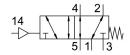
Pneumatic valve VUWS-L20-M52-M-N18

FESTO

Part number: 575705





Data sheet

Actuation type Actuation type Sandard nominal flow rate 700 l/min Pheumatic 700 l/min Pheumatic working port 1/8 NPT Operating pressure 0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification C UL us - Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function Sealing principle Soft Mounting position Manual override None Type of control Pilot air supply port Internal Flow direction Symbol 00991029 Lap 10 overlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time 7 ms Explosion prevention and protection Operation generating and pilot media Vibration resistance Shock tests with severity level 2 as per FN 942017-4 and EN 60068-2-7 Corrosion resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-7 Corrosion resistance of medium - 1.0° C 60° C Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Generating flow of medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Feature	Value
Valve size 21 mm Standard nominal flow rate 700 l/min Pneumatic working port 1/8 NPT Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification c U.U. us. Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Fliot direction Reversible Symbol 00991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time off 39 ms On switching time Explosion prevention and protection Operating media Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Shock resistance Shock resistance Flow Corrosion resistance class (CRC) Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Compressed air as per ISO 8573-1:2010 [7:4:4] Flow Compressed air as per ISO 8573-1:2010 [7:4:4] Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Valve function	5/2, monostable
Standard nominal flow rate 700 l/min Pneumatic working port 1/8 NPT Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification c UL us - Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Pilot air supply port Internal Flow direction Reversible Symbol 00991029 Lap 00verlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time off 39 ms On switching time Explosion prevention and protection Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation set inserting level 2 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock compressed air as per ISO 8573-1:2010 [7:4:4] Information on the set in several per FN 942017-5 and EN 60068-2-27 Corrosion resistance Cass (CRC) -0 over Compressed air as per ISO 8573-1:2010 [7:4:4] Information on stress case (CRC) -0 over Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating set in severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance Cass (CRC) -0 over Compressed air as per ISO 8573-1:2010 [7:4:4]	Actuation type	Pneumatic
Pneumatic working prot 1/8 NPT Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification cU u. s. Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol 00991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Selection Frush Selection Selection Selection with severity level 2 as per FN 942017-4 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 Case (CRC) Fine Compressed air as per ISO 8573-1:2010 [7:4:4] File of Compressed air as per ISO 8573-1:2010 [7:4:4] File of Compressed air as per ISO 8573-1:2010 [7:4:4] File of Compressed air as per ISO 8573-1:2010 [7:4:4] File of Compressed air as per ISO 8573-1:2010 [7:4:4]	Valve size	21 mm
Operating pressure Operating pressure Operating pressure Piston gate valve Reset method Mechanical spring CUL us - Recognized (OL) Nominal width S.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol Operating time off On switching time Explosion prevention and protection Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Flow compressed air as per ISO 8573-1:2010 [7:4:4] Operature of medium Ino Compressed air as per ISO 8573-1:2010 [7:4:4] Compressed air as per ISO 8573-1:2010 [7:4:4] Information ef medium Ino Compressed air as per ISO 8573-1:2010 [7:4:4] Compressed air as per ISO 8573-1:2010 [7:4:4]	Standard nominal flow rate	700 l/min
Structural design Piston gate valve Reset method Mechanical spring Certification CUL us - Recognized (OL) Nominal width 5.7 mm Type code Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol 00991029 Lap 00991029 Lap 00991029 Lap 00991029 Lap 07 Overlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time off 39 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone	Pneumatic working port	1/8 NPT
Reset method Mechanical spring Certification CUL us - Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Switching time off On switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 22 (ATEX) Zone 25 (ATEX) Zone 25 (ATEX) Zone 25 (ATEX) Zone 26 (ATEX) Zone 27 (ATEX) Zone 27 (ATEX) Zone 27 (ATEX) Zone 28 (ATEX) Zone 29 (ATEX) Zone 29 (ATEX) Zone 20 (ATE	Operating pressure	-0.9 bar 10 bar
certification c UL us - Recognized (OL) Nominal width 5.7 mm Type code VUWS Exhaust air function Sealing principle Soft Mounting position Any Manual override None Type of control Pilot air supply port Internal Flow direction Reversible Symbol Oo991029 Clap Pilot pressure 2.5 bar 10 bar Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 2 (ATEX) Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance Shock resistance Corrosion resistance class (CRC) Temperature of medium Compressed air as per ISO 8573-1:2010 [7:4:4] To C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Structural design	Piston gate valve
