

Bulletin 271-18

**ACCESSORIES & ADAPTORS
FOR
MOREHOUSE UNIVERSAL
CALIBRATING MACHINES**

Morehouse Instrument Company

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INTRODUCTION

THIS BULLETIN CONTAINS ACCESSORIES AND ADAPTORS THAT ARE DESIGNED AND MANUFACTURED FOR USE WITH MOREHOUSE UNIVERSAL CALIBRATING MACHINES. THEIR DESIGN IS BASED ON YEARS OF EXPERIENCE AND TESTING IN OUR OWN FORCE CALIBRATION LABORATORY. WE HAVE CREATED THIS BULLETIN AS A RESULT OF GROWING CONCERNS OVER THE RELIABILITY AND SAFETY OF USING ACCESSORIES AND ADAPTORS THAT ARE NOT PROPERLY DESIGNED AND MANUFACTURED FOR THE INTENDED CALIBRATION.

A MAJOR CONCERN WHEN PERFORMING FORCE CALIBRATIONS IS THE PROPER ALIGNMENT AND LOADING OF THE REFERENCE FORCE STANDARD AND THE FORCE MEASURING SYSTEM BEING CALIBRATED. FAILURE TO HAVE PROPER ALIGNMENT WILL CAUSE AN ERROR IN CALIBRATION RESULTS AND MAY CREATE AN UNSAFE LOADING CONDITION. THE ACCESSORIES AND ADAPTORS LISTED IN THIS BULLETIN PROVIDE FOR PROPER LOADING AND ALIGNMENT. AS AN EXTRA PRECAUTION, TO ASSURE YOUR SAFETY, ACCESSORIES AND ADAPTORS ARE PROOF LOADED TO THEIR RATED CAPACITY BEFORE BEING SHIPPED.

BEGINNING ON PAGE 35 THERE ARE SEVERAL PAGES OF ILLUSTRATIONS THAT SHOW THE PROPER USE OF THE ACCESSORIES AND ADAPTORS LISTED IN THE BULLETIN. PLEASE REFER TO THESE ILLUSTRATIONS AS THEY WILL PROVE INVALUABLE IN SELECTING THE ACCESSORIES AND ADAPTORS REQUIRED TO PERFORM VARIOUS TYPES OF CALIBRATIONS AND WHEN SETTING UP TO PERFORM CALIBRATIONS AFTER PURCHASE OF ACCESSORIES AND ADAPTORS.

BECAUSE OF THE HUGE VARIETY OF INSTRUMENTS THAT CAN BE CALIBRATED USING MOREHOUSE UNIVERSAL CALIBRATING MACHINES IT IS IMPOSSIBLE FOR US TO LIST EVERYTHING IN THIS BULLETIN. IF THE SIZE OR TYPE OF ACCESSORY OR ADAPTOR REQUIRED IS NOT LISTED IN THIS BULLETIN PLEASE CONTACT US. CHANCES ARE WE HAVE MANUFACTURED SIMILAR ITEMS.

PLEASE DO NOT HESITATE TO CONTACT US FOR ASSISTANCE IN CHOOSING THE PROPER ACCESSORIES AND ADAPTORS OR IF THERE ARE QUESTIONS REGARDING THE PROPER USE OF ANY OF THE ITEMS LISTED IN THIS BULLETIN.

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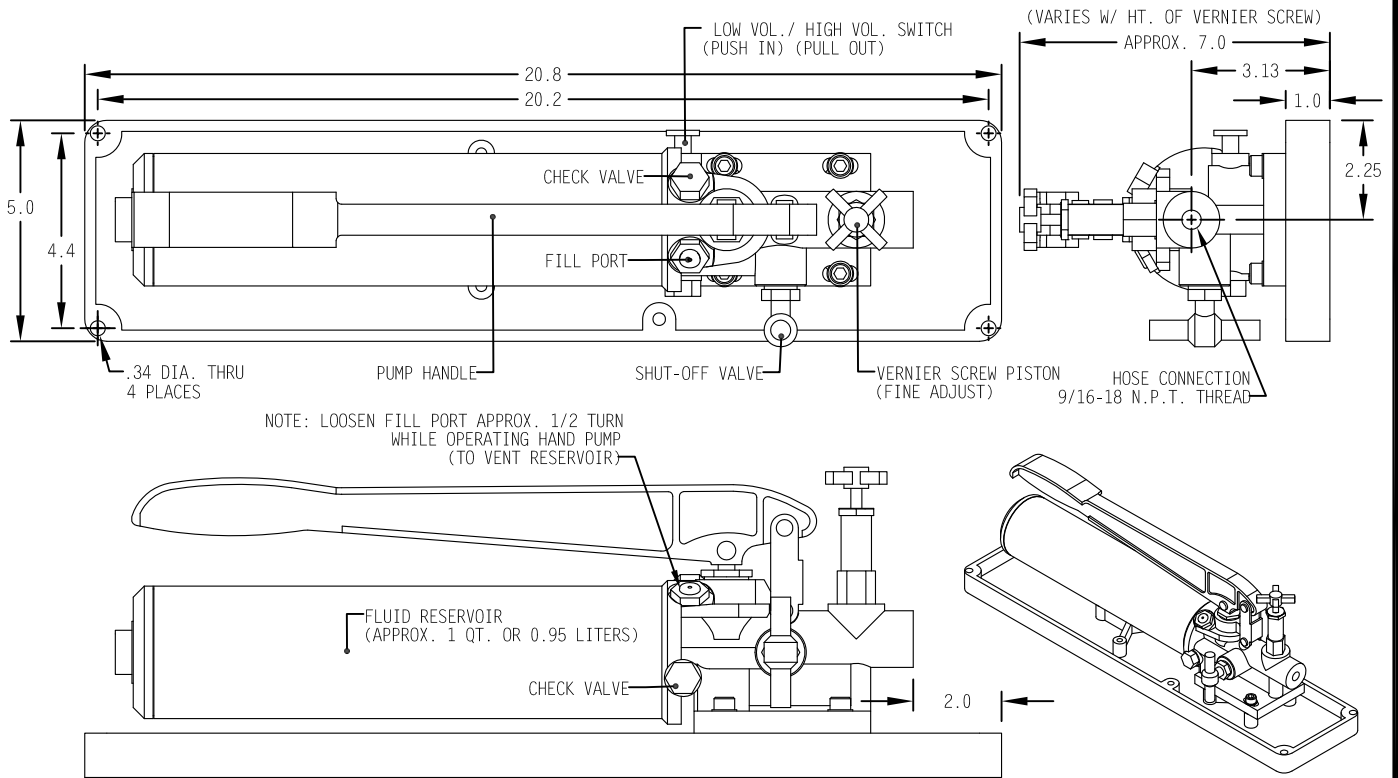
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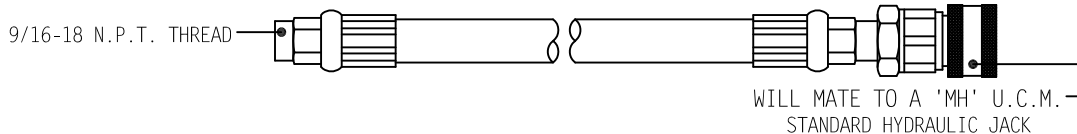
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MOREHOUSE HYDRAULIC HAND PUMP



NOTE: LOOSEN FILL PORT APPROX. 1/2 TURN WHILE OPERATING HAND PUMP (TO VENT RESERVOIR)

SUPPLIED WITH A 5 FOOT LENGTH OF HOSE WITH A QUICK DISCONNECT COUPLING
 5 FOOT HOSE & QUICK DISCONNECT; PRODUCT NO.: 66-175002
 (OTHER HOSE LENGTHS ARE AVAILABLE; ASK WHEN ORDERING)



MOREHOUSE HYDRAULIC HAND PUMP
 PART MODEL NO.: 214000

(NEW TYPE 'T' STAINLESS STEEL MODEL WITH VERNIER SCREW)

THE HAND PUMP SUPPLIED BY MOREHOUSE INSTRUMENT CO. IS A PRECISION LABORATORY DEAD WEIGHT TYPE TESTER PUMP CONTAINING A DUAL VOLUME PISTON. THE PUMP DELIVERS A LARGE VOLUME OF HYDRAULIC FLUID PER STROKE TO RAPIDLY ADVANCE THE PISTON OF A HYDRAULIC JACK UNTIL HIGHER PRESSURES ARE ENCOUNTERED AND PUMPING BECOMES DIFFICULT. AT THIS POINT, A VALVE ROD CAN BE PUSHED IN AND THE PUMP WILL DELIVER A SMALLER VOLUME OF FLUID PER STROKE, THUS MAKING PUMPING EASIER. IN ADDITION, THE PUMP HAS A VERNIER SCREW PISTON FOR APPLICATION OF FORCES IN EXTREMELY MINUTE INCREMENTS. THE VERNIER SCREW PISTON ALSO PERMITS THE MAINTENANCE OF THE FORCE OVER A RELATIVELY LONG PERIOD OF TIME BY SLOWLY TURNING IT TO OFFSET CREEP.

