



# SECTION 7.1\_KS 105

## PILOT OPERATED PRESSURE RELIEF VALVE WITH PIPE AWAY

### INTRODUCTION

**The model K 105** is Pilot Operated Pressure Relief Valve discharges the volume flow without requiring pressure increase. Basically, Pilot valves are used for the valve shall be highly tight sealed up to the set pressure figures. The pilot valves provide the capacity to meet API standard 2000.

### Setting Pressure

KS 105 Permanent Setting	Min. + 50 mmW.C ~ Max. + 9,000 mmW.C
--------------------------	--------------------------------------

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

**sizes range** DN 50 ~ DN 300 with ASME 150Lb as Standard  
(Different connections available on request)

**Rules & certifications** API 2000

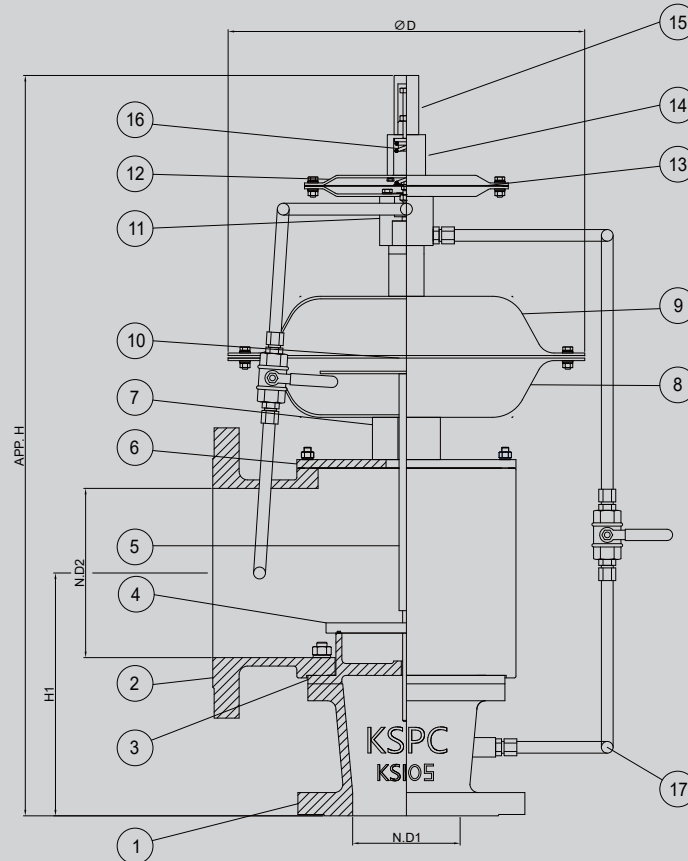
**Optimum / optional Design & Arrangments** Steam jacket type, Proximity type, Teflon Coating  
/Lining type

### APPLICATION



## OUTLINE DRAWING

**KS 105**



## DIMENSION TABLE

SIZE	2" x 3"	3" x 4"	4" x 6"	6" x 8"	8" x 10"	10" x 12"	12" x 14"
N.D 1	50	80	100	150	200	250	300
N.D 2	80	100	150	200	250	300	350
ØD	420	420	420	420	420	420	420
H 1	186	211	261	287	314	342	370
App. H	765	820	840	875	895	935	965

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

## COMPONENT MATERIAL

ITEM NO	COMPONENT	BODY	CARBON STEEL	SS304	SS316
		TRIM	SS304	SS304	SS316/316L
1	BODY - 1		A216-WCB	A351-CF8	A351-CF8M
2	BODY - 2		A216-WCB	A351-CF8	A351-CF8M
3	SEAT		A351-CF8	A351-CF8	A351-CF8M
4	O-RING		VITON (NOTE)		
5	DISC COVER		SS304	SS304	SS316L
6	PRESSURE COVER		SS304	SS304	SS316L
7	PRESSURE COVER HANDLE		SS304	SS304	SS316L
8	LOWER COVER		SS304	SS304	SS316L
9	UPPER COVER		SS304	SS304	SS316L
10	COVER DIAPHRAGM		VITON (NOTE)		
11	PILOT BODY		SS304	SS304	SS316L
12	PILOT COVER		SS304	SS304	SS316L
13	PILOT DIAPHRAGM		FEP (NOTE)		
14	PILOT HANDLE BODY		SS304	SS304	SS316L
15	PILOT HANDLE		SS304	SS304	SS316L
16	SPRING		SS304	SS304	SS316
17	SENSING LINE		SS304	SS304	SS316L

**NOTE** Other materials are available upon request.



Section 7.1  
KS 105