



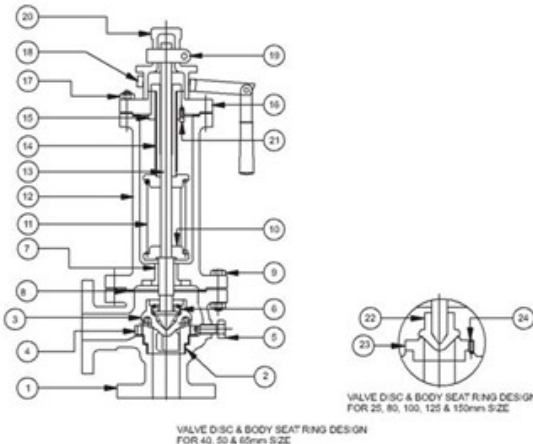
SINGLE POST HI-LIFT SAFETY VALVES

SPECIFICATIONS

SINGLE POST HI-LIFT SAFETY VALVES, RIGHT ANGLE PATTERN, FLANGED ENDS AS PER RELEVANT TABLE OF BS-10.

CERTIFICATE

ITEMS CAN BE SUPPLIED WITH CERTIFICATE OF MANUFACTURE AND TEST ON FORM III-C AS PER REGULATION 269 OF IBR.



STANDARD MATERIAL COMBINATION

PART NO	QTY.	DESCRIPTION	MATERIALS
			CAST STEEL
1	1	BODY	C.S. ASTM A216:93 Gr. WCB
2	1	BODY SEAT RING	ASTM A 276 TYPE 410 + HARD FACING
3	1	VALVE DISC	ASTM A 276 TYPE 410 + HARD FACING
4	1	REGULATING RING	BRONZE TO IBR CLAUSE 282(a)(IV) Gr.B
5	1	REGULATING SCREW	H.T. BRASS
6	1	STEM LOCK NUT	BRONZE TO IBR CLAUSE 282(a)(IV) Gr.B
7	1	STEM BUSH	BRONZE TO IBR CLAUSE 282(a)(IV) Gr.B
8	1	GASKET	C.A.F. TO IS 2712
9	TO SUIT	BOLTS & NUTS	CARBON STEEL TO BS 916
10	2	SPRING DISC	C.I. TO IBR CLAUSE 86 TO 93 Gr.A
11	1	SPRING	C.S. TO IBR CLAUSE 307-314
12	1	SPRING CHAMBER	C.I. TO IBR CLAUSE 86 TO 93 Gr.A
13	1	STEM	13% Cr.S.S. TO ASTM A182 Gr. F6a
14	1	SPRING ADJUSTING SCREW	BRONZE TO IBR CLAUSE 282 (a) (IV) Gr.B
15	1	COVER BUSH	BRONZE TO IBR CLAUSE 282 (a) (IV) Gr.B
16	1	COVER	C.I. TO IBR CLAUSE 86 To 93 Gr.A
17	TO SUIT	STUDS & NUTS	CARBON STEEL TO BS 916
18	1	HANDLE	C.I. TO IBR CLAUSE 86 TO 93 Gr.A
19	1	CAP COTTER	BRONZE TO IBR CLAUSE 282 (a) (IV) Gr. B
20	1	HOUSING CAP	C.I. TO IBR CLAUSE 86 TO 93 Gr.A
21	1	SET SCREW	BRASS
22	1	BODY SEAT RING	ASTM A 276 TYPE 410 + HARD FACING
23	1	VALVE DISC	ASTM A 276 TYPE 410 + HARD FACING
24	3	LOCKING SCREW	BRASS

TEST PRESSURES

ITEM	ITEM CODE NO.	MAX BOILER OPERATING PRESSURE	SHELL TEST (HYDROSTATIC)	CODR
C.S. SINGLE POST SAFETY VALVE	BM008	250 psig (17.24 bar)	500 psig (39.5 bar)	INDIAN BOILER REGULATIONS

NOTE: The above data is subject to change without notice due to our continuing product improvement program.

