

5-PCS-1 15
5-PCS-2 15

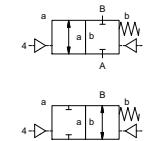
valve type with pilot valve



lateral valve

type **PCS-1 15**
PCS-2 15

| | |
|-----------------------|--|
| 2/2 way valve | externally controlled |
| pressure range | PN 0-200 bar |
| orifice | DN 15 mm |
| connection | thread/cartridge |
| 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) aluminium (3)
 (1) brass (4)
 (2)

valve seat seal materials synthetic resin on metal
 HNBR

(6) stainless steel
 metal on metal
 FPM, 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

details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

general specifications

| | | |
|-------------------------------|---|---|
| ports | PCS-1 without valve body | options with valve body thread G 1/2 - G 3/4 |
| | PCS-2 without valve body | with valve body thread G 1/2 - G 3/4 |
| function | NC | NO |
| pressure range | PCS-1 0-50 (0-200 see pressure diagram) | NO (see pressure diagram) |
| | PCS-2 0-100 (0-200 see pressure diagram) | |
| K_v value | 6,0 | |
| vacuum | leak rate | |
| pressure-vacuum | P ₁ ↔ P ₂ | |
| back pressure | P ₂ > P ₁ | available upon request |
| media | gaseous - liquid - highly viscous - gelatinous - pasty - contaminated | |
| abrasive media damping | | version available |
| opening | | |
| closing | by throttles on pilot valve | |
| flow direction | A → B as marked | bi-directional upon request |
| switching cycles | 1/min 300 | |
| switching time | ms opening 100-3000 closing 100-3000 | |
| 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 | | available |
| limit switches | | inductive |
| manual override | via 5/2 way pilot valve | |
| approvals | | WAZ |
| mounting | | mounting holes on valve body 2 x M8 |
| weight | kg PCS-1 1,8 PCS-2 2,1 | PCS-1 2,9 PCS-2 3,2 |
| additional equipment | | valve body |

electrical specifications

| | | |
|------------------------------|---|---|
| nominal voltage | U _n DC 24 V | options special voltage upon request |
| | U _n AC 230 V 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 | IP65 (P54) acc. DIN 40050 | |
| energized duty rating | ED 100% | |
| connection | plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm | |
| optional | M12x1 connector acc. DESINA | connector acc. VDMA |
| additional equipment | illuminated plug with varistor | |
| max. temperature | media 60°C | |
| | ambient 50°C | |
| explosion proof | E Ex e II T5 nominal voltage U _n | DC 24 V 3,25 W |
| | power consumption | AC 230 V 50 Hz 2,90 W |

pneumatic specifications

| | | |
|---------------------------------|---|----------------|
| actuation pressure range | bar 4-10 | options |
| air consumption | cm ³ /stroke PCS-1 14 PCS-2 36 | |
| cycle speed | main valve speed variable by throttles on pilot valve | |
| control | via 5/2 way pilot valve | |
| pilot valve interface | | |
| actuator ports | 2/4 G 1/8 | |

hydraulic specifications

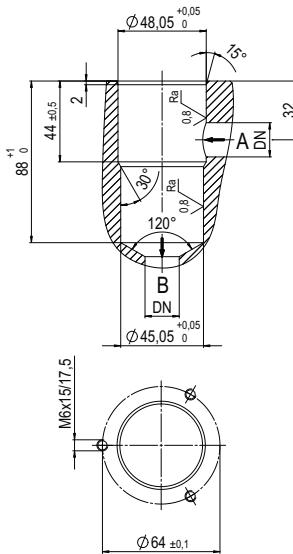
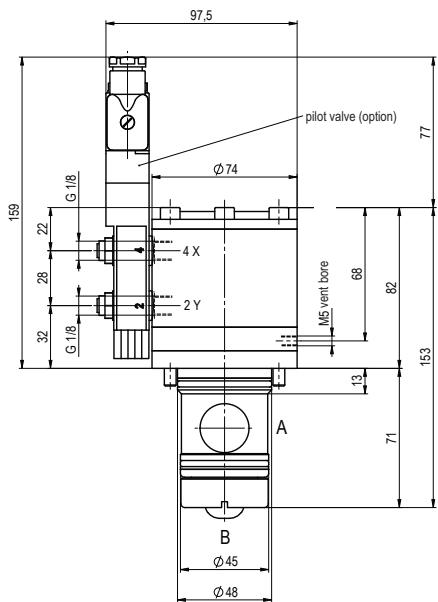
| | | |
|---------------------------------|----------------------------------|-------------------------------------|
| actuation pressure range | bar 10-30 | options >30 bar upon request |
| control | preferably 4/2 way control valve | |
| actuator ports | X/Y G 1/4 via adapter | NPT 1/4 via adapter |

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

type **PCS-1 15**

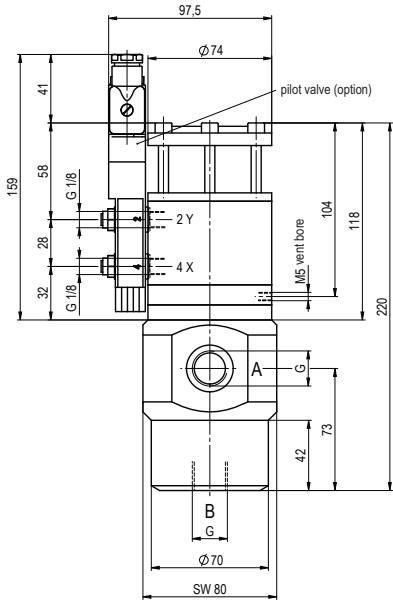
function: **NC**
closed when not energized

drilling design for cartridge



type **PCS-2 15**

function: **NO**
open when not energized



pressure-diagram