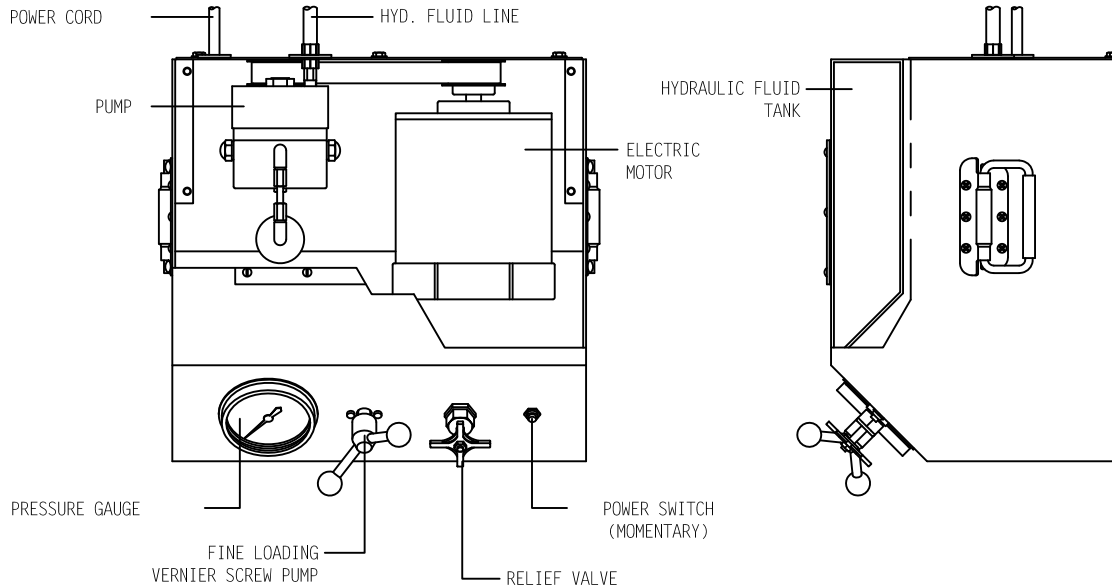
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MOREHOUSE HYDRAULIC POWER CONTROL



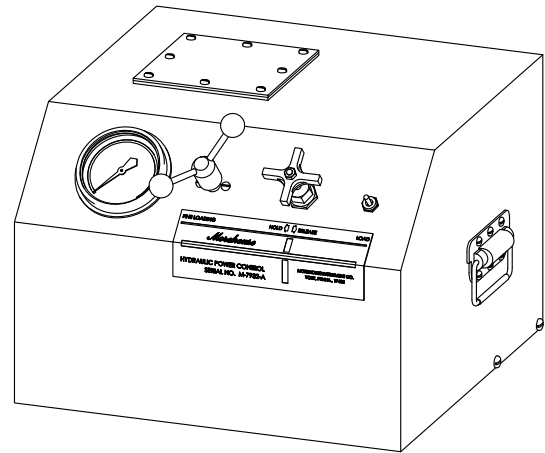
MOREHOUSE HYDRAULIC POWER CONTROL PART MODEL NO.: 398000

MAX. WORKING PRESSURE: 5,000 P.S.I.
PUMP RATE OF FLOW: 2 CU. IN./MIN.
RESERVOIR CAPACITY: 1 1/2 GALLONS

POWER: 120 VOLT/60 HERTZ OR 220 VOLT/50 HERTZ

SIZE: 17" L. x 15" W. x 13" H. WEIGHT: 98 POUNDS

SUPPLIED WITH A LENGTH OF HOSE WITH A QUICK DISCONNECT COUPLING



NOTE: H.P.C. REQUIRED FOR AN AUTOMATED U.C.M. SYSTEM; ASK FOR MODEL #823000

THE MOREHOUSE HYDRAULIC POWER CONTROL IS SPECIFICALLY DESIGNED WITH A LOW RATE OF FLOW TO CONTROL THE HYDRAULIC CYLINDERS OF MOREHOUSE UNIVERSAL CALIBRATING MACHINES. IT CAN ALSO BE USED WHEREVER THE LOADING OF HYDRAULIC CYLINDERS MUST BE PRECISELY CONTROLLED, SUCH AS IN NON-DESTRUCTIVE TESTING OF STRUCTURES.

THE HYDRAULIC POWER CONTROL CONSISTS OF A RADIAL PISTON PUMP DRIVEN BY AN ELECTRIC MOTOR THROUGH A GEAR REDUCTION UNIT, A HYDRAULIC GAUGE, AND A MANUALLY OPERATED VERNIER SCREW PISTON PUMP.

IN OPERATION, THE ELECTRIC MOTOR DRIVEN PUMP IS USED TO APPROACH A SPECIFIC PRESSURE OR FORCE, AND THEN THE VERNIER SCREW PISTON PUMP IS USED TO ACCURATELY APPROACH AND MONITOR THE DESIRED PRESURE OR FORCE.

THE STEEL CABINET WHICH HOUSES THE HYDRAULIC POWER CONTROL IS FITTED WITH SPRING LOADED CHEST HANDLES TO MAKE THE CONTROL EASILY PORTABLE.

THIS HYDRAULIC POWER CONTROL; MODEL: 398000, IS FOR USE WITH CAPACITIES THRU 400,000 LBF.. A HIGH FLOW VERSION FOR HIGHER CAPACITIES IS AVAILABLE. CONTACT MOREHOUSE INSTRUMENT CO. FOR MORE INFORMATION.

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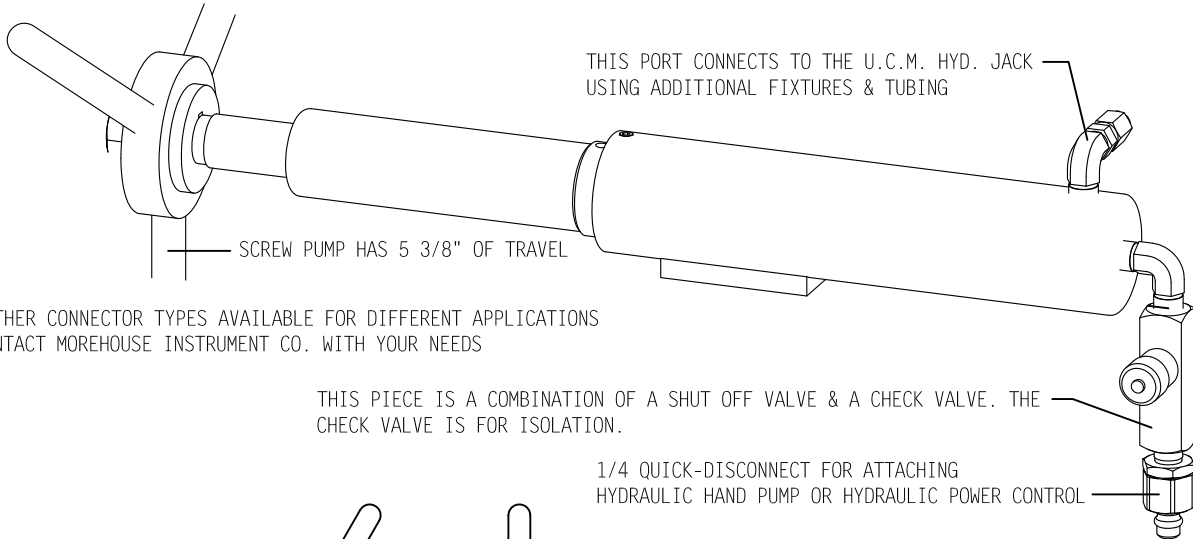
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MOREHOUSE AUXILIARY SCREW PUMP SYSTEM

