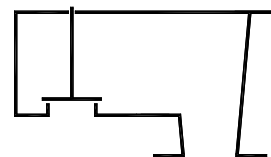


Type sheet

Vacuum relief valve

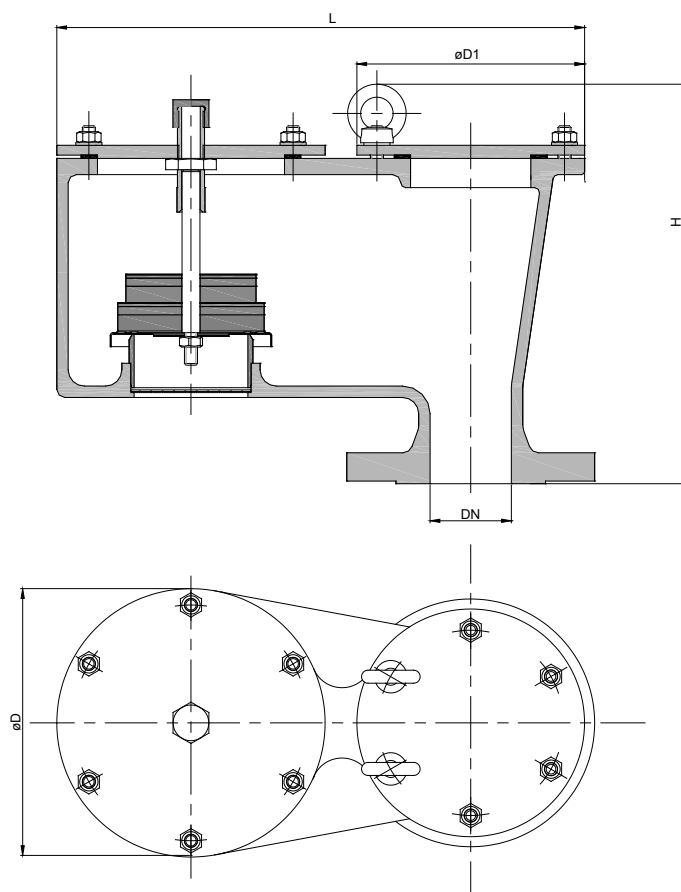
KITO® VS/oG-...



Application

As end-of-line armatures, for venting apertures on tank installations for ventilation and to prevent inadmissible vacuum. Usually mounted on top of a tank. The valve is not explosion-proof, thus cannot be used for flammable media.

Dimensions (mm) and settings (mbar)



DN	ASME	D	D1	H	L	setting	kg
50 PN 16	2"	165	140	246	325	2 – 60	
80 PN 16	3"	200	180	313	390		
100 PN 16	4"	250	210	359	505		
150 PN 16	6"	350	315	444	713		
200 PN 10	8"	400	365	521	808		
250 PN 10	10"	460	440	589	925		
300 PN 10	12"	460	440	589	925		

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

Example for order

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

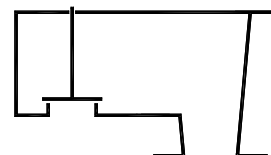
Without EC certificate and CE-marking



Type sheet

Vacuum relief valve

KITO® VS/oG-...



Design

	standard	optionally
housing	cast steel 1.0619	stainless cast steel mat. no. 1.4408, aluminum (DN 100/4"-300/12")
cover	steel	stainless steel mat. no. 1.4301, aluminum (DN 100/4"-300/12")
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 1.4571	stainless steel 1.4571	stainless steel 1.4571
valve spindle	aluminum / stainless steel 1.4571	stainless steel 1.4571	stainless steel 1.4571	stainless steel 1.4571
valve sealing	FEP & HD3822	FEP & HD3822	PTFE	PTFE

Performance curves

The flow capacity $\dot{V}$ refers to a density of air with $\rho = 1.29 \text{ kg/m}^3$ at a temperature of 273 K and a pressure of 1.013 mbar. The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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

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

