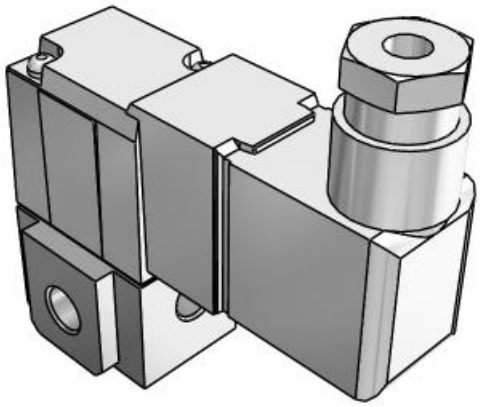
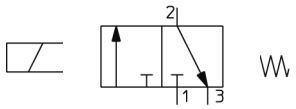


VT307, 3 Port Direct Operated Poppet, All Types

VT307-5D1-01F-Q

Data Sheet

Large Flow Capacity, yet Compact Size.Low Power Consumption.Suitable for Use in Vacuum Applications.1 Valve, 6 Functions. (Universal Porting)Selective porting can provide 6 valve functions,such as N.C. valve, N.O. valve, Divider valve, Selector valve etc.Manifolded valve can be easily convertedfrom N.C. normally closed to N.O. normally open merely by turning over the switch cover.



Directional control valve 3/2-way valve, closed normal position controlled by solenoid coil with one winding, direction of actuation towards the valving element return with mechanical control spring

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Standard Specifications

Body	Body Ported
Valve specification	Standard
Pressure specifications	0.7 MPa
Rated Voltage	24V DC
Electrical Entry	with connector
Indicator light and surge voltage suppressor	None
Port Size	6A
Thread	PF
Option	None
Q	CE Marked
Pressure medium	Air
Maximum temperature of pressure medium	50 ºC
Minimum temperature of pressure medium	-10 ºC (No freezing)
Maximal operating pressure	0.7 Mpa
Minimum operating pressure	0 Mpa
Maximum ambient temperature	50 ºC
Minimum ambient temperature	-10 ºC (No freezing)
Conform to the European RoHS Directive	Conform
Approvals	CE
Protection class with connector	Dustproof
Pneumatic input connection	G 1/8
Pneumatic output connection	G 1/8
Pneumatic exhaust connection	G 1/8
Function in normal position	Closed
Type of piloting	Directly
Valve return	Mechanical spring
Manual override	1
Sealing principle	Soft seal
Flow rate	187 Nl/min
b Value	0.35
c Value	0.71
Response time	20 ms or less (at 0.5 MPa)
Usable tubing material	PU
Subfamily	VT307, 3 Port Direct Operated Poppet, All Types
Electrical entry	DIN terminal
Weight	0.150 kg

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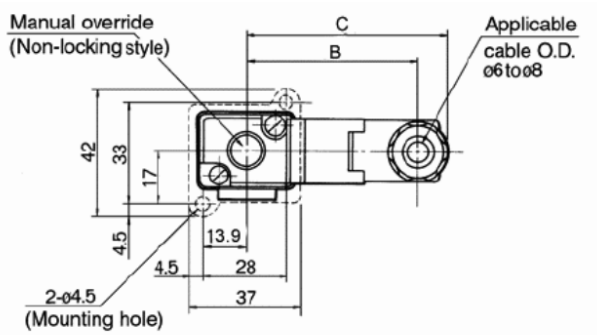
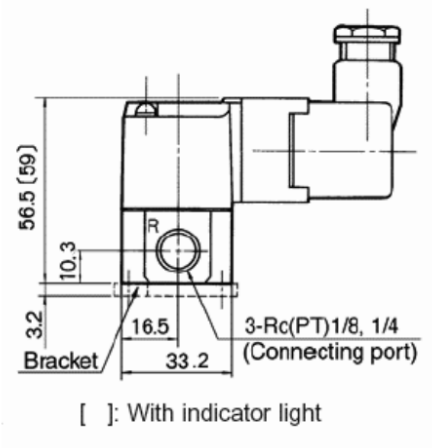
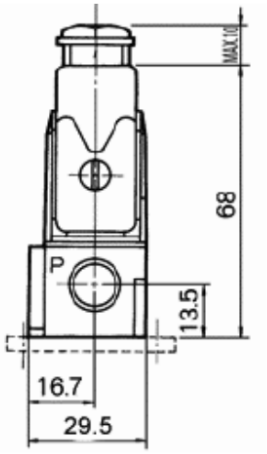
Dimensions







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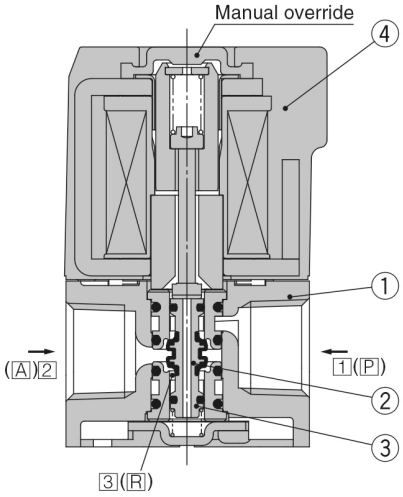
Constructions

De-energized



Operation principle

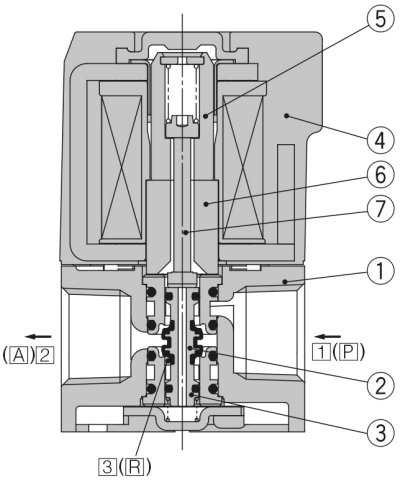
<De-energized>

Poppet valve ② is pushed upward by the return spring ③, port 1 is closed. Then, port 2 and port 3 are connected.

Air flow direction:

Port 1 ⟷ Block, 2 ⟷ 3

Energized



<Energized>

When energizing the molded coil ④, the armature ⑤ is magnetically attracted to the core ⑥, and through the push rod ⑦, it pushes down the poppet valve ② and port 3 is closed. Then, port 1 and port 2 are connected. At this time, there will be gaps between the armature ⑤ and the core ⑥, but the armature ⑤ will be magnetically firmly attracted to the core ⑥.

Air flow direction:

Port 1 ⟷ Port 2 , Port 3 ⟷ Block

Component Parts

No.	Description	Material	Note
1	**Body**	Aluminium die-casted	Colour: White
2	**Poppet valve**	Aluminium, HNBR	
3	**Return spring**	Stainless steel	
4	**Molded coil**	Resin	

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Additional information

Catalogue	VT_A_EU.pdf
Declaration of Conformity - Before April 2016 - manufacturing batch codes UQ backwards	DoC_NewVT307_TFQ0001-A.pdf
Installation Manuals	IM_VT307N_SMT19EN-A.pdf

Related Products

AN
AN (BC Sintered), Silencer, General Purpose, Metric

AC20-F01DE-B
AC20-B to AC60-B, Modular Type, Air Filter + Regulator + Lubricator

TU0425B-20
TU, Polyurethane Tubing, Metric Size

KQ2H
KQ2H, One-touch Fitting White Color - Male Connector

C85
C85, Accessory, Mounting Bracket

CG1
C(D)G1-Z, Air Cylinder, Double Acting, Single Rod

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