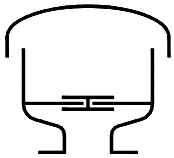
KITO Armaturen GmbH

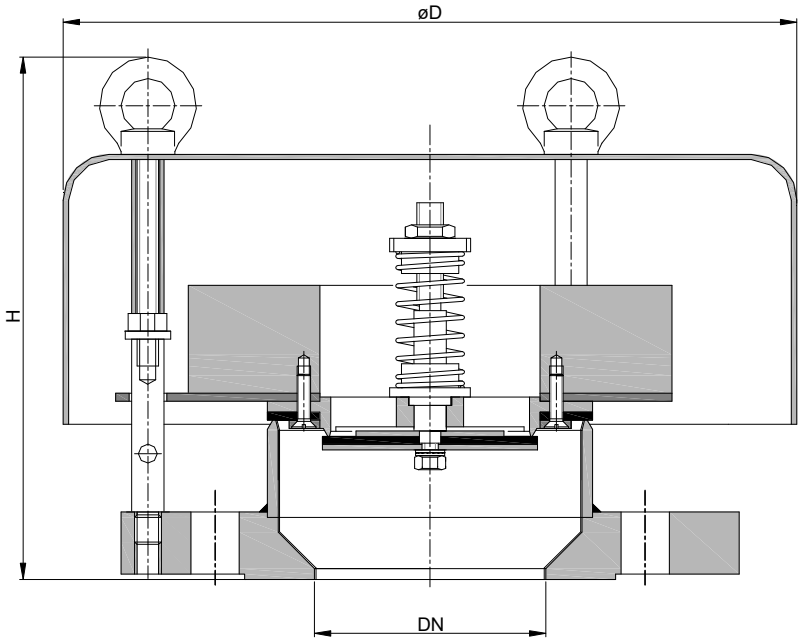
Type sheet
Pressure and vacuum relief valve
KITO® VD/oP-…



Application

As end-of-line armature on storage tanks and silos in which powder products and granulates are stored. Used as venting and breather device to prevent inadmissible pressure or vacuum. All moving parts are outside the storage room.

Dimensions (mm) and settings (mbar)



DN		D	H	kg	vacuum	pressure
DIN	ASME					
50 PN 16	**2“**	260	180	6.5	3-50	12,5 - 84
80 PN 16	**3“**	340	220	11.5		12 - 123
100 PN 16	**4“**	340	225	13.5		13 - 105
125 PN 16	**5“**	295	245	16		11,5 - 92
150 PN 16	**6“**	410	320	29		10 - 47
200 PN 10	**8“**	410	360	37		10 - 52
250 PN 10	**10“**	550	465	81		14 - 82
300 PN 10	**12“**					
350 PN 10	**14“**					

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

Different settings on request !

Example for order

KITO® VD/oP-80
(design with flange connection DN 80 PN 16)

Without EC certificate and CE-marking

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E 17.4 N
Date: 07-2022
Created: Abt. Doku KITO
Design subject to change

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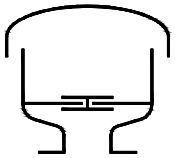


Design

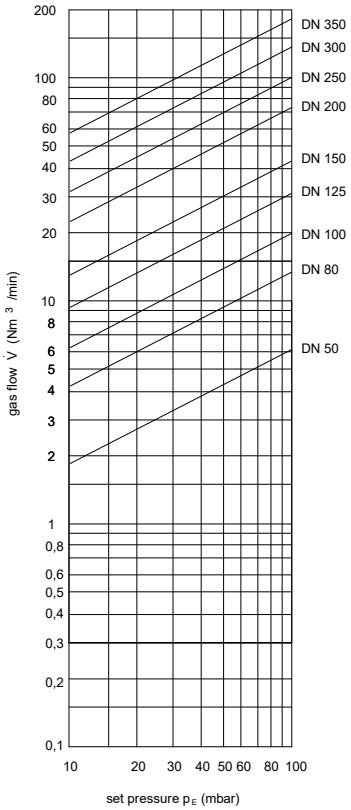
	standard	optionally
housing	steel *(valve face stainless steel mat. no 1.4571)*	stainless steel mat. no. 1.4571
inner faces of the housing	coated with PTFE	
valve seat, valve spindle	stainless steel mat. no. 1.4571	
load weight	stainless steel mat. no. 1.4571	
valve sealing	NBR	Viton, PTFE, EPDM
	≥ 100 mbar only PTFE or metal sealing (valve pallet for pressure)	
valve pallet (vacuum)	spring loaded	
valve pallet (pressure)	weight loaded	
weather hood	stainless steel	
flange connection	drilled to EN 1092-1 PN 40 type B1	drilled to ASME B16.5 Class 150 RF
	(threaded holes for stud bolts at DN 150 - 250)	

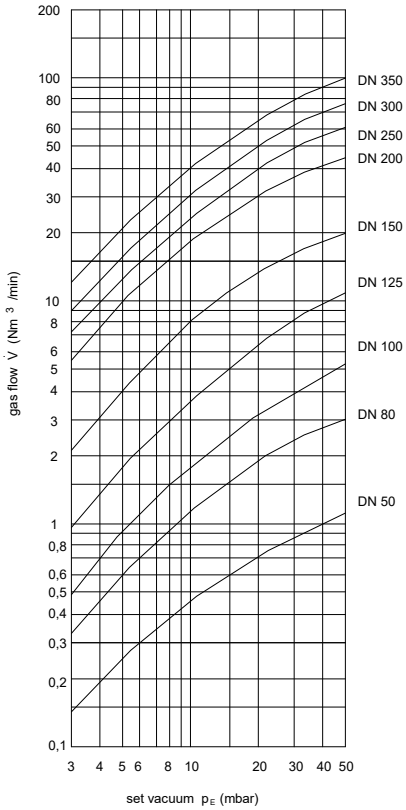
Performance curves

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

$$\dot{V}_{40\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \qquad or \qquad \dot{V}_b = \dot{V}_{40\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

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.





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