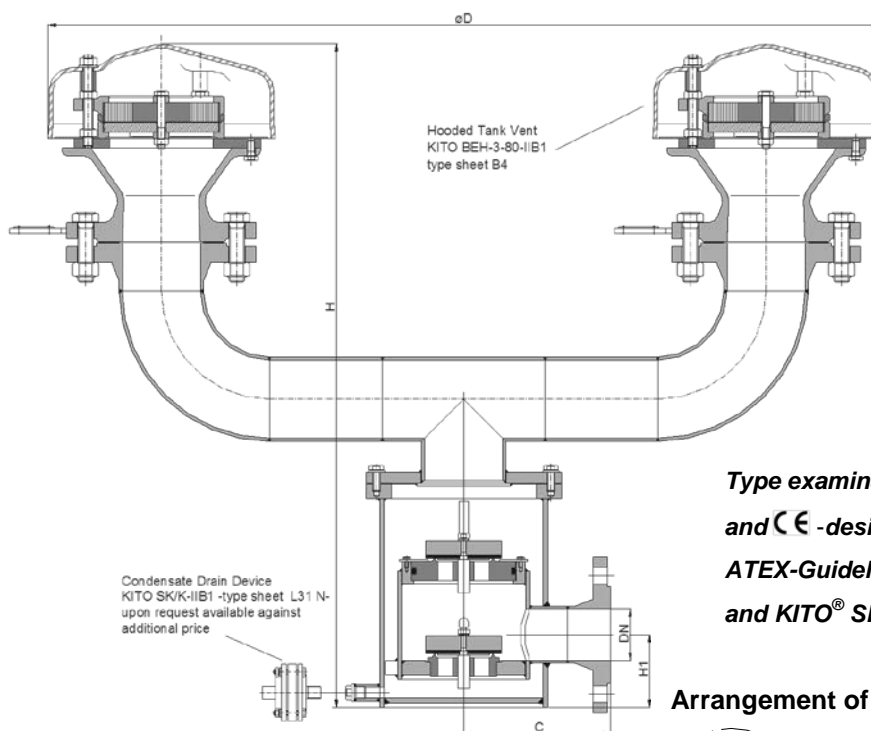
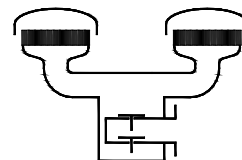
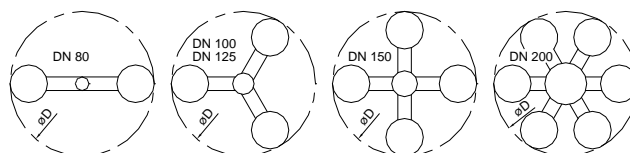


# Combined Pressure / Vacuum Relief Valve KITO® VD/MB-IIB1-...



Type examination certificate to DIN EN ISO 16852  
and CE -designation in accordance to  
ATEX-Guideline 94/9/EC for KITO® BEH-3-80-IIB1  
and KITO® SK/K-IIB1

### Arrangement of the KITO® flame arrester elements



**With additional examination and approval, applicable also for alcohols (ethanol, methanol...)**

DN		C	D	H	H1	number of BEH-3-80	kg*	setting (mbar)				
DIN	ANSI							vacuum		pressure		
								min.	max.	sizes	min.	max.
80	PN 16	3"	180	855	770	105	2	1.9	55	DN 50	2.8	110
										DN 80	2.3	40
100	PN 16	4"	190	950	785	124	3	1.8	45	DN 50	2.8	150
										DN 80	2.3	60
										DN 100	2.1	35
150	PN 16	6"	245	1110	860	160	4	2.4	60	DN 80	2.4	170
										DN 100	2.2	100
										DN 150	2.8	35
200	PN 10	8"	290	1470	950	215	6	2.2	55	DN 100	2.4	190
										DN 150	2.9	70
										DN 200	2.4	30

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: E 0.16.8.1 N

#### Standard design

housing (complete) : 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  
flange connection : DIN EN 1092-1 form B1, ANSI 150 lbs. RF

#### Design KITO® BEH-3-80-IIB1

housing : 1.0619, mat. no. 1.4408  
KITO® flame arrester element : completely interchangeable  
KITO® casing : mat. no. 1.4408  
KITO® grid : mat. no. 1.4310 / 1.4571  
weather hood : PMMA  
protective screen : PA6  
flange connection : DIN EN 1092-1 form B1, ANSI 150 lbs. RF

#### Application

End-of-line flame arrester. Explosion and endurance burning proof for all inflammable liquids and vapors of explosion group IIB1 and also for alcohols with a maximum experimental safe gap (MESG) ≥ 0.85 mm.  
This device is not permitted to be installed in enclosed areas.  
Installation on top of storage tanks, tank access covers or breather pipes.  
Used as venting and breather device for fixed roof tanks to prevent inadmissible pressure and vacuum and to minimize gas losses by variable pressure setting.  
An explosion proof condensate drain is also available for this model at extra cost.