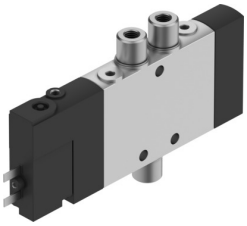
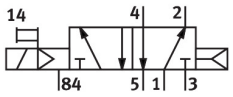
Air solenoid valve
CPE10-M1BH-5L-M5

Part number: 196881





General operating condition

Data sheet

Feature	Value
Valve function	5/2, monostable
Actuation type	Electrical
Width	10 mm
Standard nominal flow rate	180 l/min
Pneumatic working port	M5
Operating voltage	24V DC
Operating pressure	0.3 MPa ... 0.8 MPa
Operating pressure	3 bar ... 8 bar
Structural design	Piston gate valve
Reset method	Pneumatic spring
Certification	c UL us - Recognized (OL)
Maritime classification	See certificate
Certificate issuing authority	DNV-TAA000032X UL MH19482
Degree of protection	IP65 With plug socket as per IEC 60529
Nominal width	4 mm
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting via accessory Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	Internal
Flow direction	Non-reversible
Symbol	00991023
Valve position ID	Label holder
Lap	Overlap
Switching time off	20 ms
On switching time	16 ms
Duty cycle	100% in combination with holding current reduction
Max. positive test pulse with 0 signal	1200 µs
Max. negative test pulse on 1 signal	900 µs
Coil characteristics	24 V DC: 1.28 W
Permissible voltage fluctuations	-15 % / +10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]

Feature	Value
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C ... 50 °C
Ambient temperature	-5 °C ... 50 °C
Electrical connection	2-pin
Type of mounting	With through-hole
Pilot exhaust air port 82	M3
Pilot exhaust air port 84	M3
Pilot air port 12	M3
Pilot air port 14	M3
Pneumatic connection 1	M5
Pneumatic connection 2	M5
Pneumatic connection 3	M7
Pneumatic connection 4	M5
Pneumatic connection 5	M7
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum

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