

6000 - IN LINE DEFLAGRATION FLAME ARRESTER



Deflagration Flame Arrester for Explosion Groups IIB3.

IN-LINE 6000 Valve Series is a family of flame arresters designed to prevent the propagation of flames in gas or vapor mixtures. These devices are well suited for small to large applications, and they are tailor-made around the flow rate and pressure drop desired. Our design ensures the lowest possible pressure drop with the highest flow rate thanks to the high flux design.

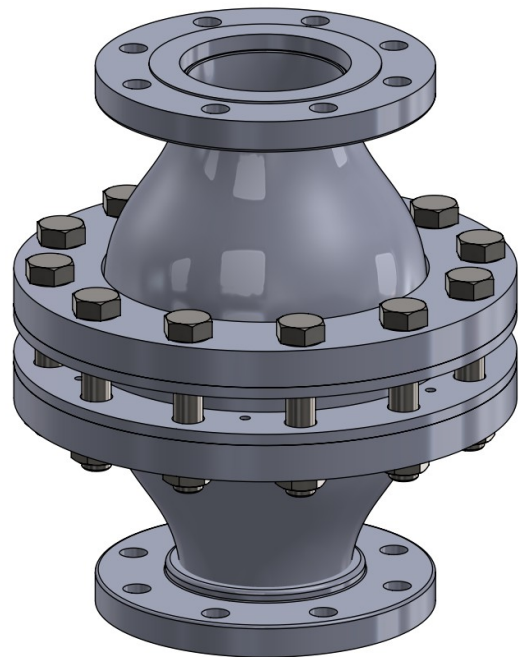
IN-LINE 6000 Valve Series is developed according to EN ISO 16852 and ATEX Directive 2014/34/EU.

The connection to the process is fully customizable according to customer needs.

The possibilities include EN and ANSI flanges with connections of 2", 3", 4", 5" and 6".

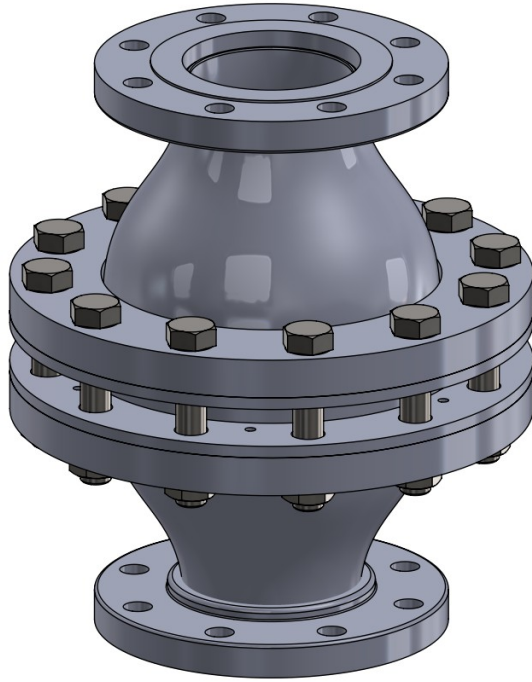
Several variations can be accounted for different process connections, different geometries, temperature and pressure variations.

Out of standard component may require specific type testing according to the client needs.



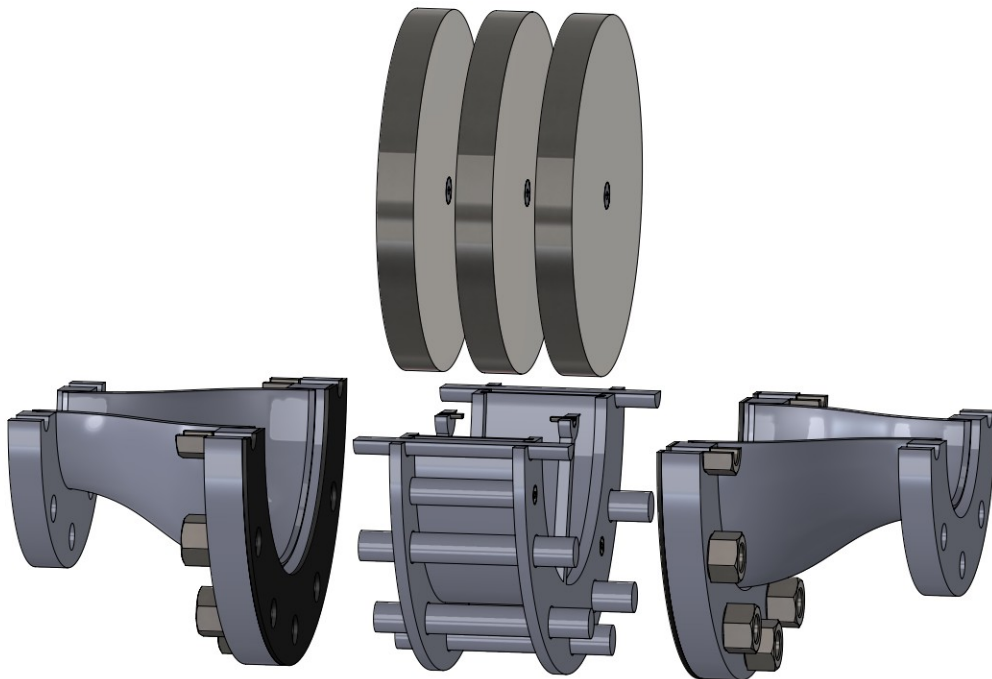
PRODUCT	IN-LINE 6000
Standard Sizes	From 2" to 6"
Body Material	1. Carbon Steel 2. Stainless Steel AISI 316 or AISI 304 3. Customer specification
Flange Connection	1. ANSI150 2. EN PN16 (or higher)
Flame Element	1. AISI 304
Paint Finish	1. Powder Coating (custom color) 2. Epoxy coating (custom color) 3. Other
Option:	Sensor Thermocouple NiCr-Ni K single element or similar

