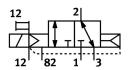
Air solenoid valve VUVS-L20-M32C-AZD-G18-F7

FESTO

Part number: 575257





General operating condition

Data sheet

Actuation type Actuation type Standard nominal flow rate 700 l/min Preumatic working port Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Piston gate valve Reset method Preumatic spring Certification Cult. us - Recognized (OL) Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled External Flow direction Reversible Symbol Oo991406 Lap Overlap Pilot pressure Detanding Overlap Pilot pressure Detanding Overlap Overlap Overlap Overlap Overlap On switching time off On switching time off On switching time off On switching time Max. positive test pulse with O signal Max. positive test pulse with O signal Max. positive test pulse with O signal Max. poperating medium Operating medium Operating medium Operating medium Operation with oil lubrication possible (required for further use) Vibration resistance Fransport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Ornosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Shock kest with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance	Feature	Value
Valve size Standard nominal flow rate Freeumatic working port Operating pressure Out us - Recognized (OL) Nominal width S.7 mm Exhaust air function With flow control option Sealing principle Soft Any Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol Operating Operating Overlap Pilot pressure MPa Ozs MPa 1 MPa Pilot pressure MPa Ozs MPa 1 MPa Pilot pressure Ozs MPa 1 MPa Ozs MPa 1 MPa Pilot pressure Ozs MPa 1 MPa Pilot pressure Ozs MPa 1 MPa Pilot pressure Ozs MPa 1 MPa Ozs MPa	Valve function	3/2, closed, monostable
Standard nominal flow rate 700 l/min Pneumatic working port G1/8 Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar Structural design Priston gate valve Reset method Pneumatic spring Certification cUL us - Recognized (OL) Nominal width 5.7 mm Nominal width 5.7 mm Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Non-detenting Pilot air supply port External Flow direction Reversible Symbol 00991406 Lap 00verlap Pilot pressure MPa 0.25 MPa 1 MPa Detenting Non-detenting Flow principle 0.25 MPa 1 MPa Detenting Non-detenting Type of control Pilot-controlled External Flow direction Reversible Symbol 0.0991406 Lap 0.091406 Lap 0.091406 Lap 0.091406 Lap 0.091406 Lap 0.091406 Lap 0.25 MPa 1 MPa Pilot pressure MPa 0.25 MPa 1 MPa Detenting Non-detenting Detenting time off 0.21 ms Don switching time off 0.4 ms Don switching time off 0.5 ms per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media 0 peration with oil lubrication possible (required for further use) Vibration resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Corrosion stress	Actuation type	Electrical
Pneumatic working port Operating pressure operating and pilot media Operation under operating and pilot media Operation under operating operating operating operating operating series of Corrosion resistance Operation resistance Shock resistance Shock resistance Operation series pusses or Las pressure pressure pressure operating operating series of Corrosion resistance Operation on operating	Valve size	21 mm
Operating pressure Operating pressure Operating pressure -0.9 MPa 1 MPa Operating pressure Piston gate valve Reset method Pneumatic spring Certification c UL us - Recognized (OL) Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Operating MPa Overlap Overlap Overlap Dilot pressure MPa Dilot pressure MPa D-35 D-45 D-50 D-50 D-50 D-50 D-50 D-50 D-50 D-5	Standard nominal flow rate	700 l/min
Operating pressure Operating past valve Proceeding (OL) Nominal width S.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Operating Non-detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Operating Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure Oyalue Oyalyobar Ovalue Oyalyobar Switching time off On switching time off On switching time 14 ms Max. positive test pulse with 0 signal Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance Shock resistance O - Moderate corrosion stress	Pneumatic working port	G1/8
Structural design Piston gate valve Reset method Pneumatic spring Certification c U U s - Recognized (OU) Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 00991406 Luap Overlap Pilot pressure MPa Dilot pressure MPa D-value 0.25 MPa 1 MPa D-value 0.35 C Value 2.9 l/sbar Switching time off 21 ms Any Max. positive test pulse with 0 signal 1900 µs Max. negative test pulse with 0 signal 2700 µs Operating medium Compressione Pilot 23 per FN 942017-5 and EN 60068-2-27 Corrosion resistance Class (CRC) Shock resistance Cases (CRC)	Operating pressure	-0.09 MPa 1 MPa
Reset method Certification c UL us - Recognized (OL) Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot group of control Reversible Symbol 00991406 Lap 00verlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 I/sbar Switching time off 21 ms Max. positive test pulse with 0 signal 1900 µs Max. negative test pulse with 0 signal 2700 µs Operating medium Compressed ir as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil ulbrication possible (required for further use) Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion 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	Operating pressure	-0.9 bar 10 bar
certification c UL us - Recognized (OL) Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot symbol Reversible Symbol O0991406 Lap O0991406 Lap O0991406 Lap O091406 Lap O091406 Lap U15 pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms Max. positive test pulse with 0 signal 1900 µs Max. negative test pulse with 0 signal 2700 µs Operating medium Compressed ir 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 Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Class (CRC) 2 - Moderate corrosion stress	Structural design	Piston gate valve