PRODUCT NO.: 66-806

THE SCREW PUMP SYSTEM CONSISTS OF A COMBINATION SHUT OFF VALVE AND CHECK VALVE, SCREW PUMP, MECHANICAL TUBING, AND MOUNTING HARDWARE. A MOREHOUSE HAND PUMP OR MOREHOUSE HYDRAULIC POWER CONTROL IS ATTACHED TO THE SHUT OFF VALVE WITH THE FLEXIBLE HOSE WITH WHICH IT IS SUPPLIED VIA A QUICK DISCONNECT. ALL TUBING BETWEEN THE SHUT OFF VALVE, CHECK VALVE, SCREW PISTON, AND HYDRAULIC RAM IS RIGID MECHANICAL TUBING. THIS ELIMINATES CREEP ASSOCIATED WITH FLEXIBLE HYDRAULIC HOSES.

THE CHECK VALVE AND SHUT OFF VALVE ARE MOUNTED IN PARALLEL. TO BEGIN OPERATION THE SHUT OFF VALVE IS CLOSED AND A MOREHOUSE HAND PUMP OR MOREHOUSE HYDRAULIC POWER CONTROL IS USED TO GET AS CLOSE TO THE DESIRED LOAD. THE SCREW PUMP IS THEN USED TO APPLY AND MAINTAIN THE EXACT FORCE TO BE APPLIED. THE CHECK VALVE ALLOWS FLUID THROUGH WITHOUT THE NEED TO OPEN THE SHUT OFF VALVE EACH TIME FORCE IS APPLIED. THIS PREVENTS ACCIDENTAL OVER PRESSURIZATION OF THE SYSTEM. WHEN CALIBRATION IS COMPLETE THE SHUT OFF VALVE IS OPENED FOR RETURN TO A NO LOAD CONDITION.



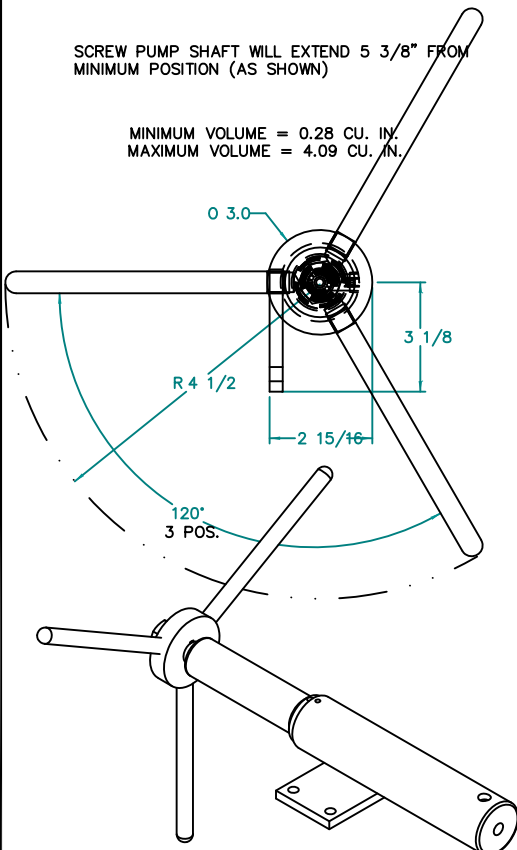
NOTE: OTHER CONNECTOR TYPES AVAILABLE FOR DIFFERENT APPLICATIONS
CONTACT MOREHOUSE INSTRUMENT CO. WITH YOUR NEEDS

THIS PIECE IS A COMBINATION OF A SHUT OFF VALVE & A CHECK VALVE. THE CHECK VALVE IS FOR ISOLATION.

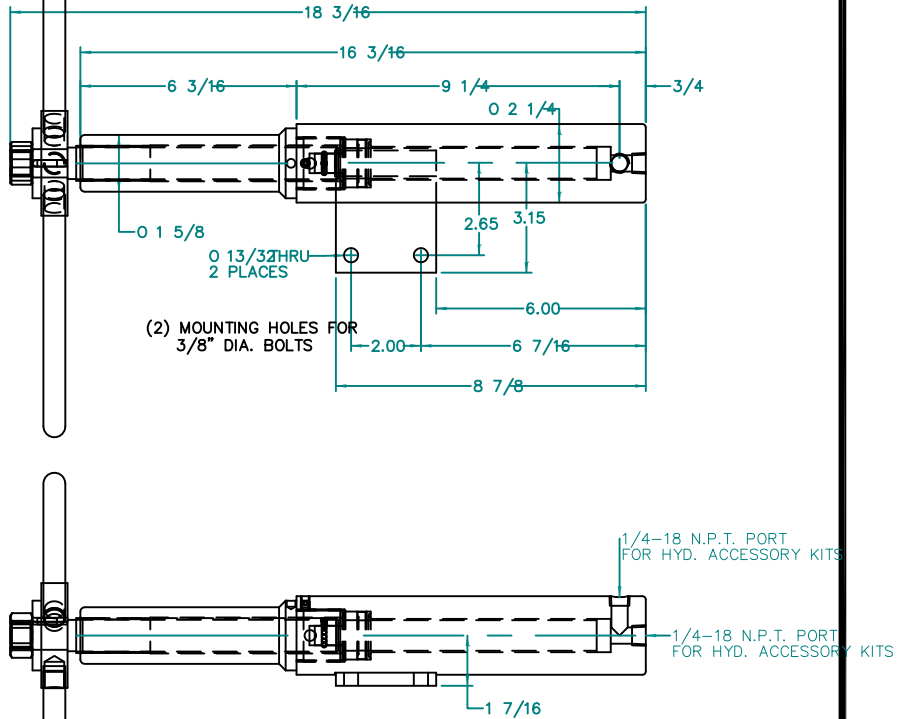
1/4 QUICK-DISCONNECT FOR ATTACHING
HYDRAULIC HAND PUMP OR HYDRAULIC POWER CONTROL

SCREW PUMP SHAFT WILL EXTEND 5 3/8" FROM
MINIMUM POSITION (AS SHOWN)

MINIMUM VOLUME = 0.28 CU. IN.
MAXIMUM VOLUME = 4.09 CU. IN.



