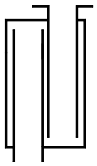
KITO Armaturen GmbH

Type sheet

Uni-directional end-of-line liquid detonation flame arrester

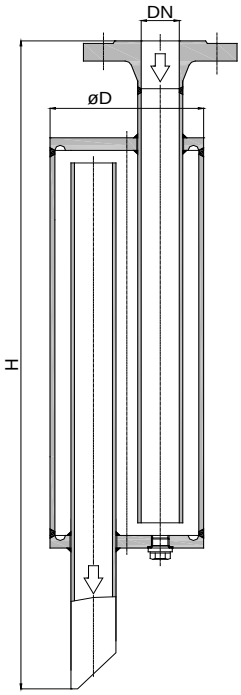
KITO® FL/INO-...-IIB3



Application

As end-of-line armature, detonation-proof and flameproof, used for mounting on the pipes end of **filling pipes** inside of tanks, in which inflammable liquids of the explosion groups IIA1 to IIB3 are stored, with a nominal gap width (MESG) of ≥ 0.65 mm and an maximum operating temperature of 60 °C. Tested and approved as detonation flame arrester **type 4.** Particularly suitable for horizontal and underground vessels. Mounting position is perpendicular. It is only allowed to install pipes of nominal widths ≤ than the nominal widths of the flange. The body of the housing has to be permanently filled with storage liquid. Equipped with a hexagon head pipe plug for emptying the liquid.

Dimensions (mm)



DN DIN	DN ASME	D	H	kg
25 PN 40	**1“**	115	500	8
32 PN 40	**1 ¼“**	140	580	11
40 PN 40	**1 ½“**	168	700	19.5
50 PN 16	**2“**	168	700	20
65 PN 16	**2 ½“**	220	825	40
80 PN 16	**3“**	245	925	52
100 PN 16	**4“**	325	1050	95
125 PN 16	**5“**	356	1150	126
150 PN 16	**6“**	500	1450	228
200 PN 10	**8“**	600	1750	427
250 PN 10	**10“**	700	2100	603

Weight refers to the standard design

Example for order

KITO® FL/INO-100-IIB3
(design with flange connection DN 100 PN 16)

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

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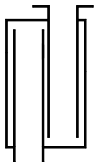


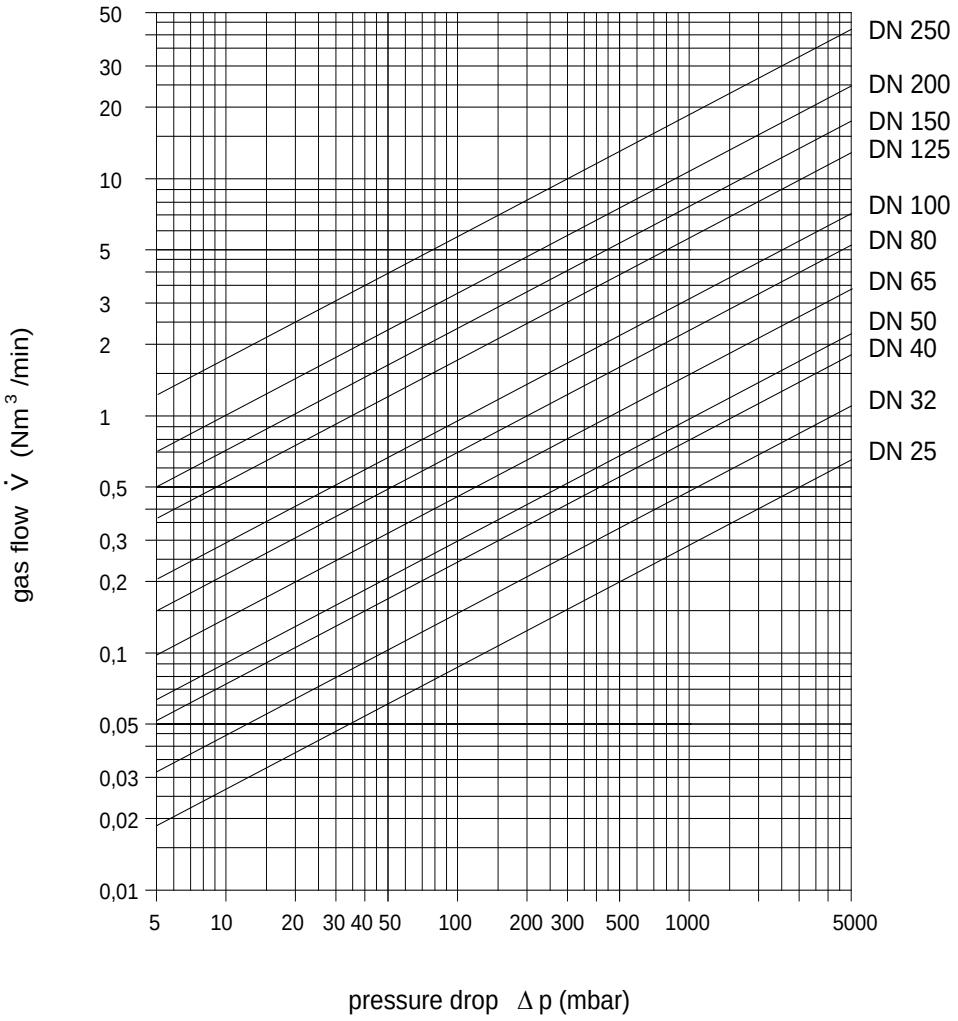
Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
outlet	beveled end	straight end
flange connection	EN 1092-1 Form A	ASME B16.5 Class 150 RF

Performance curves

The volume flow *V* in Nm^3/min was determined with water according to DIN EN 60534 at a temperature T_n = 15°C and an atmospheric pressure ρ_n = 1013 mbar.
For media of different density the flow rate may be calculated with an appropriate accuracy with this formula :

$$\dot{V}_{liquid} \cong \dot{V}_{water} \cdot \sqrt{\frac{\rho_{water}}{\rho_{liquid}}}$$



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