Säätö
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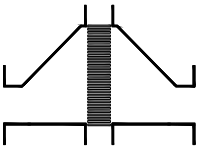
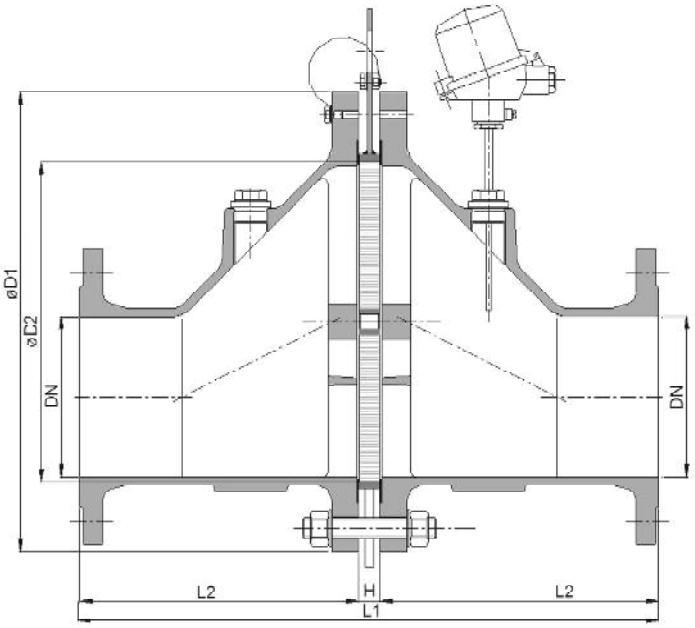
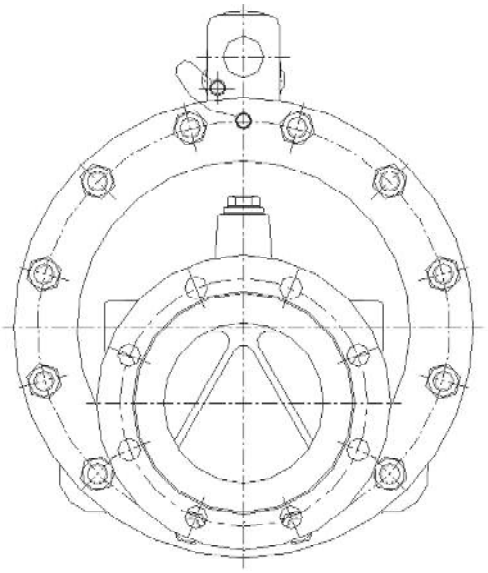
Bi-directional deflagration flame arrester
EFA-Def0-IIA-…/…-1.2
EFA-Def0-IIA-…/…-1.2-T (-TT)







Type examination certificate to EN ISO 16852
CE -designation in accordance to ATEX-Guideline 94/9/EC

NG	DN	ANSI	D1	D2	L1	H	L2	kg*
65	**25 PN 40**	**1“**	155	70	260	20	120	
	32 PN 40	**1 ¼“**						
100	**40 PN 40**	**1 ½“**	220	106	310	20	145	21
	50 PN 16	**2“**						24
150	**50 PN 16**	**2“**	285	159	370	20	175	37
	65 PN 16	**2 ½“**						38
	80 PN 16	**3“**						38
200	**80 PN 16**	**3“**	340	206	420	20	200	56
	100 PN 16	**4“**						56
300	**100 PN 16**	**4“**	445	308	560	20	270	92
	125 PN 16	**5“**						94
	150 PN 16	**6“**						94
400	**150 PN 16**	**6“**	565	388	650	20	315	104
	200 PN 10	**8“**						163
500	**200 PN 10**	**8“**	670	485	780	20	380	226
	250 PN 10	**10“**						236
600	**250 PN 10**	**10“**	780	584	920	20	450	317
	300 PN 10	**12“**						333
800	**350 PN 10**	**14“**	1015	810	1287	47	620	
	400 PN 10	**16“**						

Dimensions in mm * weights refer to the standard design

Design subject to change performance curves: H 0.35 N

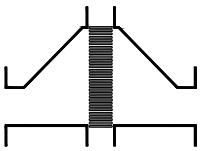
Standard design

housing : cast steel 1.0619,
stainless cast steel 1.4408
gasket : HD 3822, PTFE
flame arrester
element : completely interchangeable
casing : steel (galvanized to NG 400),
stainless steel mat. no. 1.4571, 1.4581
grid : stainless steel mat. no. 1.4310, 1.4571
bolts/nuts : galvanized steel, SS
temperature sensor : PT 100 (option); connection 3/8“
flange connection : DIN EN 1092-1 form B1,
ANSI 150 lbs. RF

Example to order:
EFA-Def0-IIA-100/40-1.2-T (design with thermo couple element)