SCREW PUMP IS SHOWN IN IT'S MINIMUM POSITION CONFIGURATION



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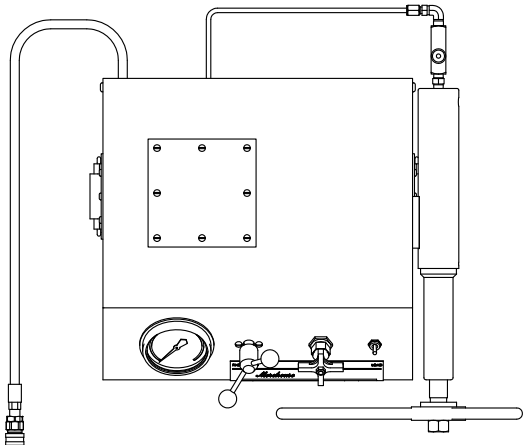
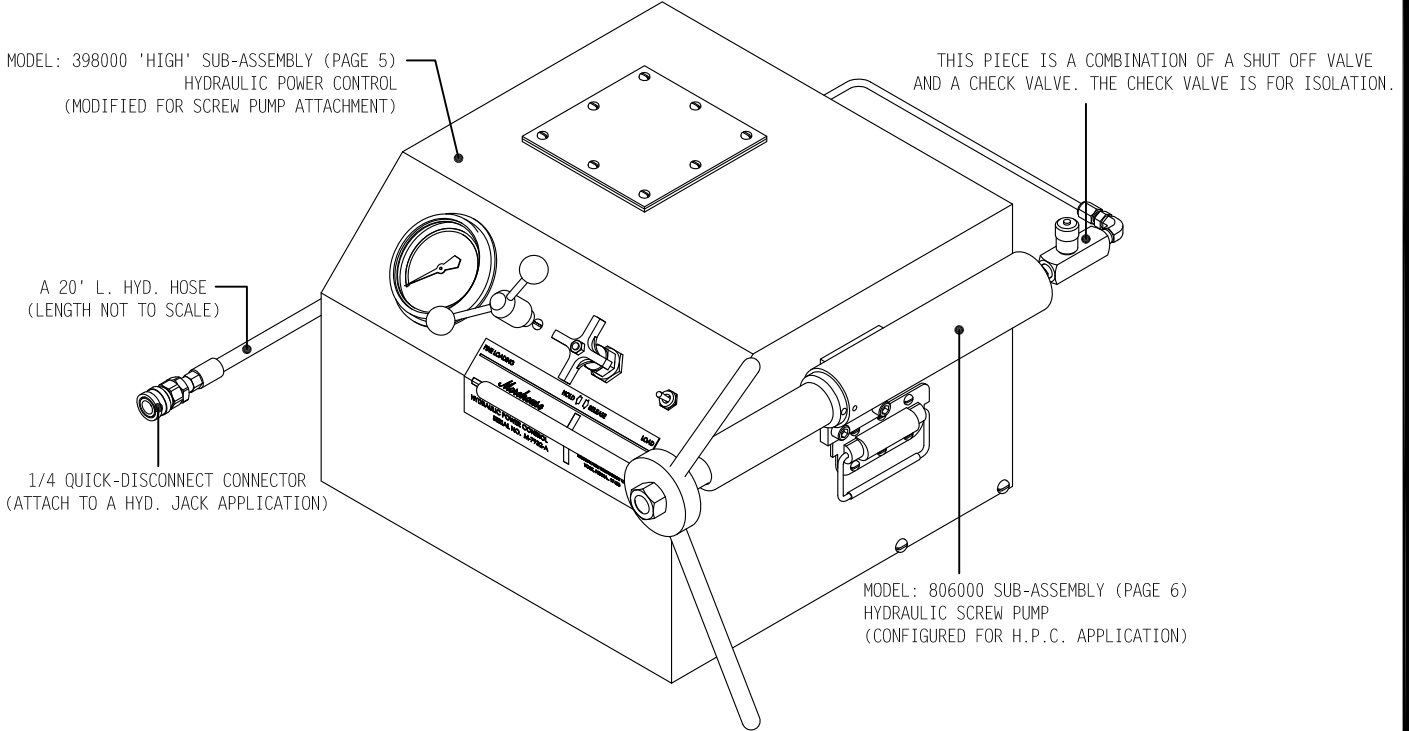
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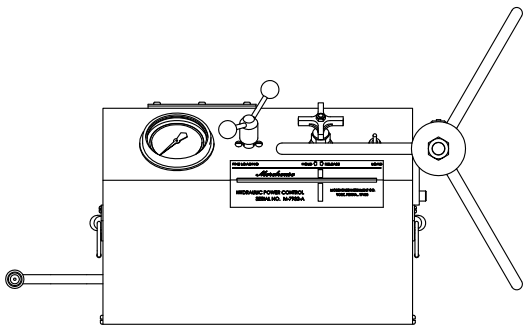
MOREHOUSE HIGH FLOW ASSEMBLY "SYSTEM"

MODEL #822000 - ONE ASSEMBLY UNIT; HYDRAULIC POWER CONTROL WITH HYDRAULIC SCREW PUMP ATTACHED



MOREHOUSE MODEL: 822000 "HIGH FLOW HYDRAULIC ASSEMBLY SYSTEM"

USEFUL IN APPLICATIONS INVOLVING MOREHOUSE UNIVERSAL CALIBRATING MACHINES OF A HIGHER CAPACITY CONFIGURATION.



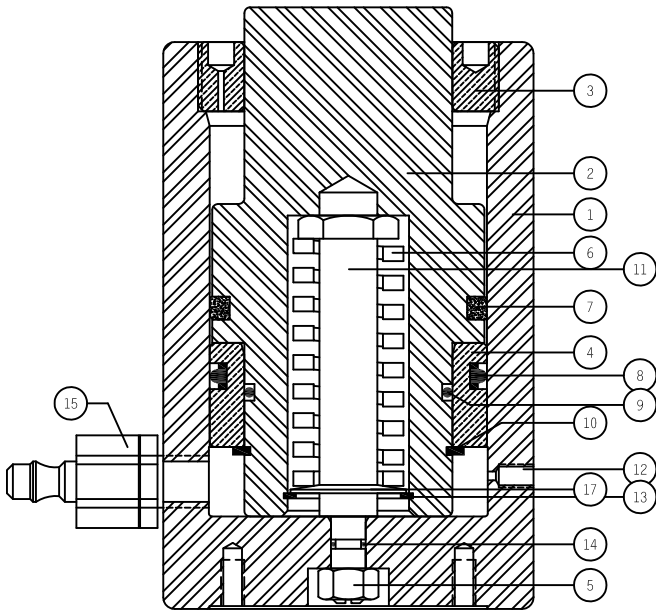
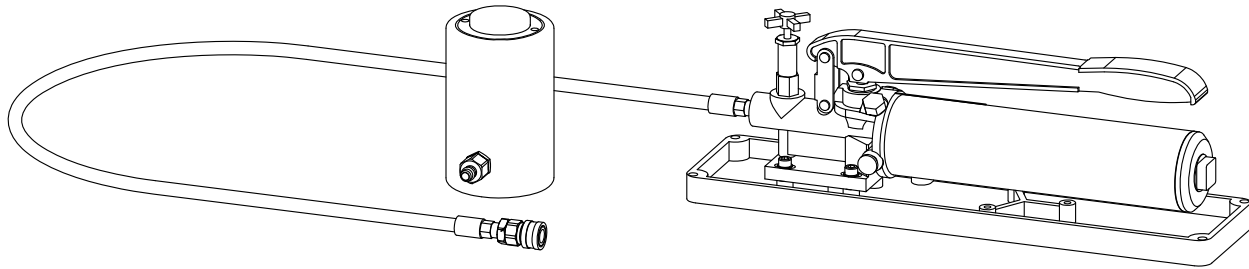
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MOREHOUSE HYDRAULIC JACK



ITEM NO.	PART NO.	DWG. NO.	QUANTITY	DESCRIPTION
1	138001	138001	1	CYLINDER
2	138002	138002	1	RAM
3	138003	138003	1	CYLINDER GLAND
4	138004	138004	1	RAM SLEEVE
5	138005		1	HEX NUT
6	138006		1	DIE SPRING
7	138007		1	LUBRICATOR / WIPER
8	138008		1	T-RING PACKING
9	138009		1	O-RING SEAL
10	138010		1	RETAINING RING
11	138011	138007	1	TIE ROD
12	138012	137012	1	AIR BLEED PLUG
13	138013		1	RETAINING RING
14	138014		1	O-RING SEAL
15	138015		1	HYDRAULIC COUPLING
16	138016		4	MOUNTING SCREWS (NOT SHOWN)
17	138017		1	BELLEVILLE WASHER

THE MOREHOUSE HYDRAULIC JACK IS SPECIALLY DESIGNED AND MANUFACTURED TO HAVE THE LOWEST POSSIBLE LEAK RATE FOR GENERATING FORCES WHEN CALIBRATING LOAD CELL SYSTEMS AND OTHER TYPES OF LOAD MEASURING SYSTEMS. IN OPERATION, THE FORCE GENERATED BY THE JACK IS PASSED THROUGH A PROVING RING, OR OTHER TYPE OF FORCE CALIBRATOR, TO THE LOAD MEASURING SYSTEM TO BE CALIBRATED. IT IS THE SAME JACK USED IN THE MOREHOUSE UNIVERSAL CALIBRATING MACHINE NOW IN USE IN HUNDREDS OF GOVERNMENT AND INDUSTRIAL STANDARDS LABORATORIES.

