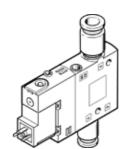
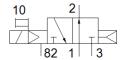
solenoid valve CPE18-M1H-3OL-QS-10

Part number: 163156 Classic - do not use for new projects

High component density

Modern alternatives can be found by entering the first four characters of the type code in the search field.





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Data sheet

Valve function 3/2 open, monostable Type of actuation electrical Type of pressure 1,000 l/min Design structure Piston slide Type of reset Air spring Authorisation 5 open Authorisation 6 open Authorisation 6 open Authorisation 7 open Authorisation 7 open Authorisation 8 open Authorisation 9 open Au	Feature	Value
Width Standard nominal flow rate 1,000 I/min Operating pressure MPa 0,25 1 MPa Operating pressure Pesign structure Piston slide Type of reset Authorisation Protection class Pesign structure Protection class Positive step by solition Any Manual override Pushing Piloted Pilot air supply Internal Pilot dir supply Internal Pilot dir supply Internal Pilot dir supply Internal Prositive overlap Switching time on Duty cycle Max, positive test pulse with logic 0 Max, positive test pulse glucutation Operating medium Comperating ever in pulse and End Supplication Understance Persistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC Puls Conformity VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L VDMA24364-B1/B2-L	Valve function	3/2 open, monostable
Standard nominal flow rate 1,000 l/min Operating pressure MPa 0,25 1 MPa Operating pressure 2,5 10 bar Design structure Piston slide Type of reset Alr spring Authorisation C UL us - Recognized (OU) Maritime classification Protection class With plug socket to IEC 60529 Nominal size Sealing principle Soft Assembly position Any Manual override With accessories, detenting Pushing Type of piloting Piloted Piloted Pilot air supply Internal Flow direction Inscription label holder Valve position identification Overlap Positive overlap Switching time off Switching time off Switching time off Max. negative test pulse with logic 0 Max. negative test pulse with logic 0 Max. negative test pulse with logic 1 Operating medium Compressed air in accordance with IS08573-1:2010 [7:4:4] Note on operating and pilot medium Uprized to Shock resistance Shock sets with severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Shock resistance Shock resistance Shock resistance classification CRC Shock remembers a compressed shores. Shock remembers are severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Shock remembers are severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Shock remembers are severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Shock on formity VDMA24364-B1/B2-L	Type of actuation	electrical
Operating pressure MPa 0.25 1 MPa Operating pressure 2.5 1 Obar Design structure Piston slide Type of reset Air spring Authorisation c. UL. us. *Recognized (OL) Maritime classification see certificate Protection class IP65 with plug socket to IEC 60529 Nominal size 8 mm Sealing principle soft Assembly position Any Manual override with accessories, detenting Pushing Piloted Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % <t< td=""><td>Width</td><td>18 mm</td></t<>	Width	18 mm
Operating pressure 2.5 10 bar Design structure Piston slide Type of reset Air spring Authorisation c UL us - Recognized (OL) Maritime classification see certificate Protection class IP65 with plug socket to IEC 60529 Nominal size 8 mm Sealing principle soft Assembly position Any Manual override with accessories, detenting Pushing Pushing Type of piloting Piloted Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. positive test pulse with logic 1 3,100 µs Characteristic coil data 24 V Dc: 1.5 W Permissible voltage fluctuation -15 % /+10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further o	Standard nominal flow rate	1,000 l/min
Design structure Type of reset Air spring Type of piloting Type of piloting Type of piloting Type of piloting Tilow position Aure position identification Towership Tower board and an area of the many source of the many sou	Operating pressure MPa	0.25 1 MPa
Type of reset Authorisation C U U.s - Recognized (OL) Maritime classification See certificate Protection class IP65 with plug socket to IEC 60529 Nominal size Sealing principle Soft Assembly position Manual override With accessories, detenting Pushing Type of piloting Piloted Pilot air supply Internal Flow direction Inscription label holder Overlap Switching time off Switching time on Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Upilots or conformity VDMA24364-B1/B2-L Welful or CC VDMA24364-B1/B2-L W	Operating pressure	2.5 10 bar
Authorisation c UL us - Recognized (OL) Maritime classification see certificate Protection class P65	Design structure	Piston slide
Maritime classification see certificate Protection class IP65 with plug socket to IEC 60529 Nominal size 8 mm Sealing principle soft Assembly position Any Manual override with accessories, detenting Pushing Pushing Piloted Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 μs Max. negative test pulse with logic 1 3,100 μs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance <t< td=""><td>Type of reset</td><td>Air spring</td></t<>	Type of reset	Air spring
Protection class P65 with plug socket to IEC 60529	Authorisation	c UL us - Recognized (OL)
with plug socket to IEC 60529 Nominal size Sealing principle Soft Assembly position Any Manual override Pushing Type of piloting Piloted Pilot air supply Positive overlap Positive overlap Switching time off Positive overlap Positive overlap Switching time off Positive overlap Switching time off Positive overlap Posit	Maritime classification	see certificate
