



# SECTION 2.5\_KSVRFI/VRFI-A/VSFI/VSFI-A

## VACUUM RELIEF VALVE WITH FLAME ARRESTER

### INTRODUCTION

**The model KSVRFI and VSFI** vacuum relief valve with flame arrester are an advanced design for vent to atmosphere applications. Designed, manufactured and tested according to the API 2000 code, BS7244 and ISO16852. These valves utilize the latest technologies to provide protection against positive or vacuum over pressure and prevent air intake, evaporative losses of product and help to contain odorous and potentially explosive vapours.

### Setting Pressure

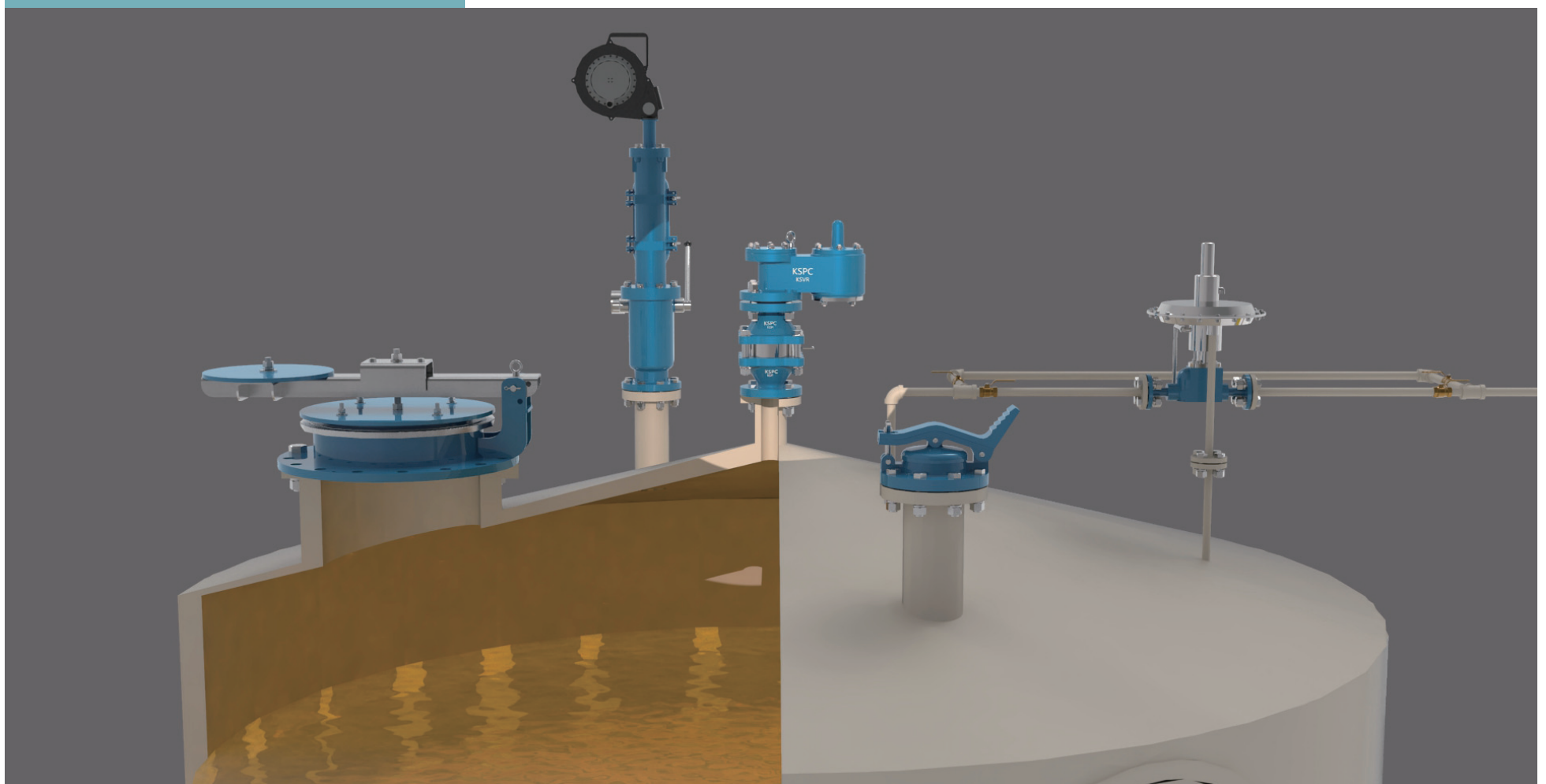
KSVRFI Weight Loaded model	Min. -20 mmW.C ~ Max. - 430 mmW.C
KSVSFI Spring Loaded model	Min. - 430 mmW.C ~ Max. - 9,000 mmW.C