THE PUMP OF THE JACK IS A PRECISION LABORATORY DEAD WEIGHT TYPE TESTER PUMP CONTAINING A DUAL VOLUME PISTON. THE PUMP DELIVERS A LARGE VOLUME OF HYDRAULIC FLUID PER STROKE TO RAPIDLY ADVANCE THE PISTON OF THE RAM UNTIL HIGHER PRESSURES ARE ENCOUNTERED AND PUMPING BECOMES DIFFICULT. AT THIS POINT, A VALVE ROD CAN BE PUSHED IN AND THE PUMP WILL DELIVER A SMALLER VOLUME OF FLUID PER STROKE, THUS MAKING PUMPING EASIER. IN ADDITION, THE PUMP HAS A VERNIER SCREW PISTON FOR APPLICATION OF FORCES IN EXTREMELY MINUTE INCREMENTS. THE SCREW PISTON ALSO PERMITS THE MAINTENANCE OF THE FORCE OVER A RELATIVELY LONG PERIOD OF TIME BY SLOWLY TURNING IT TO OFFSET CREEP OF THE ENTIRE SYSTEM.

THE CYLINDER OF THE RAM IS CAREFULLY GROUND AND HONED, AND THEN HARD CHROME PLATED. THE HARD CHROME PLATING PROTECTS THE CYLINDER WALLS FROM UNDUE WEAR AND CORROSION THAT WOULD ULTIMATELY CAUSE EXCESS LEAK RATES. LOW FRICTION PACKING IS USED THROUGHOUT THE JACK TO INSURE A SMOOTH ADVANCE OF THE PISTON WHEN PRESSURE IS APPLIED.

ON JACKS HAVING CAPACITIES GREATER THAN 300,000 LBS. AND ON JACK SYSTEMS THAT INCORPORATE HYDRAULIC RAMS WHERE THE TOTAL VOLUME OF THE CYLINDERS EXCEEDS THE RESERVOIR VOLUME OF THE STANDARD PUMP, A SPECIAL PUMP HAVING THE SAME FEATURES OF THE STANDARD PUMP BUT A LARGER RESERVOIR VOLUME IS SUPPLIED.

STANDARD JACKS FOR EITHER COMPRESSION LOADING OR TENSION LOADING IS AVAILABLE IN A "PACKAGE" CONSISTING OF A HYDRAULIC RAM, A PUMP, AND 5' OF HYDRAULIC HOSE WITH QUICK DISCONNECT COUPLINGS AT THE RAM END.

THE "PACKAGE" JACKS HAVE PROVEN SATISFACTORY FOR MANY SINGLE CALIBRATION SET-UPS; HOWEVER, BECAUSE OF GREAT VARIATIONS IN SOME SINGLE AND MANY MULTIPLE CALIBRATION SET-UPS, THE JACKS CAN BE ASSEMBLED ON A COMPONENT BASIS TO MEET INDIVIDUAL REQUIREMENTS. THE FOLLOWING OUTLINE DRAWINGS SHOW TYPICAL SCHEMATICS.

QUITE OFTEN A PRESSURE GAUGE TO DETERMINE WHEN A SPECIFIC LOAD IS BEING APPROACHED IS DESIRABLE. SUCH A GAUGE CALIBRATED TO INDICATE THE APPROXIMATE LOADS CAN BE SUPPLIED AT AN EXTRA COST IF IT IS ORDERED WITH THE JACK. IF THE GAUGE IS ORDERED AFTER THE JACK HAS BEEN SHIPPED, IT CAN BE INSTALLED AND CALIBRATED BY THE USER.

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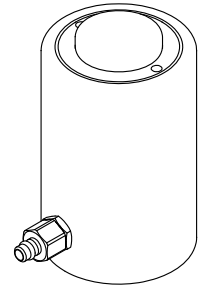
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MOREHOUSE HYDRAULIC JACK

STANDARD CAPACITIES - CHARTED



FOR A SINGLE MODEL OUTLINE, CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

A SEAL KIT IS AVAILABLE TO REPAIR ANY MODEL HYDRAULIC JACK

ALL JACKS SUPPLIED WITH A 1/4 N.P.T. QUICK-DISCONNECT COUPLING CONNECTOR

IF A DIFFERENT CONNECTOR IS REQUIRED, CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

KGF. & NEWTON CAPACITIES ARE ALSO AVAILABLE. OTHER LBF. CAPACITIES CAN BE AVAILABLE

IF YOU HAVE A SPECIAL APPLICATION FOR A HYDRAULIC JACK, CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

IF A LOWER PRESSURE HYDRAULIC JACK IS NEEDED, CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

MODEL NO.	CAPACITY (LBF.)	BODY DIA. (IN.)	TOTAL HT. (IN.)	APPROX. PRESSURE AT CAPACITY (p.s.i.)	WEIGHT (LBS.)	MOUNTING HOLES (DIM. IN INCHES)
137000	10,000	2 1/2	5 9/16	4,165	6.5	1/4-20 x 1/2 DP. (4 HOLES) 90° APART ON 1 5/8 DIA. B.C. (0° ANGLE TO COUPLING CONN.)
138000	30,000	4	6 1/2	4,250	20	1/4-20 x 1/2 DP. (4 HOLES) 90° APART ON 2 1/2 DIA. B.C. (0° ANGLE TO COUPLING CONN.)
139000	60,000	5 1/2	7 3/4	3,774	43	1/2-13 x 3/4 DP. (4 HOLES) 90° APART ON 3 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
140000	100,000	7	9	4,210	85	1/2-13 x 3/4 DP. (4 HOLES) 90° APART ON 4 1/2 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
202000	150,000	8 1/2	10 3/8	3,900	141	1/2-13 x 3/4 DP. (4 HOLES) 90° APART ON 6 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
154000	200,000	9 3/4	11	4,386	200	1/2-13 x 3/4 DP. (4 HOLES) 90° APART ON 7 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
177000	300,000	11	11 7/8	4,400	290	1/2-13 x 3/4 DP. (4 HOLES) 90° APART ON 8 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
242000	500,000	16	14 1/4	3,846	460	3/4-10 x 1 DP. (4 HOLES) 90° APART ON 10 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
257000	600,000	17	14 1/4	3,524	680	3/4-10 x 1 DP. (4 HOLES) 90° APART ON 10 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
813000	1,000,000	23	15 1/2	3,000	2,000	1-8 x 1 1/4 DP. (4 HOLES) 90° APART ON 16 DIA. B.C. (45° ANGLE TO COUPLING CONN.)
816000	2,000,000	27	15 1/2	4,200	2,000	1-8 x 1 1/4 DP. (4 HOLES) 90° APART ON 16 DIA. B.C. (45° ANGLE TO COUPLING CONN.)

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MOREHOUSE TENSION MEMBER ADAPTOR KIT

STANDARD KITS AVAILABLE - CHARTED



TENSION MEMBER SYSTEM MODEL NO. (SEE PG. 13)	TESTING MACHINE 'HOLE' OPENING (IN.)	UNIVERSAL 'TENSION' THREAD OF SYSTEM	MALE/FEMALE ADAPTOR SYSTEM TO USE (SEE PG. 11 & PG. 12)
604479.TM01 @ 12K LBF. CAP. 5/8" DIA. SHAFT	5/8" DIA. OPENING (FITS 500 LBF. 'AF' D.W.M.)	1 1/4-12 UNF-2A	MALE = 604579.Mxx FEMALE = 604579.Fxx
604479.TM02 @ 12K LBF. CAP. FOR 3/4" DIA. (USES BUSHING)	3/4" DIA. OPENING (FITS MH MODEL 'L' D.W.M.)	1 1/4-12 UNF-2A	MALE = 604579.Mxx FEMALE = 604579.Fxx
604479.TM03 @ 12K LBF. CAP. FOR 1" DIA. (USES BUSHING)	1" DIA. OPENING (FITS MH 10K LBF. U.C.M.)	1 1/4-12 UNF-2A	MALE = 604579.Mxx FEMALE = 604579.Fxx
604579 @ 50K LBF. CAP. 1" DIA. SHAFT	1" DIA. OPENING (FITS MH 30K LBF. U.C.M.)	1 1/4-12 UNF-2A	MALE = 604579.Mxx FEMALE = 604579.Fxx
604670 @ 60K LBF. CAP. 1" DIA. SHAFT	1" DIA. OPENING (FITS MH 60K LBF. U.C.M.)	1 1/2-12 UNF-2A	MALE = 604670.Mxx FEMALE = 604670.Fxx
604746 @ 120K LBF. CAP. 1 1/2" DIA. SHAFT	1 1/2" DIA. OPENING (FITS MH 120K LBF. D.W.M.)	2-12 UN-2A	MALE = 604746.Mxx FEMALE = 604746.Fxx

