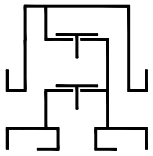
KITO Armaturen GmbH

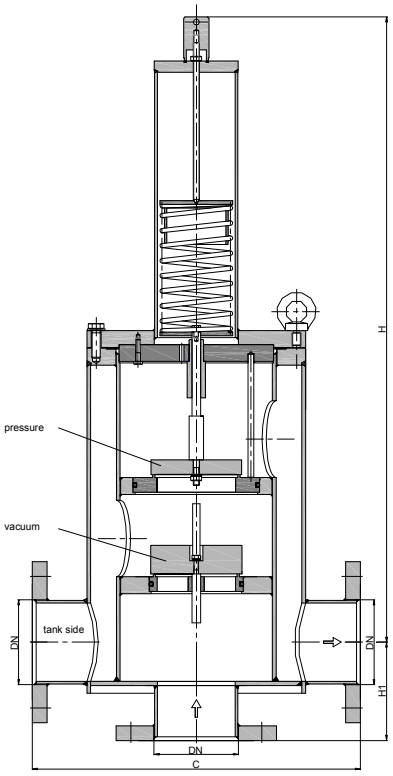
Type sheet
In-line pressure and vacuum relief valve
KITO® VD/TL-1-…

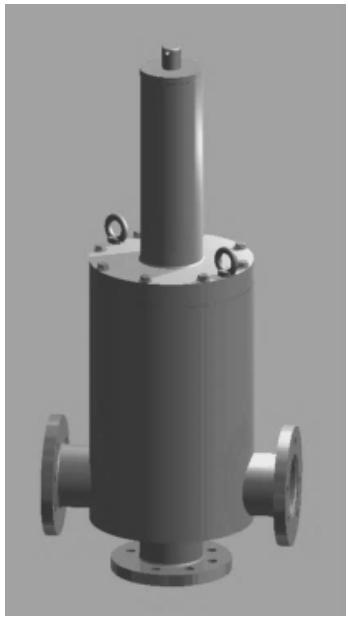


Application

As inline armature, with venting and breather valve function for vessels, used preferably for installations in pipes. The exhaust air is carried away via a pipe. The ventilation is also effected via a pipe, which is preferably used to carry inert gas. Functions the same as KITO® VD/o3-… (type sheet F 18 N).

Dimensions (mm) and settings (mbar)





Construction length C can be adapted to customers wish to local situation.

DN		C	H	H1	kg	setting			
						vacuum		pressure	
DIN	ASME					min.	max.	min.	max.
25 PN 40	**1“**	240	464	90		6	93		
32 PN 40	**1 ¼“**	240	560	90		6	91		
40 PN 40	**1 ½“**	350	563	120		6	158		
50 PN 16	**2“**	350	563	120		6	154	>200	
65 PN 16	**2 ½“**	350		120		7	105		350
80 PN 16	**3“**	350	934	130		7	100		
100 PN 16	**4“**	450	943	150		7	140		
125 PN 16	**5“**	500		160		7	140	>150	
150 PN 16	**6“**	550		180		8	150		

Indicated weights are understood without weight load and refer to the standard design
Lower settings see KITO® VD/TL-… (type sheet F 32 N), higher settings on request

Example for order

KITO® VD/TL-1-50
(design with flange connection DN 50 PN 16)

Without EC certificate and CE-marking

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F 32.1 N
Date: 05-2018
Created: Abt. Doku KITO
Design subject to change

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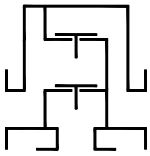


Design

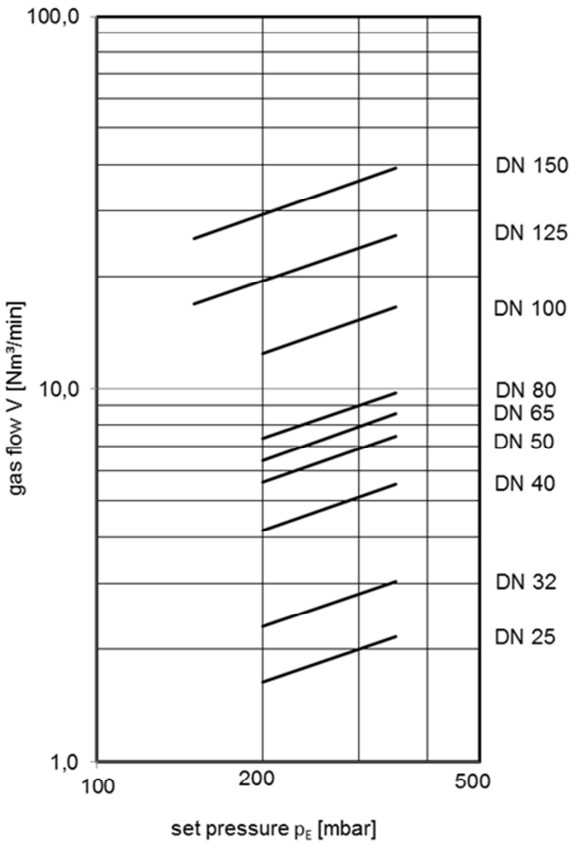
	standard	optionally
housing / cover	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
valve seat, valve spindle	stainless steel mat. no. 1.4571	
valve seat seal (o-ring)	VMQ-FEP	Viton, NBR, VMQ-PFA
load weight	stainless steel mat. no. 1.4571	PE
valve sealing	metal sealing	
valve pallet (pressure)	spring loaded	
valve pallet (vacuum)	weight loaded	
spring loaded parts	stainless steel mat. no. 1.4571	
compression spring	stainless steel	
flange connection	EN 1092-1 type A	ASME B16.5 Class 150 RF

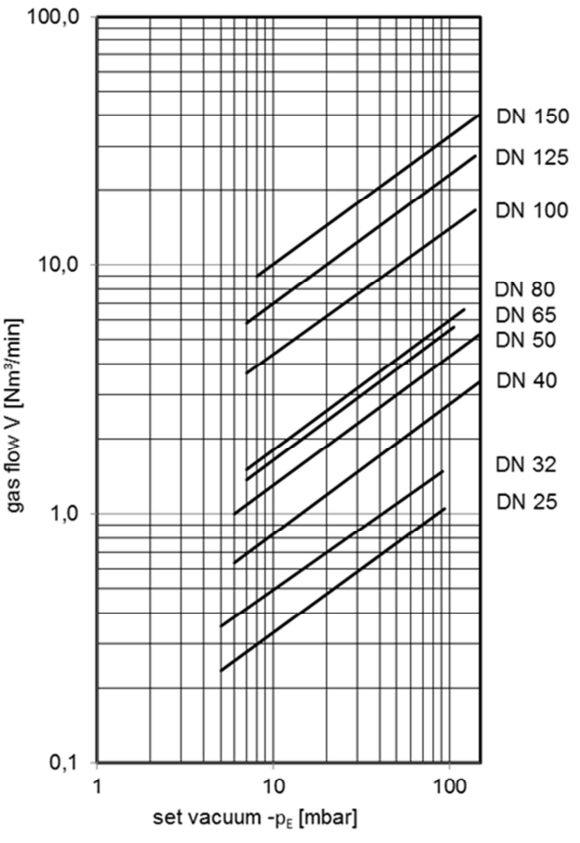
Performance curves

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

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

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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