Last Saved: sthomas on 23 July 2015 16:24:40 N:\SolidWorks\Customer\cp6465-1CD.slddrw INSTALLATION If this document is printed in hardcopy THIS DRAWING IS CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT SHALL NOT BE LOANED OR COPIED OR DISCLOSED TO ANY OTHER PERSON OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF AP RACING LTD. AP Racing it is for information use only and therefore is Wheler Road **DRAWING** 0 not subject to updating controls. Always Coventry FIRST ANGLE PROJECTION refer to viewer for latest issue CV3 4LB FITTING 29.00 INLET FITTINGS SHOWN --- ARE NOT සුමුයුගල Tel: +44 024 7663 9595 Fax: +44 024 7663 9559 SUPPLIED WITH THE CYLINDER. 3 ALTERNATIVE INLET 90° EACH PART WILL BE ISOMETRIC VIEW FITTINGS SHOWN. THESE FITTINGS ARE DESIGNED TO SUIT e-mail: sales@apracing.co.uk © AP Racing Ltd. 2005 FITTING LASER ETCHED WITH SCALE 3:4 Web site-http://www.apracing.com 75.00° ANGLED FITTINGS CAN THE GOODRIDGE G-LINE RANGE OF FITTINGS 0 THE SIZE, PART No. 26.00 STRAIGHT Alterations ROTATE TO ANY AND HOSES, AP RACING RECOMMENDS THE AND A SERIAL NO. ٧o. Date & No. **Particulars** POSITION 910 SERIES HOSES. Ø7.15 12.50 90° FI R12.7 ALTV. INLETS:- (AVAILABLE FROM AP RACING) 1 24/11/2003 # CDA B3160 CP6465-10 (75° BEND AS SHOWN) CP6465-11 (STRAIGHT) 28.6 2 24/11/2003 AREAS ADDED. # CDA 59.80 3 21/01/2004 WEIGHTS ADDED. # CDA CP6465-12 (90° BEND) 4 04/03/2004 STRAIGHT INLET FITTING CP6465-1# CDA ADDED, FLATS ADDED TO PISTON. 27/07/2004 SHEET2 ADDED, REPAIR KIT # CDA INSTRUCTIONS ADDED. 10/09/2004 CP6465-12 90deg INLET ADDED. # CDA 6 45.75 Ø14.00 MAX 25/10/2004 RUBBER BOOT INFO ADDED. # CDA 50 7 **THREAD** 28/10/2004 SPARES INFO ADDED, BALANCE BAR AND PEDAL BOX CDA 2 NOTE ADDED **(** 9 01/12/2004 CP6465-20 KIT NOTE ADDED. # CDA 24. 10 02/03/2005 3 ALTV INLET CONNECTIONS AND RELEVANT DIMNS ADDED. DRA lacktriangVARIOUS NOTES MOVED, ADDED OR MODIFIED TO CLARIFY. 22/05/2006 CP6465-254PRME CYL DETAILS ADDED. # CDA 11 M8x1.25 03/03/2007 CP6465-15 POT KIT ADDED. 12 # CDA THREAD $\phi_{7.972}^{7.987}$ B4768 25.40 ³1.75 27.25 13 23/10/2008 M4 HEX HEAD BOLT TORQUE DETAIL ADDED. CDA 85.10 51.31 MAX 14 **RUBBER BOOT IS REQUIRED** TO CAP CP6465-212 ASSY ADDED. SAT TO CAP STROKE B5588 INCLUDED FOR SHAFT DIMN & 0.8 93.90 ITEM 5 SHEET 2 D-RING SEAL WAS O-RING SEAL 42.51 15 4G SAT DEBRIS PROTECTION. SURFACE FINISH B6489 **TO BOOT** TO BOOT CAN ALSO BE SOLD 16 ASSEMBLY CP6465-224PRME THIS CYLINDER IS DESIGNED TO SEPARATELY AS A FLATS ON PISTON TO FIT DIRECT TO OUR RANGE OF