**Body Materials** Aluminium, Carbon Steel, SS304 and SS316 with various trims  
(Different materials available on request)

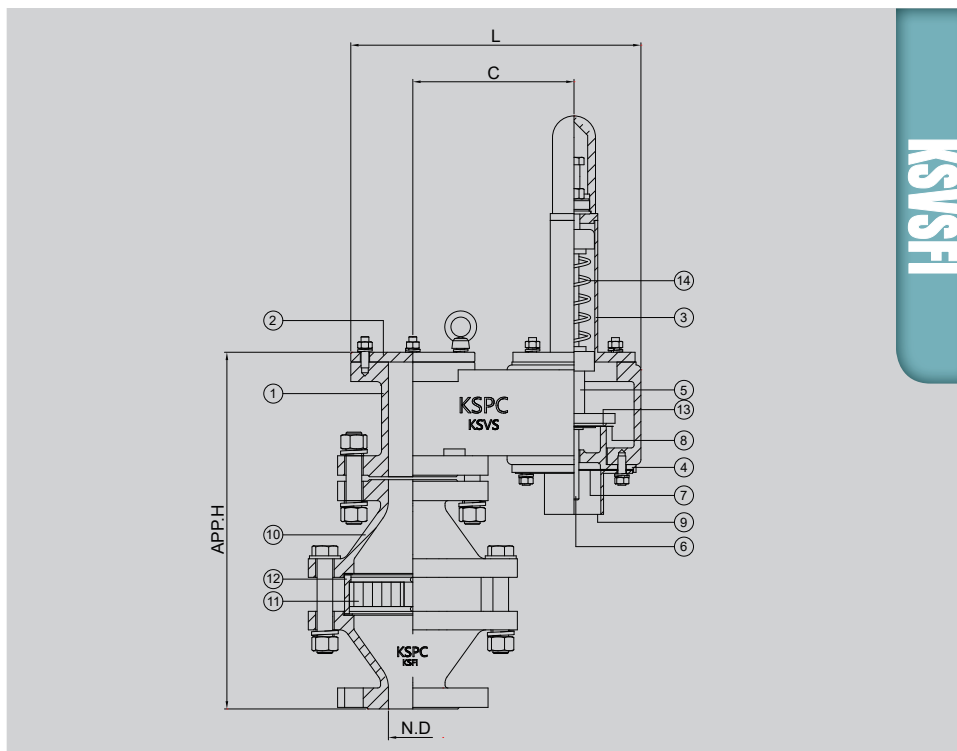
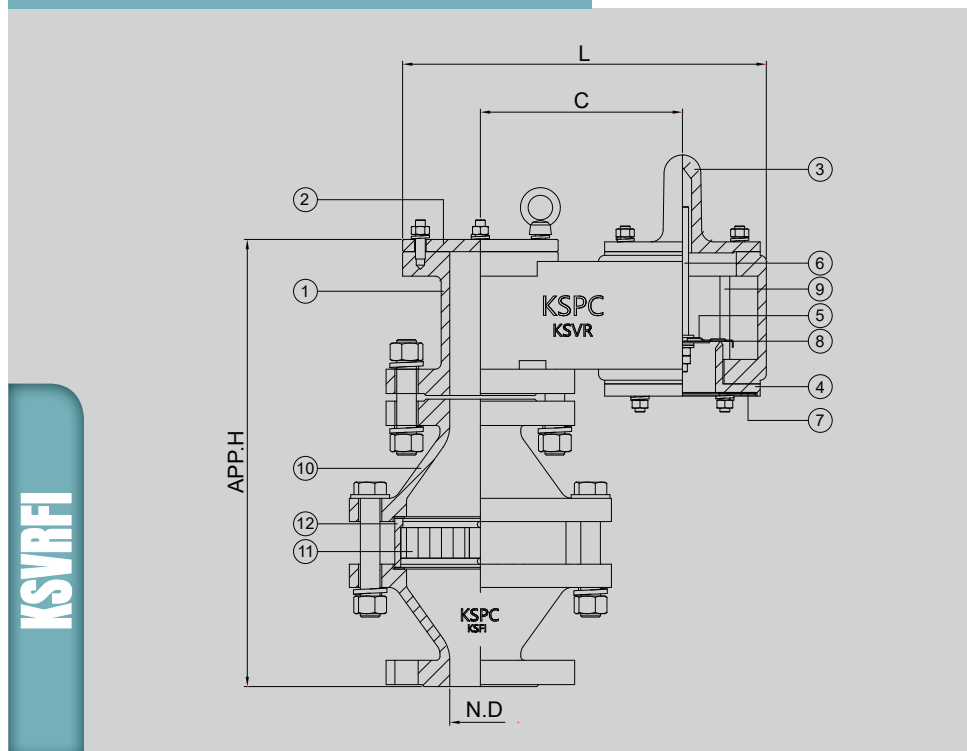
**Sizes range** DN 50 ~ DN 350 with ASME 150Lb flanges as standard  
(Different connections available on request)

