

# A1 INSTALLATION DRAWING

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**Alterations**

ISSUE No.	Date & No.	Particulars	Zone	Initials
20	28/09/09 B5697	NOTES MODIFIED TO REMOVE DETAILS OF EXTRA SHORT CUT OFF OPTION	#	SAT
16	17/10/02 B3471	MIN THR'D DIMS ADDED IMPORTANT NOTE ALSO ADDED	12K	SAT
17	25/02/03 B3438	NOTES AND CHART MODIFIED TO CALL NEW 16.8mm BORE SIZE. INLET TYPE 'A' & 'D' PART No's CORRECTED. 57.15 WAS 57.2 28.57 WAS 28.8	K9 K8	
18	17/03/04 B3430	PUSHROD EXTENTION NOTE ADDED	7E	SAT
19	07/01/08 B5064	INLET TYPE C RESERVOIRS MODIFIED TO MODERN CP4709 TYPE. WAS CP4623 TYPE. OBSOLETE TYPES REMOVED. HEIGHT DATA CHANGED TO COMMON DATUM (G.) AS PER OTHER INLET TYPES PICTORIAL. MAIN BOOT CHANGED TO NEW TYPE.	DRA	
20	28/09/09 B5697	NOTES MODIFIED TO REMOVE DETAILS OF EXTRA SHORT CUT OFF OPTION	#	SAT

WEIGHT.....0.31KG (0.7LB)  
FULL STROKE.....25.4 (1.0")  
TRAVEL TO CUT-OFF  
SHORT.....0.68 TO 1.09  
(0.027" TO 0.043")  
HYDRAULIC THREADS.....M12 x 1.0 INLET  
M10x1.0 OUTLET  
BODY MATERIAL.....ALUMINIUM ALLOY  
TYPICAL APPLICATIONS.....FOR USE IN ALL CARS

GENERAL DESCRIPTION:  
LIGHT WEIGHT MASTER CYLINDER FOR USE IN ALL CAR APPLICATIONS. CP4623 MASTER CYLINDER IS SUPPLIED WITH THREADED INLET TYPE 'B'. TWO DIFFERENT PUSH ON INLET ADAPTORS TYPE 'A' & 'D' ARE AVAILABLE. ALSO AVAILABLE IS A PLASTIC FLUID RESERVOIR TYPE 'C'. INLETS 'A', 'C' & 'D' ARE SUPPLIED SEPARATELY AS KITS.

CP4623 MASTER CYLINDER IS AVAILABLE WITH THE FOLLOWING BORE SIZES 14.0mm, 15.0mm, 5/8", 16.8mm, 0.7", 3/4", 13/16", 7/8", 15/16", 1.0".

PUSHRODS ARE AVAILABLE IN THE FOLLOWING LENGTHS: 115mm (4.53") AND 160mm (6.3"). NON-STANDARD LENGTHS AVAILABLE ON REQUEST. PUSHROD TYPES:

PRT - PUSH ROD THREADED 5/16" UNF  
PRM - PUSH ROD THREADED M8 x 1.25  
PUSH ROD LENGTHS ARE MEASURED FROM THE MOUNTING FLANGE.

IMPORTANT NOTE:  
CP4623 MASTER CYLINDER IS INDIVIDUALLY SHIMMED DURING ASSEMBLY TO MINIMISE FREE PLAY. THEREFORE PUSH RODS SHOULD NOT BE SWITCHED BETWEEN INDIVIDUAL MASTER CYLINDER ASSEMBLIES.

NON CAPTIVE PUSHRODS:  
CP4623 MASTER CYLINDER IS AVAILABLE WITH NON CAPTIVE PUSHRODS. THIS ENABLES THE REMOVAL OF THE MASTER CYLINDER WITHOUT NEED TO REMOVE THE PUSHROD FROM THE BRAKE PEDAL OR BALANCE BAR ASSEMBLY. PUSH RODS ARE AVAILABLE IN LENGTHS EQUIVALENT TO THOSE SHOWN ABOVE.

