

A2 INSTALLATION DRAWING

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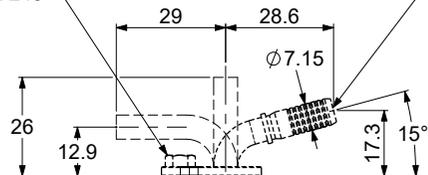
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Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
01	07/06/16 B8816	FIRST ISSUE	#	THS
02	21/06/16 B8816_12	WAS 1 ME21101 M8x1.25 LOCK NUT IN ALL VIEWS AND ASSEMBLIES, NOW 2.	#	THS
03	22/06/16 B8816_13	SHEET 2 BOOT INCLUDED IN REPAIR KIT. REF 18 AKS PLUG REMOVED FROM REPAIR KIT. REF 5 SLEEVE REMOVED FROM REPAIR KIT. REF 6	#	THS
04	06/07/16 B8816_16	SHEET 1 POTENTIOMETER KIT OPTION. NOTE AND DRAWING REMOVED. CP6467-254PRME WAS CP6465-254PRME	5B C8	THS
05	10/09/19 B8078	PISTON REFERENCE DIMENSIONS UPDATED TO 12.00 WAS 11.90	5B SCY	F
06	29/09/23 B8564	SHEET 2: CENTRELINE ADDED TO DRAWING VIEW 17 REPAIRED OUTLET OPTION B VIEW CORRECTED LABEL ON EXPLODED VIEW	G5 B5 F8	HMB
07	03/04/2024 B8512_01	SHEET 1: CLARIFIED PART NUMBERS, ALL NOTES & DIMENSIONS SHEET 2: ADDED ANTI-KNOCKBACK INFORMATION REPAIRED "SLEEVE" VIEW REMOVED OBSOLETE OUTLET OPTION	B1 B7	SW

HEX HEAD BOLT M4x0.7
THREAD, TIGHTENING
TORQUE 3-3.5Nm (2.2-2.5lbf),
USE LOCTITE 243

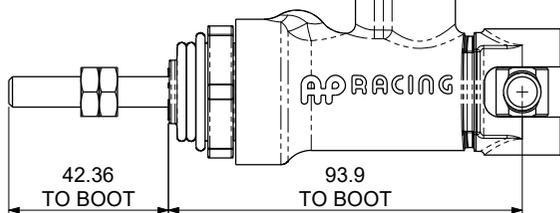


SWIVEL INLET FITTINGS SHOWN --- ARE NOT SUPPLIED WITH THE CYLINDER.
FITTINGS AVAILABLE (INCLUDES KEEPER PLATE & FASTENER):
CP6465-10 (75° BEND)
CP6465-11 (0° STRAIGHT)
CP6465-12 (90° BEND)

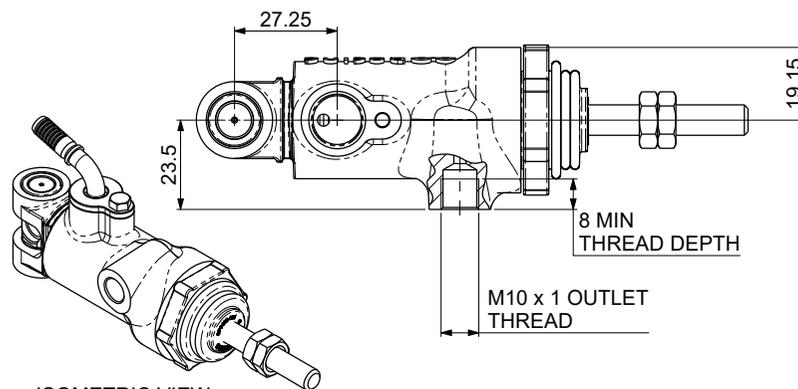
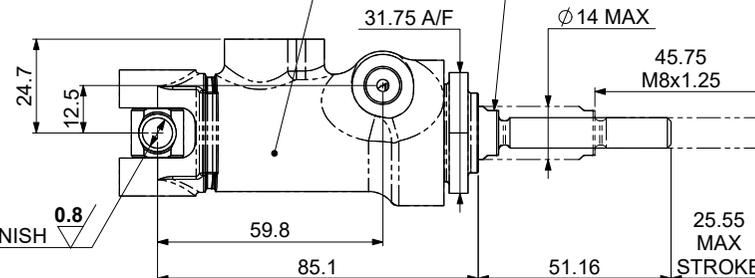
THESE FITTINGS ARE DESIGNED TO SUIT THE GOODRIDGE G-LINE RANGE OF FITTINGS AND HOSES. THE 910 SERIES HOSES ARE RECOMMENDED.

