

# VAM016 ... 040-A/X

## Solenoid Actuated Angle Valves

### ADVANTAGES

- Bellows feedthrough, stainless steel 316L
- Compact design
- Electrical and visual (LED) position indication
- Selectable operating mode
  - Remote control via PLC or PC
  - Local operation
- Wide voltage range
- Easy maintenance, fast bellows and seal replacement
- Fast opening and closing time
- FPM sealing standard, other sealing materials available upon request
- Aluminum or stainless steel housing
- High conductance for fast pump down or venting



### SELECTION DATA

Vacuum connection		DN 16 ISO-KF	DN 25 ISO-KF	DN 40 ISO-KF
Aluminum housing	AISI/DIN	-/EN AW-6060	-/EN AW-6060	-/EN AW-6060
Stainless steel housing	AISI/DIN	304/1.4301	304/1.4301	304/1.4301

### ORDERING INFORMATION

Type	VAM016-A	VAM016-X	VAM025-A	VAM025-X	VAM040-A	VAM040-X
Part No.	253-500	253-501	253-502	253-503	253-504	253-505

### SPARE PARTS

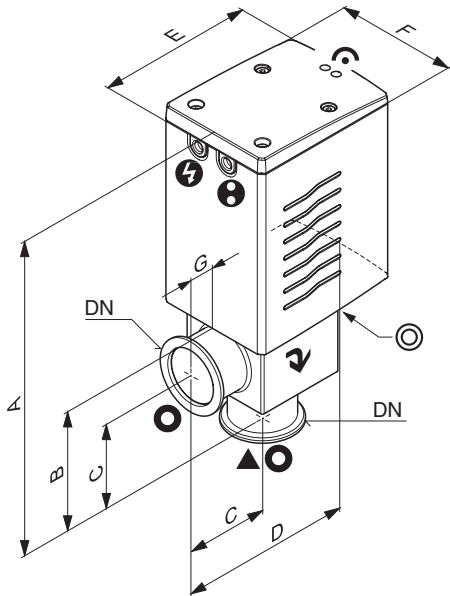
Seal kit	299-001	299-006	299-011
O-rings for one valve			
Bellows cpl.	299-002	299-007	299-012
Bellows & seal kit			
Electronics cpl.	299-016	299-016	299-016
Linear solenoid cpl.	299-017	299-018	299-019

## SPECIFICATIONS

Type		VAM016-A	VAM016-X	VAM025-A	VAM025-X	VAM040-A	VAM040-X
Cycle life	Mio cycles	2		2		2	
Conductance for molecular flow	l/s	4		13		35	
Tightness	mbar l/s	1 x 10 <sup>-9</sup>		1 x 10 <sup>-9</sup>		1 x 10 <sup>-9</sup>	
Operating pressure min. / max	mbar / bar	10 <sup>-8</sup> / 1.3		10 <sup>-8</sup> / 1.3		10 <sup>-8</sup> / 1	
Pressure max.	bar	3		3		3	
Pressure difference							
In closing direction	bar	1.3		1.3		1.3	
In opening direction	bar	1.3		1.3		1	
Opens to a pressure difference of	bar	1.3		1.3		1.3	
Ambient temperature	°C	0 ... 50		0 ... 50		0 ... 50	
Bakeout temperature							
Housing	°C	120		120		120	
Actuator, idle	°C	50		50		50	
Supply voltage	V	90 ... 264		90 ... 264		90 ... 264	
Frequency	Hz	47 ... 63		47 ... 63		47 ... 63	
Pickup power	W	405		416		367	
Holding power	W	8.1		8.3		7.5	
Power consumption	W	400		400		400	
Closing time	ms	100		120		230	
Opening time	ms	220		220		650	
Dead time	ms	40		140		450	
Switching frequency							
At 40°C	1/min	30		30		30	
At 50°C	1/min	20		20		20	
Control voltage	V DC	15 ... 30		15 ... 30		15 ... 30	
Power consumption	mA	1.5 ... 5		1.5 ... 5		1.5 ... 5	
Position indicator							
Switching voltage	V DC	15 ... 30		15 ... 30		15 ... 30	
Switching current	mA	100		100		100	
Materials							
Housing		EN-AW 6060	1.4301	EN-AW 6060	1.4301	EN-AW 6060	1.4301
Bellows		stainless steel		stainless steel		stainless steel	
Seals		FPM		FPM		FPM	
Degree of protection		IP 54		IP 54		IP 54	
Mounting orientation		any		any		any	
Weight	kg	1.1	1.2	1.9	2.0	4.3	4.4

## DIMENSIONS

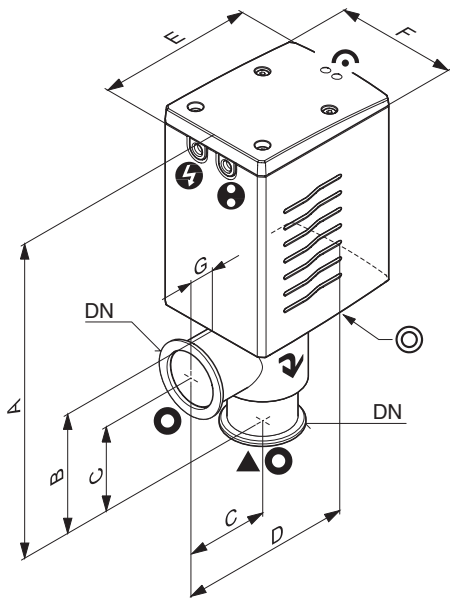
Aluminum housing [mm]



DN	A	B	C	D	E	F	G
DN 16 ISO-KF	170.9	51.4	40	96	86	59	10
DN 25 ISO-KF	193	64.9	50	112.7	97.3	70	15.4
DN 40 ISO-KF	246	92.9	65	139	119.5	90	19.5

- ⊙ Leak detection opening
- ⊕ Position indicator connection
- ⊖ Protective lid
- ▼ Valve seat site
- ⚡ Electrical connection
- ⊖ Visual position indicator
- ✓ Flow direction

Stainless steel housing [mm]



DN	A	B	C	D	E	F	G
DN 16 ISO-KF	172.9	53.4	40	96	86	59	10
DN 25 ISO-KF	196.4	68.3	50	112.7	97.3	70	15.4
DN 40 ISO-KF	249	95.9	65	139	119.5	90	19.5

- ⊙ Leak detection opening
- ⊕ Position indicator connection
- ⊖ Protective lid
- ▼ Valve seat site
- ⚡ Electrical connection
- ⊖ Visual position indicator
- ✓ Flow direction



**GLOBAL HEADQUARTERS:**

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