

SECTION 3.6_KSFD

FLAME ARRESTER DETONATION PROOF IN-LINE

INTRODUCTION

The model KSFD inline detonation flame arrester is designed, manufactured and tested according to API 2000, British Standard Specification Code BS7244, and EN 12874 / ISO 16852. **KSFD** detonation flame arresters provide protection against flame propagation in piping systems that are manifolded or have long runs. The arresters are designed to stop an ignited flammable vapor mixture traveling at subsonic or supersonic vapor velocities. They are also designed to protect against continuous burning against the SS316L flame cell for a specific period.

Operating Temperature @ Pressure

KSFD / DN 25 ~ DN 150	+ 90°C (=194°F) @ 1.2 bar abs
KSFD / DN 200 ~ DN 400	+ 90°C (=194°F) @ 1.1 bar abs

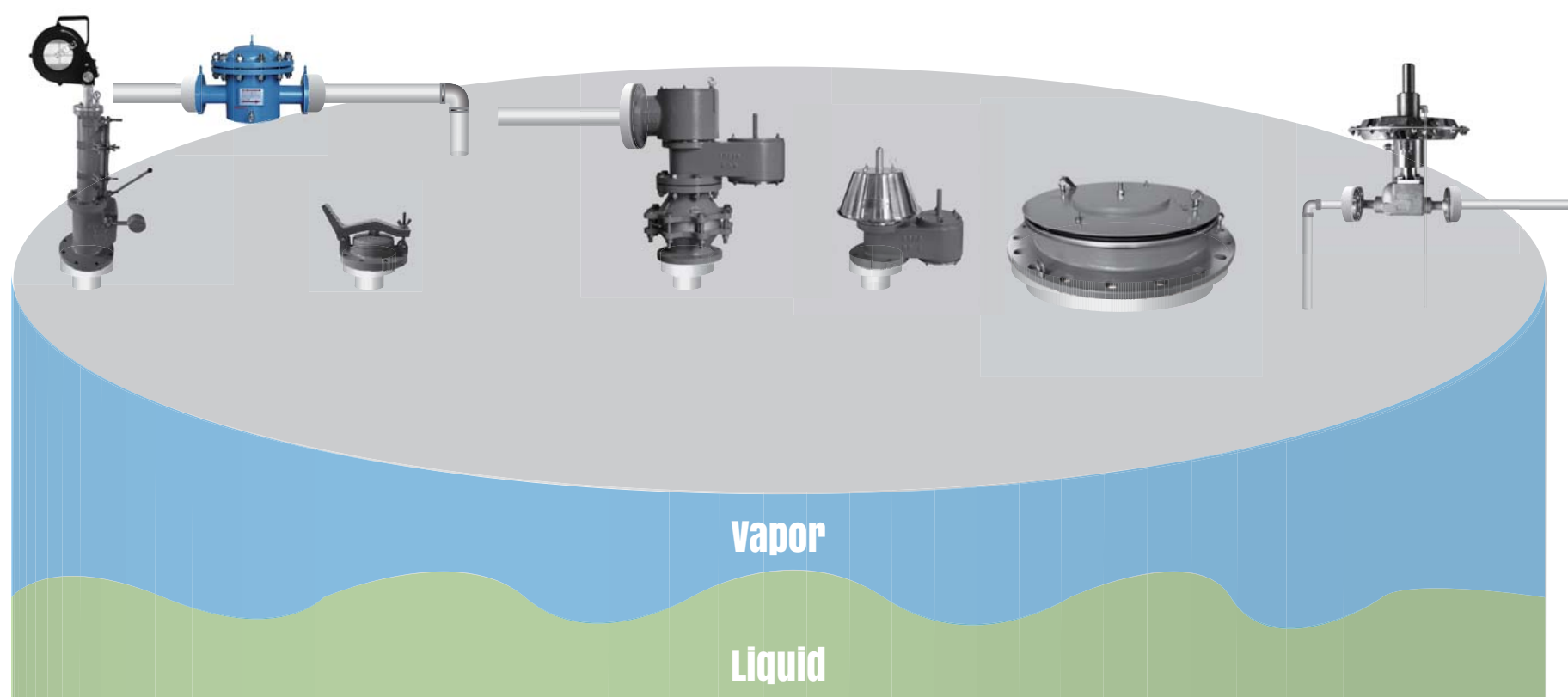
Body Materials Cast Steel, SS304, SS316, SS316L with various trims
(Different materials available on request)

Sizes range DN 25 ~ DN 400 with ANSI 150lb flanges(Different connections available on request)

