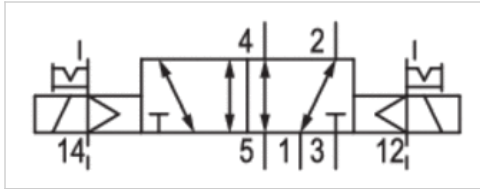


5/2-directional valve, Series CL03-EV

- 5/2
- $Q_n = 700 \text{ l/min}$
- Pilot valve width : 16 mm
- Plate connection
- Compressed air connection output : $\varnothing 8 \text{ G } 1/8$
- Manual override : with detent
- double solenoid
- 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.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	0 ... 5 mg/m ³
Nominal flow Q_n	700 l/min
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65 IP67 IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	13 ms
Typ. switch-off time	15 ms
mounting screws	M5
Mounting screw tightening torque	2 Nm
Tightening torque tolerance	$\pm 0,2 \text{ mT}$
Weight	0,165 kg

Technical data

Part No.	MO	Compressed air connection	
		Input	Output
R412017950		Ø 8	Ø 8
R412017951		Ø 8	Ø 8
R412017952		G 1/8	G 1/8

Part No.	Compressed air connection	
	Exhaust	Pilot Input
R412017950	Ø 8	Ø 4
R412017951	Ø 8	Ø 4
R412017952	G 1/8	M5

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
		Pilot Exhaust	DC
R412017950	Ø 4	24 V	-15% / +20%
R412017951	Ø 4	24 V	-15% / +20%
R412017952	M5	24 V	-15% / +20%

Part No.	Power consumption	Flow conductance	Flow conductance	push-in fitting
	DC	b	C-value	
R412017950	0,35 W	0,22	2,9 l/(s*bar)	Brass nickel-plated
R412017951	0,35 W	0,22	2,9 l/(s*bar)	Stainless steel
R412017952	0,35 W	0,22	2,9 l/(s*bar)	-

Nominal flow Q_n at 6 bar and Δp = 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".

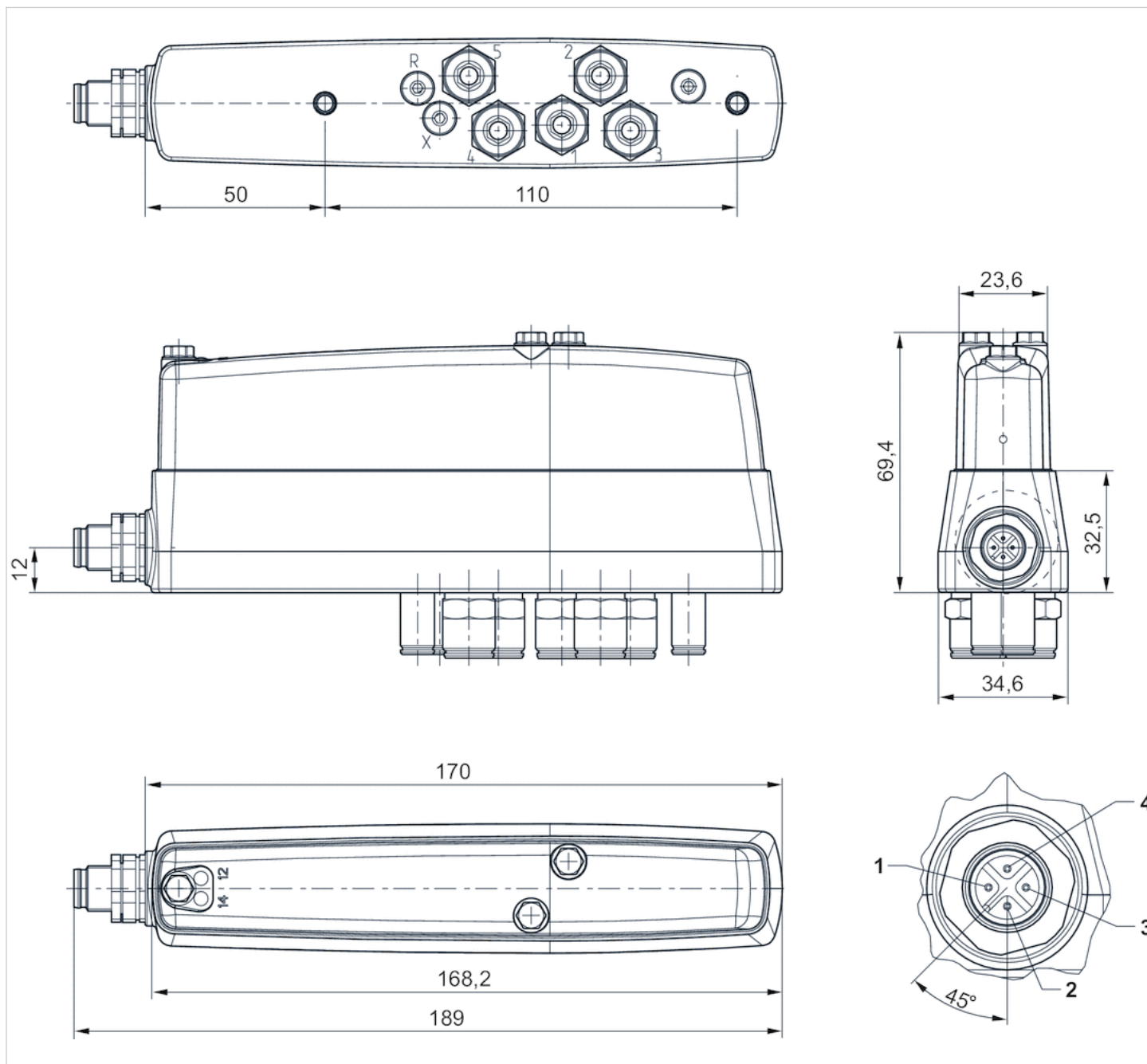
The pilot valve is UL (Underwriters Laboratories) certified.

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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