STROKE

Tel: +44 (0) 24 7663 9595 Fax: +44 (0) 24 7663 9559

Web site: http://www.apracing.com

J9 JG

L12 GS

Coventry

CV3 4LB

Alterations

20/09/12 MINERAL OIL INSTALLATION DRAWING REFERENCE

5 27/01/14 SAAB REFERENCE REMOVED B12 JG C4652 6 01/05/14 FITTINGS TO BE TIGHTENED TO 28 Nm (21 ft.lb) NOTE ADDED 22/07/14 FLAT FULCRUM OPTION C4753 ADDED.

ADDED

3 05/04/13 CP6859-1245-IN ADDED

13/05/13 Ø30.40 MIN ADDED

04/03/15 Ø63.00 NOTE AND VEIW ADDED.

23/03/16 CP6859-45 REMOVED FROM THE DRAWING.

12/02/18 DRAWING SPLIT ONTO 2 SHEETS FOR INNER ROTATING AND OUTER ROTATING SLAVES CP6859-45 ADDED ONTO

SHEET2

11 19/03/18 C5231:02 SHEET1: FEED & BLEED NOTES ADDED NOTES ADDED SHEET2: CP8859-45 STROKE CORRECTED. 18mm WAS

12mm 12 18/06/18 R0.40 MAX. WAS R0.25 MAX.

13 14/08/18 BLEED AND FEED PORTS CORRECTED

14 20/11/19 CP6859-54-OUT ADDED TO SHEET 2

15 26/03/20 CP6859-54:LVDT NOTE ADDED K6 CGT

Particulars

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RACING

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1 04/01/12 FIRST ISSUE C3988

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Date & No.

C3988

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INSTALLATION

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PISTON AT FULL STROKE PISTON FULLY RETRACTED RO AO MAYIMUM 0

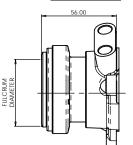
18mm STROKE - INNER ROTATNG RACE (HIGH SPEED)

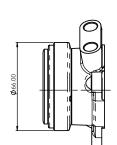
ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-38	38.0 (1.496")	18.0 (0.709")	CP3457-16
CP6859-45-IN	45.0 (1.772")	18.0 (0.709")	CP3457-26
CP6859-50	50.0 (1.969")	18.0 (0.709")	CP3457-11
CP6859-54	54.0 (2.126")	18.0 (0.709")	CP3457-6

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





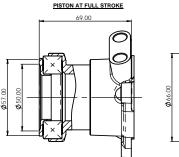
PISTON FULLY RETRACTED

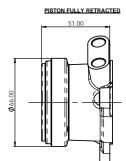
12mm STROKE - INNER ROTATNG RACE (HIGH SPEED)

ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	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.

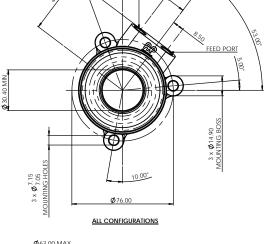




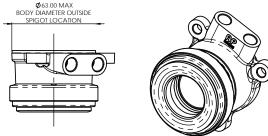
18mm STROKE - INNER ROTATNG RACE (HIGH SPEED) FLAT FULCRUM

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.



BLEED PORT



DESCRIPTION

THE CP6859 SERIES CONCENTRIC SLAVE CYLINDER IS A LIGHTWEIGHT, HYDRAULICALLY SELF-CONTAINED UNIT WITH HEIGH TEMPERATURE SEALS, ALL SEALING SURFACES ARE PROJECTED BY A HARD WEARING / LOW FRICTION COATING WHICH HELPS PROJONG

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: PISTON MATERIAL: ALUMINIUM ALLOY (FORGED) ALUMINIUM ALLOY

EFFECTIVE AREA: MAXIMUM STROKE: MAXIMUM PRESSURE 8.6 N/mm2 (1250 psi)

CALCULATED WEIGHTS CP6859-XX CP6859-12XX CP6859-12XX-IN

HYDRAULIC PORTS M10x1,0x11.5 MIN. FULL THREAD HYDRAULIC FLUID 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-TCD FOR MINERAL OIL COMPATIBLE ASSEMBLIES ASSEMBLIES.

SCALE 1:1		SHEET 1 OF 2		l
DRAWN	Jeremy Gova	n		I
APPROVED				I
DERIVED FROM	CP3859-1C	D		ŀ

CONCENTRIC SLAVE CYLINDER INSTALLATION DRAWING

FOR OUTER ROTATING RACE SLAVE CYLINDERS SEE SHEET 2

DRG NO. CP6859-1CD N:\SolidWorks\Customer\cp6859-1cd.slddrw

Last Saved: ctaylor on 27 March 2020 08:28:47

INSTALLATION DRAWING

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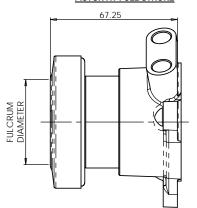


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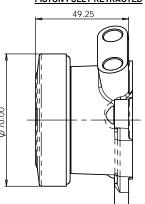
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PISTON AT FULL STROKE



PISTON FULLY RETRACTED



18mm STROKE - OUTER ROTATING RACE

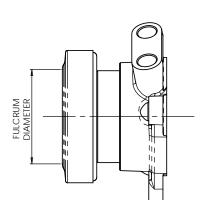
ASSEMBLY NUMBER	FULCRUM DIAMETER	FULL STROKE	REPLACEMENT BEARING SUB. ASSY.
CP6859-45	45.0 (1.772")	18.0 (0.709")	CP3457-19
CP6859-54-OUT	54.0 (2.126")	18.0 (0.709")	CP3457-10

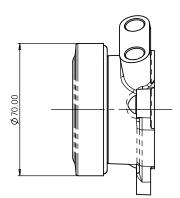
THIS SLAVE CYLINDER FEATURES THE BEARING HOUSED ON THE PISTON VIA THE INNER RACE WITH THE OUTER RACE ROTATING.

ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME.

PISTON AT FULL STROKE

PISTON FULLY RETRACTED





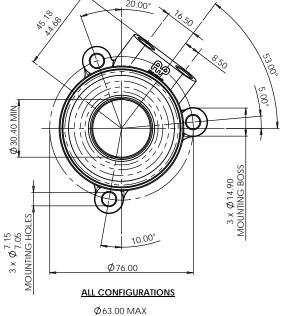
12mm STROKE - OUTER ROTATING RACE

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			

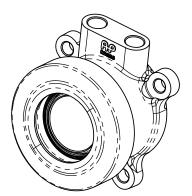
THIS SLAVE CYLINDER FEATURES : A SHORTENED STROKE SO AS TO REDUCE THE OVERALL LENGTH.

THE BEARING HOUSED ON THE PISTON VIA THE INNER RACE WITH THE OUTER RACE ROTATING.

ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME



BODY DIAMETER OUTSIDE SPIGOT LOCATION



FOR INNER ROTATING RACE SLAVE CYLINDERS SEE SHEET 1

RACING

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No.

AP Racing Wheler Road Coventry CV3 4LB

Tel: +44 024 7663 9595 Fax: +44 024 7663 9559 e-mail: sales@apracing.co.uk

vveb site:http://www.aprac			
	Alterations	ne	itials
Date & No.	Particulars	Zo	Init
	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

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SCALE 1:1		SHEET 2 OF 2		
DRAWN	Jeremy Go	van		L
APPROVED				
DERIVED FROM				
TITLE CONCENTRIC SLAVE CYLINDER				
INSTALLATION DRAWING				
DRG NO.	CP685	9-1CD		