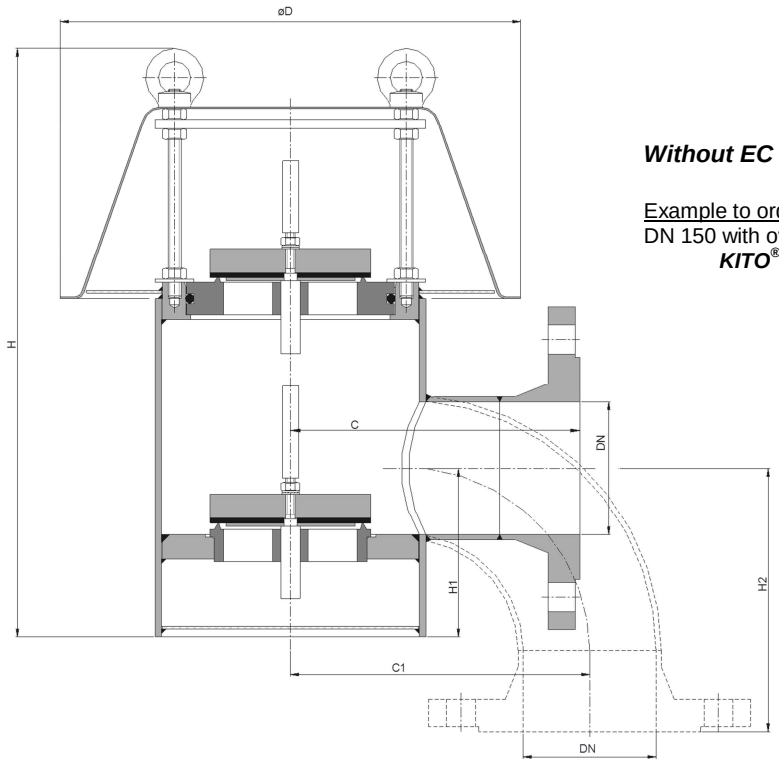
Combined Pressure / Vacuum Relief Valve
KITO® VD/OL



Without EC certificate and CE-designation

Example to order:
DN 150 with overpressure pallet DN 80:
KITO® VD/OL 150/80

DN	ANSI	D	H	H1	H2	C	C1	kg*	setting (mbar) vacuum min.	vacuum max.	pressure sizes	pressure min.	pressure max.
50 PN 16	2“	285	326	77	120	174	140	11	2.0	55	DN 25	2.9	150
											DN 50	2.0	110
80 PN 16	3“	285	365	105	165	180	186	16	1.7	60	DN 50	2.3	150
											DN 80	1.8	80
100 PN 16	4“	320	395	126	204	200	248	21	1.6	65	DN 50	2.5	170
											DN 80	1.9	95
											DN 100	1.6	85
125 PN 16	5“	405	450	152	244	245	291	30	1.6	80	DN 50	2.5	180
											DN 80	1.9	95
											DN 100	1.6	85
											DN 125	2.0	70
150 PN 16	6“	405	469	160	285	245	340	40	1.8	80	DN 50	2.5	190
											DN 80	1.9	120
											DN 100	1.6	120
											DN 150	2.0	90
200 PN 10	8“	465	573	217	365	290	533	58	2.1	90	DN 80	1.9	100
											DN 100	1.6	110
											DN 150	2.0	80
											DN 200	2.1	55
250 PN 10	10“	600	650	248	449	350	645	89	2.3	100	DN 100	1.6	115
											DN 150	2.0	100
											DN 200	2.1	65
											DN 250	2.3	55

Dimensions in mm

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

Standard valve setting 7-30 mbar -different settings against additional price-

Design subject to change

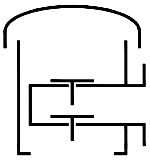
performance curves: …

Standard design

housing	: steel, stainless steel mat. no. 1.4571
valve seats / spindles	: stainless steel mat. no. 1.4571
valve seals	: NBR, Viton, PTFE
weather hood	: stainless steel mat. no. 1.4301, 1.4571
protective screen	: stainless steel mat. no. 1.4301, 1.4571
flange connection	: DIN EN 1092-1 form B1, ANSI 150 lbs. (lateral or vertical)

Application

as end-of-line armature, for venting apertures on tank installations. Used mainly as venting and breather device for fixed roof tanks. Used to prevent inadmissible pressure and vacuum and to minimize unwelcome gas losses or inadmissible emissions respectively. The housing is mounted perpendicularly on a tank roof.



