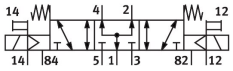
Solenoid valve
VUVS-L20-P53U-MZD-G18-F7

Part number: 575688





Data sheet

Feature	Value
Valve function	5/3-way, pressurised
Type of actuation	Electrical
Valve size	21 mm
Standard nominal flow rate (standardised to DIN 1343)	600 l/min
pneumatic working port	G1/8
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Design	Piston gate valve
Type of reset	Mechanical spring
Approval	c UL us - Recognised (Oil)
Nominal size	4.8 mm
Exhaust-air function	Can be throttled
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of piloting	Piloted
Pilot air supply	External
Flow direction	Reversible
lap	Overlap
Pilot pressure	0.25 MPa...1 MPa 2.5 bar...10 bar
b value	0.35
C value	2.5 l/sbar
Switching time off	42 ms
Switching time on	13 ms
Switching time reversal	21 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 always be required)

Feature	Value
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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Media temperature	-10 °C...60 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C...60 °C
Product weight	229 g
Type of mounting	Either: On manifold rail With through-hole
Breather connection	Not ducted
Pilot exhaust port 82	M5
Pilot exhaust port 84	M5
Pilot air port 12	M5
Pilot air port 14	M5
Pneumatic connection, port 1	G1/8
Pneumatic connection, port 2	G1/8
Pneumatic connection, port 3	G1/8
Pneumatic connection, port 4	G1/8
Pneumatic connection, port 5	G1/8
Note on materials	RoHS compliant
Material seals	HNBR NBR
Material housing	Die-cast aluminium painted
Material piston slide	High-alloy stainless steel
Material screws	Galvanised steel