SPARE, CP6465-121 HELP ASSEMBLY INTO PULL TYPE PEDAL BOXES, AND OR 3off KIT CP6465-20. THE PEDAL BOX. MOVE OUR RANGE OF BALANCE BAR **BOOT TEMPORARILY TO** ASSEMBLIES. SEE CATALOGUE FOR DETAILS. GAIN ACCESS. **GENERAL DESCRIPTION** THIS PULL TYPE MASTER CYLINDER HAS BEEN DESIGNED TO BE MORE EFFICIENT THAN NORMAL MASTER CYLINDERS. THIS IS DUE TO THE COMPACT NATURE, 23 THERE IS LESS CHANCE OF UNWANTED SIDE LOADING. DESIGNED INTO THE BACK OF THE CYLINDER IS NEEDLE ROLLER BEARING CLEVIS. THIS HAS BEEN DESIGNED HEX HEAD BOLT M4x0.7 THREAD, RECOMMENDED TO FIT INTO OUR HIGH EFFICIENCY AND LOW HYSTERESIS BALANCE BAR. THE TIGHTENING TORQUE SPECIAL INLET FITTING AND 90Deg OUTLET ALLOWS THE CYLINDER TO SIT LOW BUT 3.0 - 3.5Nm (2.2-2.5 lbft) OUTLET M10x1.00 THREAD, WITHOUT TRAPPING AIR. OUR SELECTION OF RECOMMEND OUTLETS ARE SHOWN ON WE ALSO RECOMMEND THE USE OF LOCTITE 243 8.00 MIN THREAD DEPTH. SEE FITTING OPTIONS. THREAD LOCKER. APPROX. WEIGHTS RANGE FROM 230grams TO 270grams. CORRECTED BORE REFERENCE DIMS FOR SEAL REPAIR KIT IMPORTANT NOTE PART NUMBER SIZES FOR BOREØ INFORMATION, SEE SHEET 2. CALCULATIONS THE CP6465-254PRME MASTER CYLINDER HAS SOME DIFFERENCES WITH VARIOUS INSTALLATION DIMENSIONS, ARE ARE SHOWN BELOW. CP6465-149PRME 14,9 (0.587") 19.05 173.80 11.90 CP6465-162PRME 16,2 (0.638") 19.05 10.00 206.48 KIT INCLUDES ENOUGH PARTS FOR ONE 22 23 234 01 CP6465-173PRME 17.3 (0.681") 14.00 CYLINDER, THOUGH IT DOES INCLUDE 276.73 BOTH HANDED BRACKETS TO AID CP6465-188PRME 18,8 (0.740") 22.23 11.90 25. THE ATTACHMENT TO 22.23 320.75 CP6465-202PRME 20.2 (0.795") 9.25 EITHER SIDE. CP6465-212PRME 21.2 (0.835") 25.40 352.77 14.00 CP6465-218PRME 21.8 (0.858") 25.40 13.00 373.98 395.49 CP6465-224PRME 22,4 (0.882*) 25.40 11.90 25.40 439.51 CP6465-237PRME 23,7 (0.933") 9 25 CP6465-254PRME SCALE 1:1 SHEET 1 OF 2 25,4 (1.000") 26.99 504.93 DRAWN Chris Arrowsmith **APRACING** APPROVED OPTIMUM PULL TYPE CYLINDER DESIGN MEANS THAT TO USE STANDARDS SEAL SIZES AND BORE SIZES, THERE DERIVED FROM WOULD BE A SLIGHT VARIATION FROM STANDARD CYLINDERS. THE SIZES WERE ALSO ADJUSTED TO GIVE EQUAL STEPS BETWEEN THE DIFFERENT SIZES. 50 PULL TYPE MASTER CYLINDER THE TABLE SHOWS THE MASTER CYLINDER PART 24. OPTIONAL POTENTIOMETER KIT NUMBERS AND A BORE SIZE THAT WOULD REFLECT A CP6465-15, PUSH TYPE CYLINDER, THE CORRECTED BORE SIZE. THE PART NUMBER ALSO REFLECTS THE CYLINDER SIZE. (SUITS ALL SIZES EXCEPT CP6465-254PRME) DRG NO. CP6465-1CD

