



HARSHAD ENGINEERING WORKS

PROVIDES HIGH QUALITY OVER PRESSURE PROTECTION
FOR AIR, GAS & STEAM IN STANDARDIZED DESIGN



An ISO 9001-2008 Company

SAFETY VALVE

CE 1128

SERIES # 004

DESIGN FEATURES

- SAFETY VALVE MANUFACTURED IN ACCORDANCE WITH REQUIREMENT OF ASME SECTION VIII DIVISION 1, API 526, API 527, EN ISO 4126 PART 1, IS 12992
- DIRECT SPRING OPERATED DESIGN
- FULL LIFT, FULL NOZZLE, SINGLE TRIM, & ATMOSPHERIC DISCHARGE DESIGN
- NON FERROUS METAL (BRASS & GUN METAL BRONZE) USE IN MATERIAL CONSTRUCTION
- SUPERIOR SEAT TIGHTNESS PRECISION LAPPED FLAT METAL TO METAL SEAT
- BEST USE IN SCREW COMPRESSORS SYSTEM, PRESSURE VESSEL, AIR RECEIVER TANK, BABY BOILERS, GENERATORS, ETC.
- CE CERTIFIED UNDER PED 97/23/EC CATEGORY VI MODULE H.



TECHNICAL DATA : -

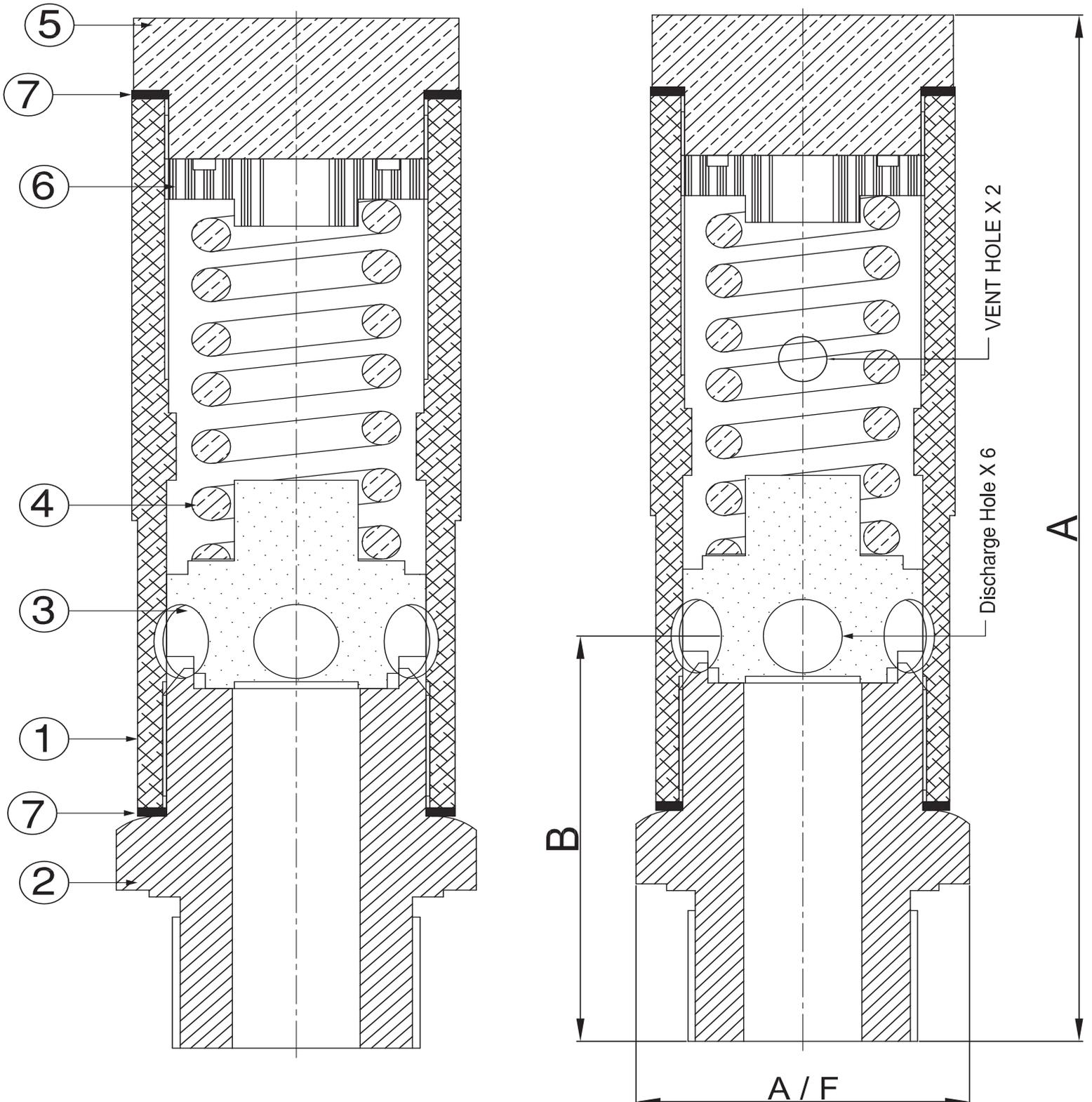
- SIZES : 1/2" TO 2" (ORIFICE "D", "F", "H")
- END CONNECTION : THREAD END (BSP, BSPT & NPT)
- SET PRESSURE RANGE : 1BARG TO 25BARG
- TEMPERATURE RANGE : -20°C TO 200°C
- APPLICATION : AIR, STEAM & GAS

