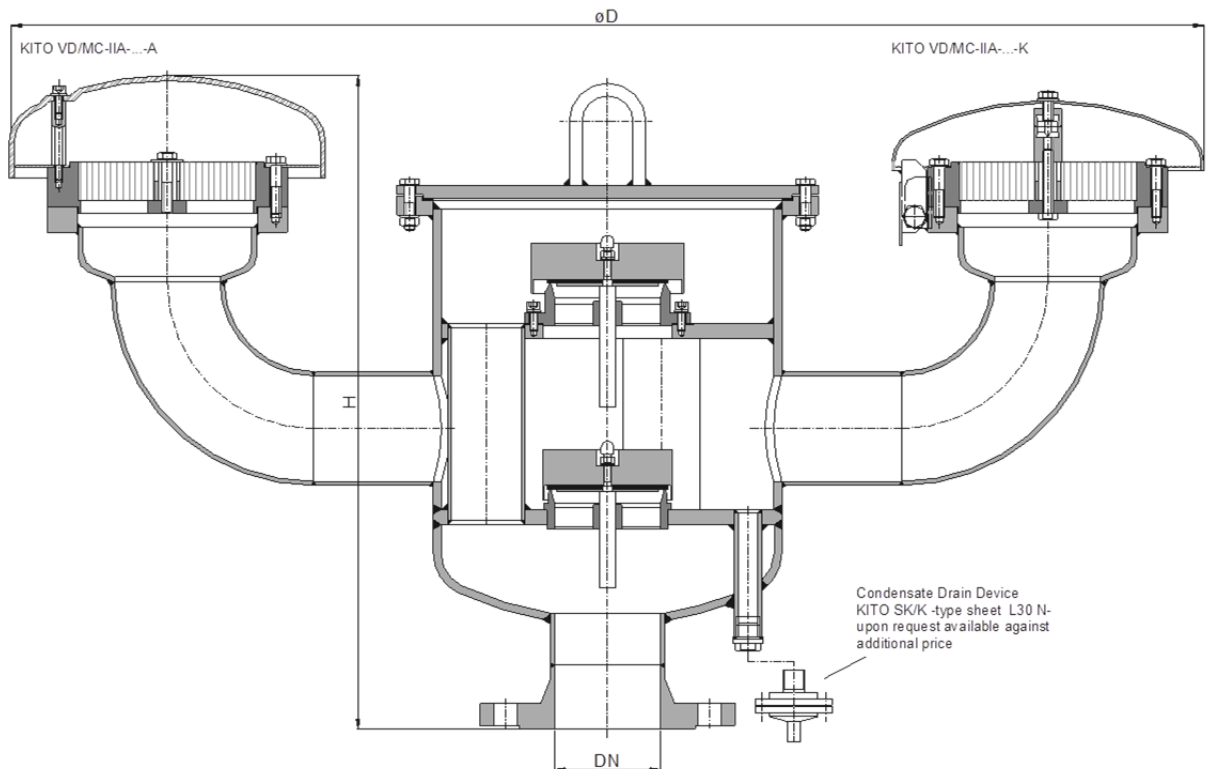
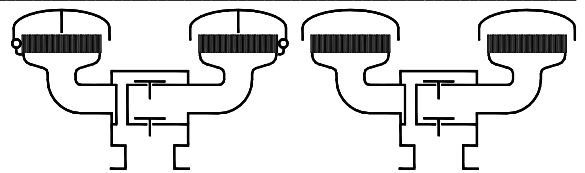


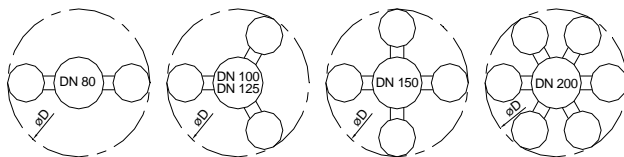
Combined Pressure / Vacuum Relief Valve

KITO® VD/MC-IIA-...-A

KITO® VD/MC-IIA-...-K



Arrangement of the KITO® flame arrester elements



standard valve setting 10-30 mbar
-different settings against additional price-

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

Type examination certificate to DIN EN ISO 16852 and $\text{C} \text{E}$ -designation in accordance to ATEX-Guideline 94/9/EC

DN		D	H	number of KITO® flame arrester elements	setting (mbar)		kg*	
DIN	ANSI				pressure min. - max.	vacuum min. - max.		
80	PN 16	3"	940	500	2	1.8 - 100,0	2.9 - 60,0	58
100	PN 16	4"	1054	530	3	1.7 - 100,0	2.5 - 70,0	110
125	PN 16	5"						
150	PN 16	6"	1234	535	4	2.1 - 110,0	2.9 - 60,0	
200	PN 10	8"	1634	680	6	2.1 - 105,0	2.9 - 65,0	235

Dimensions in mm

Design subject to change

Standard design

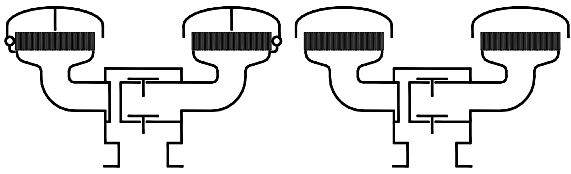
- housing : steel, stainless steel mat. no. 1.4571
- gasket : HD 3822, PTFE
- valve seats / spindles : stainless steel mat. no. 1.4571
- design valve pallet : orifice plate
- valve seals : NBR, Viton, PTFE
- KITO® flame arrester element : completely interchangeable
- KITO® casing / grid : stainless steel mat. no. 1.4308 / 1.4310, 1.4408 / 1.4571
- weather hood :
 - KITO® VD/MC-IIA-...-K: stainless steel mat. no. 1.4571, hood can fold automatically as a result of folding mechanism and fusing element
 - KITO® VD/MC-IIA-...-A: PMMA
- protective screen : PA6
- flange connection : DIN EN 1092-1 form B1, ANSI 150 lbs. RF

