

# SECTION 3.4\_KSFI-J

# FLAME ARRESTER DEFLAGRATION PROOF IN-LINE

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The model KSFI-J inline flame arrester is designed, manufactured, tested according to API 2000, and ISO 16852. The units are passive devices with no moving parts. They prevent the propagation of flame from the exposed side of the unit to the protected side by the use of a 316L stainless steel crimped metal ribbon type flame cell element. This construction produces a matrix of uniform opening that are carefully constructed to quench the flame by absorbing the heat.

#### Operating Temperature @ Pressure

KSFI-J / DN 50 ~ DN 300	+ 60°C (=140°F) @ 0.11 Mpa
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Body Materials Cast Steel, SS304, SS316, SS316L with various trims (Different materials available on request)

**Sizes range** DN 50 ~ DN 300 with ASME 150Lb flanges (Different connections available on request)

**Rules & Certifications** API 2000 / ISO 16852 & KFI Flame cell : NEC group D (=IIA), group C(=IIB3) and group B(=IIC), ETC.







### **W** OUTLINE DRAWING

**C-I3SX** 



🖽 DIMENS	ION TABLE	NOTE Star	<b>NOTE</b> Standard Connection(ASME 150Lb flange) and JIS or different types are available upon request.						
SIZE	2"	3"	4"	6"	8"	10"	12"		
N.D	50	80	100	150	200	250	300		
ØD	314	338	389	465	480	676	717		
App. H	364	398	450	496	522	600	716		
H1	182	199	225	248	261	300	358		
H 2	182	199	225	248	261	300	358		
H 3	177	194	220	239	252	291	348		
App 1	418	443	493	548	583	746	802		

#### 🚓 COMPONENT MATERIAL

**NOTE** Other materials are available upon request.

ITEM NO	COMPONENT	CARBON STEEL	SS304	SS316/SS316L			
1	BODY	CARBON STEEL	SS304	SS316/316L			
2	ELEMENT	SS316L					
3	ELEMENT HOUSING	SS304L	SS304L SS304L				
4	STEAM JACKET	SS304	SS304	SS316L			
5	STEAM LINE FLANGE	A105	A182-F304	A182-F316L			
6	GASKET	PTFE (NOTE)					
7	STUD BOLT/NUT	CASS304	SS304	SS316			
STAN	DARD PAINTING	ING IN-OUT SIDE URETHANE 150 MICRON WITHOUT S.S & AL PART					



- Periodic inspection and maintenance is required. The cell assembly can be removed for cleaning purposes.
- Cleaning ban be accomplished by dipping the entire cell assembly into an appropriate solvent.
- Care should be taken not to damage the cell openings as such deformations hamper the flow through the cell.
- (1) The gaskets should be inspected and replaced if necessary.

