



SECTION 3.11_KSFD

FLAME ARRESTER DETONATION PROOF IN-LINE

INTRODUCTION

The model KSFD inline detonation flame arrester is designed, manufactured and tested according to API 2000 and 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 50 ~ DN 150	+ 60°C (=140°F) @ 0.11 Mpa
KSFD / DN 200 ~ DN 400	+ 60°C (=140°F) @ 0.11 Mpa

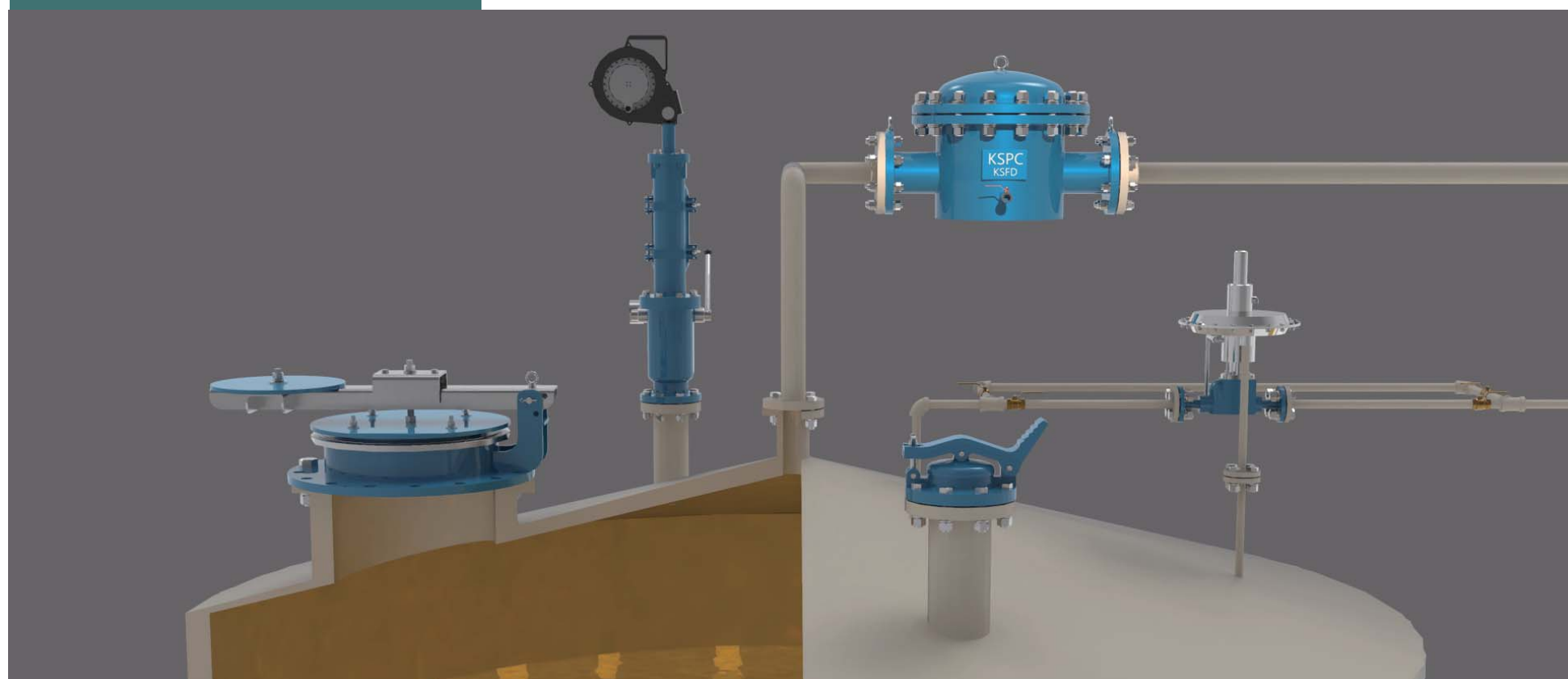
Body Materials Cast Steel, SS304, SS316, SS316L with various trims
(Different materials available on request)

Sizes range DN 50 ~ DN 400 with ASME 150Lb flanges
(Different connections available on request)