HARSHAD ENGINEERING WORKS

WORK & OFFICE ADDRESS : -
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SERIES # 004
G.A.DRAWING



SERIES # 004**MATERIAL OF CONSTRUCTION**

PART LIST		MODEL # 004-14 STANDARD MATERIAL CONSTRUCTION	MODEL # 004-24 NON-FERROUS MATERIAL CONSTRUCTION
SR.NO.	DESCRIPTION	TEMPERATURE -20°C TO 200°C	TEMPERATURE -20°C TO 200°C
01	BODY	S.G.IRON	GUN METAL BRONZE (IS 318 LTB2)
02	NOZZLE	BRASS (IS 319 GR.1)	BRASS (IS 319 GR.1)
03	PISTON / DISC	BRASS (IS 319 GR.1)	BRASS (IS 319 GR.1)
04	SPRING (ZINC COATED)	SPRING STEEL (IS 4454 GR.II / EN42)	SPRING STEEL (IS 4454 GR.II / EN42)
05	CAP	S.G.IRON	BRASS (IS 319 GR.1)
06	SETTING SCREW	BRASS (IS 319 GR.1)	BRASS (IS 319 GR.1)
07	“O” RING	NITRILE RUBBER	NITRILE RUBBER

SAFETY VALVE

SERIES # 004

TECHNICAL DETAIL

SR.NO.	SIZES	ORIFICE (API526 & EN ISO 4126)		MAX SET PRESSURE (IN BARG)	A (MM) ± 5	B (MM) ± 2	A / F (MM) ± 2	APPROX WEIGHT (KG)
		DESIGNATION & EFFECTIVE AREA (IN ²)	ACTUAL AREA IN ² & INLET BRE (MM)					
1	1/2"	"D" (0.110)	0.15 (11MM)	25	184	60	30.0	1.2
2	3/4"	"F" (0.307)	0.35 (16MM)	25	190	62	36.5	1.5
3	1"	"F" (0.307)	0.35 (17MM)	25	210	65	37.0	1.8
4	1-1/4"	"F" (0.307)	0.35 (17MM)	25	220	71	50.0	2.2
5	1-1/2"	"F" (0.307)	0.35 (17MM)	25	232	83	52.5	2.5
6	2"	"H" (0.785)	0.82 (26MM)	15	275	103	66.5	4.1

NOTE :-

- SERIES # 004 SAFETY VALVE IS AVAILABLE IN THREAD END CONNECTION ONLY. (BSP, BSPT & NPT OR AS PER CUSTOMER SPECIFICATION)
- HYDRO TEST IS CONDUCTED FOR NOZZLES AT 1.5 TIMES OF DESIGN PRESSURE OF SAFETY VALVE AS PER API 526, API 598, EN ISO 4126 PART 1 & IS 12992.
- PNEUMATIC NOZZLE TEST CONDUCT ON 7BARG (100PSIG) AS PER ASME PRESSURE VESSEL SECTION VIII DIVISION.1.
- SEAT LEAKAGE TEST IS CONDUCTED AS PER API 527 OR AS SPECIFIED.
- TECHNICAL DATA SHEET WILL BE PROVIDED ON REQUEST.
- WE OFFER THIRD PARTY INSPECTION IF REQUIRED.(TUV, LLYODS, BVQI, SGS, ETC.)
- SAFETY VALVE IS SUPPLIED WITH ONE SET OF TEST CERTIFICATE OF HYDRO TEST, SET PRESSURE TEST & SEAT LEAKAGE TEST.
- SAFETY VALVE COMES WITH GUARANTEE OF 12MONTHS FROM THE DATE OF SUPPLY.