

# SECTION 3.13\_KSFE

## FLAME ARRESTER DEFLAGRATION PROOF END-LINE

## [] INTRODUCTION

The model KSFE flame arrester are designed, manufactured and tested according to API2000, and ISO 16852. The units allow free venting in combination with flame protection for vertical vent applications. They prevent flame propagation by absorbing and dissipating heat using spiral wound crimped ribbon SS316L flame cells.

#### Operating Temperature @ Pressure

KSFE / DN 25 ~ DN 350

+ 90°C (=194°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 25 ~ DN 350 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.

**Optimum / Optional Design & Arrangments** Steam jacket type

### **In APPLICATION**







## **M** OUTLINE DRAWING

**KSFE** DN15 ~ 100





(SFE DN150 ~ 350

| III DIMENSION TABLE |     |     | NOTE St | <b>NOTE</b> Standard Connection(ASME 150Lb flange) and JIS or different types are available upon request. |     |     |     |     |     |     |  |
|---------------------|-----|-----|---------|---|-----|-----|-----|-----|-----|-----|--|
| SIZE                | 1"  | 1½" | 2"      | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14" |  |
| N.D                 | 25  | 40  | 50      | 80  | 100 | 150 | 200 | 250 | 300 | 350 |  |
| ØD                  | 234 | 234 | 234     | 288   | 342 | 445 | 512 | 658 | 733 | 825 |  |
| App. H              | 225 | 224 | 226     | 237   | 260 | 337 | 345 | 357 | 401 | 434 |  |

🚓 COMPONENT MATERIA

NOTE Other materials are available upon request.

| ITEM<br>NO | COMPONENT       | ALUMINIUM       | CARBON STEEL | STAINLESS STEEL |  |  |  |
|------------|-----------------|-----------------|--------------|-----------------|--|--|--|
| 1          | BODY            | B26-319.F       | A216-WCB     | A351-CF8/CF8M   |  |  |  |
| 2          | ELEMENT         |                 | SS316L       |                 |  |  |  |
| 3          | ELEMENT HOUSING | SS304L          | SS304L       | SS304L/SS316L   |  |  |  |
| 4          | WEATHER HOOD    | SS304           | SS304        | SS304/SS316L    |  |  |  |
| 5          | GASKET          |                 | PTFE         |                 |  |  |  |
| 6          | BIRD SCREEN     | SS304           | SS304        | SS304/SS316     |  |  |  |
| 7          | GUIDE POST      | SS304           | SS304        | SS304/SS316     |  |  |  |
| 8          | FUSE            | LOW TEMP. METAL |              |                 |  |  |  |



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  $( \mathbf{I} )$ through the cell.

(1) The gaskets should be inspected and replaced if necessary.