to IEC €0529 Nominal size 8 mm Sealing principle Assembly position Any Manual override With accessories, detenting Pushing Type of piloting Pilot air supply Internal Flow direction Non reversible Valve position identification Inscription label holder Overlap Switching time off 18 ms Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. negative test pulse with logic 0 3,300 μs Max. negative test pulse with logic 1 3,100 μs Characteristic coil data 24 ∨ DC: 1.5 W Permissible voltage fluctuation Operating medium Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress Possition VDMA24364-B1/B2-L Medium temperature -5 50 °C	Protection class	IP65
Nominal size 8 mm Sealing principle 5 soft Assembly position Any Manual override with accessories, detenting Pushing Type of piloting Piloted Pilot air supply Piloted Pilot air supply Internal Flow direction Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time off 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Permissible voltage fluctuation 24 V DC: 1.5 W Permissible voltage fluctuation 2-15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance 12 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 5-5 50 °C		with plug socket
Sealing principle soft Assembly position Any Manual override with accessories, detenting Pushing Type of piloting Piloted Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L </td <td></td> <td>to IEC 60529</td>		to IEC 60529
Assembly position Manual override with accessories, detenting Pushing Type of piloting Piloted Pilot air supply Internal Flow direction Valve position identification Overlap Switching time off Switching time on Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Characteristic coil data Permissible voltage fluctuation Operating medium Note on operating and pilot medium Vibration resistance Shock resistance Shock resistance classification CRC PWIS conformity Medium temperature Piloted with accessories, detenting with accessories, detenting Pushing Piloted Internal Internal Internal Piloted Internal Positive overlap Sams Sams Positive overlap Sams Sams Duty cycle 100 % Ass. positive overlap Sams Sums Sums Sums Sums Compssible (subsequentity required for further operation) Vibration resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress VDMA24364-B1/B2-L Medium temperature -5 50 °C	Nominal size	8 mm
Assembly position Manual override with accessories, detenting Pushing Type of piloting Piloted Pilot air supply Internal Flow direction Valve position identification Overlap Switching time off Switching time on Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Characteristic coil data Permissible voltage fluctuation Operating medium Note on operating and pilot medium Vibration resistance Shock resistance Shock resistance classification CRC PWIS conformity Medium temperature Piloted with accessories, detenting with accessories, detenting Pushing Piloted Internal Internal Internal Piloted Internal Positive overlap Sams Sams Positive overlap Sams Sams Duty cycle 100 % Ass. positive overlap Sams Sums Sums Sums Sums Compssible (subsequentity required for further operation) Vibration resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress VDMA24364-B1/B2-L Medium temperature -5 50 °C	Sealing principle	soft
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Pilot air supply Internal Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C	Type of piloting	-
Flow direction non reversible Valve position identification Inscription label holder Overlap Positive overlap Switching time off 18 ms Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock sets with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C		Internal
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Switching time off Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 Characteristic coil data Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Uuricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature	Valve position identification	Inscription label holder
Switching time on 28 ms Duty cycle 100 % Max. positive test pulse with logic 0 3,300 µs Max. negative test pulse with logic 1 3,100 µs Characteristic coil data 24 V DC: 1.5 W Permissible voltage fluctuation -15 % / +10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C	Overlap	Positive overlap
Duty cycle100 %Max. positive test pulse with logic 03,300 μsMax. negative test pulse with logic 13,100 μsCharacteristic coil data24 V DC: 1.5 WPermissible voltage fluctuation-15 % / +10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-LMedium temperature-5 50 °C	Switching time off	18 ms
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operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C		Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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60068-2-27 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C	Vibration resistance	
PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C	Shock resistance	
PWIS conformity VDMA24364-B1/B2-L Medium temperature -5 50 °C	Corrosion resistance classification CRC	
Medium temperature -5 50 °C		
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Prinible it temperature		
Electrical connection Plug pattern type C to EN 175301-803	•	

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Feature	Value
Mounting type	with through hole
Pilot exhaust port 82	M5
Pilot air port 12	M5
Pneumatic connection, port 1	QS-10
Pneumatic connection, port 2	QS-10
Pneumatic connection, port 3	G1/4
Materials note	Conforms to RoHS
Material seals	NBR
Material housing	Aluminium die cast