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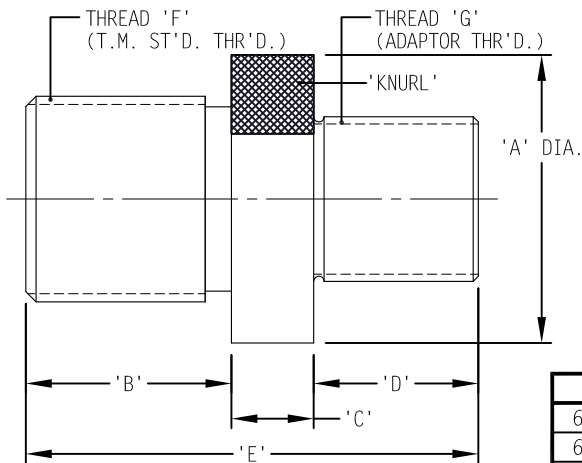
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MOREHOUSE TENSION MEMBER ADAPTOR KIT

TENSION MEMBER ADAPTORS (MALE STANDARD TO MALE) - CHARTED



ADAPTORS FOR T.M. 604579 - 50K LBF. KIT
ALL DIMENSIONS IN INCHES

ADAPTORS FOR T.M. 604670 - 60K LBF. KIT
ALL DIMENSIONS IN INCHES

ADAPTORS FOR T.M. 604746 - 120K LBF. KIT
ALL DIMENSIONS IN INCHES

IF AN ADAPTOR THREAD SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT COMPANY DIRECTLY

* - CHART 1

ALL DIMENSIONS IN INCHES

T.M. MODEL NO. (SYS.)	THREAD 'F'	'B'	'A' DIA.	'C'
604579 - 50K LBF.	1 1/4-12 UNF-2A	1 1/4	1 3/4	1/2
604670 - 60K LBF.	1 1/2-12 UNF-2A	1 1/2	1 3/4	1/2
604746 - 120K LBF.	2-12 UN-2A	1 3/4	3	1/2

PART NO.	THREAD 'G'	'D'	'E'	MAXIMUM CAPACITY
604579.M12	#8-32 UNC-2A	3/16	1 15/16	700 LBF.
604579.M13	#10-32 UNF-2A	3/16	1 15/16	1,000 LBF.
604579.M10	1/4-28 UNF-2A	1/4	2.0	2,000 LBF.
604579.M11	3/8-24 UNF-2A	3/8	2 1/8	4,500 LBF.
604579.M09	1/2-13 UNC-2A	1/2	2 1/4	7,500 LBF.
604579.M01	1/2-20 UNF-2A	1/2	2 1/4	7,500 LBF.
604579.M02	5/8-11 UNC-2A	5/8	2 3/8	10,000 LBF.
604579.M03	5/8-18 UNF-2A	5/8	2 3/8	10,000 LBF.
604579.M04	3/4-10 UNC-2A	3/4	2 1/2	15,000 LBF.
604579.M05	3/4-16 UNF-2A	3/4	2 1/2	15,000 LBF.
604579.M06	1-14 UNF-2A	1.00	2 3/4	30,000 LBF.
604579.M07	1 1/4-12 UNF-2A	1 1/4	3.0	50,000 LBF.
604579.M08	1 1/2-12 UNF-2A	1 1/2	3 1/4	75,000 LBF.

PART NO.	THREAD 'G'	'D'	'E'	MAXIMUM CAPACITY
604670.M09	3/8-24 UNF-2A	3/8	2 3/8	4,500 LBF.
604670.M10	1/2-13 UNC-2A	1/2	2 1/2	7,500 LBF.
604670.M01	1/2-20 UNF-2A	1/2	2 1/2	7,500 LBF.
604670.M02	5/8-11 UNC-2A	5/8	2 5/8	10,000 LBF.
604670.M03	5/8-18 UNF-2A	5/8	2 5/8	10,000 LBF.
604670.M04	3/4-10 UNC-2A	3/4	2 3/4	15,000 LBF.
604670.M05	3/4-16 UNF-2A	3/4	2 3/4	15,000 LBF.
604670.M06	1-14 UNF-2A	1.00	3.0	30,000 LBF.
604670.M07	1 1/4-12 UNF-2A	1 1/4	3 1/4	50,000 LBF.
604670.M08	1 1/2-12 UNF-2A	1 1/2	3 1/2	75,000 LBF.

PART NO.	THREAD 'G'	'D'	'E'	MAXIMUM CAPACITY
604746.M11	1/2-13 UNC-2A	1/2	2 3/4	8,000 LBF.
604746.M08	1/2-20 UNF-2A	1/2	2 3/4	8,000 LBF.
604746.M09	5/8-11 UNC-2A	5/8	2 7/8	12,000 LBF.
604746.M07	5/8-18 UNF-2A	5/8	2 7/8	12,000 LBF.
604746.M10	3/4-10 UNC-2A	3/4	3.0	19,000 LBF.
604746.M06	3/4-16 UNF-2A	3/4	3.0	19,000 LBF.
604746.M01	1-14 UNF-2A	1.00	3 1/4	35,000 LBF.
604746.M02	1 1/4-12 UNF-2A	1.00	3 1/4	56,000 LBF.
604746.M03	1 1/2-12 UNF-2A	1 1/4	3 1/2	82,000 LBF.
604746.M04	1 3/4-12 UN-2A	1 1/2	3 3/4	112,000 LBF.
604746.M05	2-12 UN-2A	1 3/4	4.0	120,000 LBF.

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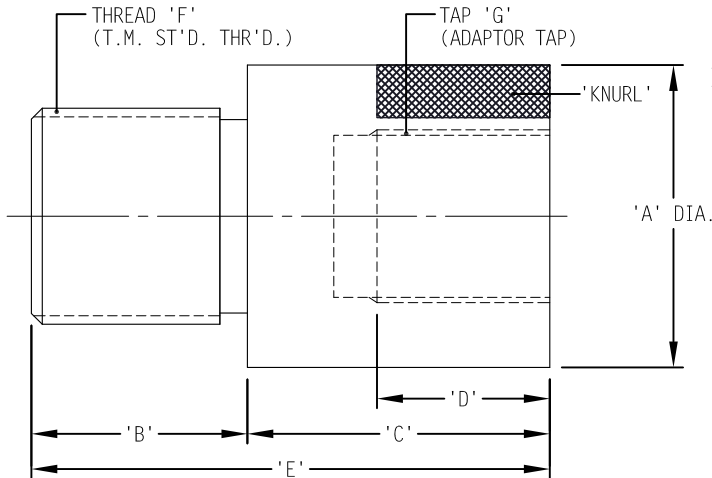
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MOREHOUSE TENSION MEMBER ADAPTOR KIT

TENSION MEMBER ADAPTORS (MALE STANDARD TO FEMALE) - CHARTED



IF AN ADAPTOR THREAD SIZE REQUIRED IS NOT SHOWN CONTACT MOREHOUSE INSTRUMENT COMPANY DIRECTLY

* - CHART 1 ALL DIMENSIONS IN INCHES

T.M. MODEL NO. (SYS.)	THREAD 'F'	'B'
604579 - 50K LBF.	1 1/4-12 UNF-2A	1 1/4
604670 - 60K LBF.	1 1/2-12 UNF-2A	1 1/2
604746 - 120K LBF.	2-12 UN-2A	1 3/4

