STROKE

A1 INSTALLATION DRAWING

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FIRST ANGLE PROJECTION

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PISTON AT FULL STROKE

PISTON FULLY RETRACTED

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18mm STROKE - INNER ROTATNG RACE (HIGH SPEED)

ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-38	38.0 (1.496")	18.0 (0.709")	CP3457-16
CP6859-50	50.0 (1.969")	18.0 (0.709")	CP3457-11
CP6859-54	54.0 (2.126")	18.0 (0.709")	CP3457-6

NOTE: LVDT VERSION OF CP6859-54 IS AVAILABLE - SEE CP6859-54LVDTCD DRAWING FOR DETAILS

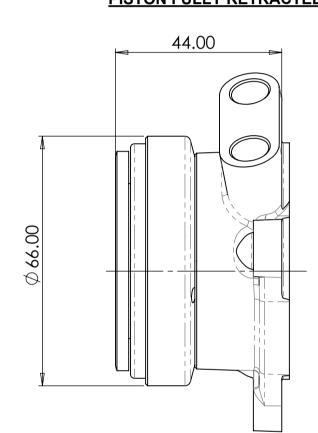
THIS SLAVE CYLINDER FEATURES:
THE BEARING IS HOUSED IN THE PISTON VIA THE OUTER RACE
THE INNER RACE ROTATES, SUITABLE FOR HIGH SPEED APPLICATIONS.

PISTON AT FULL STROKE

DIAMETER DIAMETER

PISTON FULLY RETRACTED

7.50



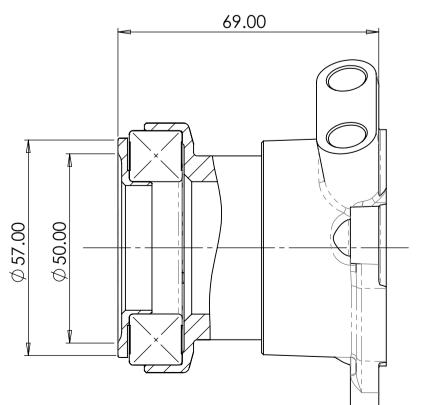
12mm STROKE - INNER ROTATNG RACE (HIGH SPEED)

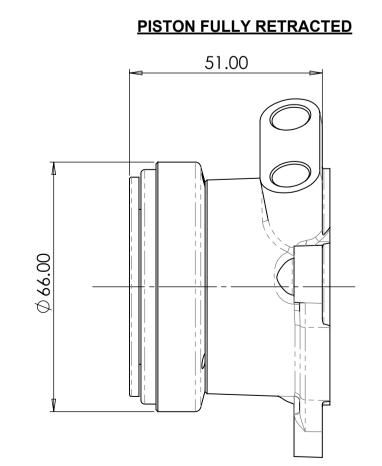
ASSEMBLY NUMBER	FULCRUM DIAMETER		REPLACEMENT BEARING SUB. ASSY.
CP6859-1238-	-IN 38.0 (1.496'	') 12.0 (0.472'')	CP3457-16
CP6859-1250-	-IN 50.0 (1.969'	') 12.0 (0.472'')	CP3457-11
CP6859-1245-	-IN 45.0 (1.772'	') 12.0 (0.472'')	CP3457-26
CP6859-1254-	-IN 54.0 (2.126'	') 12.0 (0.472'')	CP3457-6

THIS SLAVE CYLINDER FEATURES:
A SHORTENED STROKE SO AS TO REDUCE THE OVERALL LENGTH.
THE BEARING IS HOUSED IN THE PISTON VIA THE OUTER RACE
THE INNER RACE ROTATES, SUITABLE FOR HIGH SPEED APPLICATIONS.

ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME.

