

07/2024



⚠ 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.

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

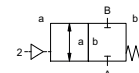
2/2-way valve

pressure range
orifice¹⁾
connection
function

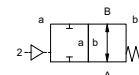
externally controlled

PN 0-25 [0-40] bar
 DN 10 / 15 / 20 / 25 mm
 thread

valve normally closed
 symbol **NC**



valve normally open
 symbol **NO**



operating principle

pressure balanced, with spring return

body material

- ① aluminium
- ②
- ③
- ④
- ⑤
- ⑥ stainless steel 1.4404

valve seat

synthetic materials on metal

seal materials

PTFE, FKM, EPDM, PU, H-Ecopur

ports

threads G 3/8 - G 1 1/4

function

NC

pressure range

bar 0-16 / 0-25

Kv value²⁾

see table

vacuum

leak rate < 10⁻⁴ mbar•l•s⁻¹

pressure-vacuum

P₁ ↔ P₂

back pressure

P₂ > P₁ available up to 25 bar
 gaseous - liquid

abrasive media

opening

closing by throttles on pilot valve

flow direction

bidirectional flow

switching cycles³⁾

see table

switching time⁴⁾

see table

media temperature

°C -20 to +120 °C (consider seal materials)

ambient temperature

°C -20 to +80 °C

flush ports

leak ports

limit switches

magnetic, cable 5/10m and ATEX optional

manual override

via pilot valve

approvals

mounting

mounting brackets

weight⁵⁾

see table

explosion proof

☉ II 2G Ex h IIC T-20°C...+120°C Gb ☉ II 2D Ex h IIC T-20°C...+120°C Db

nominal voltage

U_n DC 24 V

power consumption

U_n AC 230 V 50 Hz

protection

DC 4,8 W

energized duty rating

AC pick up 11.0 VA holding 8.5 VA

connection

IP65 (P54) acc. DIN 40050

optional

ED 100% plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm

additional equipment

M12x1 connector acc. DESINA connector acc. VDMA

max. temperature

illuminated plug with varistor

explosion proof

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

bar NC 3-8 NO 4-8

air consumption⁶⁾

see table

cycle speed

main valve speed variable by throttles on pilot valve

control

pneumatic actuation, 3/2-way pilot valve optional

pilot valve interface

G 1/8

actuator port

actuation pressure range

control

actuator ports

by media

electrical specifications

options

special voltage upon request
 special voltage upon request

pneumatic specifications

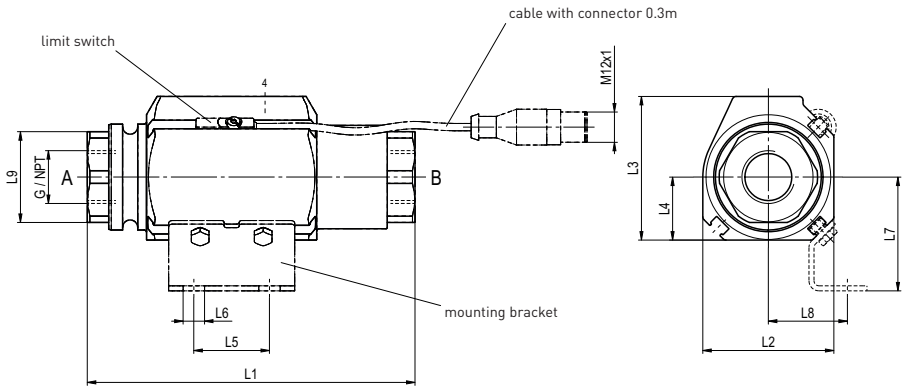
options

hydraulic specifications

coax® data sheet - coaxial valve

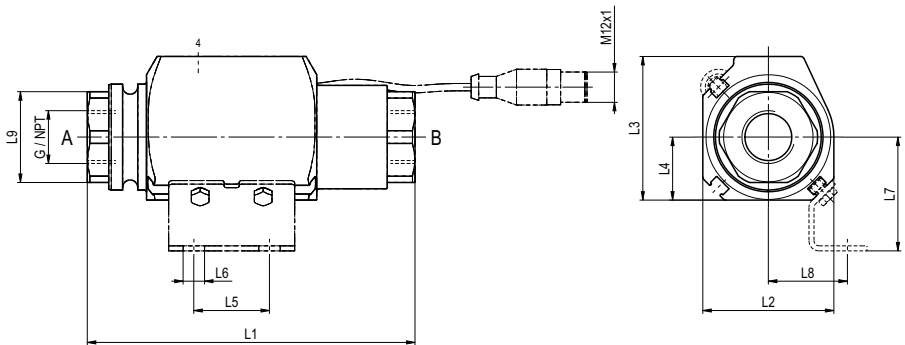
type FMX-2/3/4/5

function: **NC**
closed when not energized



type		FMX-2	FMX-3	FMX-4	FMX-5
¹ orifice		DN 10 mm	DN 15 mm	DN 20 mm	DN 25 mm
threads	inch	3/8 1/2	1/2 3/4	3/4 1	1 1 1/4
² Kv value	m ³ /h	3,7 4,3	8,5 10,5	15,4 17,0	23,7 24,6
³ switching cycles	1/min	660	550	410	380
⁴ switching time	ms opening	30	30	35	35
	ms closing	35	40	60	70
⁵ weight	kg	⊙ 0,4 ⊙ 0,6	⊙ 0,7 ⊙ 1	⊙ 0,9 ⊙ 1,5	⊙ 1,3 ⊙ 2,2
⁶ air consumption	cm ³ /Hub	2	4	8	11
constructive length	L1 mm [inch]	110 [4.33]	130 [5.12]	150 [5.91]	160 [6.30]
	L2 mm [inch]	42,5 [1.67]	52 [2.05]	60 [2.36]	66 [2.60]
	L3 mm [inch]	48 [1.89]	57 [2.24]	64 [2.52]	71 [2.80]
	L4 mm [inch]	20 [0.79]	25 [0.98]	28 [1.10]	33 [1.30]
	L5 mm [inch]	25 [0.98]	30 [1.18]	30 [1.18]	30 [1.18]
	L6 mm [inch]	6,5 [0.26]	8,5 [0.33]	8,5 [0.33]	8,5 [0.33]
	L7 mm [inch]	33 [1.30]	45 [1.77]	47 [1.85]	51 [2.01]
	L8 mm [inch]	24 [0.94]	31,5 [1.24]	33,5 [1.32]	37 [1.46]
	L9 mm [inch]	SW 27 [AF 1.06]	SW 36 [AF 1.42]	SW 41 [AF 1.61]	SW 50 [AF 1.97]

function: **NO**
open when not energized



pneumatic specifications