ADAPTORS FOR T.M. 604579 - 50K LBF. KIT
ALL DIMENSIONS IN INCHES

PART NO.	TAP 'G'	'D'	'A' DIA.	'C'	'E'	MAXIMUM CAPACITY
604579.F07	#8-32 UNC-2B	1/4	1 3/4	1 1/2	2 3/4	700 LBF.
604579.F08	#10-32 UNF-2B	1/4	1 3/4	1 1/2	2 3/4	1,000 LBF.
604579.F09	1/4-28 UNF-2B	3/8	1 3/4	1 1/2	2 3/4	2,000 LBF.
604579.F10	3/8-24 UNF-2B	1/2	1 3/4	1 1/2	2 3/4	4,500 LBF.
604579.F11	1/2-13 UNC-2B	5/8	1 3/4	1 1/2	2 3/4	7,500 LBF.
604579.F01	1/2-20 UNF-2B	5/8	1 3/4	1 1/2	2 3/4	7,500 LBF.
604579.F02	5/8-11 UNC-2B	3/4	1 3/4	1 1/2	2 3/4	10,000 LBF.
604579.F03	5/8-18 UNF-2B	3/4	1 3/4	1 1/2	2 3/4	10,000 LBF.
604579.F04	3/4-10 UNC-2B	7/8	1 3/4	1 1/2	2 3/4	15,000 LBF.
604579.F05	3/4-16 UNF-2B	7/8	1 3/4	1 1/2	2 3/4	15,000 LBF.
604579.F06	1-14 UNF-2B	1.00	1 3/4	1 3/4	3.0	30,000 LBF.
604579.F12	1 1/4-12 UNF-2B	1 3/8	1 3/4	1 3/4	3.0	50,000 LBF.
604579.F13	1 1/2-12 UNF-2B	1 9/16	1 3/4	1 3/4	3.0	75,000 LBF.

ADAPTORS FOR T.M. 604670 - 60K LBF. KIT
ALL DIMENSIONS IN INCHES

PART NO.	TAP 'G'	'D'	'A' DIA.	'C'	'E'	MAXIMUM CAPACITY
604670.F09	3/8-24 UNF-2B	1/2	1 3/4	1 1/2	3.0	4,500 LBF.
604670.F10	1/2-13 UNC-2B	5/8	1 3/4	1 1/2	3.0	7,500 LBF.
604670.F01	1/2-20 UNF-2B	5/8	1 3/4	1 1/2	3.0	7,500 LBF.
604670.F02	5/8-11 UNC-2B	3/4	1 3/4	1 1/2	3.0	10,000 LBF.
604670.F03	5/8-18 UNF-2B	3/4	1 3/4	1 1/2	3.0	10,000 LBF.
604670.F04	3/4-10 UNC-2B	7/8	1 3/4	1 1/2	3.0	15,000 LBF.
604670.F05	3/4-16 UNF-2B	7/8	1 3/4	1 1/2	3.0	15,000 LBF.
604670.F06	1-14 UNF-2B	1.00	1 3/4	1 3/4	3 1/4	30,000 LBF.
604670.F07	1 1/4-12 UNF-2B	1 1/4	1 3/4	1 3/4	3 1/4	50,000 LBF.
604670.F08	1 1/2-12 UNF-2B	1 1/2	2.0	1 3/4	3 1/4	75,000 LBF.

ADAPTORS FOR T.M. 604746 - 120K LBF. KIT
ALL DIMENSIONS IN INCHES

PART NO.	TAP 'G'	'D'	'A' DIA.	'C'	'E'	MAXIMUM CAPACITY
604746.F11	1/2-13 UNC-2B	5/8	3.0	2 1/4	4.0	8,000 LBF.
604746.F08	1/2-20 UNF-2B	5/8	3.0	2 1/4	4.0	8,000 LBF.
604746.F09	5/8-11 UNC-2B	3/4	3.0	2 1/4	4.0	12,000 LBF.
604746.F07	5/8-18 UNF-2B	3/4	3.0	2 1/4	4.0	12,000 LBF.
604746.F10	3/4-10 UNC-2B	7/8	3.0	2 1/4	4.0	19,000 LBF.
604746.F06	3/4-16 UNF-2B	7/8	3.0	2 1/4	4.0	19,000 LBF.
604746.F01	1-14 UNF-2B	1.00	3.0	2 1/4	4.0	35,000 LBF.
604746.F02	1 1/4-12 UNF-2B	1.00	3.0	2 1/4	4.0	56,000 LBF.
604746.F03	1 1/2-12 UNF-2B	1 1/4	3.0	2 1/4	4.0	82,000 LBF.
604746.F04	1 3/4-12 UN-2B	1 1/2	3.0	2 1/4	4.0	112,000 LBF.
604746.F05	2-12 UN-2B	1 3/4	3.0	2 1/4	4.0	120,000 LBF.

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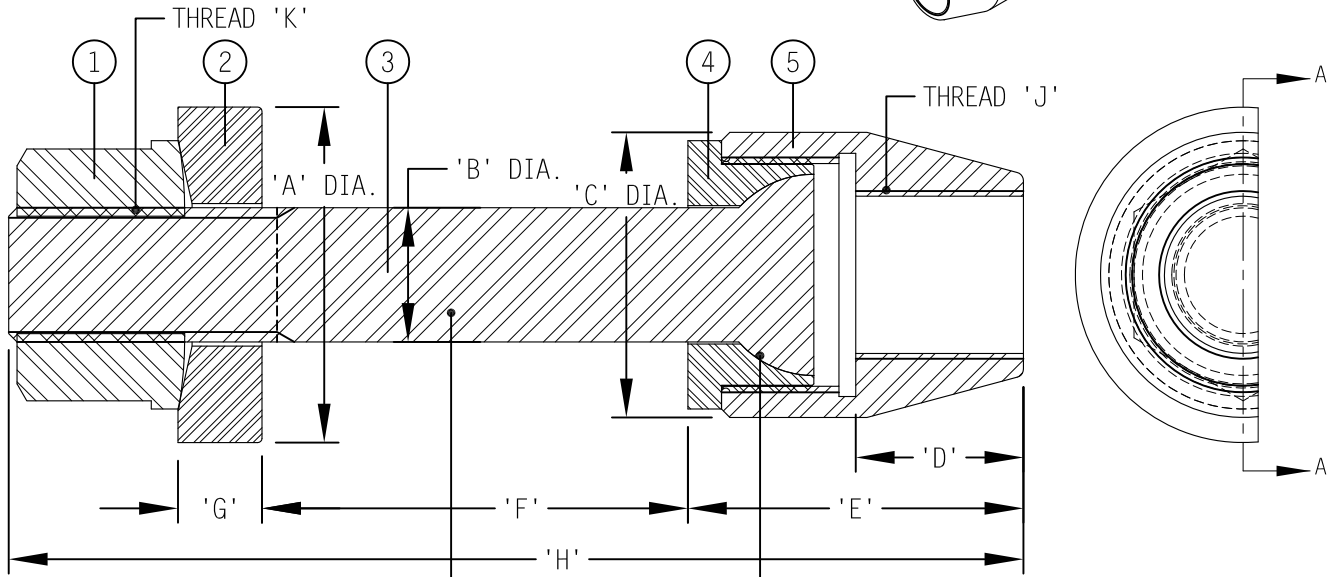
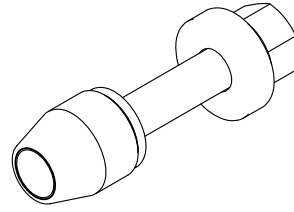
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MOREHOUSE TENSION MEMBER ADAPTOR KIT

TENSION MEMBER SIZE - CHARTED

ITEM NO.	DESCRIPTION
1	SPHERICAL FLANGE NUT
2	SPHERICAL ALIGNMENT BUSHING
3	TENSION ROD w/ SPHERICAL RADIUS
4	RETAINING RING
5	COUPLING NUT



OTHER TENSION ROD LENGTHS ARE AVAILABLE - CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

NOTE SPHERICAL RADIUS ON TENSION ROD TO PROVIDE BETTER ALIGNMENT DURING A CALIBRATION SEE PAGE 51 FOR SET-UP EXAMPLE

TENSION MEMBER #604479.TM01 FOR 12,000 LBF. SYSTEMS ALL DIMENSIONS IN INCHES

'A' DIA.	'B' DIA.	'C' DIA.	'D'	'E'	'F'	'G'	'H'	THR'D. 'J'	THR'D. 'K'	USE ADAPTORS
1 3/8	5/8	1 1/2	3/4	1 3/4	2.24	3/8	5	1 1/4-12 UNF-2A	5/8-11 UNC-2A	604579.Xxx

