body	approvals		•	WAZ
additional equipment valve body	mounting			mounting holes on valve body 2 x M6
	weight	kg	PCS-1 1,1 PCS-2 1,2	PCS-1 1,7 PCS-2 1,8
electrical specifications options	additional equipment			valve body
electrical specifications options			-1 : :: : : : - : - : - :	
		electric	options	

	electrical specifications		options	
nominal voltage	Un	DC 24 V	special voltage upo	on request
	Un	AC 230 V 50 Hz	special voltage upo	on request
power consumption	DC	4,8 W	2,5 W	
	AC	pick up 11,0 VA holding 8,5 VA		
protection	IP65 (P54)	acc. DIN 40050		
energized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B,	4 positions x90° / w	rire diameter 6-8 mm
optional	M12x1	connector acc. DESINA	connector acc. VD	MA
additional equipment		iluminated plug with varistor		
max. temperature	media	60°C		
	ambient	50°C		
explosion proof	E Ex e II T5	nominal voltage Un	DC 24 V	3,25 W
		power consumption	AC 230 V 50 Hz	2,90 W

pneumatic specifications	options
--------------------------	---------

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

actuatio

bar	4-10
cm³/stroke	PCS-1 7 PCS-2 17
	main valve speed variable by throttleson pilot valve
	via 5/2 way pilot valve
2/4	G 1/8

	nyaraulic specifications		options	
on pressure range	bar	10-30	>30 bar upon request	
control		preferably 4/2 way control valve		
actuator ports	X/Y	G 1/4 via adapter	NPT 1/4 via adapter	
hy media			_	

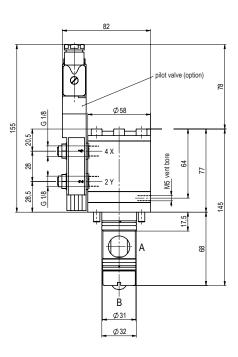
specifications not highlighted are standard specifications highlighted in grey are optional

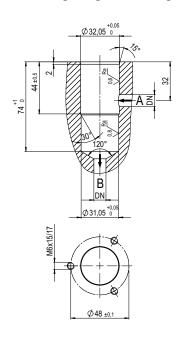
type **PCS-1 10**

function: NC

closed when not energized

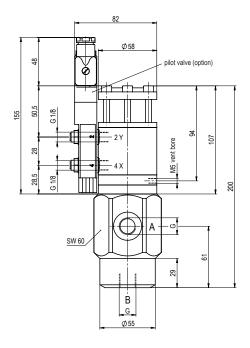
drilling design for cartridge





type **PCS-2 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

pressure-diagram