Nominal width 5.7 mm Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Pilot air supply port Internal Flow direction Reversible Symbol Ooyalog Overlap Pilot pressure Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with severity level 2 as per FN 942017-5 and EN 60068-2-6 Corrosion resistance Shock resistance Corrosion resistance class (CRC) 2 - Moderate corrosion stress Temperature of medium 1-0 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4] Compressed air as per ISO 8573-1:2010 [7:4:4]	Reset method	Mechanical spring
Type code VUWS Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol 00991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off 39 ms On switching time 7 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Certification	c UL us - Recognized (OL)
Exhaust air function Sealing principle Soft Mounting position Any Manual override None Type of control Pilot air supply port Internal Flow direction Reversible Symbol Joepan Overlap Pilot pressure Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 22 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 25 (ATEX) Zone 26 (ATEX) Zone 27 (ATEX) Zone	Nominal width	5.7 mm
Sealing principle Mounting position Any Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol Ooy91029 Lap Overlap Pilot pressure Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Cone 21 (ATEX) Tone 22 (ATEX) Cone 22 (ATEX) Operating medium Operating medium Operation with oil lubrication possible (required for further use) Vibration resistance 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 Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4] Compressed air as per ISO 8573-1:2010 [7:4:4]	Type code	VUWS
Mounting position Manual override None Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol O0991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time Type of (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) 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 Corrosion resistance class (CRC) Temperature of medium Operation wellow served as per ISO 8573-1:2010 [7:4:4] Compressed air as per ISO 8573-1:2010 [7:4:4]	Exhaust air function	With flow control option
Manual override Type of control Direct Pilot air supply port Internal Flow direction Reversible Symbol O0991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time Explosion prevention and protection Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Shock resistance Corrosion resistance class (CRC) Flot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Sealing principle	Soft
Direct Pilot air supply port Internal Flow direction Reversible Symbol O0991029 Lap Overlap Pilot pressure Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) 2 - Moderate corrosion stress Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Pilot air supply port Internal Reversible Symbol 00991029 Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Manual override	None
Flow direction Reversible Symbol Oog91029 Uerlap Overlap Pilot pressure Switching time off On switching time 7 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 25 (ATEX) Cone 25 (ATEX) Cone 26 (ATEX) Cone 26 (ATEX) Cone 27 (ATEX) Cone 27 (ATEX) Cone 28 (ATEX) Cone 29 (ATEX) Cone 29 (ATEX) Cone 20 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 21 (ATEX) Cone 21 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 21 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 23 (ATEX) Cone 24 (ATEX) Cone 25 (ATEX) Cone 26 (ATEX)	Type of control	Direct
Symbol Lap Overlap Pilot pressure 2.5 bar 10 bar Switching time off On switching time 7 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Poperating 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot air supply port	Internal
Overlap 2.5 bar 10 bar Switching time off On switching time 7 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Flow direction	Reversible
Pilot pressure 2.5 bar 10 bar 39 ms On switching time off Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991029
Switching time off On switching time 7 ms Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 2(ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Lap	Overlap
On switching time Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot pressure	2.5 bar 10 bar
Explosion prevention and protection Observe the information on the certificate Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	39 ms
Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	7 ms
Information on operating and pilot media Operation with oil lubrication possible (required for further use) 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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX)
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 Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	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 Temperature of medium -10 °C 60 °C Pilot 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)
Corrosion resistance class (CRC) 2 - Moderate corrosion stress Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Vibration resistance	
Temperature of medium -10 °C 60 °C Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Pilot medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
The second secon	Temperature of medium	-10 °C 60 °C
Ambient temperature -10 °C 60 °C	Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
	Ambient temperature	-10 °C 60 °C

Feature	Value
Product weight	178 g
Type of mounting	Optionally: On terminal strip With through-hole
Venting hole connection	Not ducted
Pneumatic connection 1	1/8 NPT
Pneumatic connection 2	1/8 NPT
Pneumatic connection 3	1/8 NPT
Pneumatic connection 4	1/8 NPT
Pneumatic connection 5	1/8 NPT
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