



SECTION 3.1_KSFI

FLAME ARRESTER DEFLAGRATION PROOF IN-LINE

INTRODUCTION

The model KSFI inline flame arrester is designed, manufactured, tested according to API 2000, British Standard Specification Code BS7244 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 / DN 15 ~ DN 600

+ 60°C (=140°F) @ 0.11 Mpa

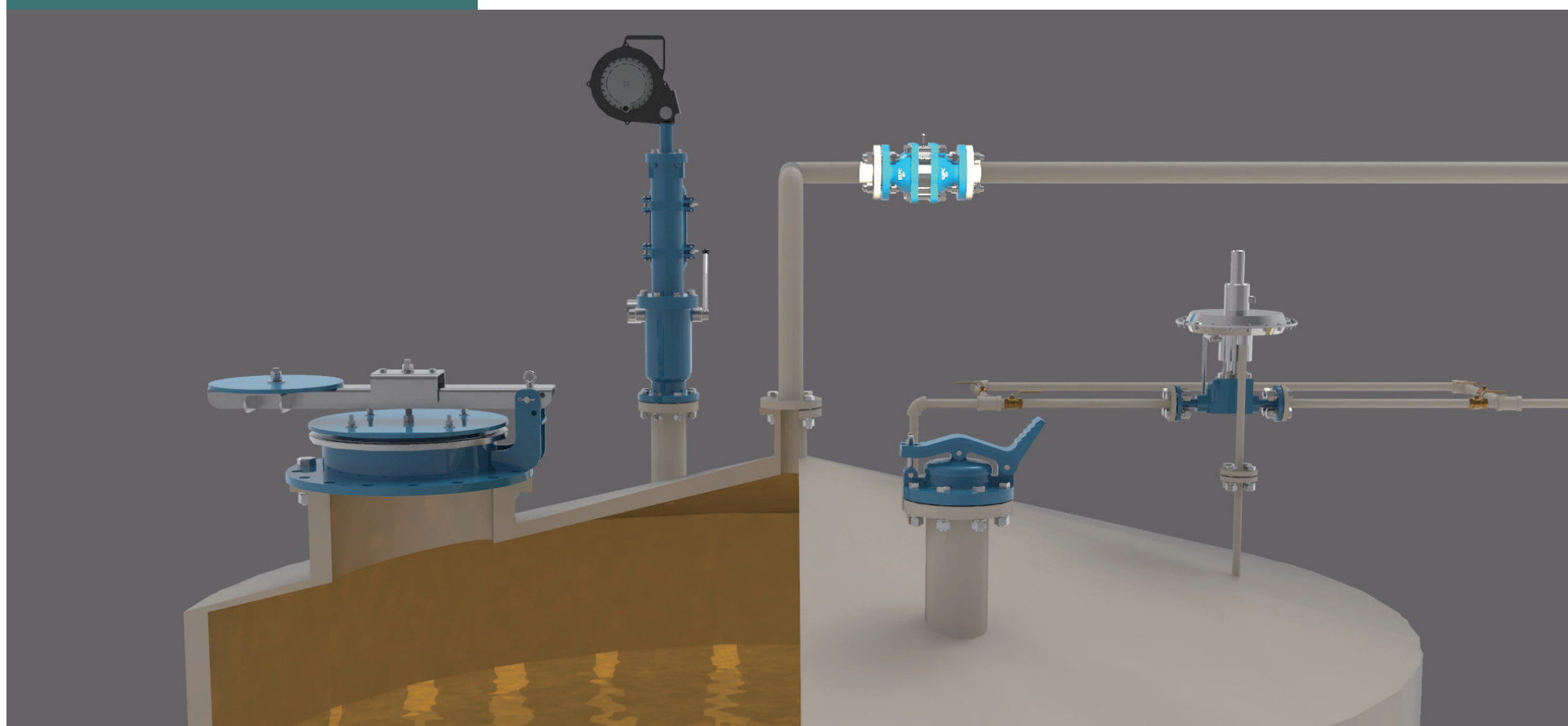
Body Materials Aluminium, Nodular Iron, Cast Steel, SS304, SS316, SS316L with various trims
(Different materials available on request)