**Rules & certifications** API 2000, BS7244 / ISO16852 & ATEX / KFI  
Flame cell : NEC group D (=IIA), group C(=IIB3) and group B(=IIC), ETC.

### APPLICATION



## OUTLINE DRAWING



## DIMENSION TABLE

SIZE	2"	3"	4"	6"	8"	10"	12"	14"
N.D	50	80	100	150	200	250	300	350
C	165	206	230	283	348	406	466	542
L	347	425	473	600	729	889	1008	1155
Approx. H	365	403	424	513	560	607	731	772

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

## COMPONENT MATERIAL

ITEM NO	COMPONENT	BODY	ALUMINIUM	CARBON STEEL	SS304	SS316
		TRIM	SS304	SS304	SS304	SS316L
1	BODY-1		B26-319.F	A216-WCB	A351-CF8	A351-CF8M
2	BLIND COVER		ALUMINIUM	CARBON STEEL	SS304	SS316L
3	VACUUM COVER		B26-319.F/SS304	C.S/SS304	A351-CF8	SS316/SS316L
4	VACUUM SEAT		B26-319.F/A351-CF8	A351-CF8	A351-CF8	A351-CF8M
5	VACUUM DISC		SS304	SS304	SS304	SS316L
6	VACUUM STEM		SS304	SS304	SS304	SS316
7	VACUUM SCREEN		SS304	SS304	SS304	SS316
8	DIAPHRAGM		TEFLON			
9	STEM GUIDE		SS304	SS304	SS304	SS316/SS316L
10	BODY-2		B26-319.F	A216-WCB	A351-CF8	A351-CF8M
11	ELEMENT		SS316L			
12	ELEMENT HOUSING		SS304	SS304	SS304	SS316
13	O-RING		VITON			
14	SPRING		SS304	SS304	SS304	SS316

KSVRFI

KSVSFI

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KSVRFI/VSFI