EACH PART WILL BE LASER ETCHED WITH THE SIZE, PART No. AND SERIAL No. HERE

FLATS ON PISTON TO HELP ASSEMBLY.
MOVE BOOT TEMPORARILY TO GAIN ACCESS.



-0.013
Ø 8 f7 -0.028
REQUIRED SHAFT
DIMN & SURFACE FINISH



GENERAL DESCRIPTION

UNIQUE PULL TYPE MASTER CYLINDER LAYOUT TO REDUCE UNWANTED SIDE LOADING SEEN IN CONVENTIONAL MASTER CYLINDERS, THIS IS DESIGNED TO BE MORE EFFICIENT, HAVE INCREASED LIFE SPAN AND COMPATIBILITY WITH ABS BRAKE SYSTEMS UTILISING CENTER VALVE TECHNOLOGY.

REAR PIVOT POINT UTILISES TRUNNION WITH NEEDLE ROLLER BEARINGS TO SUIT OUR HIGH EFFICIENCY AND LOW HYSTERESIS BALANCE BAR.

THE SPECIAL INLET FITTING AND 90° OUTLET ALLOWS THE CYLINDER TO SIT LOW WITHOUT TRAPPING AIR. OUR SELECTION OF RECOMMENDED OUTLETS ARE SHOWN ON SHEET 2.

THIS MASTER CYLINDER HAS THE OPTION TO BE SUPPLIED WITH AN ANTI-KNOCKBACK DEVICE TO REDUCE THE EFFECT OF PAD KNOCKBACK. SEE SHEET 2 FOR MORE DETAILS.

APPROX. WEIGHTS RANGE FROM 240-280g.

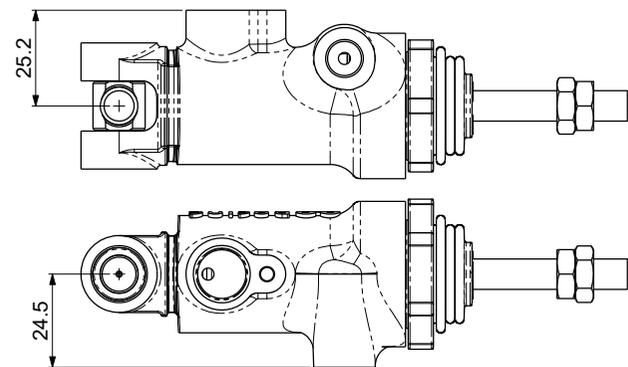
THIS CYLINDER IS DESIGNED TO FIT TO OUR RANGE OF PEDAL BOXES AND BALANCE BAR ASSEMBLIES. SEE CATALOGUE FOR DETAILS

PART No. STANDARD	PART No. ANTI-KNOCKBACK	CORRECTED BORE SIZES FOR CALCULATIONS	REFERENCE DIMENSIONS		
			BORE Ø (mm)	PISTON Ø (mm)	AREA (mm ²)
CP6467-149PRME:S	CP6467-149PRME:K	14.9 (0.587")	19.05	12.00	173.80
CP6467-162PRME:S	CP6467-162PRME:K	16.2 (0.638")	19.05	10.00	206.48
CP6467-173PRME:S	CP6467-173PRME:K	17.3 (0.681")	22.23	14.00	234.01
CP6467-188PRME:S	CP6467-188PRME:K	18.8 (0.740")	22.23	12.00	276.73
CP6467-202PRME:S	CP6467-202PRME:K	20.2 (0.795")	22.23	9.25	320.75
CP6467-212PRME:S	CP6467-212PRME:K	21.2 (0.835")	25.40	14.00	352.77
CP6467-218PRME:S	CP6467-218PRME:K	21.8 (0.858")	25.40	13.00	373.98
CP6467-224PRME:S	CP6467-224PRME:K	22.4 (0.882")	25.40	12.00	395.49
CP6467-237PRME:S	CP6467-237PRME:K	23.7 (0.933")	25.40	9.25	439.51
CP6467-254PRME:S	CP6467-254PRME:K	25.4 (1.000")	26.99	9.25	504.93

NOTE:
THE TABLE SHOWS THE MASTER CYLINDER PART NUMBERS AND A BORE SIZE THAT WOULD REFLECT A PUSH TYPE CYLINDER AND THE EFFECTIVE AREA USED FOR CALCULATIONS. THE PART NUMBER ALSO REFLECTS THE EFFECTIVE CYLINDER SIZE.

