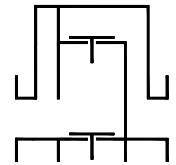


Type sheet

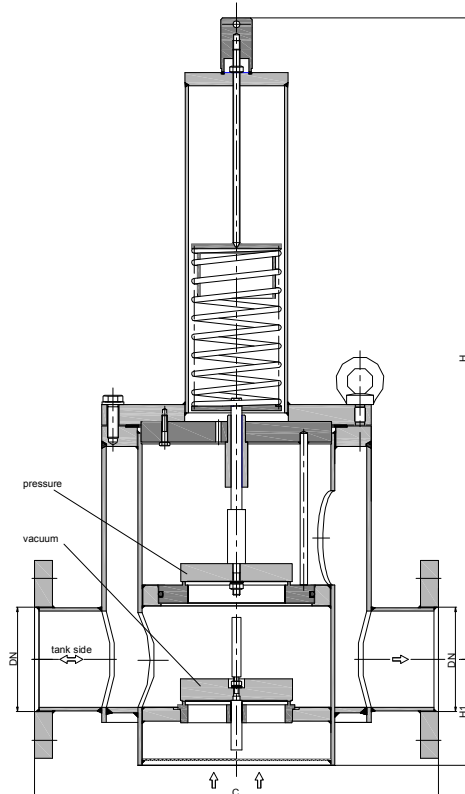
In-line pressure and vacuum relief valve
KITO® VD/T-1-...



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	ASME	C	H	H1	kg	vacuum		setting	
						min.	max.	min.	max.
25 PN 40	1"	240	400	60		6	93	>200	350
32 PN 40	1 ¼"	240	395	65		6	91		
40 PN 40	1 ½"	350	452	92		6	158		
50 PN 16	2"	350	463	77		6	154		
65 PN 16	2 ½"	350		85		7	105		
80 PN 16	3"	350	685	100		7	100		
100 PN 16	4"	450	707	125		7	140	>150	
125 PN 16	5"	500	920	200		7	140		
150 PN 16	6"	550	965	225		8	150		

*Indicated weights are understood without weight load and refer to the standard design
 Lower settings see KITO® VD/T-... (type sheet F 33 N), higher settings on request*

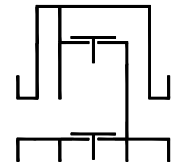
Example for order

KITO® VD/T-1-50
 (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-1-...



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	metal sealing	
valve pallet (pressure)	spring loaded	
valve pallet (vacuum)	weight loaded	
spring loaded parts	stainless steel mat. no. 1.4571	
compression spring	stainless steel	
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.