PISTON AT FULL STROKE

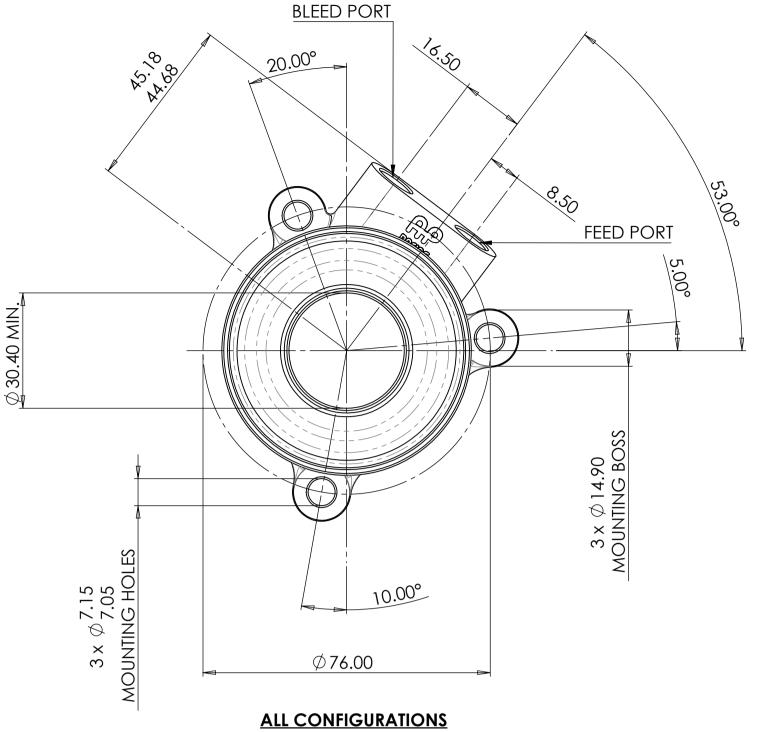


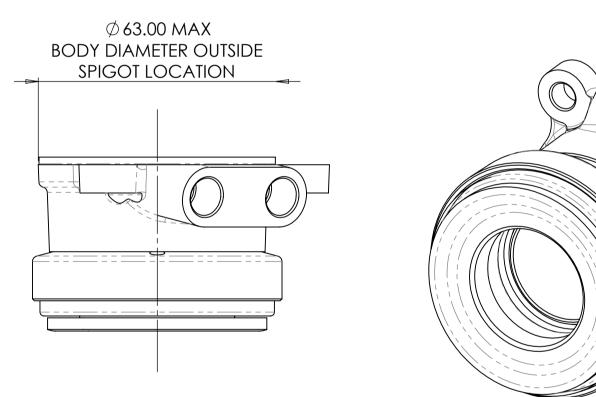


18mm STROKE - INNER ROTATNG RACE (HIGH SPEED) FLAT FULCRUM

ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-14	N/A	18.0 (0.709")	CP3457-22

THIS SLAVE CYLINDER FEATURES:
THE BEARING IS HOUSED IN THE PISTON VIA THE OUTER RACE
THE INNER RACE ROTATES, SUITABLE FOR HIGH SPEED APPLICATIONS.





DESCRIPTION

THE CP6859 SERIES CONCENTRIC SLAVE CYLINDER IS A LIGHTWEIGHT, HYDRAULICALLY SELF-CONTAINED UNIT WITH HIGH TEMPERATURE SEALS. ALL SEALING SURFACES ARE PROTECTED BY A HARD WEARING / LOW FRICTION COATING WHICH HELPS PROLONG SEAL LIFE.

ENSURE THAT THE UNIT IS INSTALLED AT THE SPECIFIED ANGLE, WITH THE BLEED PORT UPPERMOST. ALL FITTINGS INTENDED TO SEAT AT THE BOTTOM OF THE HYDRAULIC PORTS MUST HAVE AN INCLUDED ANGLE OF 90°

BODY MATERIAL: ALUMINIUM ALLOY (FORGED)
PISTON MATERIAL: ALUMINIUM ALLOY

EFFECTIVE AREA: 920 mm² (1.426 sq.")

MAXIMUM STROKE: REFER TO TABLE

MAXIMUM PRESSURE 8.6 N/mm² (1250 psi)

CALCULATED WEIGHTS

CP6859-XX 381 g CP6859-12XX 257 g CP6859-12XX-IN 346 g

HYDRAULIC PORTS M10x1,0x11.5 MIN. FULL THREAD APR550 OR 600 BRAKE FLUID

REPLACEMENT SEAL KIT - CP3759-3

HYDRAULIC FITTING KIT (STEEL ADAPTOR 7/16" '- 4') - CP3759-6 HYDRAULIC FITTING KIT (STEEL ADAPTOR 3/8" '- 3') - CP3759-5 FITTINGS TO BE TIGHTENED TO 28 Nm (21 ft.lb)

NOTE;
WHEN LARGE DIAMETER SPLINES ARE USED PLEASE CHECK CLEARANCE OF THE SPLINE IN THE SLAVE CYLINDER BODY.

