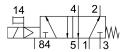
## Solenoid valve VUVS-LT20-M52-MD-N18-F7

Part number: 577506







## **Data sheet**

Type of actuation  Electric  Valve size  21 mm  Standard nominal flow rate pneumatic working port  Operating pressure  Operating pressure  Os MPa1 MPa 3 bar10 bar  Design Poppet seat Type of reset Mechanical spring Approval  Cul. us - Recognized (OL)  Nominal size Exhaust-air function  Sealing principle Mounting position Mounting position Manual override Detenting Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Row direction  Non-reversible Idap Underlap b value  O 311  C Value  2.1 I/sbar  Switching time on  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]	Feature	Value
Valve size 21 mm  Standard nominal flow rate 500 l/min  pneumatic working port 1/8 MPT  Operating pressure 3, MPA1 MPa 3 bar10 bar  Design Poppet seat  Type of reset Mechanical spring  Approval CUL us - Recognized (OL)  Nominal size 5 mm  Exhaust-air function With flow control option  Soaling principle Soft  Mounting position optional  Manual override Detenting  Non-detenting  Type of piloting Pilot actuated  Pilot actuated  Internal  Flow direction Non-reversible  lap Underlap  b value 0,31  C value 2.1 l/sbar  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal Max. positive test pulse with 1 signal 2700 µs  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)	Valve function	5/2-way, monostable
Standard nominal flow rate pneumatic working port  1/8 NPT  Operating pressure  0.3 MPa1 MPa 3 bar10 bar  Poppet seat  Type of reset  Approval  Nominal size  Exhaust-air function  Sealing principle  Mounting position  Manual override  Mounting position  Manual override  Pote a pilot actuated Pilot air supply Internal Flow direction  Non-reversible Iap Underlap b value  0.31  C value  2.1 l/sbar  Switching time off  19 ms  Switching time off  Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Operating medium  None popper and pilot medium  None popper action possible (in which case lubricated operation will  Lubricated operation possible (in which case lubricated operation will  Lubricated operation possible (in which case lubricated operation will	Type of actuation	Electric
pneumatic working port     1/8 NPT       Operating pressure     0.3 MPa1 MPa 3 bar10 bar       Design     Poppet seat       Type of reset     Mechanical spring       Approval     c UL us - Recognized (OL)       Nominal size     5 mm       Exhaust-air function     With flow control option       Sealing principle     Soft       Mounting position     optional       Manual override     Detenting Non-detenting       Type of piloting     Pilot actuated       Pilot air supply     Internal       Flow direction     Non-reversible       Iap     Underlap       b value     0.31       C value     2.1 l/sbar       Switching time off     19 ms       Switching time on     15 ms       Max. positive test pulse with 0 signal     1900 μs       Max. negative test pulse with 1 signal     2700 μs       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	Valve size	21 mm
Operating pressure  0.3 MPa1 MPa 3 bar10 bar  Poppet seat  Type of reset  Mechanical spring  Cull us - Recognized (OL)  Nominal size  Exhaust-air function  Sealing principle  Mounting position  Manual override  Manual override  Detenting Non-detenting  Type of piloting  Pilot actuated  Pilot air supply  Internal  Flow direction  Non-reversible  Jap  Underlap  b value  O.31  C value  2.1 l/sbar  Switching time off  Switching time on  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating and pilot medium  Note on operating and pilot medium  Note on operating and pilot medium  O 3 MPa 1MPa 3 bar10 bar  Wethanical spring  Out us - Recognized (OL)  Nechanical spring  Out us - Recognized (OL)  Nothing flow control option  Osoft  Nothing flow control option  Solit flow control option  Note on operating and pilot medium  Osoft  Osoft  Mechanical spring  Nechanical spring  Osoft Mechanical sp	Standard nominal flow rate	500 l/min
3 bar10 bar  Design Poppet seat  Type of reset Mechanical spring  Approval c UL us - Recognized (OL)  Nominal size 5 mm  Exhaust-air function With flow control option  Sealing principle Soft  Mounting position optional  Manual override Detenting Non-detenting  Type of piloting Pilot actuated  Pilot air supply Internal  Flow direction Non-reversible  lap Underlap  b value 0.31  C value 2.1 l/sbar  Switching time off 19 ms  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 μs  Max. negative test pulse with 1 signal 2700 μs  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	pneumatic working port	1/8 NPT
Mechanical spring C UL us - Recognized (OL) Nominal size S mm Exhaust-air function With flow control option Sealing principle Mounting position Manual override Detenting Non-detenting Type of piloting Pilot actuated Pilot air supply Internal Flow direction Non-reversible Iap Underlap b value 0.31 C value 2.1 l/sbar Switching time off 19 ms Switching time on 15 ms Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Operating medium C ompressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will	Operating pressure	
Approval c UL us - Recognized (OL)  Nominal size 5 mm  Exhaust-air function With flow control option  Sealing principle Soft  Mounting position optional  Manual override Detenting  Type of piloting Pilot actuated  Pilot air supply Internal  Flow direction Non-reversible  Iap Underlap  b value 0.31  C value 2.1 l/sbar  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 µs  Max. negative test pulse with 1 signal 2700 µs  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	Design	Poppet seat