Application

Installations, explosion-proof and endurance burning proof for certain flammable liquids of the explosion group IIA with a maximum experimental safe gap (MESG) > 0.9. As venting and breather device for fixed roof tanks to prevent inadmissible pressure and vacuum and to minimize gas losses by variable pressure setting of the weight-loaded and/or spring-loaded valve devices. Installation of an explosion-proof condensate drain device is possible.



performance curves: E 0.16.9 N



Combined Pressure / Vacuum Relief Valve
KITO® VD/MC-IIA-...-A
KITO® VD/MC-IIA-...-K
E 16.9 N

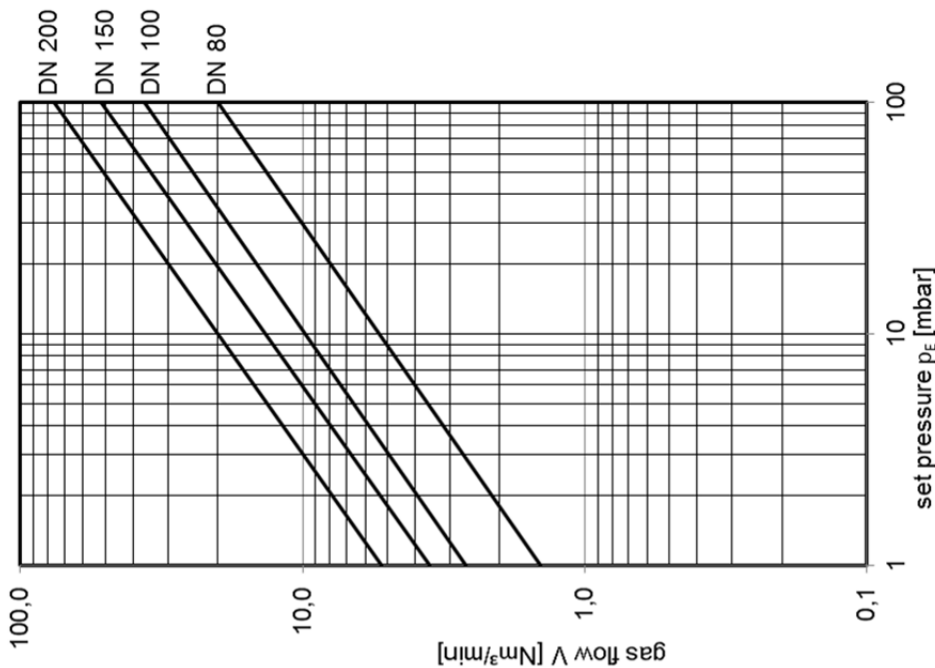
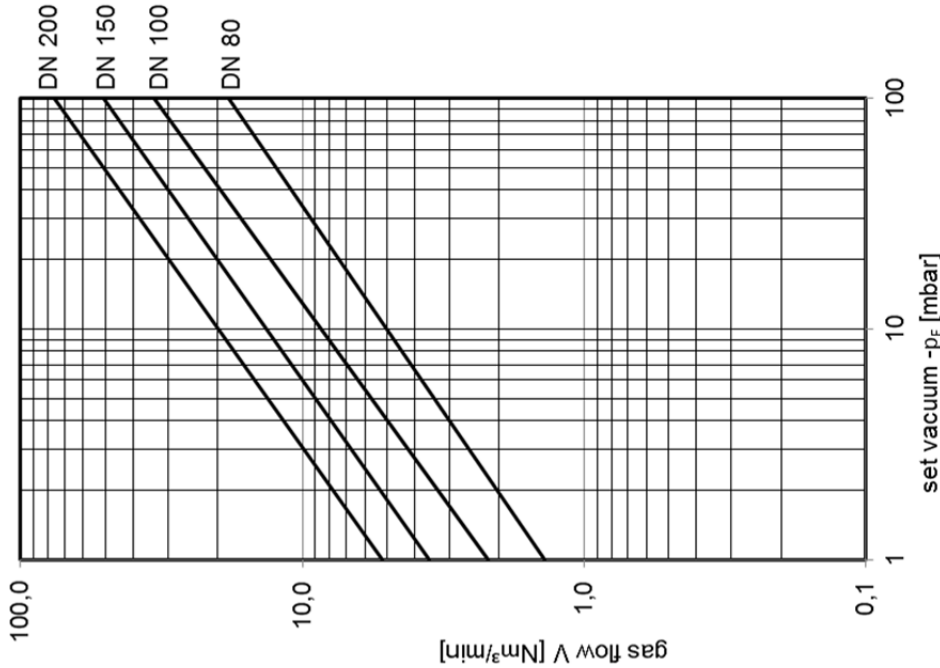
The flow capacity V refers to a density of air with $\rho = 1.29 \text{ kg/m}^3$.

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

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{resp.} \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

Indicated flow rates will be reached by an accumulation of 40% above valve's setting (see DIN 4119).

If different accumulations are required see sheet A 31 Bl.1 for correcting factor.



Design subject to change