## Pneumatic valve VUWS-L20-B52-N18

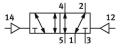
Part number: 575707



## **Data sheet**

Type of actuation       Pneumatic         Valve size       21 mm         Standard nominal flow rate (standardised to DIN 1343)       700 l/min         pneumatic working port       1/8 NPT         Operating pressure       0.15 MPa1 MPa         1.5 bar10 bar       1.5 bar10 bar         Design       Piston gate valve         Approval       c UL us - Recognized (OL)         Nominal size       5.7 mm         Exhaust-air function       With flow control option         Sealing principle       Soft         Mounting position       optional         Manual override       None         Type of piloting       Direct         Pilot gressure       0.15 MPa1 MPa         1.5 bar10 bar       Soft         Switching time reversal       6 ms         Explosion protection       The information in the certificate must be observed!         Sone 21 (ATEX)       Zone 21 (ATEX)         Zone 21 (ATEX)       Zone 21 (ATEX)         Zone 22 (ATEX)       Zone 22 (ATEX)         Operating medium       Cubricated operation possible (in which case lubricated operation will always be required)         Vibratin resistance       Shock test with severity level 2 t	Feature	Value
Valve size     21 mm       Standard nominal flow rate (standardised to DIN 1343)     700 l/min       pneumatic working port     1/8 NPT       Operating pressure     0.15 MPa1 MPa       1.5 bar10 bar     10 bar       Design     Piston gate valve       Approval     c UL us - Recognized (OL)       Nominal size     5.7 mm       Exhaust-air function     With flow control option       Sealing principle     Soft       Mounting position     optional       Maual override     None       Type of piloting     Direct       Pilot air supply     Internal       Flow direction     Reversible       lap     Overlap       Pilot pressure     0.15 MPa1 MPa       1.5 bar10 bar     Some       Switching time reversal     6 ms       Explosion protection     The information in the certificate must be observed!       Zone 21 (ATEX)     Zone 22 (ATEX)       Zone 22 (ATEX)     <	Valve function	5/2 double solenoid
Standard nominal flow rate (standardised to DIN 1343)       700 l/min         pneumatic working port       1/8 NPT         Operating pressure       0.15 MPa1 MPa 1.5 bar10 bar         Design       Piston gate valve         Approval       c UL us - Recognized (OL)         Nominal size       5.7 mm         Exhaust-air function       With flow control option         Sealing principle       Soft         Mounting position       optional         Manual override       None         Type of piloting       Direct         Pilot air supply       Internal         Flow direction       Reversible         lap       Overlap         Pilot pressure       0.15 MPa1 MPa 1.5 bar10 bar         Switching time reversal       6 ms         Explosion protection       Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX)         Operating medium       Compressed air to IS0 8573-1:2010 [7:4:4]         Note on operating and pilot medium       Lubricated operation possible (in which case lubricated operation will always be required)         Vibration resistance       Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27         Corrosion resistance class CRC       Shock test with severity level 2 to	Type of actuation	Pneumatic
neumatic working port     1/8 NPT       Operating pressure     0.15 MPa1 MPa       1.5 bar10 bar     Design       Approval     CUL us - Recognized (OL)       Nominal size     5.7 mm       Exhaust-air function     With flow control option       Sealing principle     Soft       Mounting position     optional       Manual override     None       Type of piloting     Direct       Pilot air supply     Internal       Flow direction     Reversible       lap     Overlap       Operating the reversal     6 ms       Explosion protection     The information in the certificate must be observed!       Zone 1 (ATEX)     Zone 2 (ATEX)       Zone 2 (ATEX)     Zone 2 (ATEX)       Operating and pilot medium     Lubricated operation possible (in which case lubricated operation will always be required)       Vibration resistance     Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27       Corrosion resistance class CRC     2 - Moderate corrosion stress	Valve size	21 mm
Operating pressure     0.15 MPa1 MPa       Design     Piston gate valve       Approval     CUL us - Recognized (OL)       Nominal size     5.7 mm       Exhaust-air function     With flow control option       Sealing principle     Soft       Mounting position     optional       Mauato verride     None       Type of piloting     Direct       Pilot air supply     Internal       Flow direction     Reversible       Iap     Overlap       Pilot pressure     0.15 MPa1 MPa       1.5 bar10 bar     Switching time reversal       Explosion protection     Gms       Explosion protection     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)       Vibration resistance     Shock 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	Standard nominal flow rate (standardised to DIN 1343)	700 l/min