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SINGLE POST HI-LIFT SAFETY VALVES

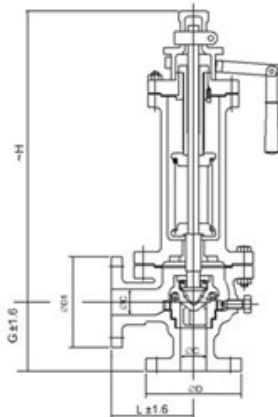


FIG. NO. BM008

"LEADER" spring loaded safety valve incorporates an adjusting ring which gives a high lift to valve and hence ensures a better discharge capacity. advantage is taken of the reaction of escaping steam to augment the lift ; the adjusting ring merely varies the blow down as may be necessary in the stipulated set pressure. to avoid unauthorised alteration to the set pressure the adjusting screw and locking ring are encased by a cast iron cap which is attached to the valve spindle by a cotter and a pad lock. Every safety valve is provided with easing lever.

ITEM	CODE NO.	END DETAILS
C.S. Single Post Safety Valve (Right Angle)	BM 008	Intet Flange to BS 10 Table H & Outlet Flange to BS 10 Table D

DIMENSIONAL DATA											
DN NPS	25 1	32 1 1/4"	40 1 1/2	50 2	65 2 1/2	80 3	90 3 1/2	100 4	125 5	150 6	
L	108	127	133.5	152.4	165	190.5	203	203	228.5	241.5	
∅C	25.4	31.75	38.1	50.8	63.5	76.2	88.9	101.6	127	152.4	
H	365	469	580	697	745	658	777	915	1130	1080	
G	89	95	101.5	133.5	140	152.5	165	178	216	216	
∅D	114.3	121	133.5	152.5	165	184.2	203.2	213	254	279.4	
∅D1	121	133.5	139.7	165	184.2	203	216	228.5	279.4	304.8	
Item Code Nos.	Aprox. Wt. * CAST STEEL	28.000 BM 008 G	37.750 BM 008 H	45.8 BM 008 L	52 BM 008 J	77 BM 008 K	83.265 BM 008 L	102.5 BM 008 M	114.768 BM 008 N	174.663 BM 008 O	202.345 BM 008 P
RELIEVING CAPACITY (In Kg/hr. Of Dry Saturated Steam at Set Pressure)											
NOMINAL SIZE SET PRESSURE (IN KG/CM2)	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
1.0	82	128	185	329	514	740	1000	1150	2050	2580	5230
2.0	122	191	276	491	767	1104	1500	1720	3050	3870	7820
3.0	162	254	367	653	1020	1469	2000	2290	4070	5150	10410
4.0	230	317	458	815	1273	1833	2498	2860	5060	6430	13010
5.0	243	380	549	977	1526	2198	2995	3430	6070	7710	15600
6.0	283	443	640	1139	1780	2562	3490	4000	7080	9000	18200
7.0	324	506	731	1301	2033	2927	3980	4570	8080	10280	20790
8.0	364	569	822	1463	2286	3291	4480	5140	9090	11560	23380
9.0	405	632	914	1625	2539	3656	5110	5710	10100	12840	25980
10.0	445	695	1005	1787	2792	4020	5470	6280	11110	14130	28570
12.0	526	821	1187	2111	3299	4749	6470	7420	13130	16690	33760
15.0	647	1010	1460	2597	4058	5843	7960	9140	16170	20560	41580
17.57	751	1172	1695	3014	4709	6780	9230	10600	18760	23850	48230
NOTE: For Superheated Steam, divide the capacity given above by the factor. WHEN ORDERING PLEASE STATE 1. Boiler Operating Pressure. 2. Set Pressure. 3. Maximum evaporation of boiler in lbs. Or kg/hr. $K = \sqrt{\frac{1+2.7T}{1000}}$ Where T=Degree of Superheat (°C) 4. Code No. 5. Flanges drilling. Valves are supplied with undrilled flanges unless otherwise specified.											
NOTE: The above data is subject to change without notice due to our continuing product improvement program. (* WEIGHT GIVEN IN KGS)											