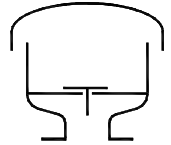




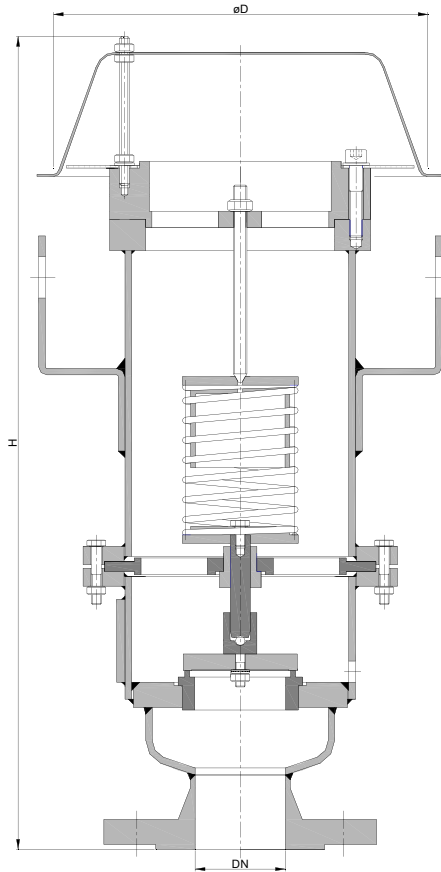
## Type sheet Pressure relief valve KITO® DS/o-1-...



### Application

As venting device for installation on storage tanks with a VRV 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.

### Dimensions (mm) and settings (mbar)



DIN	DN	ASME	D	DIN	H	ASME	kg	setting	
								min.	max.
25 PN 40		1"	220	485		504	16	>200	350
50 PN 16		2"	220	490		509	22		
80 PN 16		3"	306	716		736	42		
100 PN 16		4"	306	804		828		>150	
125 PN 16		5"	380						
150 PN 16		6"	380	1063		1096			
200 PN 10		8"	450					>100	
250 PN 10		10"	650	1238		1272	206		

Weight refers to the standard design

Lower settings see KITO® DS/o-... (type sheet C 8.1 N), higher settings on request

### Example for order

**KITO® DS/o-1-25**  
(design with flange connection DN 25 PN 40)

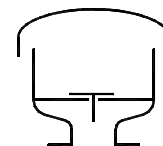
**Without EC certificate and CE-marking**



## Type sheet

### Pressure relief valve

#### KITO® DS/o-1-...



### Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
valve pallet	spring loaded	
valve seat, 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	PA6, from DN 80 stainless steel mat. no. 1.4301	from DN 80 stainless steel mat. no. 1.4571
flange connection	EN 1092-1 type B1	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.