1.5 bar10 barDesignPiston gate valveApprovalc UL us - Recognized (OL)Nominal size5.7 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideNoneType of pilotingDirectPilot air supplyInternalFlow directionReversiblelapOverlapPilot pressure0.15 MPa1 MPa1.5 bar10 barSont 2 (ATEX)Switching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010[7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceShock test with severity level 2 to FN 942017-4 and EN 60068-2-27Corrosion resistance class CRC2 - Moderate corrosion stress	pneumatic working port	1/8 NPT
Approvalc UL us - Recognized (OL)Nominal size5.7 mmExhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideNoneType of pilotingDirectPilot air supplyInternalFlow directionReversiblelapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will 	Operating pressure	
S.7 mm       Exhaust-air function     With flow control option       Sealing principle     Soft       Mounting position     optional       Manual override     None       Type of piloting     Direct       Pilot air supply     Internal       Flow direction     Reversible       lap     Overlap       Pilot pressure     0.15 MPa1 MPa      10 bar     Switching time reversal       Switching time reversal     6 ms       Explosion protection     The information in the certificate must be observed!       Zone 1 (ATEX)     Zone 2 (ATEX)       Zone 2 (ATEX)     Zone 2 (ATEX)       Zone 2 (ATEX)     Zone 2 (ATEX)       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	Design	Piston gate valve
Exhaust-air functionWith flow control optionSealing principleSoftMounting positionoptionalManual overrideNoneType of pilotingDirectPilot air supplyInternalFlow directionReversiblelapOverlapPilot pressure0.15 MPa10 MPaSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceShock test with severity level 2 to FN 942017-4 and EN 60068-2-27Corrosion resistance class CRC2 - Moderate corrosion stress	Approval	c UL us - Recognized (OL)
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Mounting positionoptionalManual overrideNoneType of pilotingDirectPilot air supplyInternalReversibleReversiblelapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceShock test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 Zorosion resistance class CRC	Exhaust-air function	With flow control option
Manual overrideNoneType of pilotingDirectPilot air supplyInternalFlow directionReversiblelapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceShock resistanceShock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC2 - Moderate corrosion stress	Sealing principle	Soft
Type of pilotingDirectPilot air supplyInternalFlow directionReversiblelapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceTransport application test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 Z - Moderate corrosion stress	Mounting position	optional
Pilot air supply     Internal       Flow direction     Reversible       lap     Overlap       Pilot pressure     0.15 MPa1 MPa       1.5 bar10 bar     Switching time reversal       6 ms     Explosion protection       Zone 1 (ATEX)     Zone 2 (ATEX)       Zone 21 (ATEX)     Zone 22 (ATEX)       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)       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	Manual override	None
Flow directionReversiblelapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceTransport application test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 2 - Moderate corrosion stress	Type of piloting	Direct
IapOverlapPilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceShock resistanceShock resistance class CRC2 - Moderate corrosion stress	Pilot air supply	Internal
Pilot pressure0.15 MPa1 MPa 1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceTransport application test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 2 - Moderate corrosion stress	Flow direction	Reversible
1.5 bar10 barSwitching time reversal6 msExplosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceTransport application test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 2 - Moderate corrosion stress	lap	Overlap
Explosion protectionThe information in the certificate must be observed! Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air to ISO 8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (in which case lubricated operation will always be required)Vibration resistanceTransport application test with severity level 2 to FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 to FN 942017-5 and EN 60068-2-27 2 - Moderate corrosion stress	Pilot pressure	
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60068-2-6       Shock resistance       Shock resistance class CRC       2 - Moderate corrosion stress	Note on operating and pilot medium	
Corrosion resistance class CRC 2 - Moderate corrosion stress	Vibration resistance	
	Shock resistance	Shock test with severity level 2 to 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

## **FESTO**



Feature	Value
Cleanroom class	Class 6 according to ISO 14644-1
Media temperature	-10 °C60 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C60 °C
Product weight	211 g
Type of mounting	On manifold rail With through-hole Either:
Breather connection	Not ducted
Pneumatic connection, port 1	1/8 NPT
Pneumatic connection, port 2	1/8 NPT
Pneumatic connection, port 3	1/8 NPT
Pneumatic connection, port 4	1/8 NPT
Pneumatic connection, port 5	1/8 NPT
Note on materials	RoHS-compliant
Material seals	HNBR NBR
Material housing	Die-cast aluminium Painted
Material piston slide	Wrought aluminium alloy
Material screws	Galvanised steel