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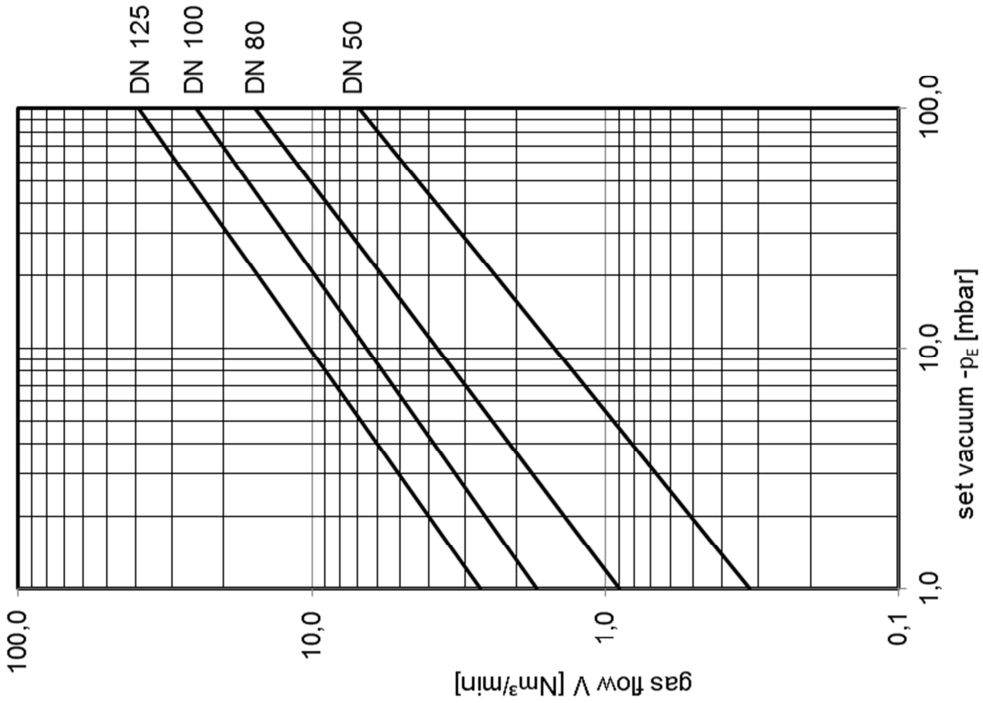
E 17.10 N

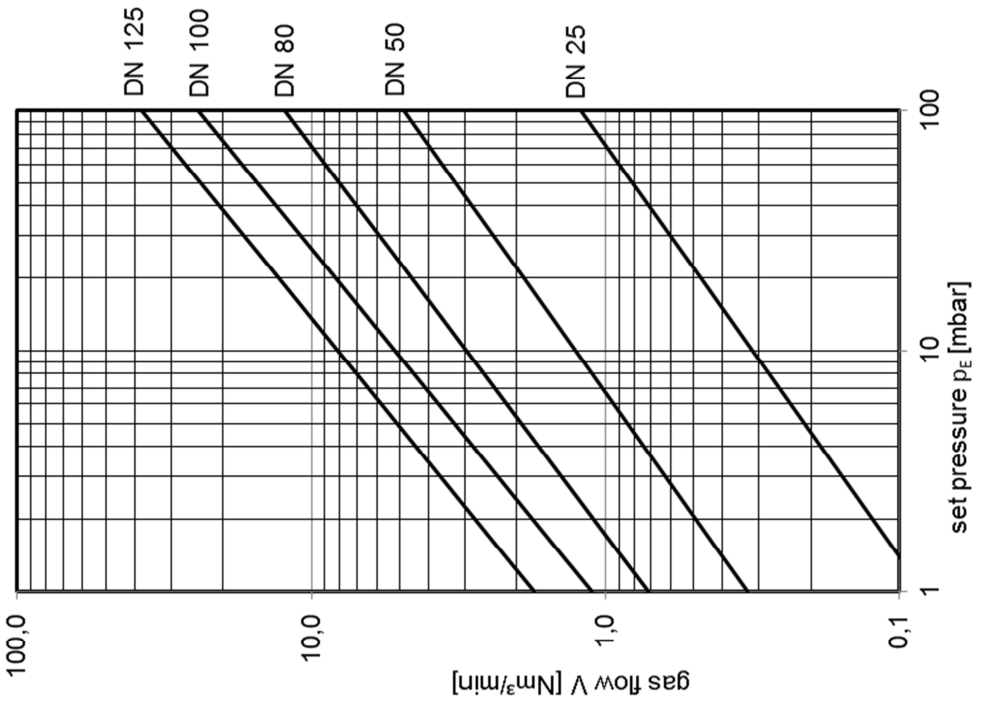
The flow capacity V refers to a density of air with ρ = 1.29 kg/m³ at a temperature of 273 K and a pressure of 1.013 mbar.
The indicated flow rates will be reached by an accumulation of 40% above valve's setting.

The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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

Indicated flow rates will be reached by an accumulation of 40% above valve's setting.





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