

BUSHING FEATURES

PL FACTOR

Each section of a pump or motor should be regarded as a single unit with corresponding power input requirements. The entire input horsepower is fed through the drive shaft, the power delivered to or from the unit is limited by the strength of the shaft. The limit is defined as the "PL" factor. "PL" being the operating pressure in PSI and the "L" the sum of the gear widths in inches.

In multiple units the "PL" must be calculated for each connecting shaft and must include the sum of the gear widths driven by it.

(Each shaft has a unique "PL" factor as can be seen in the table below)

Pressure (PSI) x Total Gear Width (Inches) = PL Factor.

PL FACTOR MUST NOT EXCEED FIGURE SHOWN IN CHART FOR SHAFT TYPE

SHAFT TYPE		SOLID SHAFT & GEAR	LOOSE SHAFT (CONTINENTAL SHAFT)
215	SAE "A" Spline	4 450	-
	SAE "A" Key	3 600	-
	SAE "B" Spline	13 400	-
	SAE "B" Key	9 900	-
	Connecting Shaft	-	5 550
230	SAE "B" Spline	8 450	6 250
	SAE "B" Key	6 250	6 250
	SAE "B-B" Spline	13 000	6 250
	SAE "B-B" Key	9 300	6 250
	SAE "C" Spline	-	6 250
	SAE "C" Key	-	6 250
	Connecting Shaft	-	6 250
250	SAE "B" Spline	6 450	6 450
	SAE "B" Key	4 750	4 750
	SAE "B-B" Spline	9 900	9 900
	SAE "B-B" Key	7 100	7 100
	SAE "C" Spline	19 100	9 000
	SAE "C" Key	13 900	9 000
	Connecting Shaft	-	9 000
265	SAE "B" Spline	5 050	5 050
	SAE "C" Spline	14 900	11 950
	SAE "C" Key	10 800	10 800
	Connecting Shaft	-	11 900