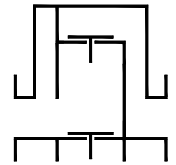




## Type sheet

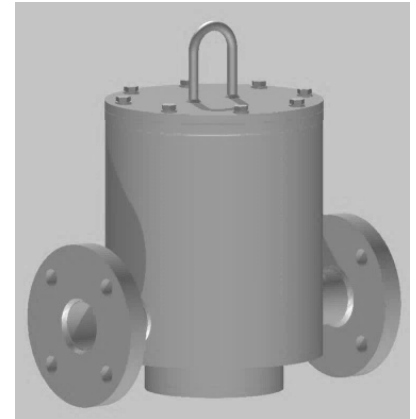
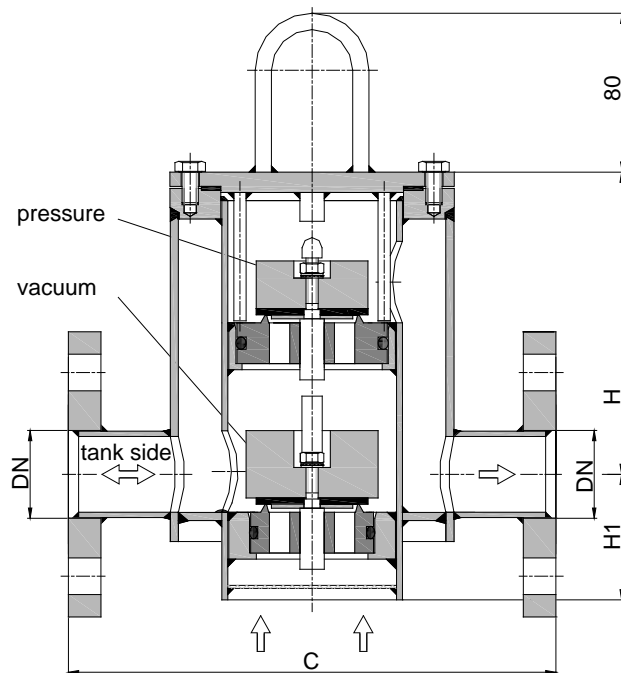
In-line pressure and vacuum relief valve  
KITO® VDT-...



### Application

As inline armature, with venting and breather valve function for vessels, preferably used for installation in pipes. The exhaust air is carried away via a pipe while the ventilation comes from the atmosphere.

### Dimensions (mm) and settings (mbar)



Construction length C can be adapted to customers wish to local situation.

DN		C	H	H1	~kg	vacuum		setting		min. - max. (with housing extension)	
DIN	ASME					min. - max. (load weight from PE)	min. - max.	min. - max. (load weight from PE)	min. - max.		
25	PN 40	1"	240	155	60	11	2.7 - 10.4	10.5 - 75	2.5 - 10.4	10.5 - 70	> 70 - 200
32	PN 40	1 1/4"	240	150	65	14	2.7 - 10.4	10.5 - 73	2.5 - 10.4	10.5 - 68	> 68 - 200
40	PN 40	1 1/2"	350	206	92	28	2.1 - 10.4	10.5 - 148	1.8 - 10.3	10.4 - 200	-
50	PN 16	2"	350	217	77	30	2.1 - 10.4	10.5 - 145	1.8 - 10.3	10.4 - 200	-
65	PN 16	2 1/2"	350	209	85	31	1.7 - 7.4	7.5 - 90	1.7 - 7.4	7.5 - 130	> 130 - 200
80	PN 16	3"	350	250	100	36	1.7 - 7.9	8.0 - 105	1.7 - 7.8	7.9 - 130	> 130 - 200
100	PN 16	4"	450	272	125		1.7 - 7.6	7.7 - 97	1.7 - 7.6	7.7 - 180	> 180 - 200
125	PN 16	5"	500	286	200		1.7 - 6.7	6.8 - 80	1.7 - 6.7	6.8 - 135	> 135 - 150
150	PN 16	6"	550	330	225		1.9 - 11.9	12 - 100	1.7 - 11.9	12 - 150	-

Indicated weights are understood without weight load and refer to the standard design

Higher settings on request!

### Example for order

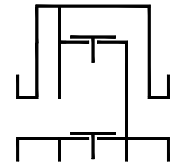
**KITO® VDT-50**  
(design with flange connection DN 50 PN 16)

**Without EC certificate and CE-marking**

## Type sheet

### In-line pressure and vacuum relief valve

#### KITO® VD/T-...



#### Design

	standard	optionally
housing / cover	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
valve seat, valve spindle	stainless steel mat. no. 1.4571	
valve seat seal (o-ring)	VMQ-FEP	Viton, NBR, VMQ-PFA
load weight	stainless steel mat. no. 1.4571	PE
valve sealing	NBR	Viton, PTFE, EPDM, metal sealing
		<i>≥ 100 mbar only PTFE or metal sealing</i>
flange connection	EN 1092-1 type A	ASME B16.5 Class 150 RF

#### Performance curves

Flow capacity  $V$  based on air of a density  $\rho = 1.29 \text{ kg/m}^3$  at  $T = 273 \text{ K}$  and atmospheric pressure  $p = 1.013 \text{ mbar}$ . For other gases the flow can be approximately calculated by

$$\dot{V}_{40\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{or} \quad \dot{V}_b = \dot{V}_{40\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 40% above valve's setting (see DIN 4119).  
If the allowable overpressure is less 40%, please consult der factory for the corrected volume flow.

