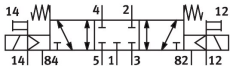
Air solenoid valve
VUVS-L20-P53C-MZD-G18-F7-1C1

Part number: 575686





Data sheet

Feature	Value
Valve function	5/3-way, 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 -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	Adjustable
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of control	Piloted
Pilot air supply port	External
Flow direction	Reversible
Lap	Positive 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%

Feature	Value
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
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	Type C As per EN 175301-803
Type of mounting	Alternatively: 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	Galvanized steel