



HARSHAD ENGINEERING WORKS

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



ISO 9001 CERTIFIED COMPANY

SAFETY VALVE

SERIES # 099

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, FULL LIFT, FULL NOZZLE, SINGLE TRIM, LOW CAPACITY & ATMOSPHERIC DISCHARGE DESIGN
- FIXED BLOW DOWN & ZERO MAINTENANCE DESIGN.
- SUPERIOR SEAT TIGHTNESS PRECISION LAPPED FLAT METAL TO METAL SEAT
- BEST USE IN SMALL RECIPROCATING & SCREW COMPRESSORS, PRESSURE VESSEL, AIR RECEIVER TANK, BABY BOILERS, GENERATORS, ETC.



TECHNICAL DATA : -

- SIZES : 1/4", 3/8" & 1/2" (ORIFICE "B" & "D")
- END CONNECTION : THREAD END (BSP, BSPT & NPT)
- SET PRESSURE RANGE : 1BARG TO 21BARG
- TEMPERATURE RANGE : -20°C TO 200°C
- APPLICATION : AIR, GAS, STEAM

REV.1 / 01.06.16

HARSHAD ENGINEERING WORKS

WORK & OFFICE ADDRESS : -

S-121 TO S-124, VIVEKANAND INDUSTRIAL ESTAE, NEAR RAKHIAL CROSS ROAD, RAKHIAL, AHMEDABAD - 380 023. GUJARAT, INDIA.

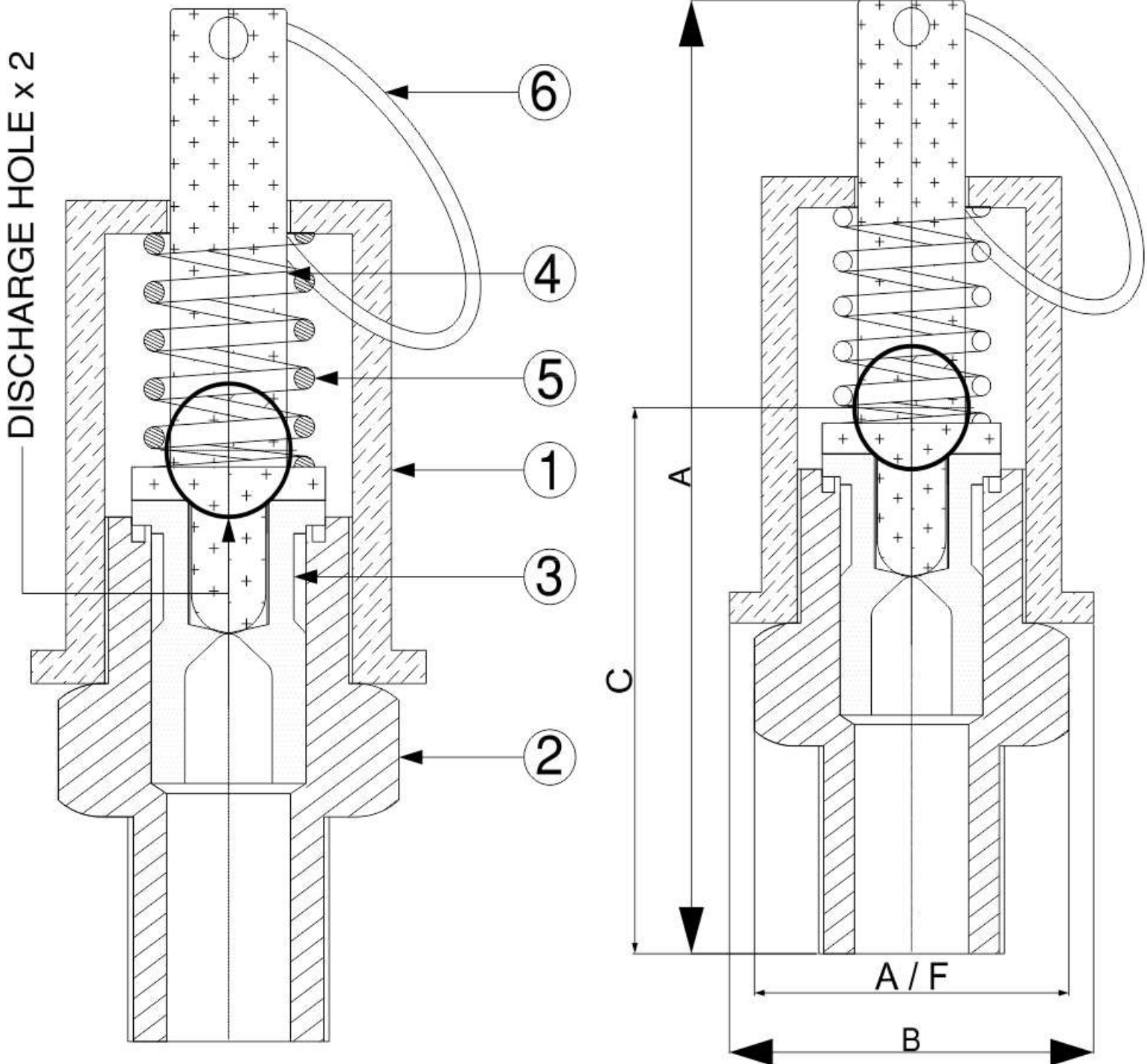
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SERIES # 099

