Diaphragm valve

VAT Series 22

Robust vacuum valve for venting and rough metering

For gases and liquids

Body material

aluminum or stainless steel

Manual actuator

DN		Ordering numbers	
mm	inch	aluminum	stainless steel
16	⅝	22024-KA01	22024-KE01
25	1	22028-KA01	22028-KE01
40	1½	22032-KA01	22032-KE01

Technical data

Leak rate: body, valve seat	< $1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range	$1 \cdot 10^{-7}$ mbar to 5 bar (abs)
Cycles until first service	100 000
Temperature [1]	
- Valve body	≤ 100°C
- Handwheel	≤ 50°C
Material	
- Valve body: aluminum	EN AW-6060 (3.3206), EN AW-6061 (3.3211), EN AW-6063 (3.3206), EN AW-6082 (3.2315)
- Valve body: stainless steel	AISI 316 L (1.4404 or 1.4435)
- Actuator body and handwheel	plastic (POM)
- Seal	diaphragm made of FKM (VITON)
Mounting position	any
Molecular flow conductance	
- DN 16 / 25 / 40	2 / 5 / 17 ls^{-1}
Spindle turns per stroke	
- DN 16 / 25 / 40	3.5 / 5 / 6.5
Weight (aluminum body)	
- DN 16	0.16 kg / 0.35 lbs
- DN 25	0.5 kg / 1.1 lbs
- DN 40	1.2 kg / 2.6 lbs
Valve position	visual (mechanical)

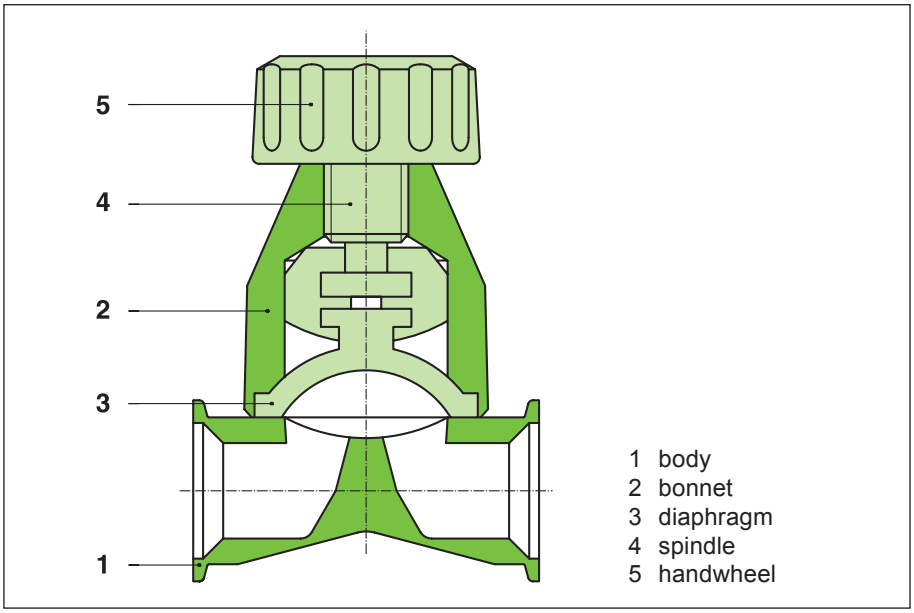
[1] Maximum values: depending on operating conditions and sealing materials

Spare diaphragm

See operating manual or price list

Sealing material

Diaphragm made of FKM (VITON)



Features

Diaphragm made of FKM (VITON)

Easy replacement of the diaphragm

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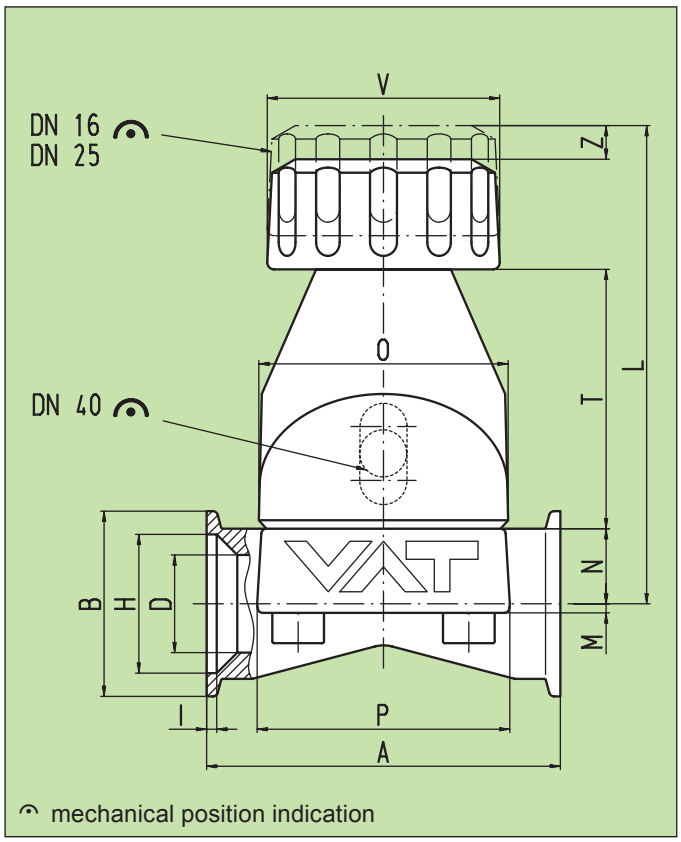

DN		16	25	40
	mm			
	inch	⅝	1	1½
A	mm	52	80	105
	inch	2.05	3.15	4.13
B	mm	30	40	55
	inch	1.18	1.57	2.17
D	mm	15	19	29
	inch	0.59	0.75	1.14
H	mm	17.2	26.2	41.2
	inch	0.68	1.03	1.62
I	mm	3	3	3
	inch	0.12	0.12	0.12
L	mm	66.5	111	132
	inch	2.62	4.37	5.2
M	mm	10	2	2.7
	inch	0.39	0.08	0.11
N	mm	10	14	22.3
	inch	0.39	0.55	0.88
O	mm	☐ 32 x 32	☐ 54 x 54	☐ 74 x 79
	inch	☐ 1.26 x 1.26	☐ 2.13 x 2.13	☐ 2.91 x 3.11
P	mm	☐ 32 x 32	☐ 54 x 54	☐ 75 x 80
	inch	☐ 1.26 x 1.26	☐ 2.13 x 2.13	☐ 2.95 x 3.15
T	mm	27.5	56	77
	inch	1.08	2.2	3.03
V	mm	30	47.5	69
	inch	1.18	1.87	2.72
Z	mm	5.5	10	–
	inch	0.22	0.39	–