

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
- 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

⚠ 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.

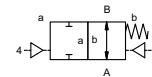
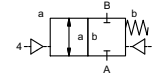
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

PN 0-100 bar
 DN 8 mm
 thread
 valve normally closed
 symbol **NC**
 valve normally open
 symbol **NO**



design

body materials

pressure balanced, with spring return

- ① brass
- ②
- ③
- ④
- ⑤
- ⑥

valve seat

seal materials

synthetic resin on metal

NBR, FPM, PTFE

ports

function
pressure range

general specifications

options

MCF threads G 3/8
 NC NO
 bar 0-100
 m³/h 1,6
 leak rate < 10⁻⁶ mbar•L•s⁻¹
 P₁ ⇌ P₂ pressure side max. 100 bar
 vacuum side leak rate upon request
 available (max. 16 bar)
 P₂ > P₁ emulsion - oil - neutral gases other medias upon request

back pressure
media

abrasive media
damping

opening by throttles on pilot valve
 closing as marked
 A ⇌ B
 1/min 600
 ms opening 30-3000
 closing 30-3000
 °C direct mounted pilot valve 60 > 60 °C upon request
 °C direct mounted pilot valve 50 > 50 °C upon request

flow direction
switching cycles
switching time

media temperature
ambient temperature

temperature range max 70°C

flush ports

leak ports

limit switches

manual override

approvals

mounting

weight

additional equipment

via pilot valve

mounting brackets

kg 1,3

nominal voltage

power consumption

protection
energized duty rating

connection

optional additional equipment

max. temperature

explosion proof

electrical specifications

options

U_n DC 24 V special voltage upon request
 U_n 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_n DC 24 V 3,25 W
 power consumption AC 230 V 50 Hz 2,90 W

actuation pressure range

air consumption

cycle speed

control

pilot valve interface

actuator ports

pneumatic specifications

options

bar 4-10 3-10 upon request
 cm³/stroke 4,5
 main valve speed variable by throttles on pilot valve
 preferably 5/2 way pilot valve
 co-ax NAMUR acc. VDI / VDE 3845
 2/4 G 1/8

hydraulic specifications

options

actuation pressure range

control

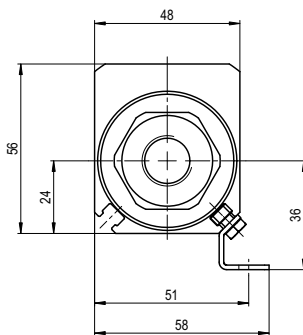
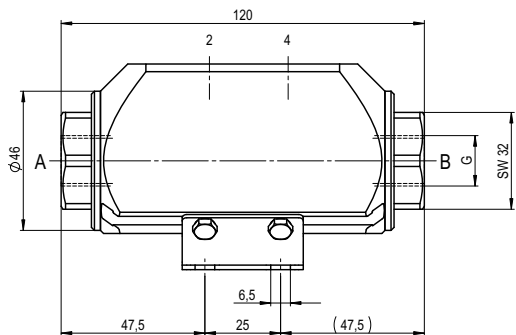
actuator ports

by media

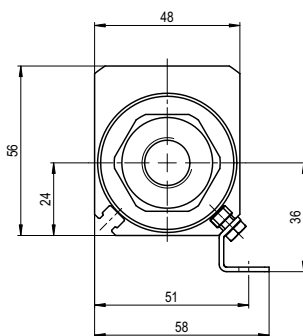
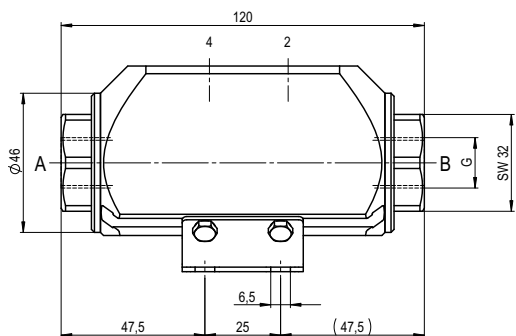
coax® data sheet - coaxial valve

type MCF 08

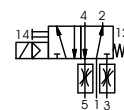
function: **NC**
closed when not energized



function: **NO**
open when not energized



pneumatic specifications



5/2 way pilot valve
flow rate 700 l/min
pressure range 3-10 bar G 1/8