LARGER SPLINES ALSO HAVE AN INCREASED DRIVEN PLATE HUB BOSS. PLEASE CHECK THE CLEARANCE OF THE DRIVEN PLATE AT MAXIMUM SLAVE TRAVEL. SEE THE CLUTCH ASSEMBLY INSTALLATION DRAWING FOR DETAILS.

MINERAL OIL VERSIONS OF ALL THE ASSEMBLIES ON THIS DRAWING ARE AVAILABLE FOR FURTHER INFORMATION PLEASE CONTACT AP RACING. SEE CP8084-1CD FOR MINERAL OIL COMPATIBLE ASSEMBLIES

TO TO THE RACING

AP Racing Wheler Road Coventry CV3 4LB Tel: +44 (0) 24 7663 9595 Fax: +44 (0) 24 7663 9559

	AD Da sin a 1 to	Fax: +44 (0) 24 7663 9559 e-mail: engineering@aprac			
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Issue No.	Date & No.	Particulars	Zone	Initials	L
1	04/01/12 C3988	FIRST ISSUE	#	JG	
2	20/09/12 C3988	MINERAL OIL INSTALLATION DRAWING REFERENCE ADDED	A12	JG	
3	05/04/13 C4477	CP6859-1245-IN ADDED	#	JG	
4	13/05/13	Ø30.40 MIN ADDED	J9	JG	K
5	27/01/14 C4652	SAAB REFERENCE REMOVED	B12	JG	
6	01/05/14 C4708	FITTINGS TO BE TIGHTENED TO 28 Nm (21 ft.lb) NOTE ADDED	#	JG	
7	22/07/14 C4753	FLAT FULCRUM OPTION ADDED.	#	JG	
8	04/03/15 C4867	Ø63.00 NOTE AND VEIW ADDED.	#	JG	J
9	23/03/16	CP6859-45 REMOVED FROM THE DRAWING.	#	JG	
10	12/02/18 C5231	DRAWING SPLIT ONTO 2 SHEETS FOR INNER ROTATING AND OUTER ROTATING SLAVES CP6859-45 ADDED ONTO SHEET2	#	GS	
11	19/03/18 C5231:02	SHEET1: FEED & BLEED NOTES ADDED SHEET2: CP6859-45 STROKE CORRECTED. 18mm WAS 12mm	L12 K13 E3	GS	Н
12	18/06/18 RAC22280	R0.40 MAX. WAS R0.25 MAX.	L5	JCD	
13	14/08/18	BLEED AND FEED PORTS CORRECTED	L12	OSM	
14	20/11/19	CP6859-54-OUT ADDED TO SHEET 2	E1	CGT	G
15	26/03/20 C5377_02	CP6859-54:LVDT NOTE ADDED	K6	CGT	
16	21/10/20 C5469_01	CP6859-45-IN REMOVED FROM DRAWING SHEET 1	K6	FL	
					F
					E
					D

SCALE 1:1 SHEET 1 OF 2

DRAWN Jeremy Govan

APPROVED

DERIVED FROM CP3859-1CD

TITLE

CONCENTRIC SLAVE CYLINDER

INSTALLATION DRAWING

FOR OUTER ROTATING RACE SLAVE CYLINDERS SEE SHEET 2

DRG NO. CP6859-1CD

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Last Saved: flalovic on 21 October 2020 10:57:51

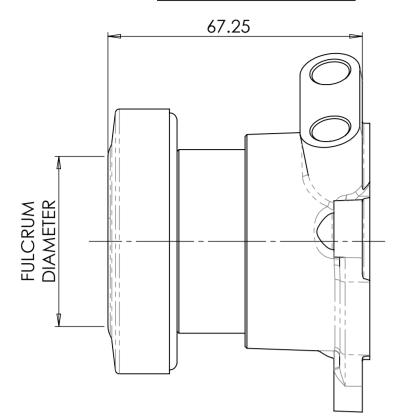
INSTALLATION DRAWING

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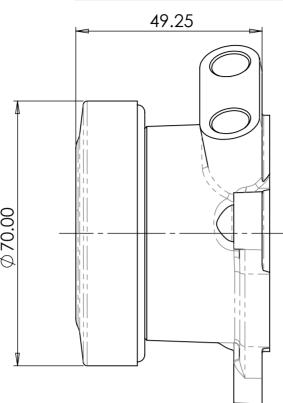


