

6. THERMAL RATING (PT)

The thermal rating is that power that can be applied at the input of the bevel gearboxes, working continuously at an ambient temperature of 68°F such as to maintain the lubrication temperature under 212°F.

Size	BG12	BG19	BG24	BG32	BG38	BG42	BG55	BG75
Input Power PT (kW)	1.5	3	6	10	16	20	35	60
Input RPM	2800	2800	2800	2800	2000	2000	1500	1000

When conditions are different from those above, it will be necessary to consider the following factors:

Ambient temperature factor : **T**

temperature °F	14	32	50	68	86	104	122
T	1.3	1.25	1.15	1	0.9	0.8	0.7

Duty factor : **ED**

% duty factor	100	80	60	40	20
ED	1	1.2	1.4	1.6	1.8

Thermal rating (PT) should be multiplied by the above factors to obtain the actual thermal rating (PTR):

$$\text{PTR} = \text{PT} \times (\text{T} \times \text{ED})$$

When the continuous absorbed rating in the bevel gearbox is over the actual thermal rating (PTR), excess heat must be removed by artificial cooling.

7. WEIGHT

Weights are referred to units type A, ratio 1:1.

Size	BG12	BG19	BG24	BG32	BG38	BG42	BG55	BG75
Weight lbs	5.6	13.3	27	49	82	126	192	563

8. LUBRICANTS (QUANTITIES)

Lubricants are referred to units type A, ratio 1:1.

Size	BG12	BG19	BG24	BG32	BG38	BG42	BG55	BG75
Grease (l)	0.15	0.22	0.35	0.9	1.7	3.5	5.5	14
Oil (l)	0.1	0.15	0.22	0.6	1.1	2.2	3.6	9