PUSHROD TYPES:  
NCT - NON CAPTIVE PUSHROD THREADED 5/16" UNF  
NCM - NON CAPTIVE PUSHROD THREADED M8 x 1.25

NOTE:  
INSTALLATION DIMENSIONS FOR 15/16" & 1.0" BORE MASTER CYLINDERS DIFFER FROM OTHER SIZES DUE TO LARGER BODY. PARTICULAR NOTE SHOULD BE TAKEN OF THE DIFFERENT DIMENSION FROM THE MOUNTING FLANGE TO THE PUSHROD.

ORDERING:  
WHEN ORDERING PLEASE STATE PUSHROD TYPE AND LENGTH REQUIRED. ALSO SPECIFY WHICH TYPE OF INLET IS REQUIRED. e.g. CP4623-90PRT115 INLET TYPE 'A' (CP4623-2) AP RACING TECHNICAL SECTION WILL BE PLEASED TO ADVISE ON THE MOST SUITABLE EQUIPMENT FOR ANY APPLICATION.

**INLET TYPE 'A'**

SELECT MASTER CYLINDER WITH INLET TYPE 'B', PLUS INLET ADAPTOR KIT PART NUMBER CP4623-2

**INLET TYPE 'C'**

SELECT MASTER CYLINDER WITH INLET TYPE 'B', PLUS RESERVOIR FROM PART NUMBER CHART BELOW.

PLEASE NOTE:  
TO FIT CP4709 TYPE RESERVOIRS THE INLET ADAPTOR AND COPPER GASKET ARE TO BE REMOVED. FITTING INSTRUCTIONS SUPPLIED WITH RESERVOIR.

RESERVOIR PART NUMBER	HEIGHT H mm (in)	DIAM E mm (in)	VOLUME cm <sup>3</sup> (in <sup>3</sup> )
CP4709-10	196 (7.71")	51 (2.0")	183 (11.1)
CP4709-11	146 (5.75")	51 (2.0")	123 (7.5)
CP4709-12	106 (4.17")	51 (2.0")	45 (2.8)

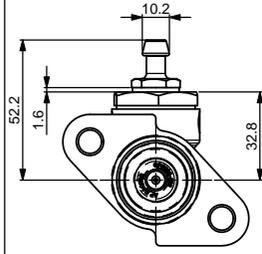
OTHER RESERVOIR OPTIONS AVAILABLE. SEE AP RACING HYDRAULIC ACTUATION CATALOGUE

**INLET TYPE 'B'**

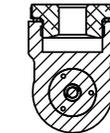
PART NUMBER	BORE SIZE
CP4623-88	Ø14.0
CP4623-89	Ø15.0
CP4623-90	Ø15.9 (5/8")
CP4623-905	Ø16.8
CP4623-91	Ø17.8 (0.7")
CP4623-92	Ø19.1 (3/4")
CP4623-93	Ø20.6 (13/16")
CP4623-94	Ø22.2 (7/8")
CP4623-95	Ø23.8 (15/16")
CP4623-96	Ø25.4 (1.0")

**INLET TYPE 'D'**

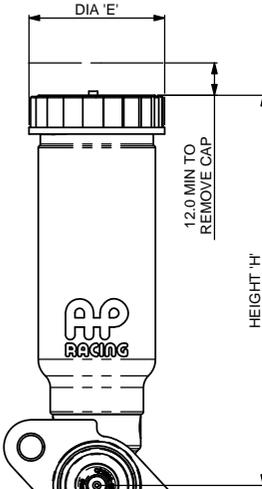
SELECT MASTER CYLINDER WITH INLET TYPE 'B', PLUS INLET ADAPTOR KIT PART NUMBER CP4623-6



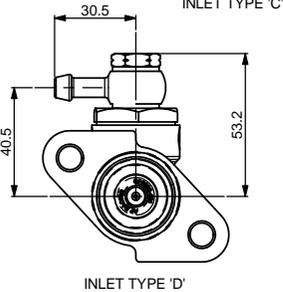
INLET TYPE 'A'



