

A1 INSTALLATION DRAWING

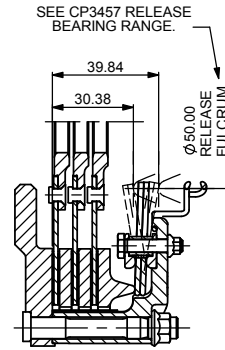
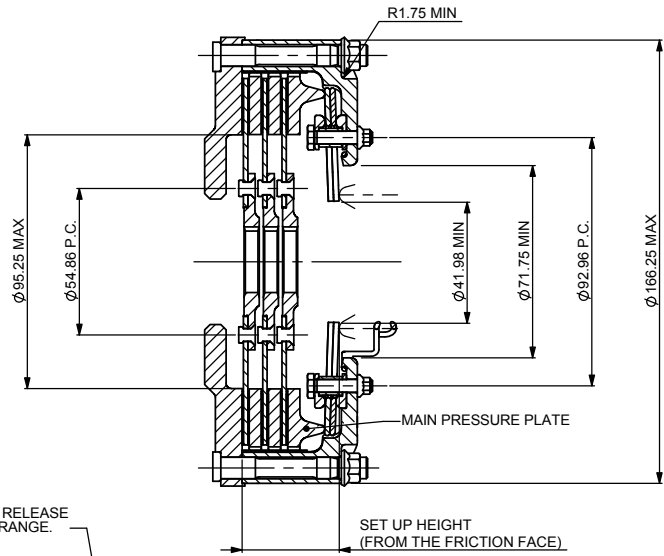
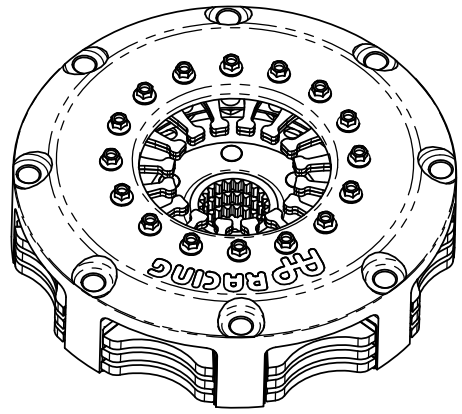
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CP6003 Ø140mm (5.5") SINTERED CLUTCH ASSEMBLY



BEARING POSITION

TO ENSURE ADEQUATE RELEASE TRAVEL AND CLUTCH LIFE THESE LIMITS HAVE BEEN CALCULATED USING AN ADDITIONAL 20% RELEASE TRAVEL AND 50% MORE WEAR IN THAN SPECIFIED.
 THESE FIGURES COVER THE FULL RANGE OF CLUTCHES IN THE CP6003 FAMILY.

CP6003 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY			
(Nm)	630	471	
(ft.lb)	465	348	
RELEASE LOAD			
Max. Peak Worn (N)	4500	3750	
At Travel (N)	3000	2500	
WEAR IN (See Note)			
	0.75	0.75	
Set Up Height New	36.79	36.53	
	35.15	34.88	
Set Up Height Worn - MAX	38.85	38.59	
(Set Up Height is calculated from the flywheel friction face.)			
Release Ratio	2.64	2.64	
Estimated Assembly Mass (Inc. Driven Plates) = 3.30 Kg			
Estimated Assembly Inertia (Inc. Driven Plates) = 0.0102 Kgm ²			
Estimated Driven Plate Inertia = 0.00196 Kgm ²			

PERFORMANCE SUFFIX	CH	OH				
For Reference						
Diaphragm Spring Rate	CRV	ORA				
Clutch Ratio	HiR	HiR				

MATERIAL SUFFIX	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS
90	SINTERED	2.63mm

FLYWHEEL TYPE		
	SUFFIX	COMMENTS
FLAT FLYWHEEL	FF	FOR INSTALLATION DATA SEE SHEET 2
STEPPED FLYWHEEL	SF	FOR INSTALLATION DATA SEE SHEET 2

Sample AP Racing Part No. **CP6003-CH90-SF**

WEAR IN	
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE,	
DRIVEN PLATE THICKNESS NEW:	2.63mm MIN
DRIVEN PLATE THICKNESS WORN:	2.34mm MIN

DRIVEN PLATES AVAILABLE WITH THE FOLLOWING SPLINE SIZES	
SPLINE	PART No.
1"X23T	CP3414-10FM3
7/8" x 20T	CP3414-18FM3
1 5/32" x 26T	CP3414-19FM3
29.0 x10T	CP3414-25FM3
1 1/8" x10T	CP3414-20FM3

Issue No	Alterations			Zone	Initials
	Date & No.	Particulars	#		
1	13-02-03 C2162	FIRST ISSUE	#	RDO	
2	13-03-03	BRG PART NO. CORRECTED	#	RDO	
3	22/03/06	Weight and Inertia notes clarified.		H10	JG
4	15/07/08	SET UP HEIGHT FULL TOLERANCE ADDED.	#	JG	
5	28/07/10 C3901	TORQUE CAPACITY CHANGED FROM 756Nm AND 557Nm TO 630Nm AND 471Nm	#	AB	
6	13/08/15	VIEWS ON SHEET 1 CORRECTED TO FLAT FLYWHEEL.	#	JG	

