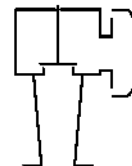# KITO Armaturen GmbH

Type sheet
Pressure relief valve
KITO® DS/oG-PA-… DE

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)
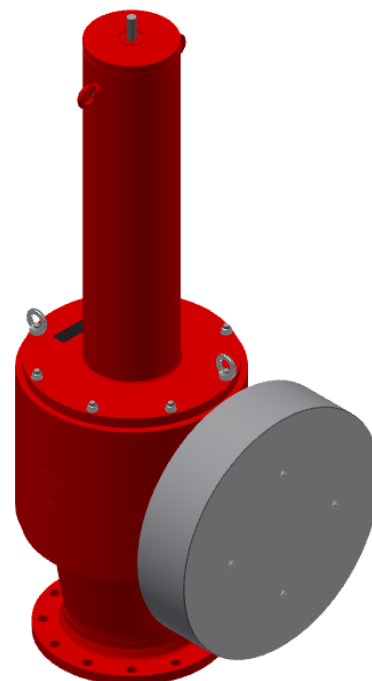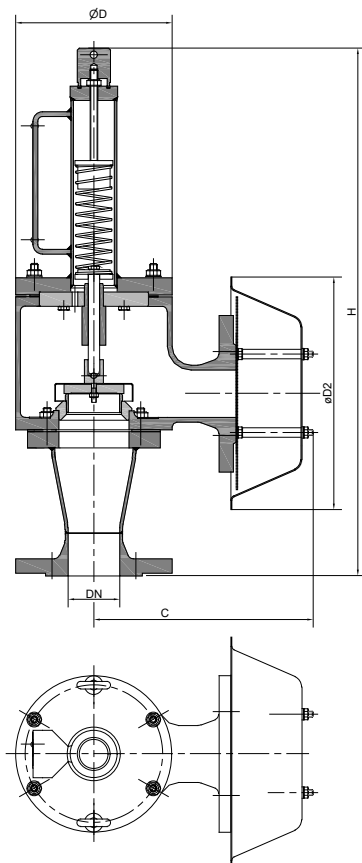
DN		C	D	H		kg	setting
DIN	ASME			DIN	ASME		
50 PN 16	2"	230	165	556	575		
80 PN 16	3"	320	200	691	713		
100 PN 16	4"	340	250	852	884		
150 PN 16	6"	405	350	1107	1141		>60-415
200 PN 10	8"	455	400	1311	1351		
250 PN 10	10"	460	460	1420	1454		
300 PN 10	12"	460	460	1420	1467		

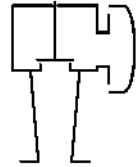*Indicated weights are understood without weight load and refer to the standard design*

Example for order

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

Without EC certificate and C€-marking

KITO Armaturen GmbH

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

Design

	standard	optionally
housing upper part (PN 1)	cast steel mat. no. 1.0619	stainless cast steel mat. no. 1.4408
housing lower part	steel	stainless steel mat. no. 1.4571
cover	steel	stainless steel mat. no. 1.4301/1.4571
gasket	PTFE	
design valve pallet	spring loaded	
valve seat	stainless steel mat. no. 1.4571	
valve pallet / valve spindle	stainless steel mat. no. 1.4571	
valve sealing	metal sealing	
spring loaded parts	stainless steel mat. no. 1.4571	
compression spring	stainless steel	
weather hood	stainless steel	
protective screen	stainless steel mat. no. 1.4301	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF

Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

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

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