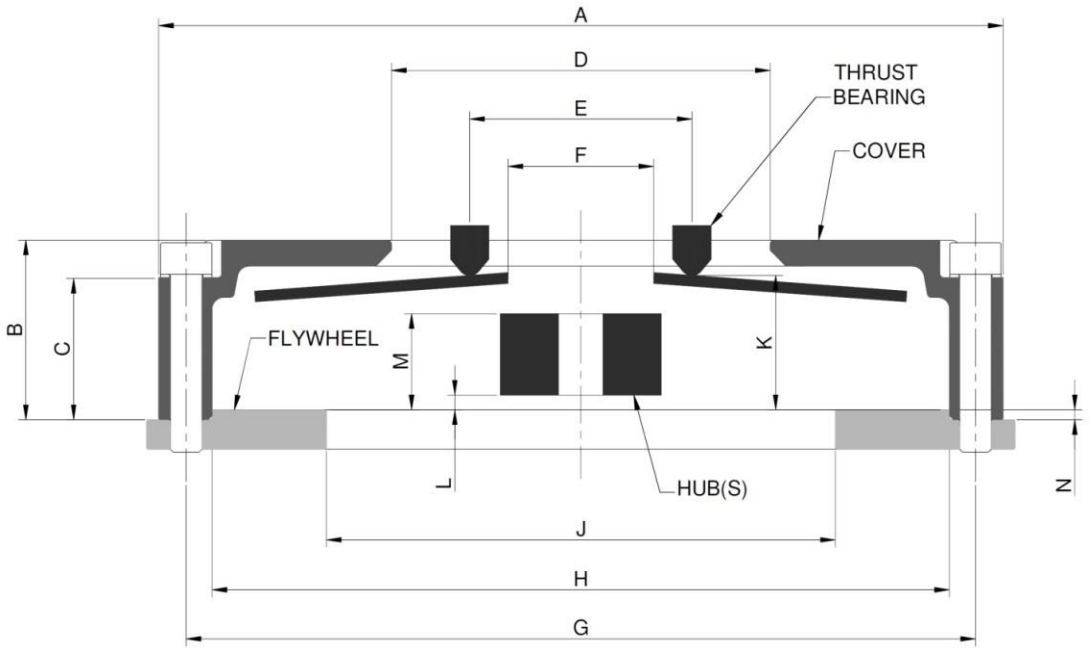
TTV	Clutch Specifications	Doc Number: 2802-01-500	Revision: G
	Title: 2802 Series – 184mm Single Plate Race Clutch	Author: SRV	Effective Date: 26/06/17



Clutch Dimensions

Dim	Description	mm
A	Diameter of cover	214
B	Height of cover	34
C	Grip height	24.5
D	Minimum inside diameter of cover	96
E	Min/max thrust bearing fulcrum diameter	48/54
F	Minimum inside diameter of spring fingers	40
G	Mounting bolt/stud PCD - BASIC	200.025
H	Flywheel spigot diameter ±0.03	186.88
J	Flywheel inner diameter +0/-2	129
L	Clutch face to start of hub(s)	-
M	Clutch face to end of hub(s)	-
N	Flywheel spigot step height ±0.04	2.5

- Dimensions “L” and “M” are dependent on hub configurations selected at time of order. Please consult TTV Racing for details.

Clutch Fastener Specifications

- Clutch should be fastened to the flywheel using 6 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 22Nm (16lbft) in a criss-cross pattern.

Clutch Performance Specifications

Clutch Type (Spring Colour)	Setup Height "K" mm		Torque Capacity Nm (lbft)	Max Release Load Kg	Spring Thickness mm
	New	Worn			
2802-04-001 (Green)	22.3	24.8	317 (234)	235	2.5
2802-04-002 (Blue)	21.9	24.4	363 (268)	275	2.65
2802-04-003 (Orange)	21.4	23.9	457 (337)	335	2.8
2802-04-004 (Silver)	21.6	24.1	531 (392)	390	3

- Setup heights are from flywheel friction face and based on using an Ø54mm release bearing. Heights are subject to a tolerance of ±0.5mm.
- Release loads are based on an Ø54mm release bearing. A smaller diameter bearing will reduce release loads.

Clutch Mass and Inertias

Clutch Type	Assembly Mass Kg	Assembly MMOI $Kg.m^2$
2802-04-001	2.011	0.0126
2802-04-002	2.03	0.0127
2802-04-003	2.049	0.0128
2802-04-004	2.066	0.0129

- 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 Ø50-Ø54mm diameter.
- Release bearing travel must not exceed 5.5mm and should be limited by an external stop.
- Release bearing should be free of the spring fingers when clutch is fully engaged.

Maintenance

Type	Thickness mm		Flatness mm
	New	Worn	
Pressure Plate	13.0	12.8	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.