

DN 5

Angle and Inline Valves (VAH, VAP, VAM, VIM)

MANUALLY ACTUATED

- Angle valve
- Spindle drive

PNEUMATICALLY ACTUATED

- Angle valves
- With and without pilot valve

SOLENOID ACTUATED

- Angle and inline valves



SELECTION DATA

Actuation		manual	pneumatic	el.-pneumatic	solenoid	solenoid	solenoid
Feedthrough		bellows	bellows	bellows	without	without	without
Vacuum connection	mm	Ø5 / M 14 x 1	Ø5 / M 14 x 1	Ø5 / M 14 x 1	Ø5 / M 14 x 1	Ø5 / M 14 x 1	Ø5 / M 14 x 1
Service life ¹⁾	cycles	–	5 Mio	5 Mio	2 Mio	2 Mio	2 Mio
Attributes		angle valve	angle valve w/o pilot valve	angle valve with pilot valve	angle valve	inline valve normally closed	inline valve normally open

¹⁾ Under clean operating conditions

ORDERING INFORMATION

Type	VAH005-X	VAP005-X	VAP005-X	VAM005-X	VIM005-X	VIM005-Z
Valve / Part No.	250-070	250-040	–	–	–	–
Normally closed	–	–	250-050	250-000	250-010	–
Normally open	–	–	250-060	–	–	250-020

SPARE PARTS

Seal set	215-373	215-372	215-372	215-371	215-371	215-371
Spare parts set	215-369	215-368	215-368	215-365	215-366	215-367

CONNECTION ELEMENTS

Type	Flange DN 10 ISO-KF	For pipe OD 1/4"	For pipe OD 6mm
Part No.	250-080	250-085	250-086

SPECIFICATIONS

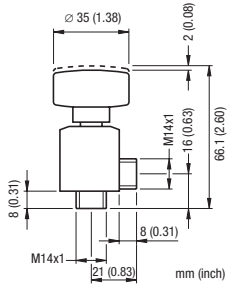
Type		VAH005-X	VAP005-X	VAP005-X	VAM005-X	VIM005-X	VIM005-Z
Actuation		manual	pneumatic	el.-pneumatic	solenoid	solenoid	solenoid
Tightness	mbar l/s	1 x 10 ⁻⁹	1 x 10 ⁻⁹	1 x 10 ⁻⁹	1 x 10 ⁻⁹	1 x 10 ⁻⁹	1 x 10 ⁻⁹
Conductance for air							
Molecular flow	l/s	0.4	0.4	0.4	0.3	0.2	0.2
Laminar flow	l/s	4	4	4	3	2	2
Pressure range (absolute)	mbar ... bar	10 ⁻⁸ ... 4	10 ⁻⁸ ... 4	10 ⁻⁸ ... 4	10 ⁻⁸ ... 10	10 ⁻⁸ ... 10	10 ⁻⁸ ... 10
Pressure difference Δp							
In closing direction	bar	4	3	3	5	5	4
In opening direction	bar	4	3	3	1.5	1.5	2
Opens against Δp ¹⁾	bar	4	3	3	1	1	4
Temperature							
Ambient	°C	5 ²⁾ ... 70	5 ²⁾ ... 80	5 ²⁾ ... 40	5 ²⁾ ... 40	5 ²⁾ ... 40	5 ²⁾ ... 40
Closing time	ms	–	35 / 35	35 / 35	7 / 30	7 / 30	30 / 10
Opening time	ms	–	–	–	–	–	–
Switching frequency	1/min	–	150	150	300	300	300
Degree of protection		–	IP 65	IP 65	IP 65	IP 65	IP 65
Supply voltage/	V DC	–	–	24	24	24	24
Power consumption	W	–	–	1	10	10	10
Materials							
Housing		304/1.4301	304/1.4301	304/1.4301	304/1.4301	304/1.4301	304/1.4301
Actuator		Al & plastic	anodized Al	anodized Al	–	–	–
Bellows		304/1.4301	304/1.4301	304/1.4301	–	–	–
Valve plate		304/1.4301	304/1.4301	304/1.4301	–	–	–
Guiding tube		–	–	–	303/1.4105	303/1.4105	303/1.4105
Armature		–	–	–	303/1.4105	303/1.4105	303/1.4105
Seals		FPM	FPM	FPM	FPM	FPM	FPM
Weight	kg	0.15	0.20	0.20	0.26	0.28	0.30

¹⁾ Compressed air: overpressure 4 bar

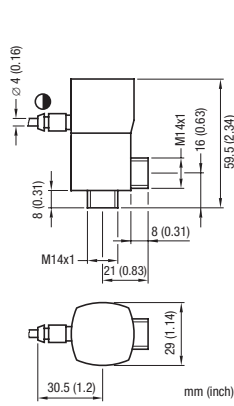
²⁾ –15 °C, if the ambience is free of condensable gases

DIMENSIONS

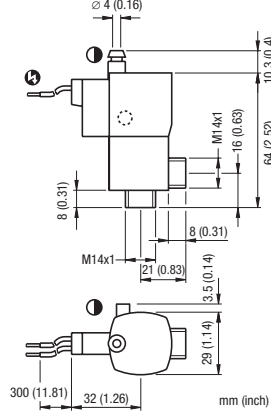
VAH005-X



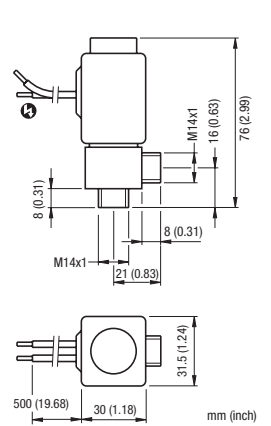
VAP005-X



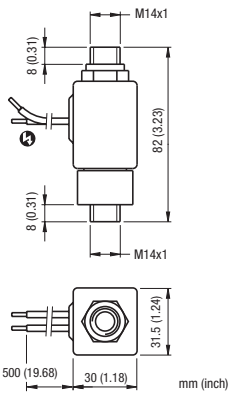
VAP005-X



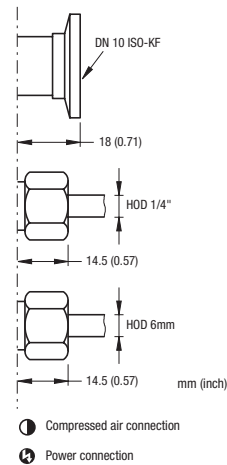
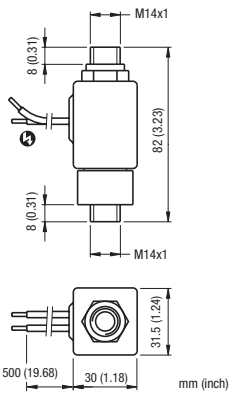
VAM005-X



VIM005-X



VIM005-Z



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