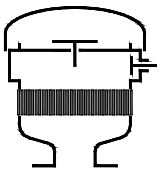
KITO Armaturen GmbH

Type sheet

Deflagration proof pressure and vacuum relief valve

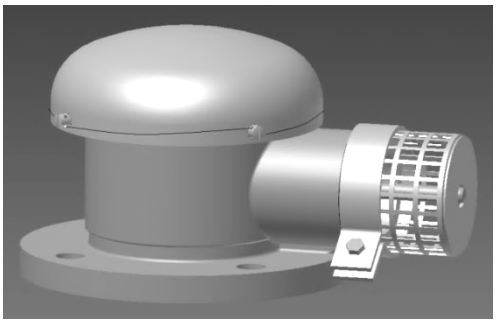
KITO® K/DVE-IIB3-80

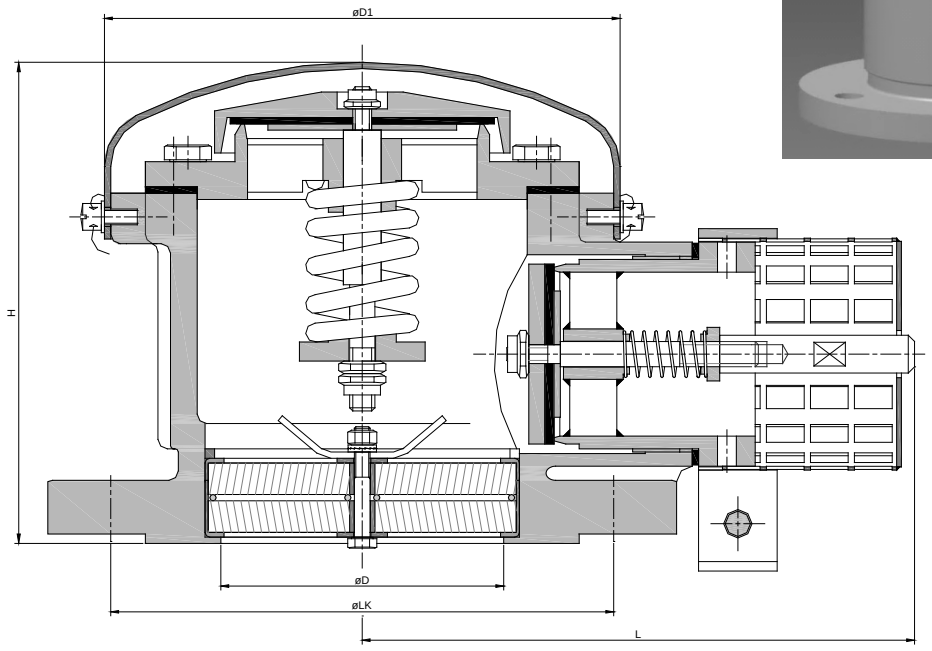


Application

Explosion proof combined pressure/vacuum relief valve to prevent excessive pressure and vacuum. Approved for flammable liquids and gases of explosion group IIB3 with a maximum experimental safe gap (MESG) > 0.65 mm. An operating temperature of 60 °C must not be exceeded. Low height of construction, for portable tanks, preferably for rail tank cars and tank containers. Upon request without KITO® flame arrester element available.

Dimensions (mm) and settings





D	D1	H	L	LK	setting vacuum (mbar)	setting pressure (bar)	kg
90	164	158	160	160 ***(4 holes ø18)***	10 - 40	1.5 – 3.0	11

Weight refers to the standard design

Different settings on request

Example for order

KITO® K/DVE-IIB3-80
(Design with flange connection, drilled to DN 80 PN 16 type B1)

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

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M 11 N
Date: 05-2018
Created: Abt. Doku KITO
Design subject to change

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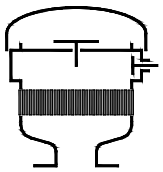


Design

	standard	optionally
housing	cast steel mat. no. 1.5638	stainless steel mat. no. 1.4408
gasket	HD 3822	PTFE, Gylon
valve seat / valve spindle	stainless steel mat. no. 1.4571	
valve pallet	stainless steel mat. no. 1.4571	
valve sealing	Viton (at 3 bar pressure with an additional foil from Gylon)	
compression spring	stainless steel mat. no. 1.4310	
KITO®-flame arrester element	interchangeable	
KITO®-casing	stainless steel mat. no. 1.4301	stainless steel mat. no. 1.4571
KITO®-grid	stainless steel mat. no. 1.4310	stainless steel mat. no. 1.4571
weather hood	stainless steel mat. no. 1.0333	stainless steel mat. no. 1.4301
setting	sealed	
flange connection	drilled to EN 1092-1 type B1 ***(4 holes)***	

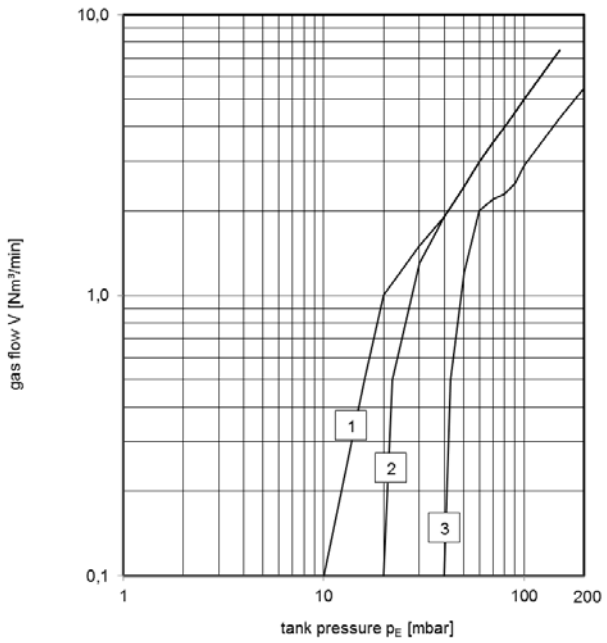
Performance curves

Flow rate in case of pressure:

setting p_e	discharge capacity	gas flow with and without KITO®-flame arrester element	
1.5 bar	1.65 bar	80 m^3/h	194 m_n^3/h
	1.9 bar	428 m^3/h	1132 m_n^3/h
1.75 bar	1.925 bar	86 m^3/h	230 m_n^3/h
3 bar	3.3 bar	135 m^3/h	530 m_n^3/h
	3.6 bar	428 m^3/h	1788 m_n^3/h
	4 bar	428 m^3/h	1943 m_n^3/h

closing pressure > 95% of p_e

Flow rate in case of vacuum:



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