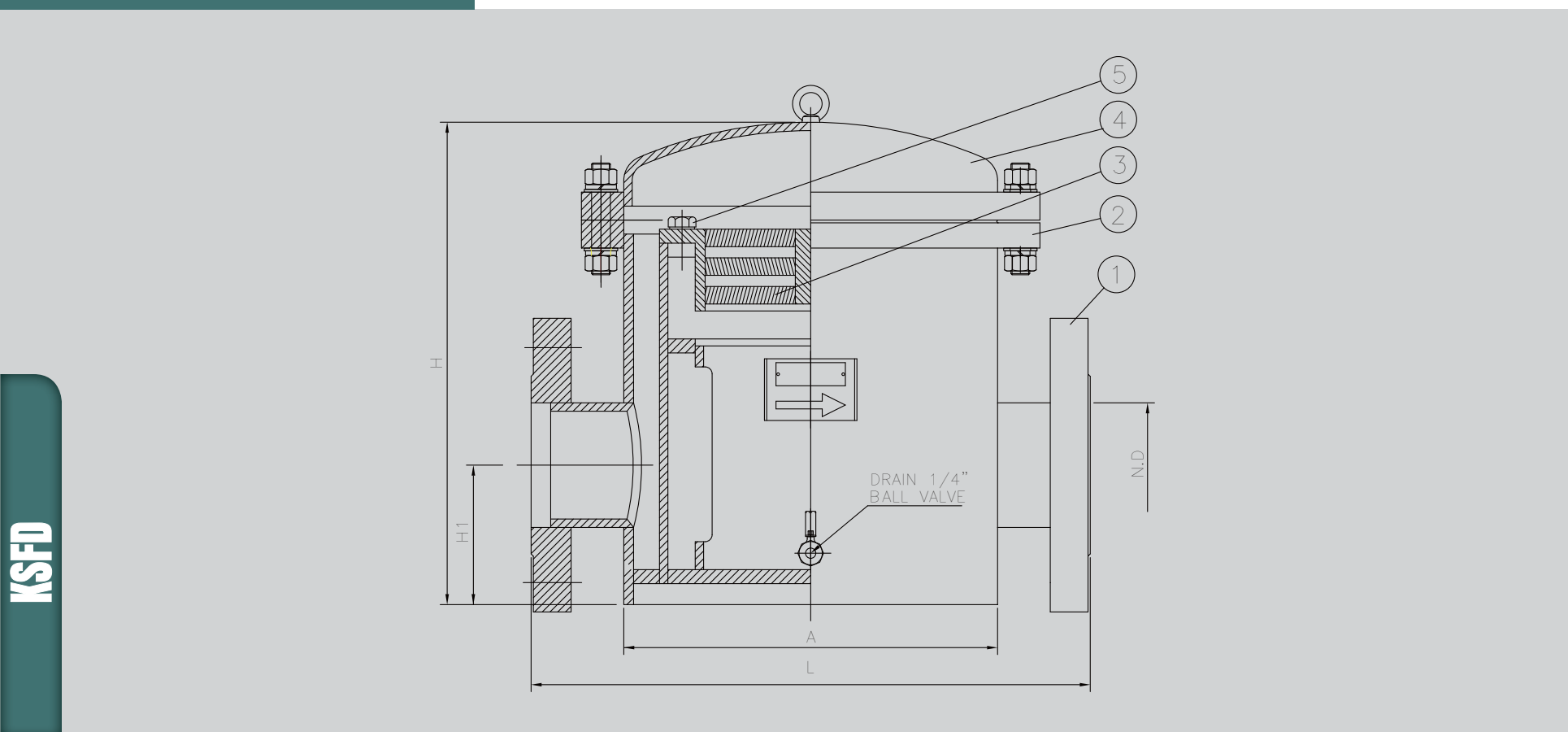
Rules & Certifications API 2000, BS7244, and EN 12874 / ISO 16852
Flame cell : NEC group D or IEC IIA Gases(Other gas groups all available as extras)

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

APPLICATION



OUTLINE DRAWING



DIMENSION TABLE

SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"
N.D	25	40	50	80	100	150	200	250	300	350	400
A	216	216	216	267	356	406	508	610	711	812	914
L	450	450	450	530	640	720	830	960	1080	1200	1320
H	325	325	325	340	405	495	560	660	760	845	970
HI	95	95	95	110	125	170	190	220	260	275	302

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

COMPONENT MATERIAL

ITEM NO	COMPONENT	C.S	S.S	S.S
1	BODY	WELDED C.S	WELDED SS304	WELDED SS316
2	ELEMENT RING	SS304	SS304	SS316L
3	ELEMENT		SS316L	
4	COVER	C.S	SS304	SS316L
5	STUD BOLT/NUT		S.S	
	STANDARD PAINTING	IN-OUT SIDE EPOXY 150 MICRON WITHOUT S.S & AL PART.		

NOTE C.S – Carbon Steel, S.S – Stainless Steel

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.