IMPORTANT NOTE

THE CP6467-254PRME MASTER CYLINDER HAS DIFFERENT INLET & OUTLET HEIGHTS, SHOWN BELOW:



SCALE 1:1	SHEET 1 OF 2
DRAWN T HARGRAVE-SMITH	APPROVED
DERIVED FROM CP6467-1CD	
TITLE CP6467 MASTER CYLINDER CUSTOMER DRAWING	
DRG NO. CP6467-1CD	

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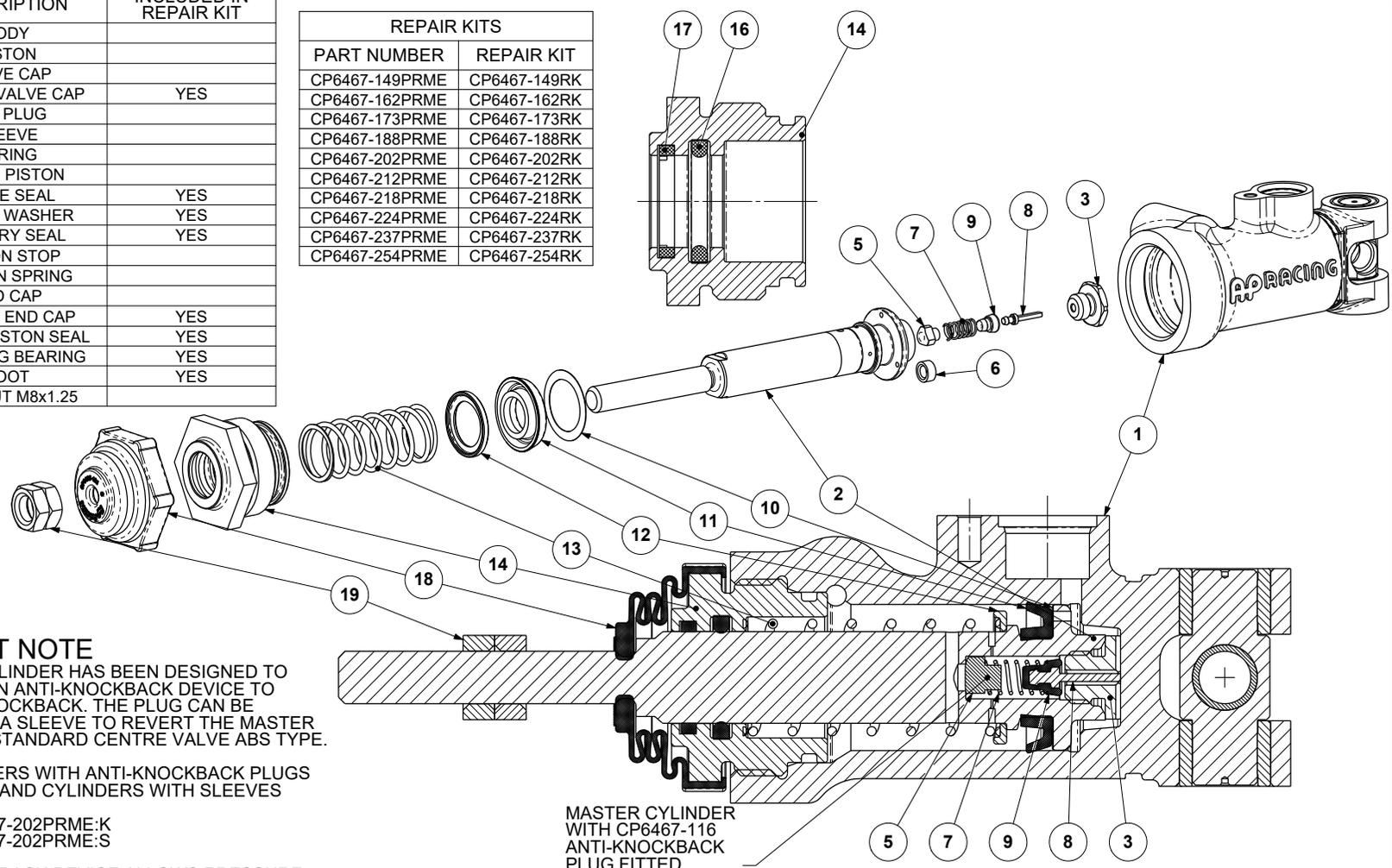
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REF	DESCRIPTION	INCLUDED IN REPAIR KIT
1	BODY	
2	PISTON	
3	VALVE CAP	
4	O-RING, VALVE CAP	YES
5	AKB PLUG	
6	SLEEVE	
7	SPRING	
8	VALVE PISTON	
9	VALVE SEAL	YES
10	PISTON WASHER	YES
11	PRIMARY SEAL	YES
12	PISTON STOP	
13	RETURN SPRING	
14	END CAP	
15	O-RING, END CAP	YES
16	D-RING PISTON SEAL	YES
17	SLYDRING BEARING	YES
18	BOOT	YES
19	LOCKNUT M8x1.25	