Nominal size 5 mm  Exhaust-air function With flow control option  Sealing principle Soft  Mounting position optional  Manual override Detenting Non-detenting  Type of piloting Pilot actuated  Pilot air supply Internal  Flow direction Non-reversible  lap Underlap  b value 0.31  C value 2.1 l/sbar  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 µs  Max. negative test pulse with 1 signal 2700 µs  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	Type of reset	Mechanical spring
Exhaust-air function  Sealing principle  Mounting position  Manual override  Mounting position  Manual override  Detenting Non-detenting  Type of piloting  Pilot actuated  Pilot actuated  Internal  Flow direction  Non-reversible  Iap  Underlap  b value  0.31  C value  2.1 l/sbar  Switching time off  19 ms  Switching time on  15 ms  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  C compressed air to ISO 8573-1:2010 [7:4:4]  Note on operating and pilot medium  With flow control option  With flow control option  Soft  With flow control option  Soft  Soft  With flow control option  Soft  Soft  10 ms  Soft  Soft  Assumed the flow control option  Soft  Soft  Assumed the soft  Soft  Soft  Assumed the soft  Soft  Assumed the soft  Soft  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will	Approval	c UL us - Recognized (OL)
Sealing principle  Mounting position  Manual override  Detenting Non-detenting Non-detenting Pilot actuated Pilot air supply Internal Flow direction  Non-reversible Iap Underlap b value 0.31 C value 2.1 l/sbar Switching time off 19 ms Switching time on 15 ms Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Operating medium  Non-reversible 1900 µs  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	Nominal size	5 mm
Mounting position optional Detenting Non-detenting Non-detenting Pilot actuated Pilot air supply Internal Plow direction Non-reversible Underlap Underlap Detaile Switching time off 19 ms Switching time on 15 ms Max. positive test pulse with 0 signal Non-geverating medium Compressed air to ISO 8573-1:2010 [7:4:4] Note on operating and pilot medium Uptions Internal Underlap Detaile Switching time off Source Switching time on Underlap Detaile Switching time of Underlap	Exhaust-air function	With flow control option
Manual override  Detenting Non-detenting  Pilot actuated  Pilot air supply Internal  Non-reversible Ilap Underlap b value 0.31 C value 2.1 l/sbar  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Operating medium  Note on operating and pilot medium  Detenting Non-detenting Non-detentin	Sealing principle	Soft
Non-detenting  Type of piloting  Pilot actuated  Pilot air supply  Internal  Flow direction  Non-reversible  Iap  Underlap  b value  0.31  C value  2.1 l/sbar  Switching time off  19 ms  Switching time on  15 ms  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  Note on operating and pilot medium  Non-detenting  Non-detenting  Non-detenting  Pilot actuated  1nternal  Non-reversible  Underlap  0.31  2.1 l/sbar  19 ms  19 ms  15 ms  12700 µs  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will	Mounting position	optional
Pilot air supply  Flow direction  Non-reversible  Underlap  b value  0.31  C value  2.1 l/sbar  Switching time off  19 ms  Switching time on  15 ms  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  Note on operating and pilot medium  Internal  Int	Manual override	
Flow direction  Non-reversible  Underlap  b value  0.31  C value  2.1 l/sbar  Switching time off  19 ms  Switching time on  15 ms  Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will	Type of piloting	Pilot actuated
Underlap b value  0.31 C value  2.1 l/sbar Switching time off  19 ms Switching time on  15 ms Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  Operating medium  Compressed air to ISO 8573-1:2010 [7:4:4]  Lubricated operation possible (in which case lubricated operation will	Pilot air supply	Internal
b value 0.31 C value 2.1 l/sbar Switching time off 19 ms Switching time on 15 ms Max. positive test pulse with 0 signal 1900 μs Max. negative test pulse with 1 signal 2700 μs 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	Flow direction	Non-reversible
C value 2.1 l/sbar  Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 µs  Max. negative test pulse with 1 signal 2700 µs  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	lap	Underlap
Switching time off 19 ms  Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 µs  Max. negative test pulse with 1 signal 2700 µs  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	b value	0.31
Switching time on 15 ms  Max. positive test pulse with 0 signal 1900 µs  Max. negative test pulse with 1 signal 2700 µs  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	C value	2.1 l/sbar
Max. positive test pulse with 0 signal  Max. negative test pulse with 1 signal  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	Switching time off	19 ms
Max. negative test pulse with 1 signal  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	Switching time on	15 ms
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	Max. positive test pulse with 0 signal	1900 μs
Note on operating and pilot medium  Lubricated operation possible (in which case lubricated operation will	Max. negative test pulse with 1 signal	2700 μs
	Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
	Note on operating and pilot medium	
Vibration resistance Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	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	Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27

Feature	Value
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-10 °C60 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C60 °C
Product weight	167 g
Type of mounting	Either: On manifold rail With through-hole
Breather connection	Not ducted
Pilot exhaust port 84	10-32 UNF-2B
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 TPE-U(PU)
Material housing	Die-cast aluminium Painted
Material screws	Galvanised steel