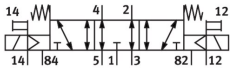
Air solenoid valve
CPE14-M1CH-5/3ES-1/8

Part number: 550244





General operating condition

Data sheet

Feature	Value
Valve function	5/3, exhausted
Actuation type	Electrical
Width	14 mm
Standard nominal flow rate	700 l/min
Pneumatic working port	G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Certification	c UL us - Recognized (OL)
Maritime classification	See certificate
Certificate issuing authority	DNV-TAA000032X UL MH19482
Degree of protection	IP65 IP67 With plug socket as per IEC 60529
Nominal width	6 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	External
Flow direction	Reversible
Symbol	00991032
Valve position ID	Label holder
Lap	Overlap
Pilot pressure MPa	0.3 MPa ... 0.8 MPa
Pilot pressure	3 bar ... 8 bar
Switching time off	42 ms
On switching time	20 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1200 µs
Max. negative test pulse on 1 signal	900 µs

Feature	Value
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]
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
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque plug	0.4 Nm
Product weight	120 g
Electrical connection	4-pin M8x1
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	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum