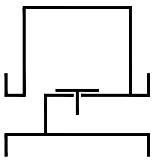
KITO Armaturen GmbH

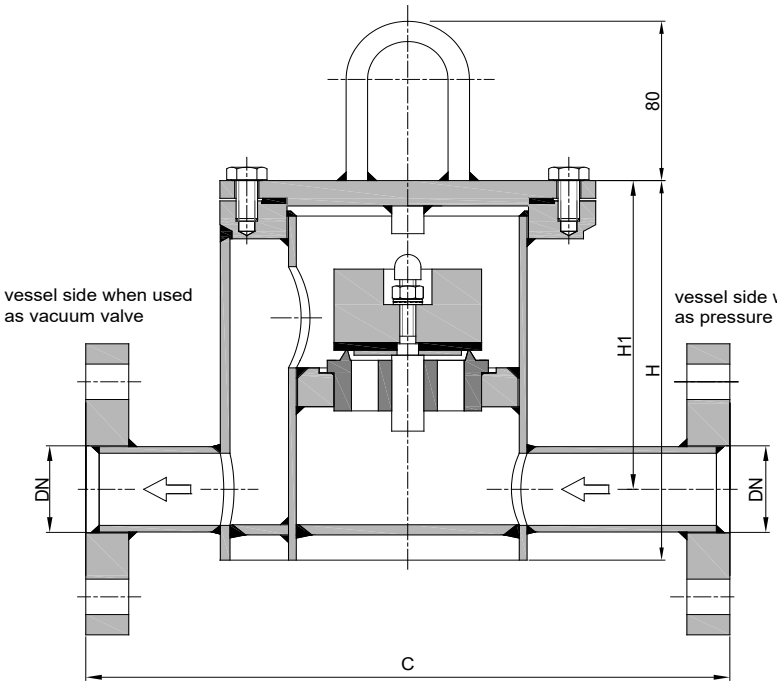
Type sheet
In-line pressure or vacuum relief valve
KITO® VD/TA-…

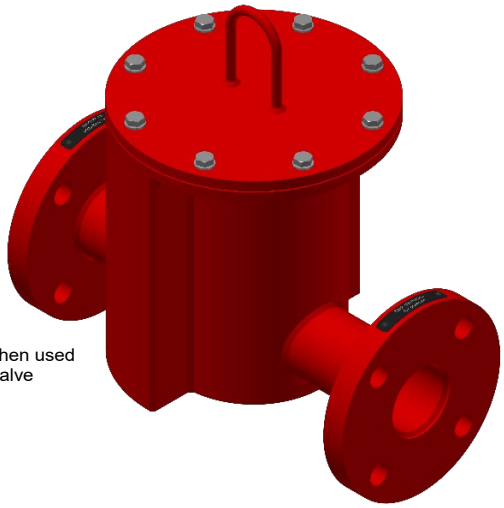


Application

as inline armature with venting or breather valve function for vessels. Preferably used for installation in pipes. Depending on the installation, the valve can be used as pressure or vacuum valve. It can also be used as non-return safety device or overflow valve.

Dimensions (mm) and settings (mbar)





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

DN DIN	DN ASME	C	H	H1	~kg	setting min. - max. *(load weight from PE)*	setting min. - max.	setting min. - max. *(with housing extension)*
25 PN 40	**1“**	240	153	125	10	2.5 - 10.4	10.5 - 86	> 86 - 200
32 PN 40	**1 ¼“**	240	167	134	12	2.5 - 10.4	10.5 - 82	> 82 - 200
40 PN 40	**1 ½“**	350	230	195	18	1,8 - 10.3	10.4 - 200	-
50 PN 16	**2“**	350	230	189	19	1.8 - 10.3	10.4 - 190	> 190 - 200
65 PN 16	**2 ½“**	350	245	196	20	1.7 - 7.4	7.5 - 165	> 165 - 200
80 PN 16	**3“**	350	303	247	25	1.7 - 7.8	7.9 - 165	> 165 - 200
100 PN 16	**4“**	450	342	272	30	1.7 - 7.6	7.7 - 180	> 180 - 200
125 PN 16	**5“**	500	394	310	35	1.7 - 6.7	6.8 - 150	-
150 PN 16	**6“**	550	455	357	42	1.7 - 11.9	12 - 150	-

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

Higher settings see KITO® VD/TA-1-… (type sheet F 30.1 N)

Example for order

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

Without EC certificate and CE-marking

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F 30 N
Date: 06-2023
Created: Abt. Doku KITO
Design subject to change

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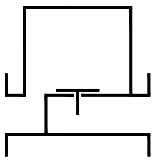


Design

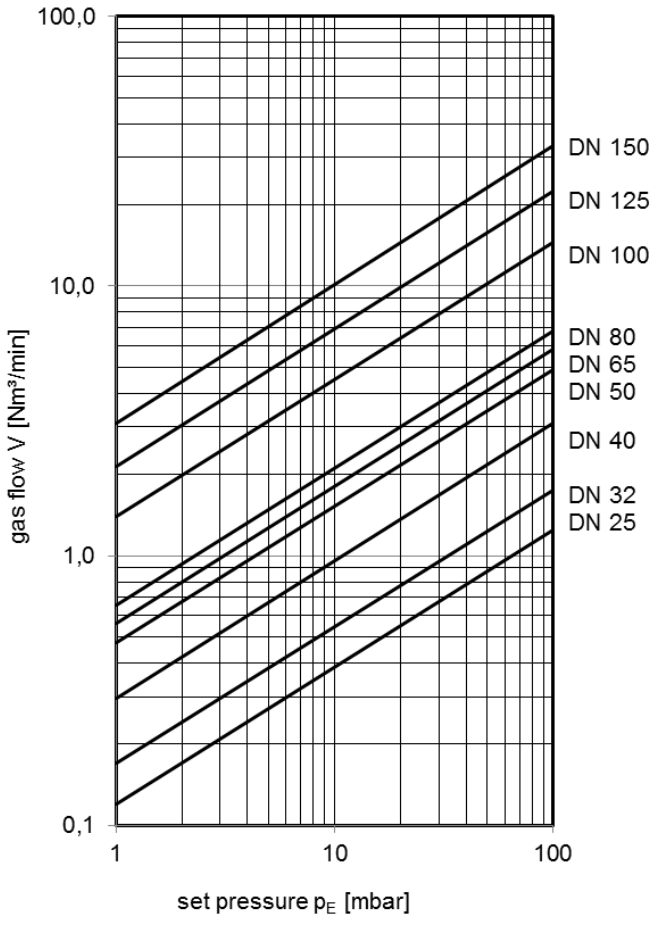
	standard	optionally
housing / cover	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
valve seat, valve spindle	stainless steel mat. no. 1.4571	
load weight	stainless steel mat. no. 1.4571	PE
valve sealing	NBR	Viton, PTFE, EPDM, metal sealing
	≥ 100 mbar only PTFE or metal sealing	
flange connection	EN 1092-1 type 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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