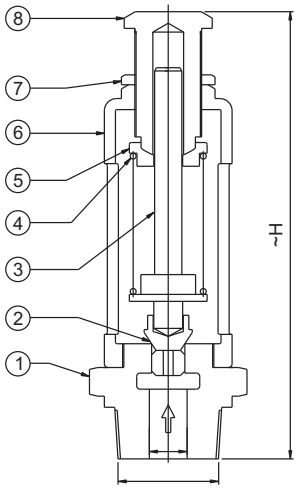
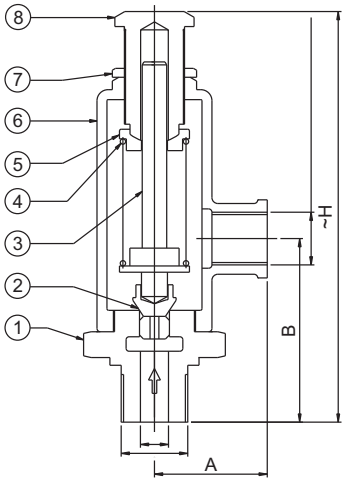
BRONZE SPRING LOADED RELIEF VALVE



BM014



BM016

BM014

BM016

STANDARD MATERIAL COMBINATION

P.NO.	QTY.	DESCRIPTION	MATERIALS	SPECIFICATIONS
1	1	BODY	BRONZE	EN 1982 Gr. CC491K
2	1	DISC	BRONZE	EN 1982 Gr. CC491K
3	1	STEM	BRASS ROD	DIN EN 12165:98 CW721R
4	1	SPRING	CARBON STEEL	IBR CLAUSE 307
5	1	SPRING DISC	BRONZE	EN 1982 Gr. CC491K
6	1	SPRING CHAMBER	BRONZE	EN 1982 Gr. CC491K
7	1	LOCKING NUT	BRONZE	EN 1982 Gr. CC491K
8	1	ADJUSTING SCREW	BRONZE	EN 1982 Gr. CC491K

DIMENSIONAL DATA

NPS	½	3/4	1	1 1/4	1 ½	2	2 ½	3
H	140	153	178	195	222	246	375	464
Aprox. Wt. ⅄								
Product Code Nos.	BM014 D	BM014 F	BM014 G	BM014 H	BM014 I	BM014 J	BM014 K	BM014 L
H	140	153	178	195	222	246	375	464
A	35	41	45	51	57	70	81	95
B	56	66	70	79	94	100	116	130
Aprox. Wt. ⅄								
Product Code Nos.	BM016 D	BM016 F	BM016 G	BM016 H	BM016 I	BM016 J	BM016 K	BM016 L

TEST PRESSURES

MAX. WORKING PRESSURE	SHELL TEST (HYDROSTATIC)	MAX. SET PRESSURE (WATER OR AIR)
150 psig (10.35 bar) Water or Air	300 psig (20.7 bar)	150 psig (10.35 bar)

NOTE: The above data is subject to change without notice due to our continuing product improvement program. **(⅄ WEIGHT GIVEN IN KGS)**

BRONZE SPRING LOADED RELIEF VALVES

PRODUCT CODE NOS.		
PRODUCT	**CODE NO.**	**END DETAILS**
Bronze spring loaded Relief Valve, open Discharge, Threaded Inlet	BM014	Inlet : screwed male BSP Taper to Bs 21
Bronze spring loaded Relief Valve, Angle Pattern, Enclosed Discharge, Threaded Ends	BM016	Inlet: Screwed male BSP Taper Threads to BS 21 Outlet: Screwed female BSP paralled Threads to Bs21

APPLICATION

Relief valves are meant for use on Liquid service (i.e. for incompressible fluids). The maximum set pressure for which these valves can be supplied is 150 psig (10.34 bar). Recommended maximum working temperature is 435°F (225°C).

These valves start opening at the set pressure & open in direct proporation to the increase in pressure order the set pressure.
They required above 20% over pressure to open wide. As the pressure drop, they start to close and shut at approximately the set pressure.

INSTALLATION.

Relief valves should always be installed as near as possible to the vessels they protect. They should be set atleast 20 percent above the normal working pressure. Before installing relief valves. All particles of scale or dirt should be carefully removed from the pipe connection. When relief valves are installed on pipe lines, the valve should one size smaller than the pipeline. When relief valves are installed where they are subject to back pressure on the outlet side, they should be fitted pressure tight cap over the adjusting screw in order to prevent leakage. If this is the requirement, it should be clearly stated in the enquiry or order.

All valves should be installed with their spindles in vertical upright position.

TABLE 1 RELIEVING CAPACITIES
LIQUID RELIEF VALVES AT 25% OVER PRESSURE

SIZE	½	3/4	1	1 1/4	1 ½	2	2 ½	3
Set Pressure Kg/cm²g	CAPACITY IN KILOGRAMS PER HOUR OF WATER							
1.0	417	938	1669	2607	3755	6676	10431	18776
2.0	590	1327	2360	3688	5310	9441	14752	21243
3.0	708	1593	2832	4425	6372	11329	17702	25491
4.0	834	1877	3338	5215	7510	13352	20862	30042
5.0	933	2097	3731	5829	8396	14927	23324	41984
6.0	1021	2097	4088	6385	9197	16352	25550	45991
7.0	1103	2481	4415	6897	9934	17663	27597	49676
8.0	1179	2653	4720	7373	10620	18882	29503	53106
9.0	1251	2814	5007	7821	11265	20028	31293	56328
10.54	1353	3045	5418	8463	12190	21673	33864	60956

To obtain the discharge capacities at 20% over-pressure multiply the discharge capacity at 25% over-pressure by. 0.97

INFORMATION REQUIRED WHILE ENQUIRING/ORDERING

1. Size
2. Item code no.
3. Fluid to be handled
4. Set pressure
5. Working temperature
6. Maximum allowable over pressure
7. Discharge capacity.
8. End connections: if required other than standard.
9. Whether flanges of flanged valves are required drilled or undrilled.
10. Scope of inspection if it is to be carried out at works before despatch.

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