

# Air solenoid valve

## VUVS-L20-P53C-MZD-G18-F7-1C1

FESTO

Part number: 575686



[General operating condition](#)

## Data sheet

Feature	Value
Valve function	5/3, closed
Actuation type	Electrical
Valve size	21 mm
Normal nominal flow rate (normalized to DIN 1343)	700 l/min
Pneumatic working port	G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Certification	c UL us - Recognized (OL)
Degree of protection	IP65 With plug socket as per IEC 60529
Nominal width	5 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 air supply port	External
Flow direction	Reversible
Symbol	00991020
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	42 ms
On switching time	13 ms
Changeover time	24 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1900 µs
Max. negative test pulse on 1 signal	2700 µs
Coil characteristics	24 V DC: 2.6 W

Feature	Value
Permissible voltage fluctuations	+/- 10 %
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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
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	263 g
Electrical connection	Form C as per EN 175301-803
Type of mounting	On terminal strip With through-hole
Venting hole connection	Not ducted
Pilot exhaust air port 82	M5
Pilot exhaust air port 84	M5
Pilot air port 12	M5
Pilot air port 14	M5
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum Painted
Piston slide material	High-alloy stainless steel
Material of screws	Steel, galvanized