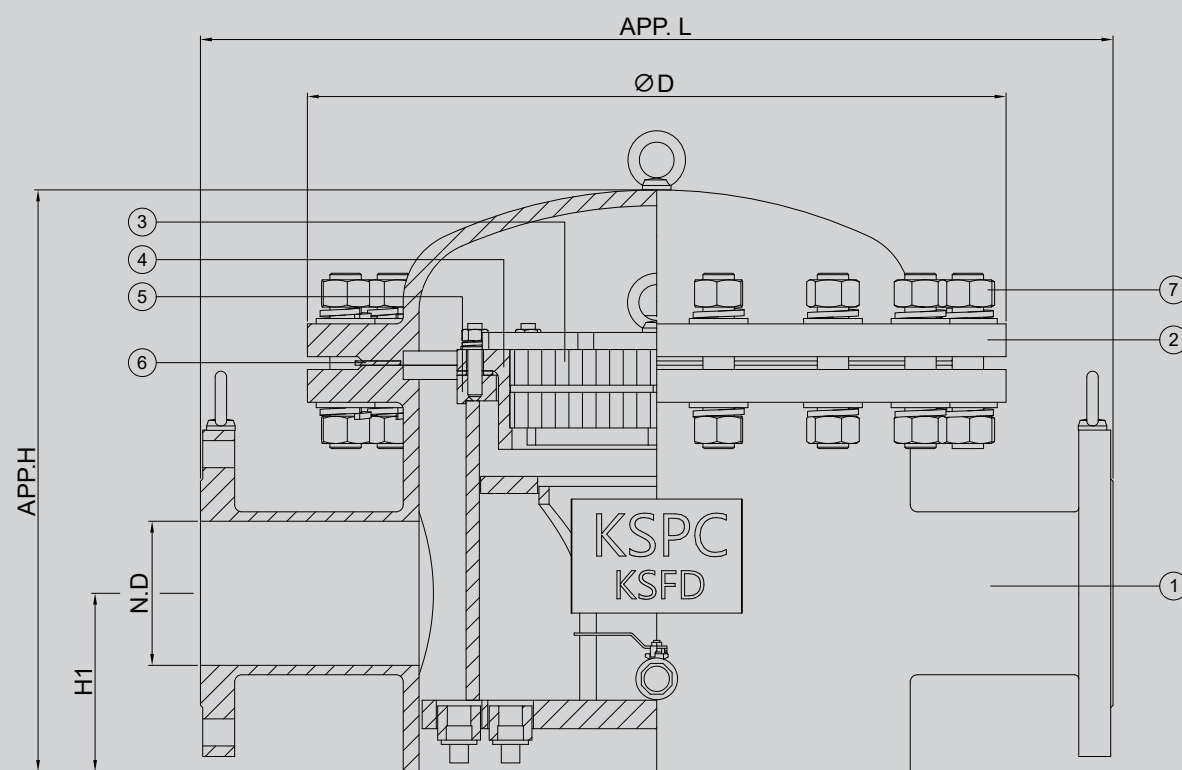
Rules & Certifications API 2000 / ISO 16852
Flame cell : NEC group D (=IIA), group C(=IIB3) and group B(=IIC), ETC.

Optimum / optional Design & Arrangements Steam jacket type

APPLICATION



OUTLINE DRAWING



KSPC

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KSPC

DIMENSION TABLE

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

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
N.D	50	80	100	150	200	250	300	350	400
ØD	330	400	490	560	675	795	905	1020	1235
App.L	450	530	640	720	830	960	1080	1200	1500
H1	95	110	125	170	190	220	260	275	330
App.H	325	340	405	495	560	663	760	845	1012

COMPONENT MATERIAL

NOTE Other materials are available upon request.

ITEM NO	COMPONENT	CARBON STEEL	SS304	SS316
1	BODY	WELDED CARBON STEEL	WELDED SS304	WELDED SS316
2	COVER	CARBON STEEL	SS304	SS316
3	ELEMENT		SS316L	
4	ELEMENT HOUSING	A351-CF8/SS304L	A351-CF8/SS304L	A351-CF8M/SS316L
5	MOUNTING FLANGE	A105	A182-F304	A182-F316L
6	GASKET	NON ASBESTOS or SPIRAL WOUND (NOTE)		
7	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.