Nominal width 5.7 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 09991406 Lap Overlap 0.25 MPa 1 MPa Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure Devalue 2.59 (ySbar 10 bar	Reset method	Pneumatic spring
Exhaust air function Sealing principle Soft Mounting position Manual override Detenting Non-detenting Non-detenting Pilot-controlled Pilot-controlled External Flow direction Reversible Symbol Lap Overlap Overlap Pilot pressure MPa Detailune Detailu	Certification	c UL us - Recognized (OL)
Sealing principle Mounting position Any Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Symbol Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Operating medium Information on operating and pilot media Vibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC)	Nominal width	5.7 mm
Mounting position Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Symbol Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Operating medium Information on operating and pilot media Vibration resistance Shock resistance Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Cass (CRC) Pilot-controlled Pilot-con	Exhaust air function	With flow control option
Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 00991406 Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure be value 0.35 C value 2.9 I/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal 1900 μs Max. negative test pulse on 1 signal 2700 μs 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	Sealing principle	Soft
Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Oop91406 Lap Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure b-value O.35 C value 2.9 I/sbar Switching time off 21 ms On switching time Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled External Filot-controlled Filot-controlled External Filot-controlled Filot-controlled External Filot-controlled Filot F	Mounting position	Any
Pilot air supply port External Flow direction Reversible Symbol 00991406 Lap Overlap Pilot pressure MPa 0.25 MPa 1 MPa Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal 1900 μs Max. negative test pulse on 1 signal 2700 μs 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 60068-2-26 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	Manual override	
Reversible Symbol Lap Overlap Overlap Pilot pressure MPa 0.25 MPa 1 MPa 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion 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	Type of control	Pilot-controlled
Symbol00991406LapOverlapPilot pressure MPa0.25 MPa 1 MPaPilot pressure2.5 bar 10 barb-value0.35C value2.9 l/sbarSwitching time off21 msOn switching time14 msMax. positive test pulse with 0 signal1900 μsMax. negative test pulse on 1 signal2700 μsOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27Corrosion resistance class (CRC)2 - Moderate corrosion stress	Pilot air supply port	External
Overlap Pilot pressure MPa O.25 MPa 1 MPa Pilot pressure O.35 C value O.35 Switching time off On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 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) Wibration resistance Transport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) 2 - Moderate corrosion stress	Flow direction	Reversible
Pilot pressure MPa 0.25 MPa 1 MPa 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media 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	Symbol	00991406
Pilot pressure 2.5 bar 10 bar b-value 0.35 C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal 1900 μs Max. negative test pulse on 1 signal 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	Lap	Overlap
Devalue Covalue 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 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	Pilot pressure MPa	0.25 MPa 1 MPa
C value 2.9 l/sbar Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 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	Pilot pressure	2.5 bar 10 bar
Switching time off 21 ms On switching time 14 ms Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 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	b-value	0.35
On switching time14 msMax. positive test pulse with 0 signal1900 μsMax. negative test pulse on 1 signal2700 μsOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27Corrosion resistance class (CRC)2 - Moderate corrosion stress	C value	2.9 l/sbar
Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 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	Switching time off	21 ms
Max. negative test pulse on 1 signal 2700 μs 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	On switching time	14 ms
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	Max. positive test pulse with 0 signal	1900 μs
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	Max. negative test pulse on 1 signal	2700 μs
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	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
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	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC) 2 - Moderate corrosion stress	Vibration resistance	
	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity VDMA24364-B1/B2-L	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
	LABS (PWIS) conformity	VDMA24364-B1/B2-L

Feature	Value
Temperature of medium	-10 °C 60 °C
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C 60 °C
Product weight	138 g
Type of mounting	Optionally: On terminal strip With through-hole
Venting hole connection	Not ducted
Pilot exhaust air port 82	M5
Pilot air port 12	M5
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum Painted
Piston slide material	Wrought aluminum alloy
Material of screws	Steel, galvanized