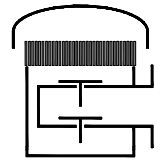


Type sheet

Deflagration and endurance burning proof pressure and vacuum relief valve
KITO® VD/KL-IIB1-.../...

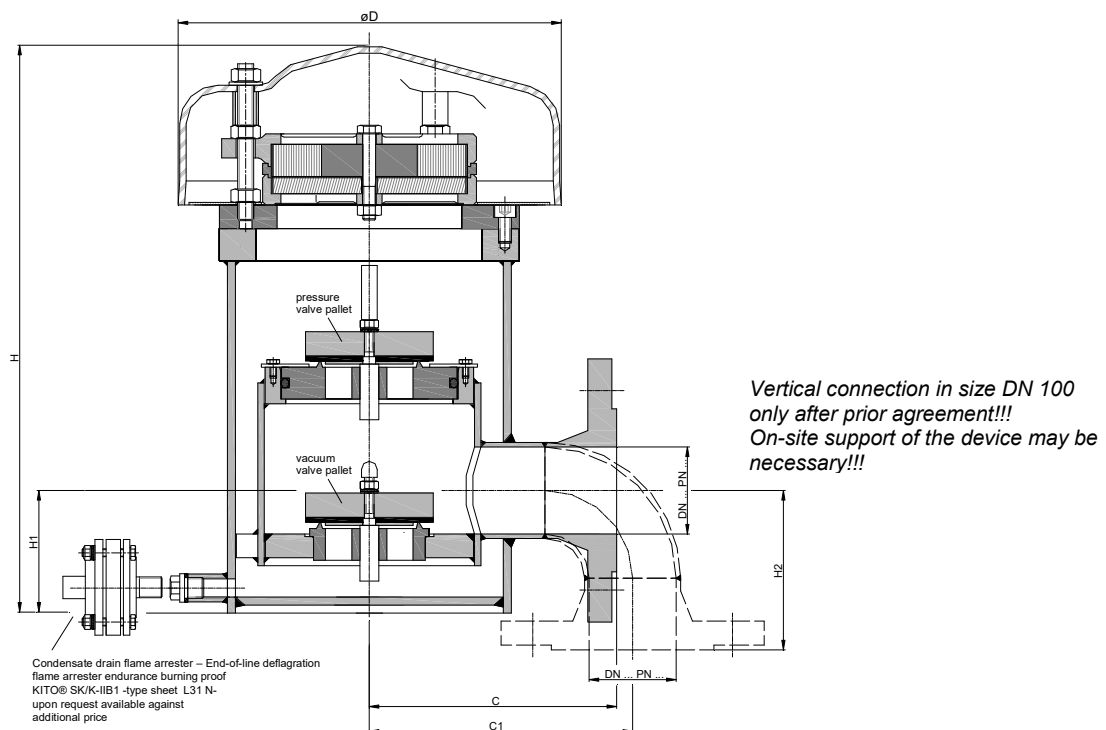


Application

As an 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 and an maximum operating temperature of 60 °C. Safety valve for out breathing pipes of storage tanks as a protection against pressure resp. vacuum. By appropriate pressure adjustment the gasification losses of the storage product are prevented or strongly limited. An explosion proof condensate drain is also available for this model at extra cost.

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

Dimensions (mm)



DN		D	H	H1	H2		C		C1	kg
DIN	ASME				DIN	ASME	DIN	ASME		
50	PN 16	240	356	77	121	140	155	174	186	22
80	PN 16		410	105	165	184	180	200	247	30
100	PN 16		490	124	204	228	190	190	310	47

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

Example for order

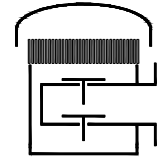
KITO® VD/KL-IIB1-80/50 (lateral)
 (design with lateral flange connection DN 80 PN 16, vacuum valve pallet DN 80 and pressure valve pallet DN 50)

Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU



Type sheet

Deflagration and endurance burning
proof pressure and vacuum relief valve
KITO® VD/KL-IIB1-.../...



Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
valve seat, valve spindle	stainless steel mat. no. 1.4571	
valve seat seal (o-ring)	VMQ-FEP	Viton, NBR, VMQ-PFA
load weight	stainless steel mat. no. 1.4571	PE
valve sealing	NBR	Viton, PTFE, EPDM, metal sealing
	≥ 100 mbar only PTFE or metal sealing	
KITO®-flame arrester element	completely interchangeable	
KITO®-casing / KITO®-grid	stainless steel mat. no. 1.4408 / 1.4310	stainless steel mat. no. 1.4408 / 1.4571
weather hood	PMMA	
protective screen	PA6	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF
connection	lateral	vertical

Settings (mbar)

DN	size	vacuum valve pallet		size	pressure valve pallet		
		min. - max. (load weight from PE)	min. - max.		min. - max. (load weight from PE)	min. - max.	min. - max. (with housing extension)
50 PN 16	50/...	1.9 - 10.4	10.5 - 65	50/25	3.1 - 10.8	10.9 - 200	-
				50/50	1.9 - 10.4	10.5 - 145	> 145 - 200
80 PN 16	80/...	1.9 - 7.8	7.9 - 63	80/50	1.9 - 10.5	10.6 - 200	-
				80/80	1.9 - 7.8	7.9 - 73	> 73 - 200
100 PN 16	100/...	1.8 - 7.6	7.7 - 90	100/50	2.7 - 11.3	11.4 - 200	-
				100/80	1.9 - 8.0	8.1 - 90	> 90 - 200
				100/100	1.9 - 7.7	7.8 - 67	> 67 - 200

The size of the vacuum valve pallet is always identical to the size of the flange connection.

The size of pressure valve pallet can be selected in accordance with required capacity!

Higher settings on request.