SCALE 1:1 SHEET 1 OF 2

DRAWN RICHARD GOSTICK

APPROVED

DERIVED FROM

TITLE
 Ø140mm TRIPLE PLATE
 SINTERED CLUTCH ASSY

DRG NO. cp6003cd

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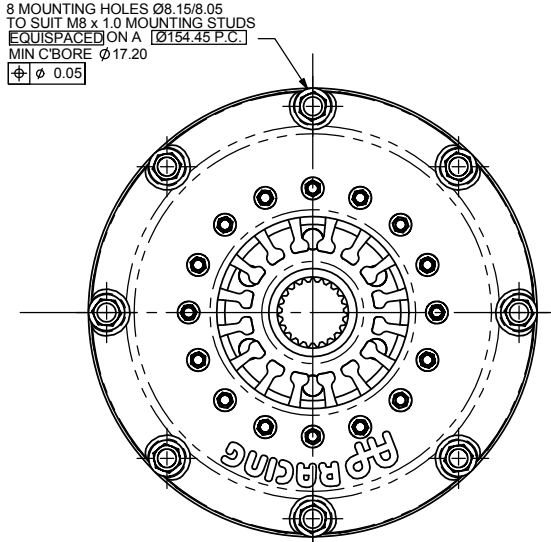
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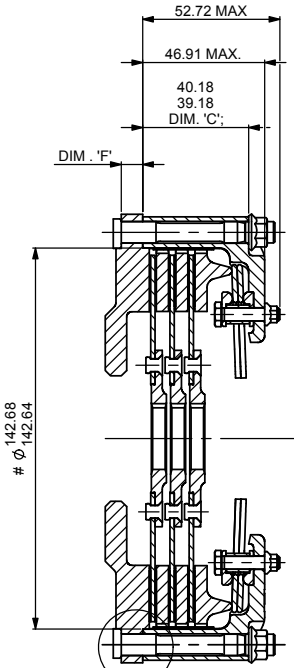
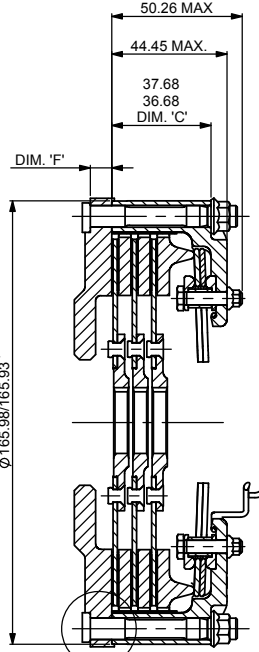
FLYWHEEL DIMENSIONS

FLAT FLYWHEEL - SUFFIX FF

STEPPED FLYWHEEL SUFFIX SF



THE CLUTCH SPIGOT IS DESIGNED TO BE THIS DIAMETER WHEN BOLTED TO THE FLYWHEEL. BEFORE FITTING (WITH THE INSTALLATION WIRE IN PLACE) THIS DIA. MAY BE SLIGHTLY REDUCED.



FLYWHEEL DIMENSIONS

INSTALLATION WIRE FOR USE WHEN INSTALLING A FLAT FLYWHEEL VERSION. TO ENSURE FLYWHEEL SIDE CARBON IS LOCATED ON THE COVER LUGS

THIS WIRE MUST BE REMOVED BEFORE USE

RECOMMENDED CLUTCH MOUNTING :

(FOR ALL TYPES OF ASSEMBLY)
 M8 x 1.0. CP4702 FAMILY STUD AND K-LOCK NUT.
 TIGHTENING TORQUE : 19Nm (14 ft.lb)

LENGTH OF STUD REQUIRED TO BE CALCULATED THUS :

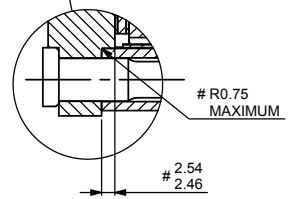
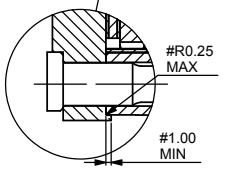
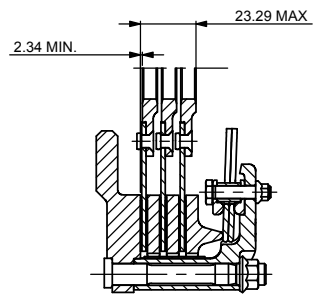
STUD LENGTH = DIMENSIONS 'C' + 'F' + NUT

THIS CALCULATED LENGTH TO BE ROUNDED UP TO THE NEXT AVAILABLE STANDARD STUD LENGTH.

SUGGESTED FLYWHEEL MATERIAL:

0.35/0.45% CARBON STEEL. BRINELL 200 MIN. OR SUITABLE MATERIAL FOR HIGH RPM.
 FRICTION FACE TO BE FINE TURNED AND GROUND SMOOTH AND FLAT. RUNOUT AT R77.2, ≤0.08 WHEN ASSEMBLED TO CRANKSHAFT.

HUB ENVELOPE (FROM FLYWHEEL FRICTION FACE)



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SCALE 1:1	SHEET 2 OF 2
DRAWN	RICHARD GOSTICK
APPROVED	
DERIVED FROM	
TITLE	
Ø140mm TRIPLE PLATE SINTERED CLUTCH ASSY	
DRG NO.	cp6003cd