



2x3/2-directional valve, Series CL03-EV

- 2x3/2

- Qn = 700 I/min

- Pilot valve width: 16 mm

- NC/NC

- Plate connection

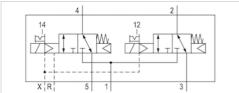
- Compressed air connection output : Ø 8 G 1/8

- Manual override : with detent

- Pilot : External

- suitable for use in food processing





Type Spool valve, positive overlapping Activation Electrically

Pilot External
Sealing principle Soft sealing

Blocking principle Single base plate principle
Certificates UR (Underwriters Laboratories)

Working pressure min./max. -0,9 ... 10 bar
Control pressure min./max. 2,5 ... 10 bar
Ambient temperature min./max. 0 ... 50 °C
Medium temperature min./max. 0 ... 50 °C

Medium

Max. particle size

Oil content of compressed air 0 ... 5 mg/m³
Nominal flow Qn 700 l/min

Pilot control exhaust

With collective pilot air exhaust

Protection class with connection

Protective circuit

Reverse polarity protection Protected against polarity reversal

Compressed air

IP65 IP67 IP69K

5 µm

Z-diode

LED status display

Duty cycle

Typ. switch-on time

Typ. switch-off time

25 ms

mounting screws

M5

Mounting screw tightening torque

Tightening torque tolerance

Yellow

100 %

16 ms

25 ms

M5

M5

Weight 0,165 kg



Technical data

Part No.	MO		Compressed air connection	Compressed air connection
			Input	Output
R412021814		NC/NC	Ø 8	Ø 8
R412021815		NC/NC	Ø 8	Ø 8
R412021816	<u> </u>	NC/NC	G 1/8	G 1/8

Part No.	Compressed air connection	Compressed air connection	
	Exhaust	Pilot Input	
R412021814	Ø 8	Ø 4	
R412021815	Ø 8	Ø 4	
R412021816	G 1/8	M5	

Part No.	Compressed air connection	Operational	Voltage tolerance
	Pilot Exhaust	voltage DC	DC
R412021814	Ø 4	24 V	-15% / +20%
R412021815	Ø 4	24 V	-15% / +20%
R412021816	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412021814	0,35 W	0,22	2,9 l/(s*bar)	Brass nickel-plated
R412021815	0,35 W	0,22	2,9 l/(s*bar)	Stainless steel
R412021816	0,35 W	0,22	2,9 l/(s*bar)	-

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

For series QR2 fittings, see "Pneumatic connection technologies".

The inner valve can be replaced by all series CL03 valves described under "Valve systems".

The pilot valve is UL (Underwriters Laboratories) certified.

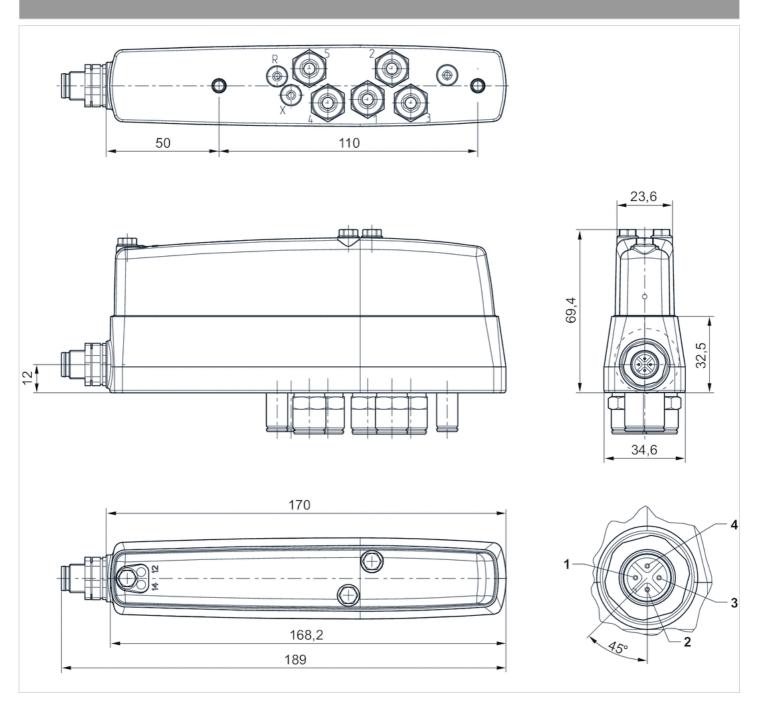
Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Hydrogenated acrylonitrile butadiene rubber
Threaded bushing	Brass, nickel-plated Stainless steel



Dimensions

Dimensions



Electrical connection:

- 1) Not connected
- 2) Solenoid 12
- 3) 0 V
- 4) Solenoid 14

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