Application

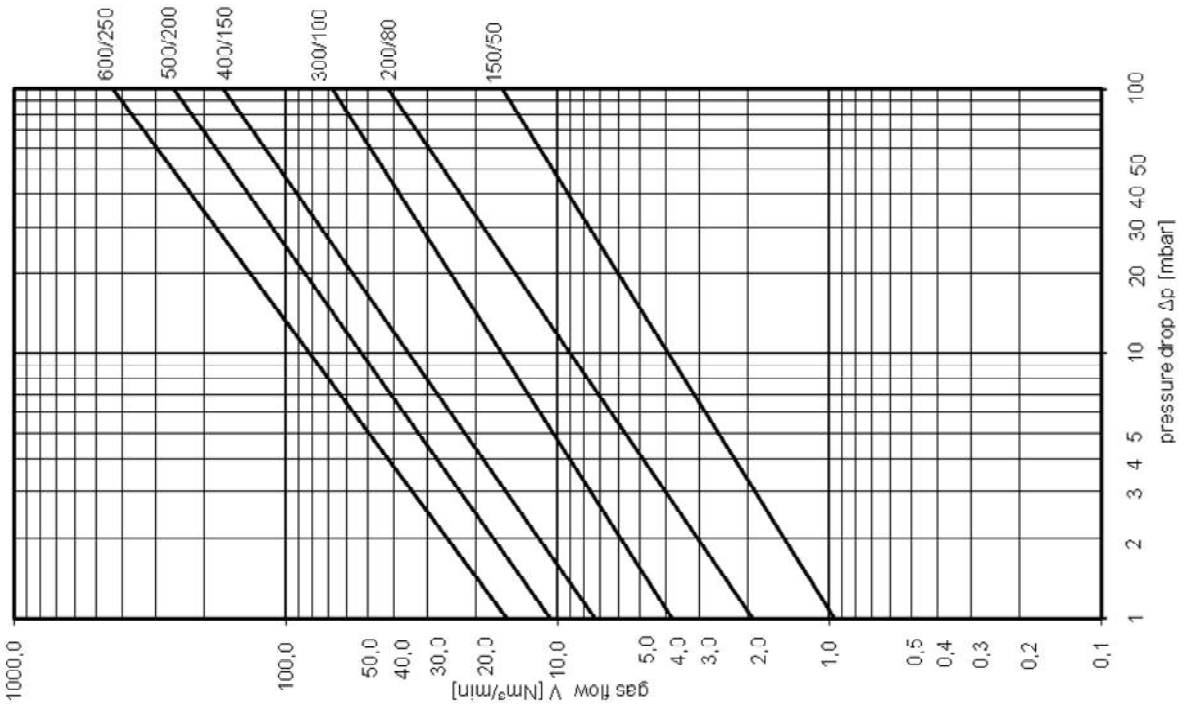
For installation into pipes to the protection of vessels and components against deflagration of flammable liquids and gases.
Approved for all substances of explosion groups IIA1 to IIA with a maximum experimental safe gap (MESG) > 0.9 mm.
Bi-directionally working in pipes, whereby an operating pressure of 1.2 bar abs. and an operating temperature of 60°C must not be exceeded. The distance between a potential ignition source and the flame arrester must not exceed 50 times the inner pipe diameter. The installation of the deflagration flame arrester into horizontal and vertical pipes is permissible.
When equiped with one or two temperature sensors, the devices are protected under atmospheric conditions against a short time burning by a burning time t_{BT} = 1,0 min.
If only one temperature sensor, then it is to be placed on the device side where a burning could be expected.

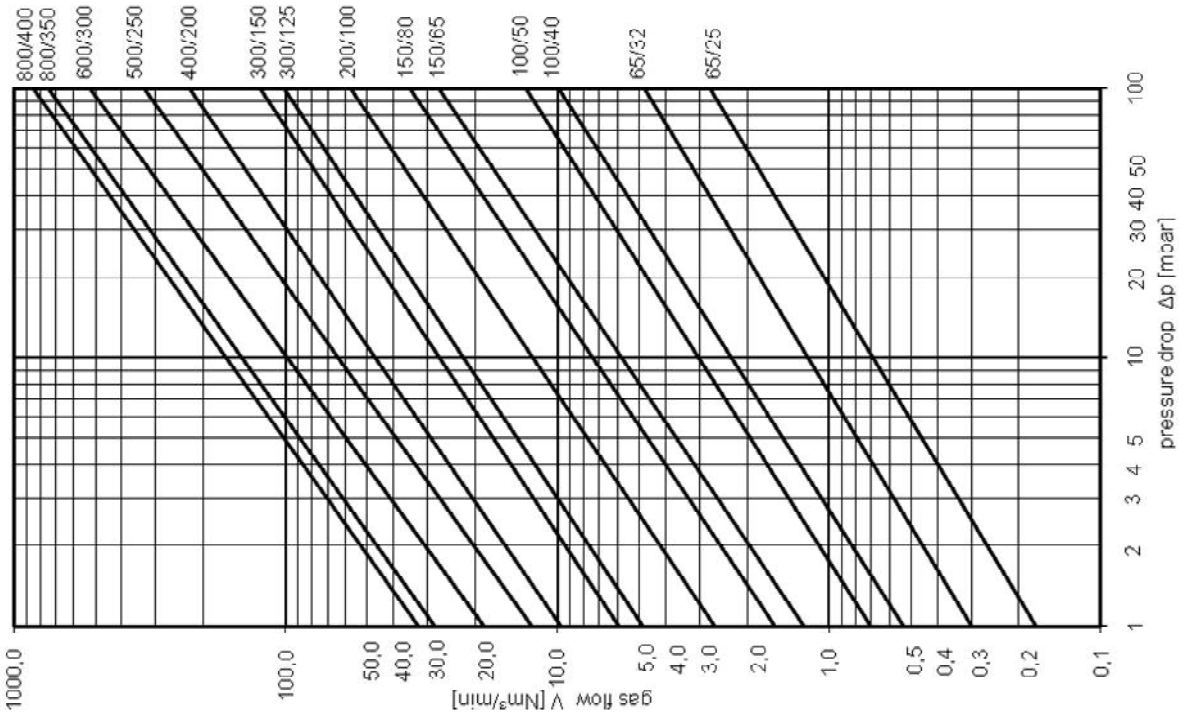


Bi-directional deflagration flame arrester
EFA-Def0-IIA-…/…-1.2
EFA-Def0-IIA-…/…-1.2-T (-TT)
H 35 N

The flow capacity V refers to a density of air with ρ = 1.29 kg/m³ at T = 273 K and a pressure of p = 1.013 mbar.
The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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





Design subject to change