



Nylon Sleeve Gear Couplings

(AVAILABLE SIZE: D-19, D-28, D-38, D-48)



Assembly Procedure

Maximum permissible angular misalignment is 1.5 degrees. Ensure that the coupling hubs easily fit on the shaft. Do not use undue force. Maintain gap between hubs as shown in sketch. Use grub screws to locate gear hubs on their respective shafts.

For shock load applications use the following formula:

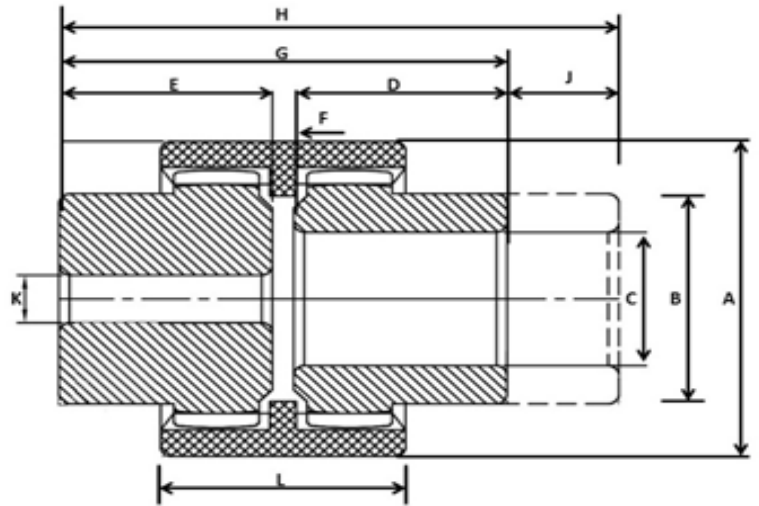
$$\text{Rating} / 100 \text{ RPM of coupling} = \frac{\text{HP of application} \times 100 \times F}{\text{RPM of application}}$$

	Load Factor (F)	Load Factor (F)
Application	Electric Motor	IC Engines
Uniform Load	1.0	1.2
Medium Shock	1.25	1.5
Heavy Shock	1.75	2.0

FEATURES

- The LAIKA 'D' series couplings are effectively used in applications such as Motor/ Generator sets, pump sets and many light to medium duty industrial coupling applications.
- The LAIKA 'D' series Couplings consists of two crowned gear teeth steel hubs connected by a polymer graded sleeve.
- The sleeve is manufactured from graded and thermally conditioned polyamide,
- Reduces machinery noise.
- Electrically insulating.
- Our current sizes can operate 1 HP to 30 HP motor.
- Easy to assemble, Self-lubricated to provide a long maintenance free life.
- Can accommodate axial, angular and parallel misalignment.
- Nylon sleeve has high resistance to condensation and water, hydrocarbon based petroleum, and alcohols.
- Not ideal for use with acids, benzyl based products, cresol or glycols.
- The sleeve has high resistance to atmospheric humidity and an operating temperature range of -20°C to $+160^{\circ}\text{C}$ with ability to withstand 180°C for short durations.

D-SERIES



DIMENSIONS

Couplings Size	A	B	Max Bore C	D	E	F	G	H	Clearance J	Pilot Bore K	L
D-19	50	30	19	25	25	4	54	70	16	11	36
D-28	68	44	28	40	40	4	84	104	20	11	45
D-38	86	58	38	40	40	4	84	104	20	11	46
D-48	102	68	48	50	50	4	104	126	22	15	48
D-65	140	96	65	70	70	4	144	176	32	15	72

SPECIFICATIONS

Size	Elec. Motor Frame Size	3000 RPM		1500 RPM		1000 RPM		750 RPM		Max Torque @ 1500 RPM		Max. RPM
		kW	HP	kW	HP	kW	HP	kW	HP	Kg. M	Ft. Lbs.	
D -19	80, 90L	2.2	2.0	1.5	1.0	1.1	1.0	0.75	1.0	5.0	36.2	3000
D -28	90L, 100L, 132S	7.5	10	5.5	5.0	4.25	5.0	2.2	3.0	2.3	16.6	3000
D -38	100L, 132S, 160M	10	13	7.5	10	5.5	7.5	3.0	4.5	7.0	50.3	3000
D -48	160M, 180 L, 180M	22	30	18.5	25	15	20	11	15	14.4	104.2	3000
D -65	200L, 250M	55	75	55	75	37	50	30	40	35.5	256.7	3000

Note: Specifications subject to change without prior notice