KITO Armaturen GmbH

Type sheet
Uni-directional in-line deflagration flame arrester, short-time burning proof
KITO® RV/N-1200/600-IIA-1.6
KITO® RV/N-1200/600-IIA-1.6-T (-TT)

Application

Intermediate armature, mainly installed as in-line deflagration flame arrester in pipes to thermal incineration plants for vapor/air and air/gas mixtures. Bi-directionally working in pipes, whereby an operating pressure of 1.6 bar abs. and an operating temperature of 200 °C must not be exceeded. Approved for all substances of the explosion group IIA with a MESG > 0.9 mm. The maximum length of the pipe from the KITO® flame arrester to the ignition source is limited (< 50 x D). It is only allowed to install the device in pipes with nominal widths ≤ than the nominal width of the armature (DN). The thermal sensor serves to trigger an emergency function, e.g. shutting off or inerting the gas flow if a stabilized burning occurs at the KITO® flame arrester.

Dimensions (mm)

NG	DN		D	L	kg (DIN)	kg (ASME)
	DIN	ASME				
1200	**600**	**24"**	1405	1100	980	1090

Weight refers to the standard design

Example for order

KITO® RV/N-1200/600-IIA-1.6-T
(Design NG 1200 with flange connection DN 600 PN 10 and a temperature sensor)

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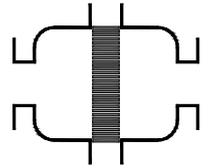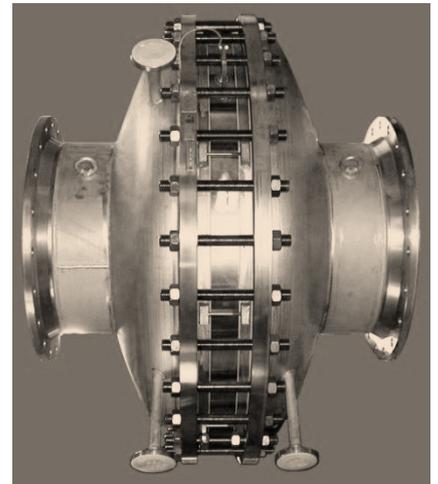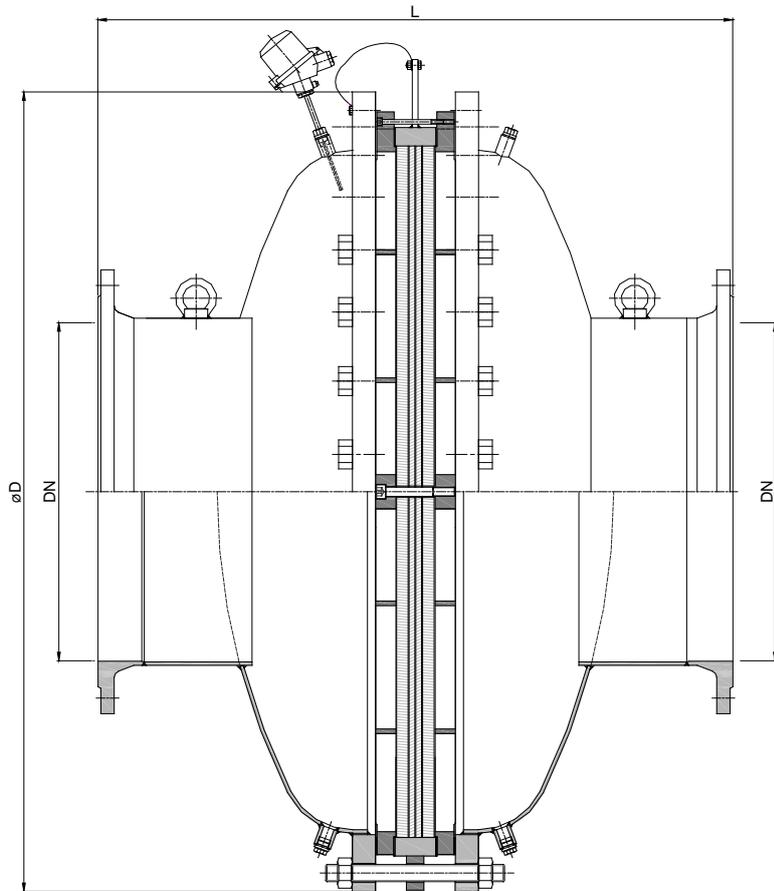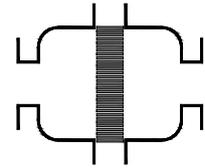
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Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4301 / 1.4571
gasket	HD 3822	PTFE
KITO®-flame arrester element	completely interchangeable	
KITO®-casing	steel	stainless steel mat. no. 1.4301 / 1.4571
KITO®-grid	stainless steel mat. no. 1.4301	stainless steel mat. no. 1.4571
temperature sensor		PT 100, connection 3/8", 1.4571
condensate drain connecting piece	G ½"	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF

Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad or \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$