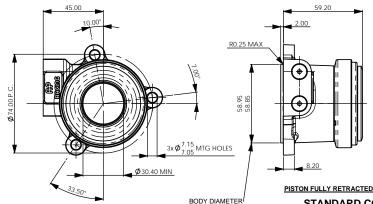
# INSTALLATION **DRAWING**

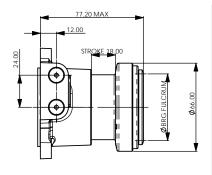
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FIRST ANGLE **PROJECTION** 

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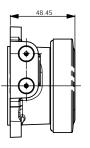


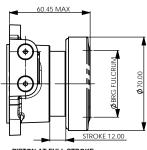


## PISTON AT MAXIMUM STROKE

# STANDARD CONFIGURATION (18mm STROKE)

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

**REDUCED LENGTH CONFIGURATION (12mm STROKE)** 

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.

#### DESCRIPTION

THE CP3959 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.

#### NOTES:

ENSURE THAT THE UNIT IS INSTALLED IN THE ORIENTATIONS SHOWN, WITH THE BLEED PORT UPPERMOST. ALL FITTINGS INTENDED TO SEAT AT THE BOTTOM OF THE HYDRAULIC

BODY MATERIAL: PISTON MATERIAL: ALUMINIUM ALLOY (DIE CAST) ALUMINIUM ALLOY

EFFECTIVE AREA: MAXIMUM STROKE MAXIMUM PRESSURE 920 mm² (1.426 sq.") REFER TO TABLE 8.6 N/mm2 (1250 psi)

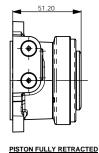
HYDRAULIC PORTS HYDRAULIC FLUID

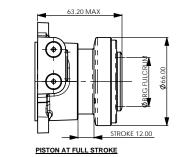
M12x1.0x11.5 MIN. FULL THREAD APR550 OR 600 BRAKE FLUID

REPLACEMENT SEAL KIT - CP3759-3

HYDRAULIC FITTING KIT (ALUMINIUM ADAPTOR 7/16"  $^{\rm +}4')$  - CP3859-15 HYDRAULIC FITTING KIT (STEEL ADAPTOR 3/8" - 3') - CP3859-16 FITTINGS TO BE TIGHTENED TO 28 Nm (21 ft.lb)

THIS UNIT IS INTERCHANGEABLE WITH THE SAAB 900 SLAVE CYLINDER. PART No. 4776308 (8729840).



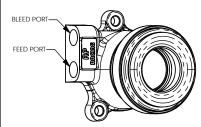


## CP3959-1238-IN (12mm STROKE)

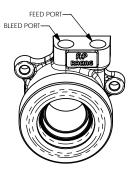
THIS SLAVE CYLINDER FEATURES THIS SEAVE 4THORE FEATURES: A SHORTENED STROKE SO AS TO REDUCE THE OVERALL LENGTH. THE BEARING IS HOUSED IN THE PISTON VIA THE OUTER RACE THE INNER RACE ROTATES, SUITABLE FOR HIGH SPEED APPLICATIONS.

ALL OTHER MOUNTING DIMENSIONS REMAIN THE SAME.

# MOUNTING ORIENTATION



#### HORIZONTAL



## VERTICAL

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 DETIALS.

FULL STROKE

18,0 (0.709")

18,0 (0.709")

18,0 (0.709")

12.0 (0.472")

12,0 (0.472")

12,0 (0.472")

FOR FURTHUR INFORMATION PLEASE CONTACT AP RACING

BRG. FULCRUM

50,0 (1.969")

54.0 (2.126")

38,0 (1.496")

38.0 (1.496")

50,0 (1.969")

54,0 (1.125")