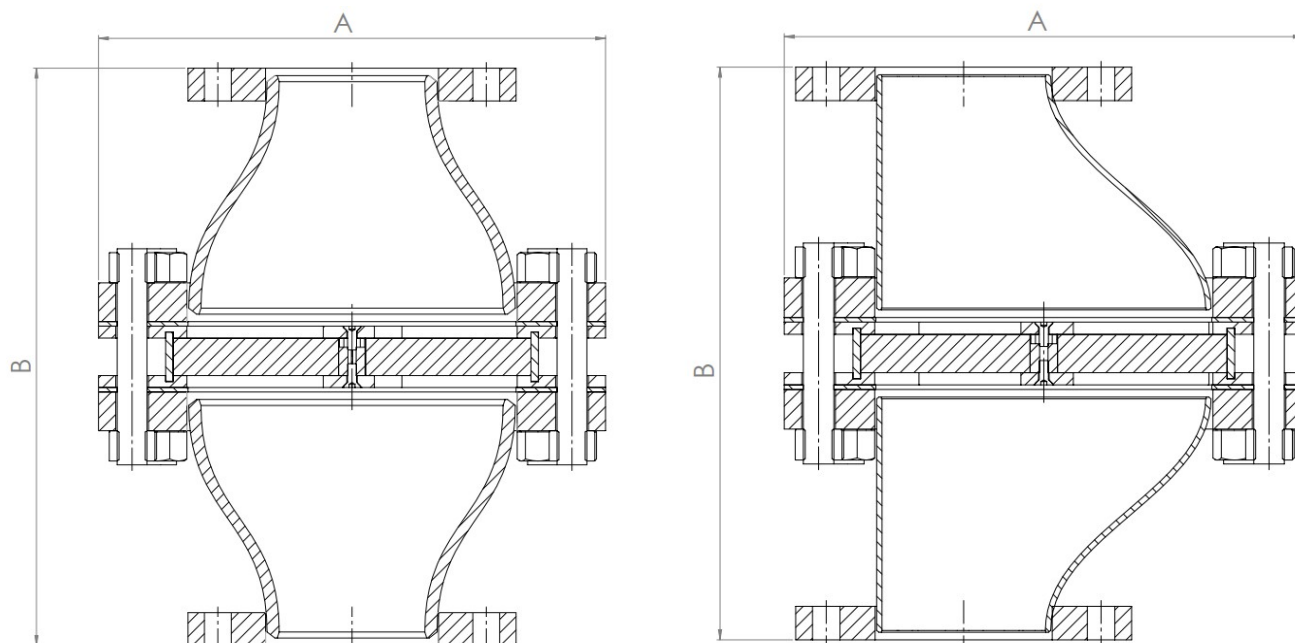
In-Line Configuration



Required operating conditions

Due to its modular design, the flame arrester can be equipped to withstand different operating conditions ranging from different temperatures, pressures and flame interfaces, i.e. deflagration. Specific type tests may be required based on customer requirements.





SIZE	FLAME TYPE	GAS GROUP	A mm	B mm
2"	DEFLAGRATION	IIB3	220	282
3"	DEFLAGRATION	IIB3	285	360
4"	DEFLAGRATION	IIB3	340	387
5"	DEFLAGRATION	IIB3	405	442
6"	DEFLAGRATION	IIB3	460	492

2" IIB3 Deflagration

Flow in Nm ³ /h	30	110	180	250	320	390	460	530	600	680
Pressure Drop mbar	<5	<5	<10	17	26	36	49	64	80	100

4" IIB3 Deflagration

Flow in Nm ³ /h	18	260	510	760	1010	1260	1510	1760	2010	2260
Pressure Drop mbar	<5	<5	<10	14	23	33	46	61	78	100

6" IIB3 Deflagration

Flow in Nm ³ /h	14	410	810	1210	1610	2010	2400	2800	3200	3600
Pressure Drop mbar	<5	<5	<10	13	22	33	46	61	79	100