

# Basic valve CPE18-P1-3OLS-1/4

Part number: 550166

FESTO



[PDF](#) General operating condition

## Data sheet

Feature	Value
Valve function	3/2-way, single solenoid, open
Type of actuation	Via pilot interface to ISO 15218
Construction width	18 mm
Standard nominal flow rate (standardised to DIN 1343)	1700 l/min
pneumatic working port	G1/4
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Design	Piston gate valve
Type of reset	Pneumatic spring
Approval	c UL us - Recognised (Oil)
Maritime classification	See certificate
CE mark (see declaration of conformity)	To EU Low Voltage Directive
UKCA marking (see declaration of conformity)	To UK regulations for electrical equipment
Certificate issuing authority	DNV-TAA000032X UL MH19482
Nominal size	8 mm
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of piloting	Piloted
Pilot air supply	External
Flow direction	Non-reversible
Symbol	00991402
Valve position code	Label holder
lap	Overlap
Pilot pressure	0.25 MPa ... 1 MPa
Pilot pressure	2.5 bar ... 10 bar
Switching time off	30 ms
Switching time on	36 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	3300 µs
Max. negative test pulse with 1 signal	3100 µs
Permissible voltage fluctuations	-15% / +10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)

Feature	Value
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C ... 50 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C ... 50 °C
Product weight	110 g
Type of mounting	With through-hole
Pilot exhaust port 82	M5
Pilot air port 12	M5
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 2	G1/4
Pneumatic connection, port 3	G1/4
Note on materials	RoHS compliant
Material seals	NBR
Material housing	Die-cast aluminium