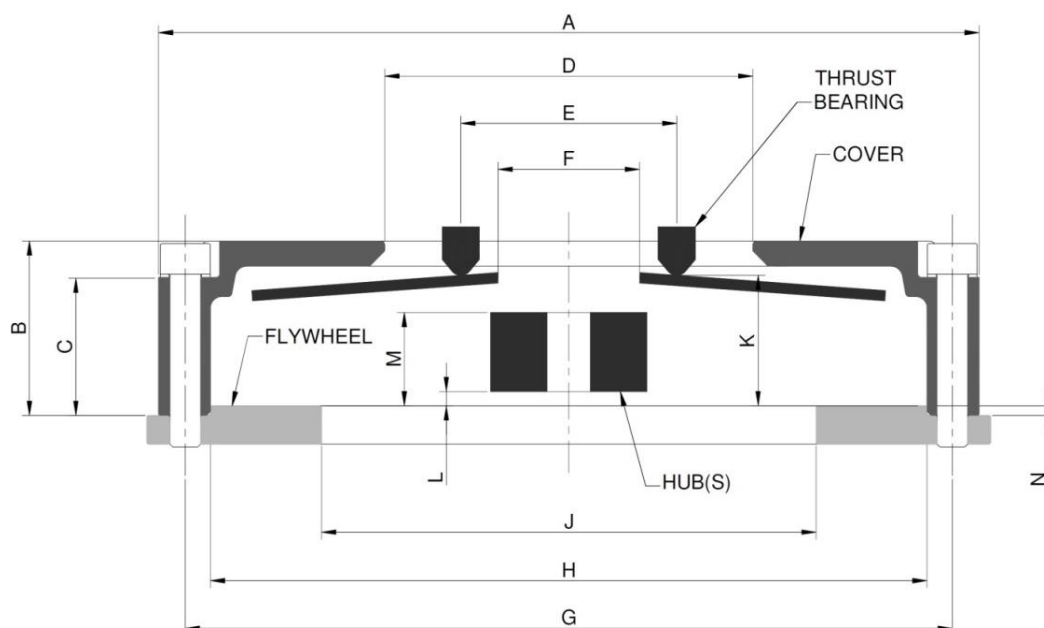


	<b>Clutch Specifications</b>	Doc Number: 2804-01-500	Revision: -
	Title: 2804 Series – 140mm Twin Plate Paddle Clutch	Author: SRV	Effective Date: 09/07/20



## Clutch Dimensions

Dim	Description	mm
A	Diameter of cover	167
B	Height of cover	48.5
C	Grip height	38.5
D	Minimum inside diameter of cover	69
E	Min/max thrust bearing fulcrum diameter	40/50
F	Minimum inside diameter of spring fingers	36
G	Mounting bolt/stud PCD - <b>BASIC</b>	154.45
H	Flywheel spigot diameter $\pm 0.02$	142.67
J	Flywheel inner diameter $+0/-2$	95
L	Clutch face to start of hub(s)	-
M	Clutch face to end of hub(s)	-
N	Flywheel spigot step height $\pm 0.04$	2.5

- Dimensions “L” and “M” are dependent on hub configurations selected at time of order. Please consult TTV Racing for details.
- Please consult TTV racing if your input shaft diameter is between Ø30mm – Ø35mm.

## Clutch Fastener Specifications

- Clutch should be fastened to the flywheel using 8 off M8 studs/ mechanical locking nuts or M8 Cap head screws/ safety washers.
- Fastener strength should be grade 10.9 minimum.
- Fasteners to be gradually tightened to 27Nm (20lbft) in a criss-cross pattern. Thread locking compound should be used.

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## Clutch Performance Specifications

Clutch Type (Spring Colour)	Setup Height "K" mm		Torque Capacity Nm (lbft)	Max Release Load Kg	Spring Thickness mm
	New	Worn			
2804-04-001 (low ratio)	33.8	36	653 (482)	358	2x 2
2804-04-002 (High ratio)	33.8	36	834 (615)	358	2x 2

- Setup heights are from flywheel friction face and based on using an Ø40mm release bearing. Heights are subject to a tolerance of ±0.5mm.
- Release loads are based on an Ø46mm release bearing. A smaller diameter bearing will reduce release loads.

## Clutch Mass and Inertias

Clutch Type	Assembly Mass Kg	Assembly MMOI Kg.m <sup>2</sup>
2804-04-001	1.8954	0.00709
2804-04-002	1.883	0.00701

- Mass and inertias are for cover assemblies only and are estimated values.

## Release Bearing Specification

- Release bearing should be of the steel caged, round nose type. Nominal Ø40 diameter.
- Release bearing travel must not exceed 3.8mm and should be limited by an external stop. Ensure spring fingers do not contact drive hubs.
- Release bearing should have enough backwards travel to allow the bearing to be free of the spring fingers when clutch is fully engaged at maximum wear.

## Maintenance

Type	Thickness mm		Flatness mm
	New	Worn	
Pressure Plate	12.6	12.4	0.10
Floater Plate	6.0	5.8	0.10
Drive Plate	5.6	5.2	0.15

- Total allowable wear shall be not more than 0.8mm for the whole assembly.
- Regular inspection and maintenance of the clutch is recommended for optimum performance over the life of the clutch.
- Pressure, floater and drive plates should be checked for flatness and wear.

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