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PISTON AT FULL STROKE



PISTON FULLY RETRACTED



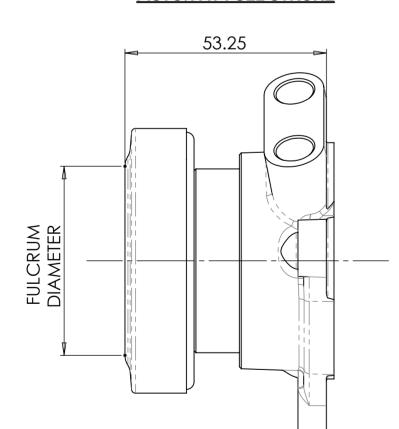
18mm STROKE - OUTER ROTATING RACE

ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-45	45.0 (1.772")	18.0 (0.709")	CP3457-19
CP6859-54-OUT	54.0 (2.126")	18.0 (0.709")	CP3457-10

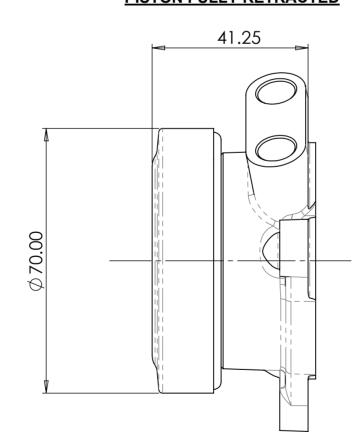
THIS SLAVE CYLINDER FEATURES: THE BEARING HOUSED ON THE PISTON VIA THE INNER RACE WITH THE OUTER RACE ROTATING.

ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME.

PISTON AT FULL STROKE



PISTON FULLY RETRACTED

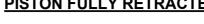


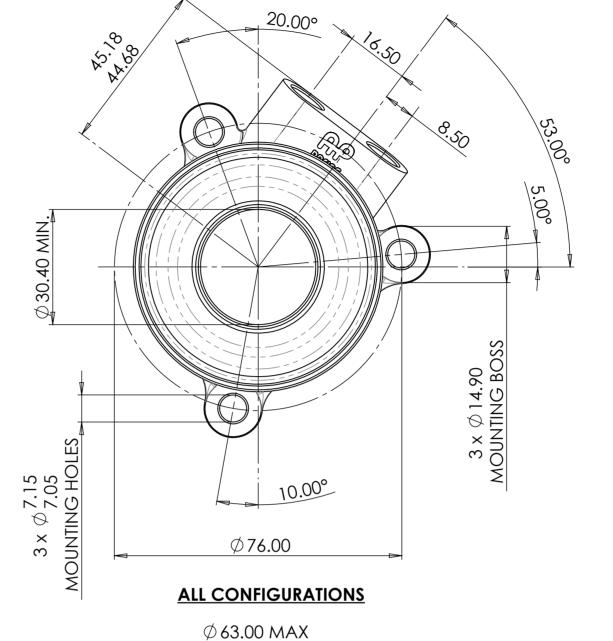
12mm STROKE - OUTER ROTATING RACE

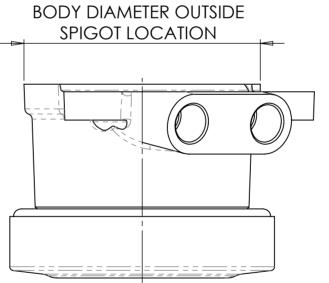
ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-1245	45.0 (1.772")	12.0 (0.472")	CP3457-19
CP6859-1250	50.0 (1.969")	12.0 (0.472")	CP3457-9
CP6859-1254	54.0 (2.126")	12.0 (0.472")	CP3457-10

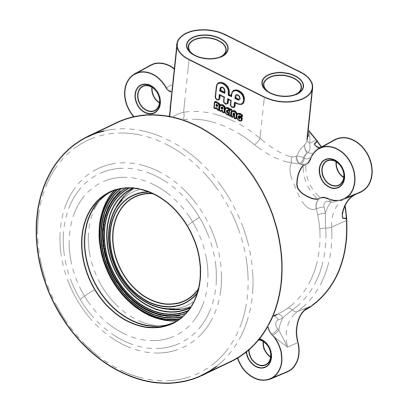
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ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME.









FOR INNER ROTATING RACE SLAVE CYLINDERS SEE SHEET 1

CP6859-1CD

11

INSTALLATION DRAWING

AP Racing Wheler Road Coventry CV3 4LB

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No.	Date & No.	Particulars	Zo	Initi
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

SHEET 2 OF 2 SCALE 1:1 **DRAWN** Jeremy Govan **APPROVED DERIVED FROM** TITLE CONCENTRIC SLAVE CYLINDER

DRG NO.