



SECTION 3.2_KSFI-A STANDARD TYPE

FLAME ARRESTER DEFLAGRATION PROOF IN-LINE

INTRODUCTION

The model KSFI-A 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-A / DN 15 ~ DN 600

+ 60°C (=140°F) @ 0.11 Mpa

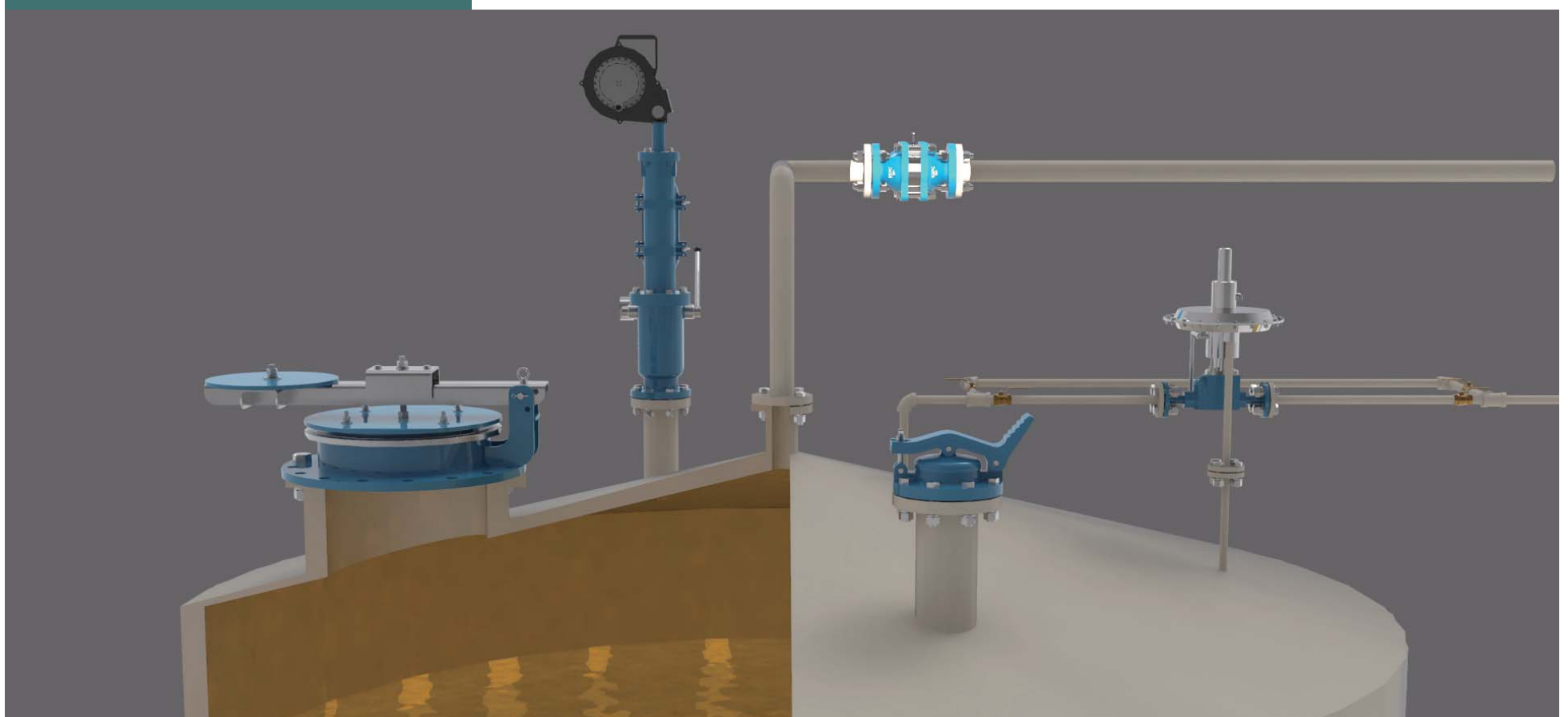
Body Materials Aluminium, Nodular Iron, Cast Steel, SS304, SS316, SS316L with various trims
(Different materials available on request)

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

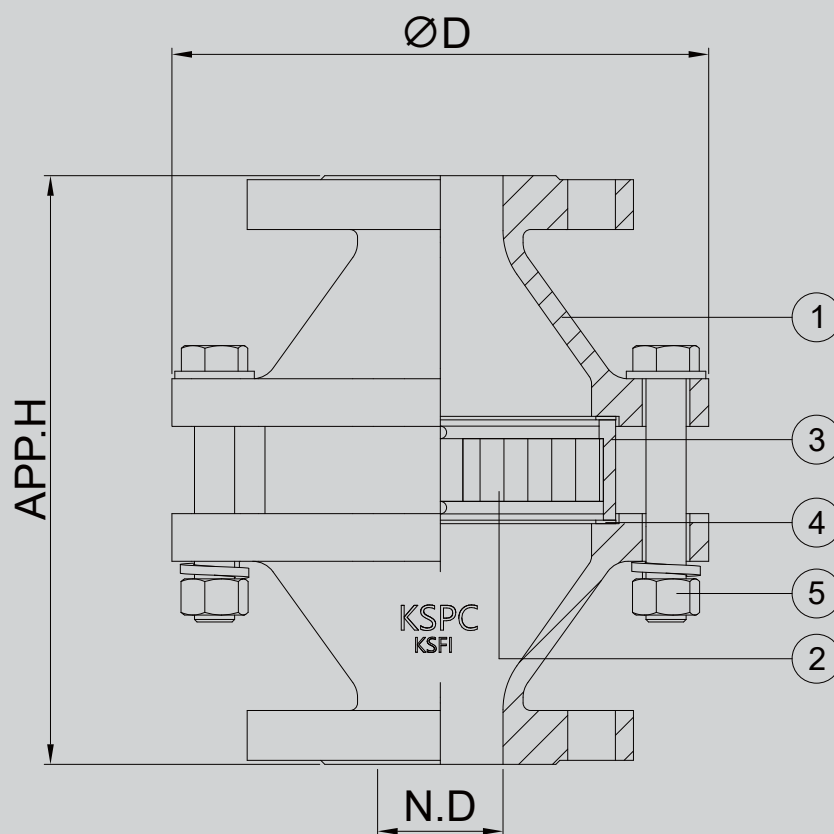
Rules & Certifications API 2000 / ISO 16852
Flame cell : NEC group D (=IIA), group C(=IIB3) and group B(=IIC), ETC.

Optimum / optional Design & Arrangements Steam Jacket type

APPLICATION



OUTLINE DRAWING



KSFI-A

Section 3.2
KSFI-A STD

DIMENSION TABLE

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

| SIZE | 1/2" | 3/4" | 1" | 1 1/2" | 2" | 3" | 4" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
|-------|------|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| N.D | 15 | 20 | 25 | 40 | 50 | 80 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
| ØD | 155 | 155 | 155 | 214 | 225 | 251 | 300 | 389 | 450 | 600 | 680 | 745 | 850 | 930 | 1000 | 1240 |
| App.H | 221 | 226 | 229 | 231 | 234 | 253 | 262 | 326 | 342 | 376 | 454 | 486 | 511 | 529 | 541 | 732 |

COMPONENT MATERIAL

NOTE Other materials are available upon request.

| 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 | SS304L | SS304L | SS304L/SS316L |
| 4 | GASKET | PTFE (NOTE) | | |
| 5 | STUD BOLT/NUT | A193-B7 / A194-2H or STAINLESS STEEL | | |
| STANDARD PAINTING | | IN-OUT SIDE URETHANE 150 MICRON WITHOUT S.S & AL 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.