REPAIR KITS	
PART NUMBER	REPAIR KIT
CP6467-149PRME	CP6467-149RK
CP6467-162PRME	CP6467-162RK
CP6467-173PRME	CP6467-173RK
CP6467-188PRME	CP6467-188RK
CP6467-202PRME	CP6467-202RK
CP6467-212PRME	CP6467-212RK
CP6467-218PRME	CP6467-218RK
CP6467-224PRME	CP6467-224RK
CP6467-237PRME	CP6467-237RK
CP6467-254PRME	CP6467-254RK

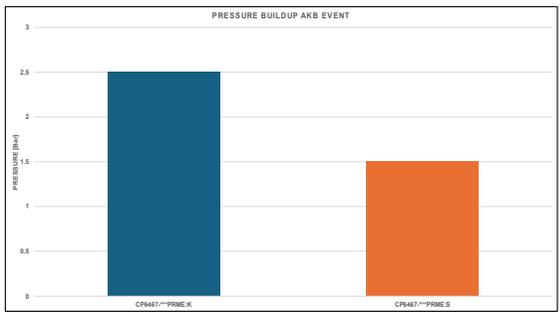


IMPORTANT NOTE

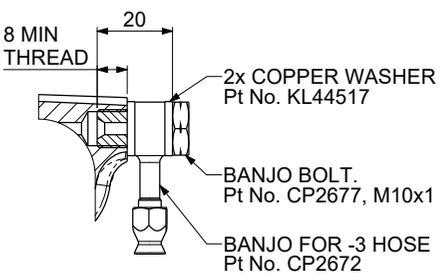
THIS MASTER CYLINDER HAS BEEN DESIGNED TO INCORPORATE AN ANTI-KNOCKBACK DEVICE TO REDUCE PAD KNOCKBACK. THE PLUG CAN BE REPLACED WITH A SLEEVE TO REVERT THE MASTER CYLINDER TO A STANDARD CENTRE VALVE ABS TYPE.

MASTER CYLINDERS WITH ANTI-KNOCKBACK PLUGS HAVE SUFFIX 'K' AND CYLINDERS WITH SLEEVES HAVE SUFFIX 'S'
EXAMPLE: CP6467-202PRME:K
CP6467-202PRME:S

THE ANTI-KNOCKBACK DEVICE ALLOWS PRESSURE TO BUILD UP BETWEEN THE CALIPER AND MASTER CYLINDER DURING A REPRESENTATIVE KNOCKBACK EVENT, THIS AMOUNT IS SHOWN BELOW:



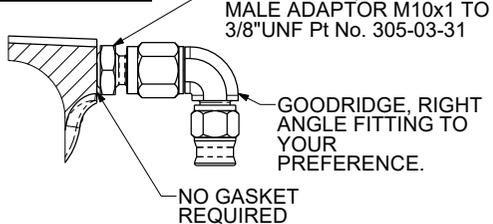
OUTLET OPTION A



MASTER CYLINDER WITH CP6467-116 ANTI-KNOCKBACK PLUG FITTED

MASTER CYLINDER WITH CP6467-117 SLEEVE FITTED

OUTLET OPTION B



Alterations		Zone	Initials
Issue No.	Date & No.	Particulars	
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-

SCALE 1:1	SHEET 2 OF 2
DRAWN T HARGRAVE-SMITH	APPROVED
DERIVED FROM CP6467-1CD	TITLE CP6467 MASTER CYLINDER CUSTOMER DRAWING
DRG NO. CP6467-1CD	