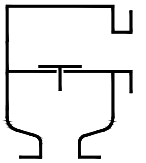
KITO Armaturen GmbH

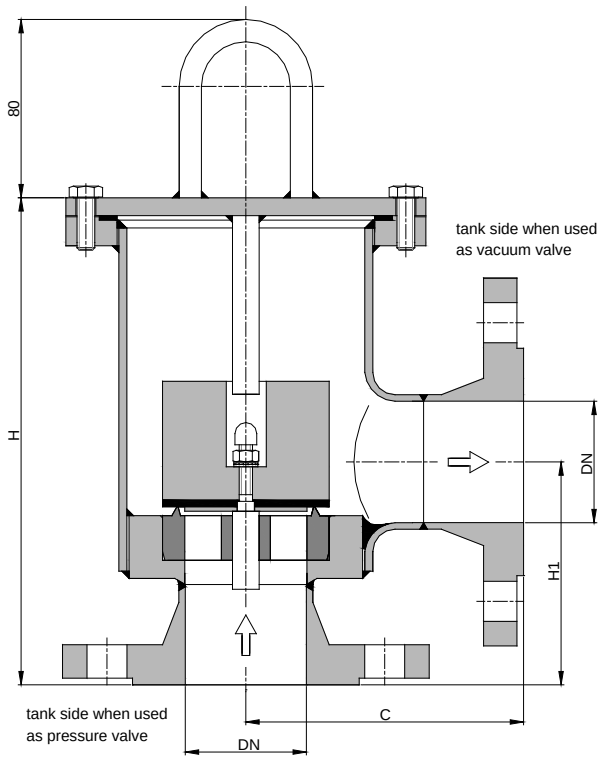
Type sheet
In-line pressure or vacuum relief valve
KITO® VD/Sc-…



Application

As inline armature, for venting or breathing of vessels but preferably for installations in pipe. Depending on the mounting position the valve can be used as pressure or as vacuum valve. It can also be used as non-return armature or overflow valve. Same function as KITO® VD/TA-…, see type sheet F 30 N.

Dimensions (mm) and settings (mbar)



Installation dimensions are only partly identical to the old construction according to type sheet F61 page 1. Construction length C and H1 can be adapted to customers wish to local situation.

DN		C		H		H1		kg	setting		
DIN	ASME	DIN	ASME	DIN	ASME	DIN	ASME		min. - max. *(load weight from PE)*	min. - max.	min. - max. *(with housing extension)*
25 PN 40	**1”**	90	108	180	198	90	108	5.4	2.5 - 10.1	10.2 - 80	> 80 - 200
50 PN 16	**2”**	125	144	220	239	100	119	12	1.8 - 10.3	10.4 - 135	> 135 - 200
80 PN 16	**3”**	161	181	260	280	121	141	17	1.7 - 7.8	7.9 - 125	> 125 - 200
100 PN 16	**4”**	175	199	301	325	140	164	27	1.7 - 7.6	7.7 - 150	> 150 - 200
125 PN 16	**5”**	217	251	354	388	158	192		1.7 - 6.7	6.8 - 150	-
150 PN 16	**6”**	247	281	324	358	190	224	44	1.7 - 11.9	12.0 - 150	-
200 PN 10	**8”**	275	315	390	430	225	265		2.0 - 11.9	12.0 - 100	-

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

Higher settings see KITO® VD/Sc-1-… (type sheet F 61.1 N)

Example for order

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

Without EC certificate and CE-marking

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F 61 N
Date: 05-2018
Created: Abt. Doku KITO
Design subject to change

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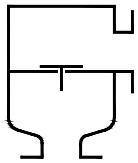
KITO® VD/Sc-…



Design

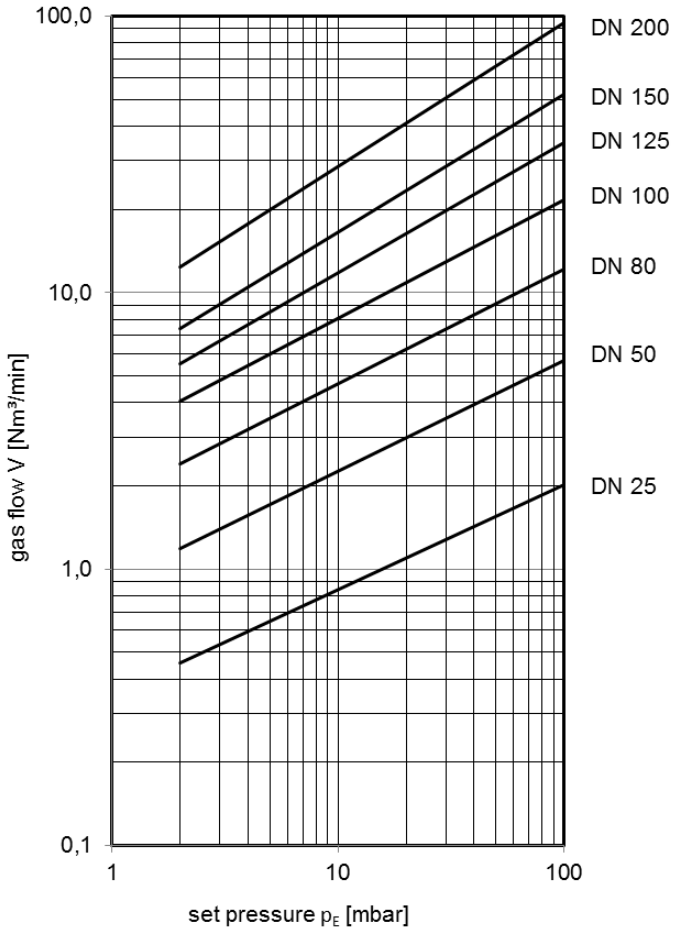
	standard	optionally
housing / cover	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
valve seat, valve spindle	stainless steel mat. no. 1.4571	
load weight	stainless steel mat. no. 1.4571	PE
valve sealing	NBR	Viton, PTFE, EPDM, metal sealing
	≥ 100 mbar only PTFE or metal sealing	
flange connection	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

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

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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