Pneumatic valve
VOGM-FD100-M33E-M-F90

Part number: 8141658



Data sheet

Feature	Value
Structural design	Sub-base valve Diaphragm valve Pilot-controlled piston poppet valve
Actuation type	Pneumatic
Sealing principle	Soft
Mounting position	Any
Type of mounting	With accessories
Valve function	Proportional 3/3-way valve
Mode of operation	Single-acting
Operating pressure	0.14 MPa...0.8 MPa 1.4 bar...8 bar 20.3 psi...116 psi
Reset method	Mechanical spring
Pneumatic connection	Sub-base design, airing
Operating medium	Compressed air as per ISO 8573-1:2010 [7:7:-] Inert gases
Information on operating and pilot media	Operation with oil lubrication not possible
Temperature of medium	-40 °C...80 °C
Ambient temperature	-40 °C...80 °C
Normal nominal flow rate (normalized to DIN 1343)	1240 l/min
C value	5.58 l/sbar
b-value	0.214
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III
Housing material	Smooth-anodized wrought aluminum alloy (20 µm)
Cover material	Smooth-anodized wrought aluminum alloy (20 µm)
Seals material	EPDM NBR
Material of screws	high-alloy stainless steel
Material of spring	Spring steel
Product weight	1560 g
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX)

Feature	Value
	Zone 22 (ATEX)
Corrosion resistance class (CRC)	3 - High corrosion stress