SLAVE CYLINDER ASSEMBLY

CP3959-50

CP3959-54

CP3959-38

CP3959-1250

CP3959-1254

CP3959-1238-IN

CONFIGURATION

STANDARD

REDUCED LENGTH

# RACING

© AP Racing Ltd. 2000 AP Racing Wheler Road Coventry CV3 4LB

Date & No.   Particulars   No.   2			l: +44 024 7663 9595 e-mail: sales@apracing.co.uk Web site: HTTP://www.apracing.co							
1 07/01/99	İ	Issue No.		ы	ials	1				
2 250/03/99   1.50 MM FULL THEP DWG 12.00			Date & No.	& No. Particulars			ľ			
3		1	07/01/99	FIRST ISSUE		SY				
1900   SHEET SUE AT WAS AS BRIS CONTROL REFER TO THE WAS 18.0 PER CONTROL REFER TO TABLE WAS 18.0 PER CONTROL REFER TO TABLE WAS 18.0 PER CONTROL REFER TO THE CONTROL REFER TO THE SUBJECT TO MIRROVE CLARITY   110/902 REFERENCES TO THE SCRAPER RING DELETED. SEAL REPARK IT WAS CASE CLASS SEAL REPARK IT WAS CASE CLASS SEAL REPARK TO THE CONTROL REPARK		2	25/03/99	BRG REPLACEMENT CHART CP3457-11 WAS -5 & -16 WAS -15		SY	ļ			
RAC9527 TO IMPROVE CLARITY   RAC9527 TO IMPROVE CLARITY   FITTINGS TO BE TIGHTENDED   D2 JG C2710   REFERENCES TO THE   D2 JG C2713   REFERENCES TO THE   D2 JG C2713   REFERENCES TO THE   D2 JG C2713   REFERENCES TO LASER   REFERENCES TO LA		3	14/03/00	NEW 12,0 STROKE VERSION ADDED. SHEET SIZE A1 WAS A2. BRG CONFIG NOTES 1 & 2 ADDED. NOTE: MAX. STROM		SY				
C2084   SCRAPER RING DELETED.		4		DRAWING FORMAT MODIFIED		JG	ĸ			
6 06/02/03   48.45 WAS 48.20   G8   g   C2113   60.45 WAS 60.20   G8   7 12/01/04   BODY DIAMETER NOTE   H4 JR AC20825   ADDED.   H4 JR AC20825   ADDED.   H4 JR AC20825   ADDED.   H4 JR ADDED.   H5   C2390   ADDED.   H5   C3076   H5   C4076   H5   H5   C4076   H5   H5   C4076   H5   H5   H5   C4076   H5   H5   H5   H5   H5   H5   H5   H		5		SCRAPER RING DELETED. SEAL REPAIR KIT WAS CP3859-2. LOGOS CHANGED TO LASER		JG				
7 12/01/04 RODY DIAMETER NOTE H4 JA RAC20825 ADDED. 8 12/02/04 INSTALLATION NOTE C111 JA C2390 ADDED. 9 26/02/07 C3076 10 08/12/09 ADDED. 11 26/10/10 C93959-1254 ADDED # JA C23772 ADDED. 11 26/10/10 C93959-1238 ADDED A10 JA C2396 CP3959-1238 ADDED E7 C3964 CP3959-1238 NOTES ADDED E7 C3964 CP3959-1238 NOTES ADDED E7 C3370 ADDED FITTING KIT PART NUMBERS # JA C2370 ADDED TO 28 Nm (21 filb) NOTE # JA C24708 TO 28 Nm (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb) NOTE # JA CA2708 TO 28 NM (21 filb)		6		48.45 WAS 48.20		#	J			
C2390   ADDED.   # Jc   Jc   Jc   Jc   Jc   Jc   Jc		7	12/01/04	'BODY DIAMETER' NOTE	-	JG				
C3076   DIMENTION UPDATED TO C3772   ACCOUNT FOR ANODISING   ACCOUNT FOR ANODISING   C3964   C79859-1238 ADDED   ACCOUNT FOR ANODISING   ACCOUNT FOR		8			C11	JG				
C3772 ACCOUNT FOR ANODISING  11 26/10/10 CP3959-1238 ADDED A10 JC C73964 CP3959-1238 NOTES ADDED E7  12 15/11/10 FITTING KIT PART NUMBERS # JC C3970 ADDED ADDED TO 28 Nn (21 ft.lb) NOTE TO 28 NN (		9		CP3959-1254 ADDED	#	JG	r			
C3964 CP3959-1238 NOTES ADDED E7  12 15/11/10 FITTING KIT PART NUMBERS # JG ADDED ADDED F T T T T T T T T T T T T T T T T T T		10				АВ	]			
C3970 ADDED  13 01/05/14 FITTINGS TO BE TIGHTENED # JG C4708 TO 28 Nm (21 ft.lb) NOTE # JG		11		CP3959-1238 ADDED CP3959-1238 NOTES ADDED		JCD	ľ			
C4708 TO 28 Nm (21 ft.lb) NOTE		12				JG	L			
		13		TO 28 Nm (21 ft.lb) NOTE	#	JG	G			
							F			

	SCALE 1:1		SHEET 1	OF	1			
_	DRAWN	S.YOUNG						
l	APPROVED							
l	DERIVED FROM							
1	TITLE							
1	CONCENTRIC SLAVE CYLINDER							

ASSY. CP3457-11 CP3457-6 CP3457-16 CP3457-16 CP3457-9

REPLACEMENT BEARING SUB

INSTALLATION DRAWING DRG NO. CP3959-1 CD CP3457-10