Sizes range DN 15 ~ DN 600 with ASME 150Lb flanges
(Different connections available on request)

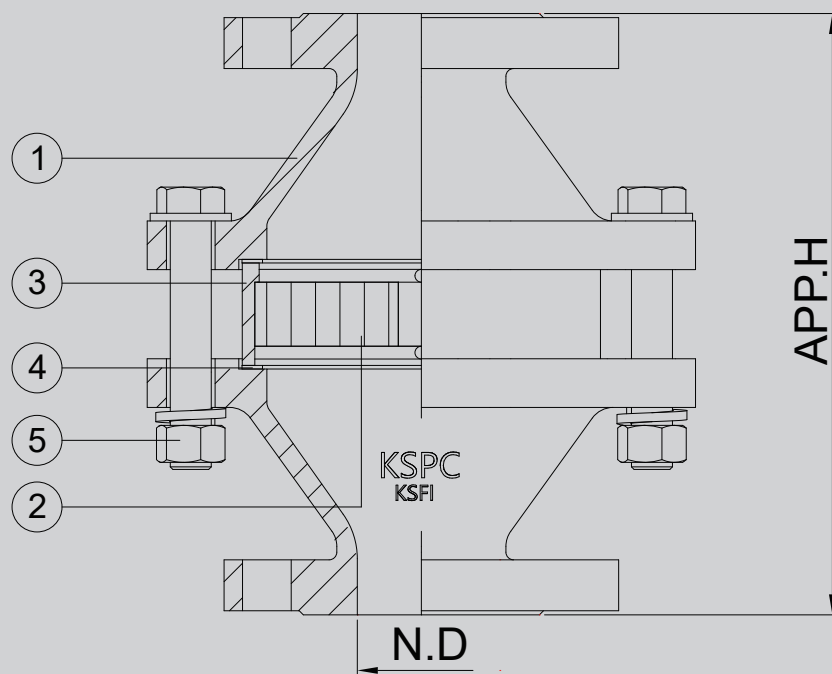
Rules & Certifications API 2000, BS7244 / ISO 16852 & KFI
Flame cell : NEC group D (=IIA), group C(=IIB3) and group B(=IIC), ETC.

Optimum / optional Design & Arrangements Stem Jacket type, Steam Tracing type

APPLICATION



OUTLINE DRAWING



KSHI

Section 3.1
KSFI

DIMENSION TABLE

SIZE	½"	1"	1 ½"	2"	3"	4"	6"	8"	10"	12"	14"	16"	20"	24"
N.D	15	25	40	50	80	100	150	200	250	300	350	400	500	600
D	221	229	229	234	254	266	326	342	364	454	486	511	547	720
H	155	155	214	214	251	300	385	450	600	680	745	850	1000	1235

NOTE Standard Connection(ASME 150Lb flange) and JIS or different types are available upon request.

COMPONENT MATERIAL

ITEM NO	COMPONENT	ALUMINIUM	CARBON STEEL	STAINLESS STEEL
1	BODY	CAST ALUMINIUM	CAST or WELDED C.S	CAST or WELDED S.S
2	ELEMENT	SS316L		
3	ELEMENT HOUSING	SS304	SS304	SS304/SS316
4	GASKET	PTFE		
5	STUD BOLT/NUT	A193-B7 / A194-2H or STAINLESS STEEL		
STANDARD PAINTING		IN-OUT SIDE EPOXY 150 MICRON WITHOUT STAINLESS STEEL & ALUMINIUM PART		

MAINTENANCE

- ⚠ Periodic inspection and maintenance is required. The cell assembly can be removed for cleaning purposes.
- ⚠ Cleaning can 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.
- ⚠ The gaskets should be inspected and replaced if necessary.