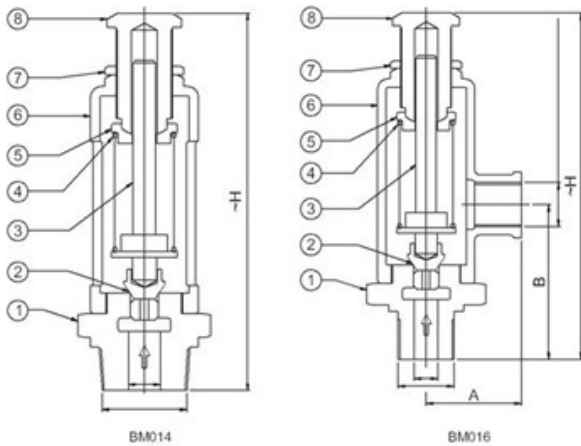




BRONZE SPRING LOADED RELIEF VALVE



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	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
H	140	153	178	195	222	246	375	464
Aprox. Wt. ^	0.8700	1.2500	1.9000	2.3750	3.7000	6.8000	11.0800	---
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. ^	1.355	1.800	2.545	3.200	4.490	9.700	11.490	---
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)								

(01)



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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 paralalled 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 proportion to the increase in pressure over 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	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Set Pressure Kg/cm ² g	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.

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

(02)



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