

09/2022



⚠ 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

2/2-way valve

pressure range

orifice

connection

function

operating principle

body material

valve seat

seal materials

ports

function

pressure range

Kv value

vacuum

pressure-vacuum

back pressure

media

abrasive media

damping

flow direction

switching cycles

switching time

media temperature

ambient temperature

flush ports

leak ports

limit switches

manual override

approvals

mounting

weight

additional equipment

nominal voltage

power consumption

protection

energized duty rating

connection

optional

additional equipment

max. temperature

explosion proof

actuation pressure range

air consumption

cycle speed

control

pilot valve interface

actuator ports

actuation pressure range

control

actuator ports

by media

externally controlled

PN 0-100 bar

DN 8 mm

thread

valve

normally closed

symbol **NC**

valve

normally open

symbol **NO**

pressure balanced, with spring return

① brass

③

④

②

⑤

⑥

synthetic materials on metal

NBR, FPM, PTFE

general specifications

MCF threads G 3/8

bar 0-100

m³/h 1.6

leak rate

P₁ ⇄ P₂P₂ > P₁

emulsion - oil - neutral gases

opening

closing by throttles on pilot valve

A ⇄ B as marked

1/min 600

ms opening 30-3000

closing 30-3000

°C direct mounted pilot valve 60

°C direct mounted pilot valve 50

via pilot valve

kg 1.3

electrical specifications

U_n DC 24 VU_n AC 230 V 50 Hz

DC 4.8 W

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, 2 positions x180° / wire diameter 6-8 mm

M12x1 connector acc. DESINA

illuminated plug with varistor

media 60°C

ambient 50°C

E Ex e II T5

nominal voltage U_n

power consumption

DC 24 V 3.25 W

AC 230 V 50 Hz 2.90 W

pneumatic specifications

bar 4-8

cm³/stroke 4.5

main valve speed variable by throttles on pilot valve

preferably 5/2 way pilot valve

co-ax

2/4 G 1/8

hydraulic specifications

options

NO

< 10⁻⁶ mbar•l•s⁻¹

pressure side max. 100 bar

vacuum side leak rate upon request

available (max. 16 bar)

other medias upon request

temperature range max 70°C

mounting brackets

options

special voltage upon request

special voltage upon request

2.5 W (actuation pressure range 4-7 bar)

connector acc. VDMA

options

3-10 upon request

NAMUR acc. VDI / VDE 3845

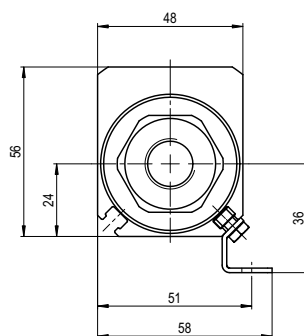
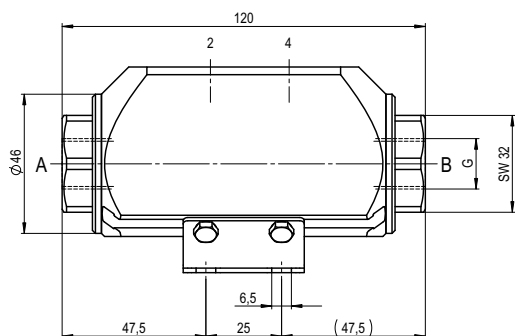
options

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

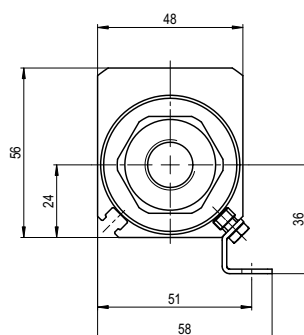
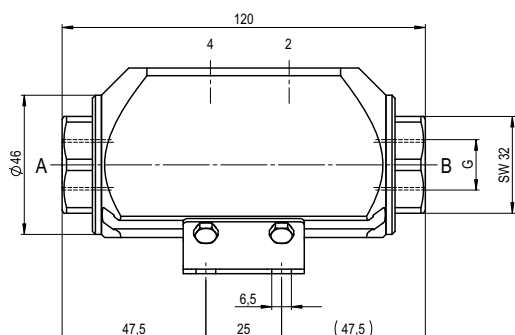
coax® data sheet - coaxial valve

type MCF 08

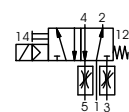
function: **NC**
closed when not energized



function: **NO**
open when not energized



pneumatic specifications



5/2 way pilot valve
flow rate 280 l/min
pressure range 3-10 bar G 1/8