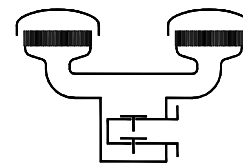


Type sheet

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

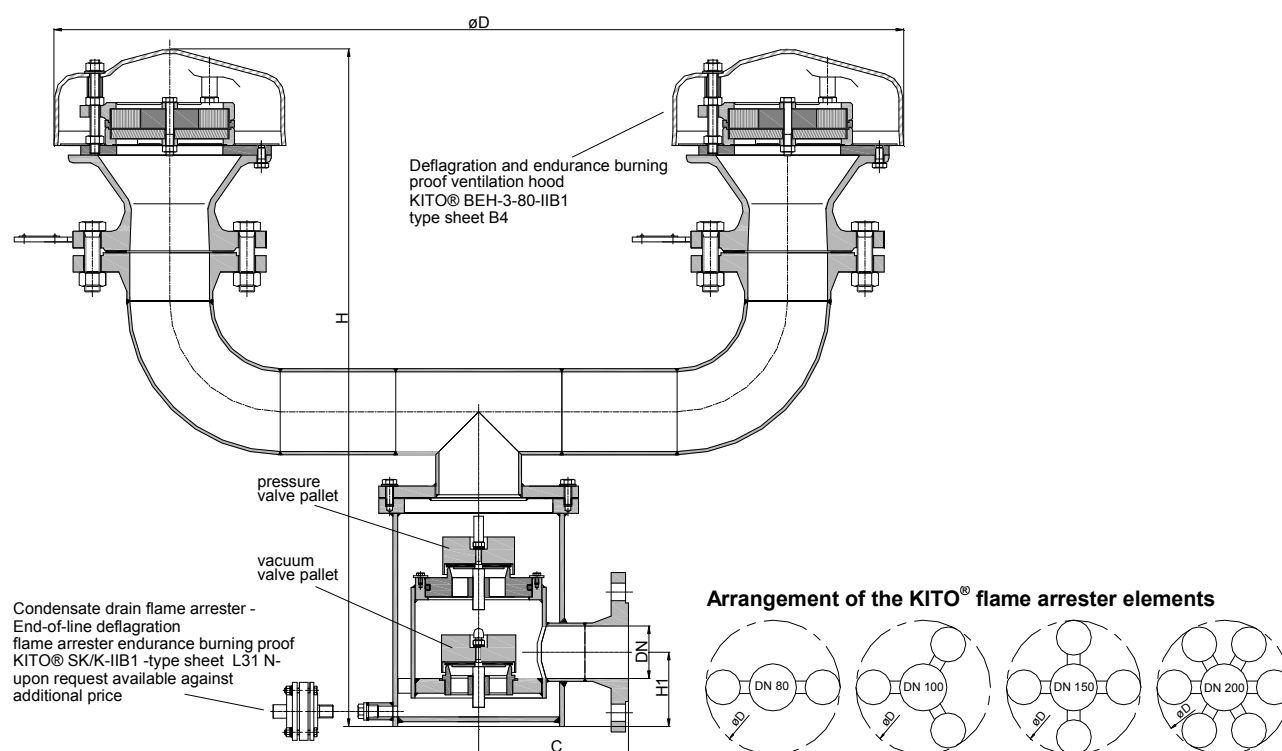


Application

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 and an maximum operating temperature of 60 °C. 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.

KITO® BEH-3-80-IIB1 with additional examination and approval, applicable also for alcohols (ethanol, methanol...)

Dimensions (mm)



DIN	DN	ASME	C	D	H	H1	number of KITO® BEH-3-80-IIB1	kg
80 PN 16		3"	180	855	770	105	2	
100 PN 16		4"	190	950	785	124	3	
150 PN 16		6"	245	1110	860	160	4	
200 PN 10		8"	290	1470	950	215	6	

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

Example for order

KITO® VD/MB-IIB1-80/50

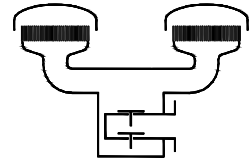
(design with flange connection DN 80 PN 16, vacuum valve pallet DN 80 and pressure valve pallet DN 50)

Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU for KITO® BEH-3-80-IIB1 and KITO® SK/K-IIB1

page 1 of 2

Type sheet

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



Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
housing KITO® BEH-3-80-IIB1	cast steel mat. no. 1.0619	stainless cast steel mat. no. 1.4408
gasket	HD 3822	PTFE
design valve pallet	orifice plate	
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

Settings (mbar)

DN	vacuum valve pallet			pressure valve pallet		
	size	min.	max.	size	min.	max.
80 PN 16	80/...	1,9	55	.../50	2,8	110
				.../80	2,3	40
100 PN 16	100/...	1,8	45	.../50	2,8	150
				.../80	2,3	60
				.../100	2,1	35
150 PN 16	150/...	2,4	60	.../80	2,4	170
				.../100	2,2	100
				.../150	2,8	35
200 PN 10	200/...	2,2	55	.../100	2,4	190
				.../150	2,9	70
				.../200	2,4	30

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 !