Last Saved: sthomas on 23 July 2015 16:24:40 N:\SolidWorks\Customer\cp6465-1CD.slddrw INSTALLATION If this document is printed in hardcopy THIS DRAWING IS CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT SHALL NOT BE LOANED OR COPIED OR DISCLOSED TO ANY OTHER PERSON OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF AP RACING LTD. AP Racing it is for information use only and therefore is Wheler Road **DRAWING** not subject to updating controls. Always Coventry FIRST ANGLE PROJECTION refer to viewer for latest issue. CV3 4LB REFERENCE DIMS CORRECTED BORE PART NUMBER SIZES FOR BORE Ø PISTON Ø Repair Kits RACING Tel: +44 024 7663 9595 Fax: +44 024 7663 9559 INCLUDED WITH Area REF DESCRIPTION CALCULATIONS REPAIR KIT CP6465-149PRME 173.80 CP6465-149RK e-mail: sales@apracing.co.uk 14,9 (0.587") 11.90 © AP Racing Ltd. 2005 Web site-http://www.apracing.com PRIMARY CUP SEAL Yes CP6465-162PRME 206.48 CP6465-162RK 16,2 (0.638") 10.00 Alterations 2 SLYDRING BEARING Yes 234.01 CP6465-173RK CP6465-173PRME 17,3 (0.681") 14.00 No. Date & No. **Particulars** CP6465-188PRME M/CYL RETURN SPRING 22.23 276.73 CP6465-188RK 11.90 SEE SHEET1 FOR ISSUE LEVEL PISTON WASHER Yes CP6465-202PRME 20,2 (0.795") 22.23 9.25 320.75 CP6465-202RK CP6465-212PRME 21,2 (0.835") 25.40 14.00 352.77 CP6465-212RK D-RING PISTON SEAL Yes CP6465-218PRME 21,8 (0.858") 25.40 13.00 373.98 CP6465-218RK 6 **PISTON STOP** CP6465-224PRME 22,4 (0.882") 395.49 CP6465-224RK PISTON CP6465-237PRME 23,7 (0.933") 25.40 9.25 439.51 CP6465-237RK 8 O-RING CAP SEAL Yes CP6465-254PRME 25,4 (1.000") 26.99 504.93 CP6465-254RK 9.25 **ENDCAP** OTHER IMPORTANT NOTES: 10 BODY - ENSURE BORE IS FREE OF DEBRIS. - LUBRICATE SEALS AND BORE WITH BRAKE FLUID 11 LOCKNUT M8x1.25 12 BOOT PRIOR TO ASSEMBLY. (9)CARE MUST BE TAKEN WHEN ASSEMBLING SEALS AS DAMAGE MAYBE CAUSED **TIGHTEN ENDCAP** TO 24Nm [18lbf-ft]. AND USE LOCTITE THREADLOCKER, 242 or 243. (10)4, OUTLET FITTINGS NOT SUPPLIED WITH THE CYLINDER. ONLY OPTION B PARTS CAN BE OBTAINED FROM AP RACING. **OUTLET OPTION B OUTLET OPTION A** THE DIFFERENT **OUTLET OPTION C** 8.00 MIN TYPES REFER THREAD TO THE THREAD ON THIS TUBE NUT. -GOODRIDGE, MALE TO MALE ADAPTOR M10x1.00 TO 3/8" UNF, Pt No. 305-03-31 2 TYPES: CP6465-16 - 3/8"UNF GOODRIDGE, RIGHT SCALE 1:1 SHEET 2 OF 2 CP6465-17 - M10x1.0-DRAWN Chris Arrowsmith ANGLE FITTING TO YOUR PREFERENCE. APPROVED GOODRIDGE. DERIVED FROM SINGLE BANJO BOLT Pt No. 992-03-31, M10x1.00 TITLE PULL TYPE MASTER CYLINDER GOODRIDGE BANJO. TO NO GASKET YOUR PREFERNCE. NO GASKET REQUIRED 20.00 REQUIRED DRG NO. CP6465-1CD