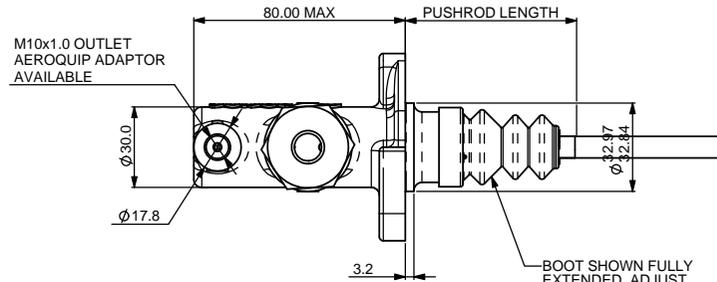
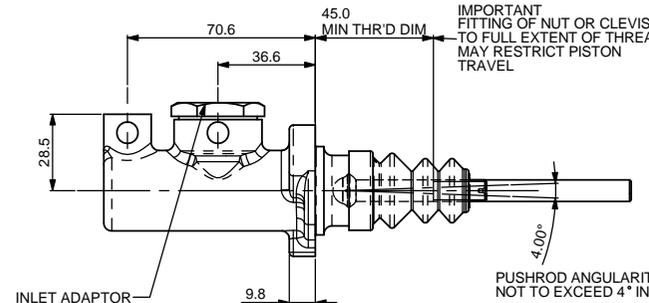
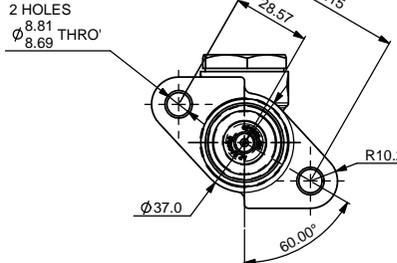
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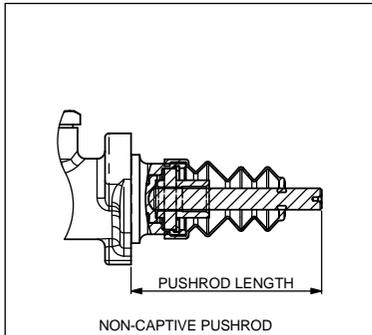
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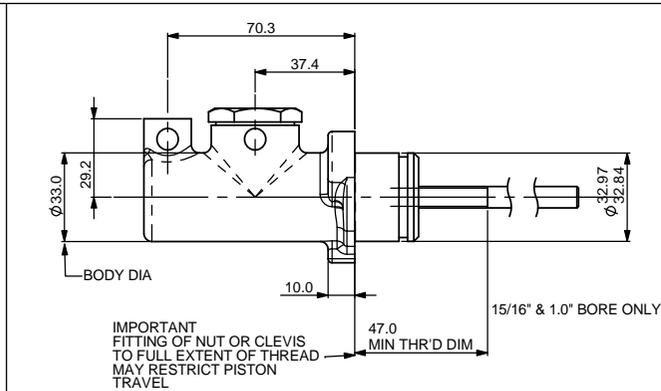
INLET TYPE 'D'



NOTE:  
PUSHROD EXTENSIONS THAT GIVE A TOTAL LENGTH OF OVER 200mm ARE NOT RECOMMENDED. IT IS THE CUSTOMERS RESPONSIBILITY TO CHECK SUITABILITY OF PUSHROD AND EXTENSION PIECES TO TAKE APPLIED LOADS.



NON-CAPTIVE PUSHROD



IMPORTANT FITTING OF NUT OR CLEVIS TO FULL EXTENT OF THREAD MAY RESTRICT PISTON TRAVEL

SCALE 1:1	SHEET 1 OF 1
DRAWN	FRAZER MACKAY
APPROVED	
DERIVED FROM	
TITLE	OFFSET FLANGE EXTRA SHORT CYLINDER
DRG NO.	CP4623-1CD