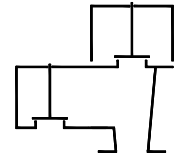


Type sheet

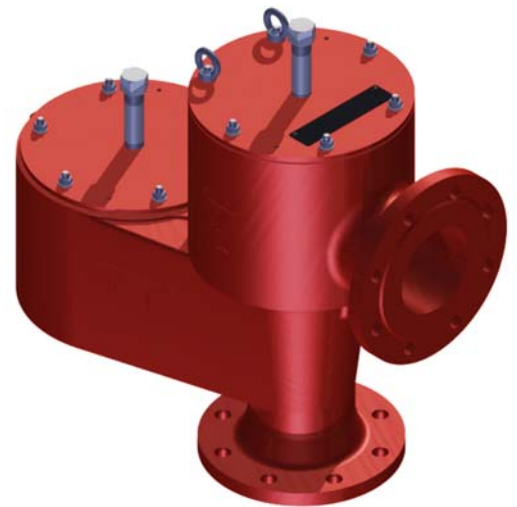
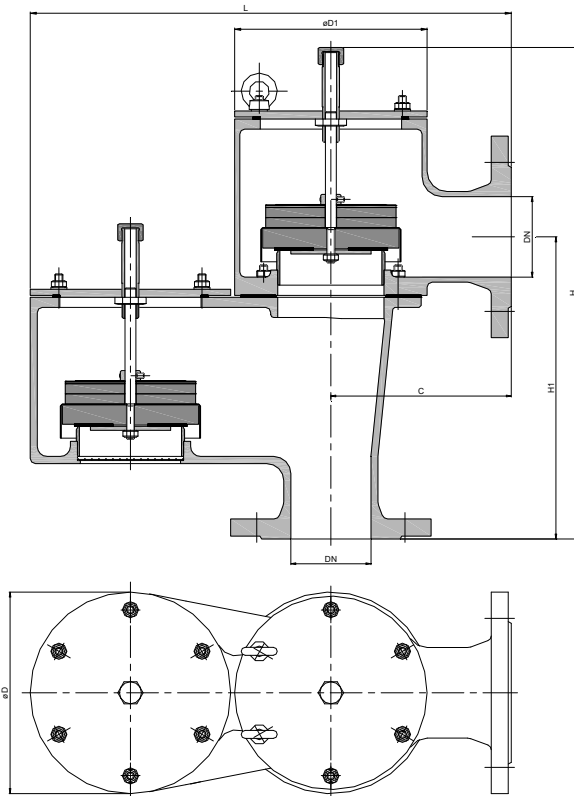
Pressure and vacuum relief valve
KITO® VD/oG-PA-...



Application

As end-of-line armature, for venting apertures on tank installations. Used mainly as venting and breather device for fixed roof tanks. Used to prevent inadmissible pressure and vacuum and to minimize unwelcome gas losses or inadmissible emissions respectively. The housing is mounted perpendicularly on a tank roof. The product vapours can be discharged through a collective line into the atmosphere connected to the line flange on the pressure side.

Dimensions (mm) and settings (mbar)



DIN	DN		C	D	D1	H	H1	L	kg	setting	
	ASME									vacuum	pressure
50 PN 16	2"		150	165	165	389	240	405	23	2-60	2-60
80 PN 16	3"		180	200	192	487	300	480	33		
100 PN 16	4"		200	250	240	547	330	600	48		
150 PN 16	6"		250	350	350	655	390	805	101		
200 PN 10	8"		300	400	390	775	480	925	140		
250 PN 10	10"		305	460	460	875	555	1010	193		
300 PN 10	12"		305	460	460	875	582	1010	201		

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

Example for order

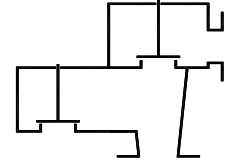
KITO® VD/oG-PA-50
 (design DN 50 with flange connection DN 50 PN 16)

Without EC certificate and CE-marking

Type sheet

Pressure and vacuum relief valve

KITO® VD/oG-PA-...



Design

	standard	optionally
housing	cast steel mat. no. 1.0619	stainless cast steel mat. no. 1.4408
housing upper part (PN 1)	cast steel mat. no. 1.0619	stainless cast steel mat. no. 1.4408
cover	steel	stainless steel mat. no. 1.4301
gasket	PTFE	
valve seat	stainless steel mat. no. 1.4571	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF

Design valve pallet

design	pressure range I 2 - < 3.5 mbar	pressure range II ≥ 3.5 - 14 mbar	pressure range III > 14 - 35 mbar	pressure range IV > 35 - 60 mbar
pallet	aluminum	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571
valve spindle	aluminum / stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571
valve sealing	FEP & HD3822	FEP & HD3822	PTFE	PTFE

Performance curves

Flow capacity \dot{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

$$\dot{V}_{20\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{or} \quad \dot{V}_b = \dot{V}_{20\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 20 % above valve's setting. If the allowable overpressure is less 40%, please consult der factory for the corrected volume flow.