G.A.DRAWING





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SERIES # 099**MATERIAL OF CONSTRUCTION**

PART LIST		MODEL # 099 BRASS STANDARD CONSTRUCTION
SR.NO.	DESCRIPTION	TEMPERATURE -20°C TO 200°C
01	BODY	BRASS (IS 319 GR.1)
02	NOZZLE	BRASS (IS 319 GR.1)
03	DISC	BRASS (IS 319 GR.1)
04	SPINDLE	BRASS (IS 319 GR.1)
05	SPRING (ZINC COATED)	SPRING STEEL (IS 4454 GR.II)
06	LIFTING PIN	S.S.304



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TECHNICAL DETAIL

SR.NO.	SIZES	ORIFICE (API526 & EN ISO 4126)		MAX SET PRESSURE (IN BARG)	A (MM) ± 3	B (MM) ± 2	C (MM) ± 2	A / F (MM) ± 2	APPROX WEIGHT (KG)
		DESIGNATION & EFFECTIVE AREA (IN ²)	ACTUAL AREA IN ² & INLET BRE Ø(MM)						
1	1/4"	"B" (0.049)	0.06 (7.5MM)	21	60	26	38	19	0.10
2	3/8"	"D" (0.110)	0.12 (10MM)	21	65	29	36	24	0.13
3	1/2"	"D" (0.110)	0.12 (10MM)	21	70	29	42	24	0.15

NOTE :-

- 1.) SERIES # 099 SAFETY VALVE IS AVAILABLE IN THREAD END CONNECTION ONLY. (BSP, BSPT, ISO7R & NPT OR AS PER CUSTOMER SPECIFICATION)
- 2.) 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.
- 3.) PNEUMATIC NOZZLE TEST CONDUCT ON 7BARG (100PSIG) AS PER ASME PRESSURE VESSEL SECTION VIII DIVISION.1.
- 4.) SEAT LEAKAGE TEST IS CONDUCTED AS PER API 527 OR AS SPECIFIED.
- 5.) TECHNICAL DATA SHEET WILL BE PROVIDED ON REQUEST.
- 6.) WE OFFER THIRD PARTY INSPECTION IF REQUIRED.(TUV, LLYODS, BVQI, SGS, ETC.)
- 7.) SAFETY VALVE IS SUPPLIED WITH ONE SET OF TEST CERTIFICATE OF HYDRO TEST, SET PRESSURE TEST & SEAT LEAKAGE TEST.
- 8.) SAFETY VALVE COMES WITH WARRANTY OF 12MONTHS FROM THE DATE OF SUPPLY OR 18 MONTHS FROM THE DATE OF COMMISSIONING WHICH EVER IS EARLIER (CONDITION APPLY)