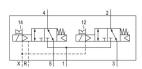
AVENTICS Series CL03-EV Directional valves

The AVENTICS Series CL03-EV spool valves are hygienically designed. They easily resist wet cleaning with aggressive cleaning detergents. The Series complies with protection class IP69K, is suitable for class NSF-H1 lubricants and designed for intensive application in the food and beverage industry.





Technical data Industry Activation Valve type Switching principle Valve function Sealing principle Connection type Manual override

Compressed air connection input Compressed air connection output Compressed air connection, exhaust Pilot control exhaust Compressed air connection pilot input Compressed air connection pilot exhaust

Nominal flow Qn Flow conductance b Flow conductance C Industrial Electrically Spool valve, positive overlapping 2x 3/2 NC/NC, with spring return NC/NC Soft seal Plate connection with detent

Ø 8 Ø 8 Ø 8 With collective pilot air exhaust Ø 4 Ø 4

700 l/min 0.22 2.9 l/(s*bar)



Min. working pressure	-0.9 bar
Max. working pressure	10 bar
Min. control pressure	2.5 bar
Max. control pressure	10 bar
Protection class with connection	IP65
	IP67
	IP69K
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-15% / +20%
Pilot	External
Pilot valve width	16 mm
LED status display	Yellow
Power consumption DC	0.35 W
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Duty cycle	100 %
Typ. switch-on time	16 ms
Typ. switch-off time	25 ms
Blocking principle	Single base plate principle
suitable for use in food processing	suitable for use in food processing
Certificates	UR (Underwriters Laboratories)
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Min. medium temperature	0 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Max. particle size	5 μm
	- F
Mounting screws	M5
Mounting screw tightening torque	2 Nm
Tightening torque tolerance	
	±0,2 mT
Weight	0.165 kg



R412021814

Material

Housing material Seal material Material threaded bushing Part No. Polyamide fiber-glass reinforced Hydrogenated acrylonitrile butadiene rubber Brass R412021814

Technical information

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.

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 less than ambient and medium temperature and may not exceed 3 °C.

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

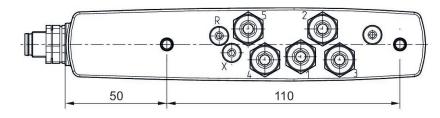
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

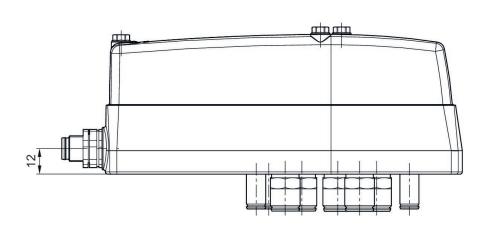


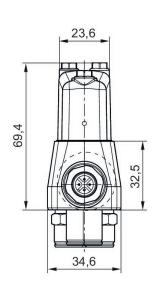
2x3/2-directional valve, Series CL03-EV

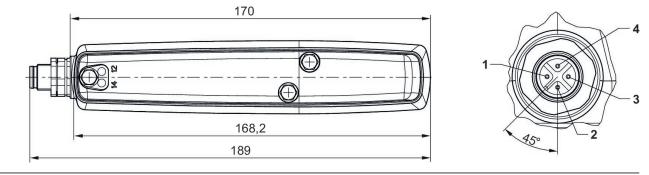
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Dimensions









Electrical connection: 1) Not connected 2) Solenoid 12 3) 0 V 4) Solenoid 14

