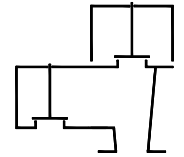


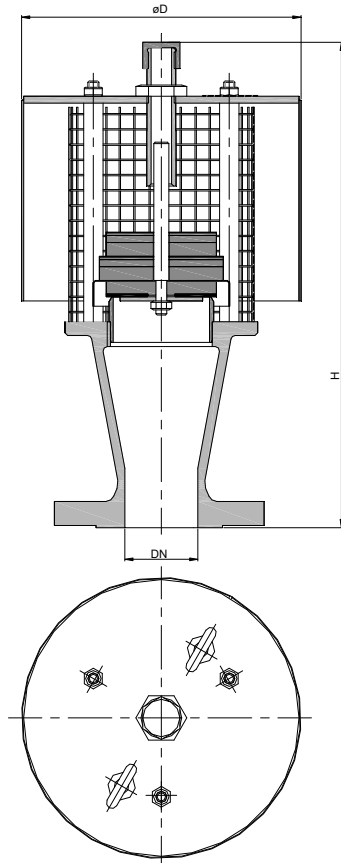
Type sheet
Pressure relief valve
KITO® DS/oG-...



Application

As venting device for installation on storage tanks with a PRV to protect against hazardous excess pressure but minimize the loss of gas/vapours. This device does not protect against the hazard of explosion or stabilized burning. The housing is mounted perpendicularly on a tank roof.

Dimensions (mm) and settings (mbar)



DIN	DN	ASME	D	H	setting	kg
50 PN 16		2"	200	366	2-60	9
80 PN 16		3"	295	417		13
100 PN 16		4"	295			
125 PN 16		5"				
150 PN 16		6"	465			
200 PN 10		8"	500	631		47
250 PN 10		10"	650			
300 PN 10		12"	650			

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

Example for order

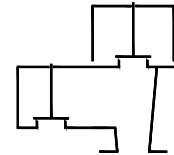
KITO® DS/oG-50
 (design DN 50 with flange connection DN 50 PN 16)

Without EC certificate and €-marking

Type sheet

Pressure relief valve

KITO® DS/oG-...



Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
valve seat	stainless steel mat. no. 1.4571	
weather hood	stainless steel mat. no. 1.4301	
protective screen	stainless steel mat. no. 1.4301	
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 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 20%, please consult der factory for the corrected volume flow.

