



Type B Plain With Hub

Type B

Steel

No.	Catalog	Pressure	Diameter			Bore (Inches)		Hub (Inches)		Weight Lbs.	1
Teeth	Number	Angle (Deg.)	Pitch	Outside	Туре	Stock	Max.*	Diameter	Proj.	(App.)	ı
12	S612BS 1	14-1/2	2.000	2.333	В	1.000"Bore	1/4"kw	1-1/2	7/8	1.1	1

Rules and Formulas For Spur Gear Calculations

Diametral Pitch Diametral Pitch is the Number of Teeth to Each Inch of the Pitch Diameter.

To Find	Having	Rule	Formula
The Diametrical Pitch	The Circular Pitch	Divide 3.1416 by the Circular Pitch	$DP = \frac{3.1416}{CP}$
The Diametrical Pitch	The Pitch Diameter and the Number of Teeth	Divide the Number of Teeth by Pitch Diameter	$DP = \frac{N}{D'}$
The Diametrical Pitch	The Outside Diameter and Number of Teeth	Divide the Number of Teeth plus 2 by Outside Diameter	$DP = \frac{N+2}{D}$