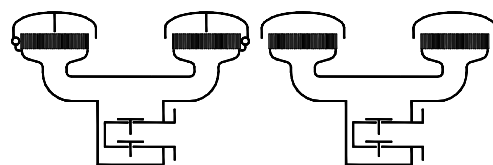


Type sheet

Deflagration and endurance burning proof pressure and vacuum relief valve

KITO® VD/MB-IIA-.../...-A

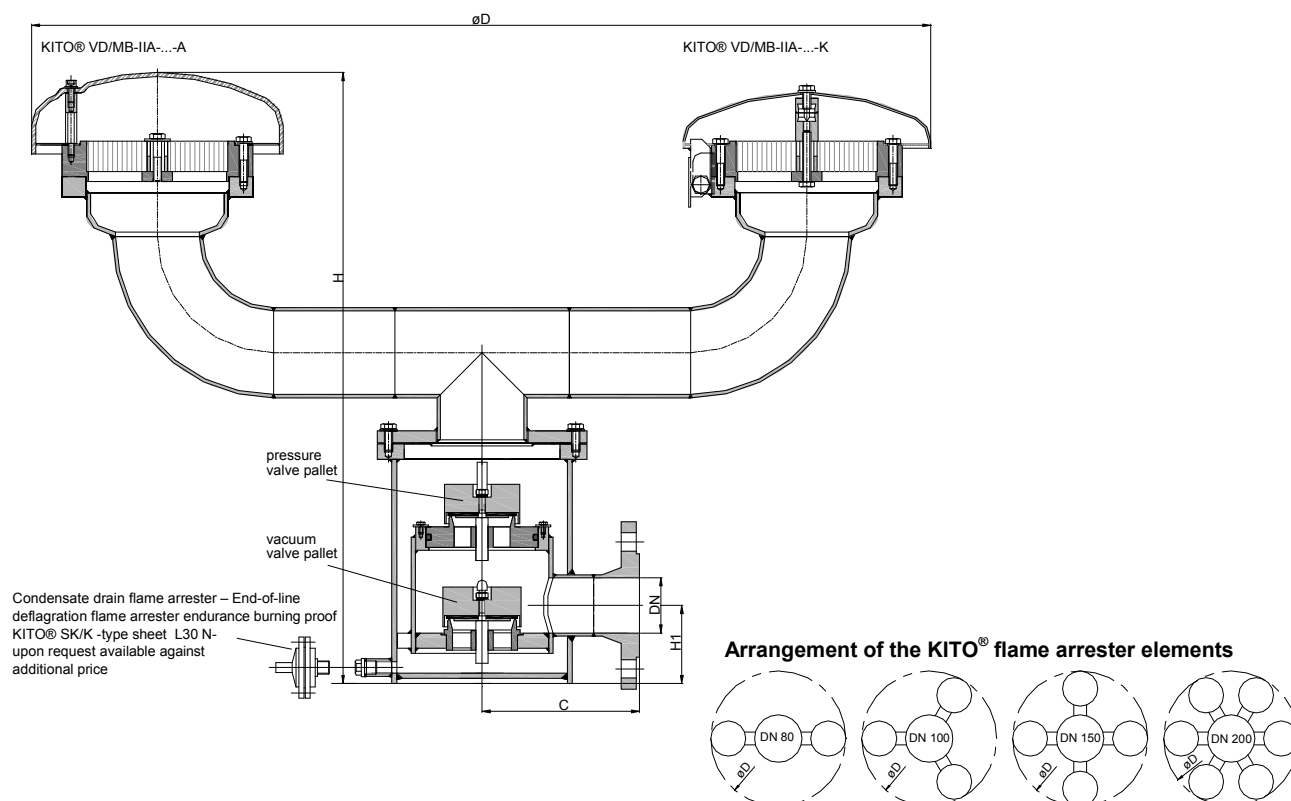
KITO® VD/MB-IIA-.../...-K



Application

as end-of-line armature, for venting apertures on tank installations, valve is explosion-proof and endurance-burning proof for certain flammable liquids of the explosion group IIA with a maximum experimental safe gap (MESG) > 0.9 and an maximum operating temperature of 60 °C. Used as venting and breather device for fixed roof tanks to prevent inadmissible pressure and vacuum and to minimize unwelcome gas losses by variable pressure setting. If desired by the customer, the valve is equipped with an explosion-proof condensate drain device.

Dimensions (mm)



DIN	DN	ASME	C	D	H	H1	number of KITO® flame arrester elements	kg
80 PN 16		3"	180	940	655	105	2	
100 PN 16		4"	190	1054	670	124	3	
150 PN 16		6"	245	1234	745	160	4	
200 PN 10		8"	290	1634	835	215	6	

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

Attention !!! Dimension H for design with a weather hood from stainless steel 1.4571 ca. 10-15 mm lower

Example for order

KITO® VD/MB-IIA-80/50-K

(design with flange connection DN 80 PN 16, weather hood from stainless steel, 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

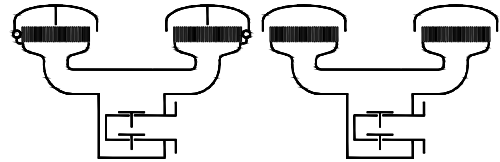
page 1 of 2

Type sheet

Deflagration and endurance burning
proof pressure and vacuum relief valve

KITO® VD/MB-IIA-.../...-A

KITO® VD/MB-IIA-.../...-K



Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
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
	<i>≥ 100 mbar only PTFE or metal sealing</i>	
KITO®-flame arrester element	completely interchangeable	
KITO®-casing / KITO®-grid	stainless steel mat. no. 1.4308 / 1.4310	stainless steel mat. no. 1.4408 / 1.4571
weather hood KITO® VD/MB-IIA-...-A	PMMA	
weather hood KITO® VD/MB-IIA-...-K	stainless steel mat. no. 1.4571, hood can fold automatically as a result of folding mechanism and fusing element	
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!