

## In line detonation flame arrester

Figure: HITEK - DFA

According to API 2000 code, BS7244, the DFA is designed, manufactured and tested by HITEK

A detonation flame arrester is another safety device installed in a piping system. A detonation is defined as a flame front propagating through a flammable gas or vapor at a velocity equal to or greater than ten pipe diameters from the installation of the arrester or when there is a possible restriction in the line. HITEK's Detonation flame arresters Bi-Directional and can be installed in a vertical or horizontal piping installation. The model DFA has been successfully tested and KIMM approved in accordance with BS7244 (1999) Detonation flame arrester suitable for applications where stationary flames may rest on the element. In case of an ignition of explosive mixtures within longer pipelines the flame front spreads with increasing speed towards the unburnt explosive mixtures with the effect that the flame connects to a shock wave within this long pipe

All flame arresters are bi-directional and the installation on a tank or piping system depends to a great extent on the design of the system



**Product name: In line detonation flame arrester**

**Model: DFAA (Aluminum)**

**DFAC (Carbon steel)**

**DFAS (SS304/SS316)**

**Element: SS304/SS316/SS316L**

**Design standard: API 2000**

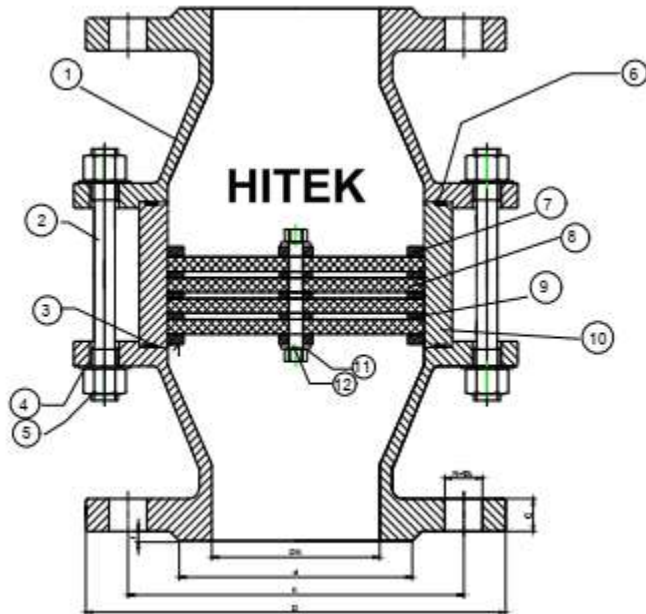
**Type: Explosion flame arrester**

**Flame cell (Element): IIA or (IIB, IIC)**

**Flange standard: ASME B16.6(or requested by JIS/DIN)**

**Size 50mm – 300mm**

Part No	Part name	Aluminum	Cast steel	Stainless steel	Stainless steel
1	Body	B26 -319.F	A216-WCB	SS304	SS316
2	Stub bolt	SS304	SS304	SS304	SS316
3	Gasket	PTFE	PTFE	PTFE	PTFE
4	Washer	SS304	SS304	SS304	SS316
5	Nut	SS304	SS304	SS304	SS316
6	Gasket	PTFE	PTFE	PTFE	PTFE
7	Flame platen	SS304	SS304	SS304	SS316
8	Flame element	SS304	SS304	SS304	SS316
9	Interlayer	SS304	SS304	SS304	SS316
10	Element case	B26 – 319.F	A216 WCB	SS304	SS316
11	Hexagonal screw	SS304	SS304	SS304	SS316
12	Washer	SS304	SS304	SS304	SS316



SIZE	DN	D	D1	d	C	f	N-ØL
2"	50	150	120.5	92	19.5	2	4- ø18
3"	80	190	152.5	127	24	2	4- ø18
4"	100	230	190.5	157.5	24	2	8- ø18
6"	150	280	241.5	216	25.5	2	8- ø22
8"	200	345	298.5	270	29	2	8- ø22
10"	250	405	362	324	30.5	2	12- ø26
12"	300	485	432	381	32	2	12- ø26

DESIGNED BY HITEK PETROLEUM EQUIPMENT CO., LTD