NOTE 1: #604479.TMxx DOES NOT USE ITEM 4 THE RETAINING RING W/ THE COUPLING NUT
 NOTE 2: #604479.TM02 REPLACES ITEM 2 W/ A 3/4" DIA. ALIGNMENT BUSHING FOR 3/4" DIA. OPENINGS
 NOTE 3: #604479.TM03 REPLACES ITEM 2 W/ A 1" DIA. ALIGNMENT BUSHING FOR 1" DIA. OPENINGS

TENSION MEMBER #604579 FOR 50,000 LBF. SYSTEMS ALL DIMENSIONS IN INCHES

'A' DIA.	'B' DIA.	'C' DIA.	'D'	'E'	'F'	'G'	'H'	THR'D. 'J'	THR'D. 'K'	USE ADAPTORS
2 1/2	1.00	2 1/8	1 1/4	2 1/2	3.18	5/8	7 9/16	1 1/4-12 UNF-2A	1-8 UNC-2A	604579.Xxx

TENSION MEMBER #604670 FOR 60,000 LBF. SYSTEMS ALL DIMENSIONS IN INCHES

'A' DIA.	'B' DIA.	'C' DIA.	'D'	'E'	'F'	'G'	'H'	THR'D. 'J'	THR'D. 'K'	USE ADAPTORS
2 1/4	1.00	2 3/8	1 1/4	2 1/2	3.30	1/2	7 9/16	1 1/2-12 UNF-2A	1-8 UNC-2A	604670.Xxx

TENSION MEMBER #604746 FOR 120,000 LBF. SYSTEMS ALL DIMENSIONS IN INCHES

'A' DIA.	'B' DIA.	'C' DIA.	'D'	'E'	'F'	'G'	'H'	THR'D. 'J'	THR'D. 'K'	USE ADAPTORS
3	1 1/2	3 1/2	1 3/4	3 1/2	4.43	5/8	10.0	2-12 UN-2A	1 1/2-6 UNC-2A	604746.Xxx

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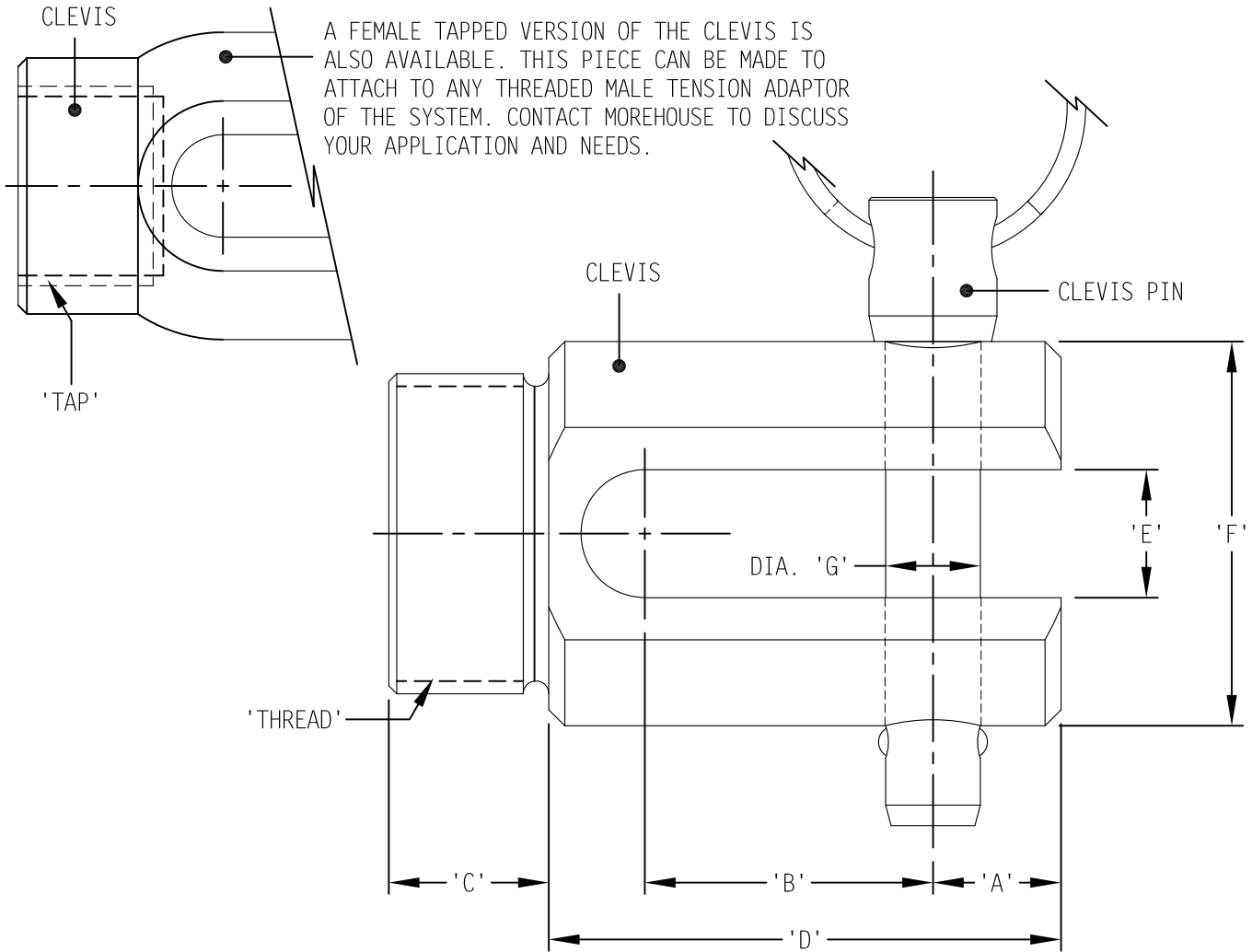
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MOREHOUSE TENSION MEMBER ADAPTOR KIT

TENSION MEMBER ADAPTORS (CLEVIS ASSEMBLY TYPE WITH MALE THREAD) - CHARTED

MOREHOUSE CLEVIS ASSEMBLY TO BE USED WITH THE MOREHOUSE TENSION MEMBER ADAPTOR KIT (SEE PAGES 10, 11, 12, & 13). THE MALE THREAD OF THE CLEVIS IS DESIGNED TO ATTACH TO THE 'UNIVERSAL' THREAD OF THE TENSION MEMBER. THE PART NUMBERS SHOWN BELOW ARE TO BE USED WITH TENSION MEMBER #604579 AS SHOWN ON PAGE 13. THE PARTS WILL ALSO WORK WITH TENSION MEMBER #604479; ALL INVOLVING A THREAD OF 1 1/4-12 UNF-2A. FOR CLEVIS ASSEMBLY PARTS TO BE USED WITH THE OTHER TENSION MEMBERS OF THE SYSTEM PLEASE CONTACT MOREHOUSE INSTRUMENT COMPANY TO DISCUSS YOUR APPLICATION AND SIZE REQUIREMENTS.



ALL DIMENSIONS ARE IN INCHES

PART NO.	'THREAD'	'A'	'B'	'C'	'D'	'E'	'F'	DIA. 'G'	MAX. CAPACITY
604480.01	1 1/4-12 UNF-2A	1/2	1 1/8	5/8	2	1/2	1 1/2 DIA.	3/8	3,000 LBF.
604480.02	1 1/4-12 UNF-2A	1/2	1 3/8	5/8	2 1/4	5/8	1 1/4 DIA.	1/2	5,000 LBF.
604480.03	1 1/4-12 UNF-2A	1/2	1	5/8	2	3/8	1 DIA.	1/4	1,000 LBF.

IF A CLEVIS ASSEMBLY CONFIGURATION IS NOT SHOWN TO FIT YOUR APPLICATION. PLEASE CONTACT MOREHOUSE INSTRUMENT COMPANY DIRECTLY TO DISCUSS YOUR NEEDS AND RECEIVE A QUOTE.

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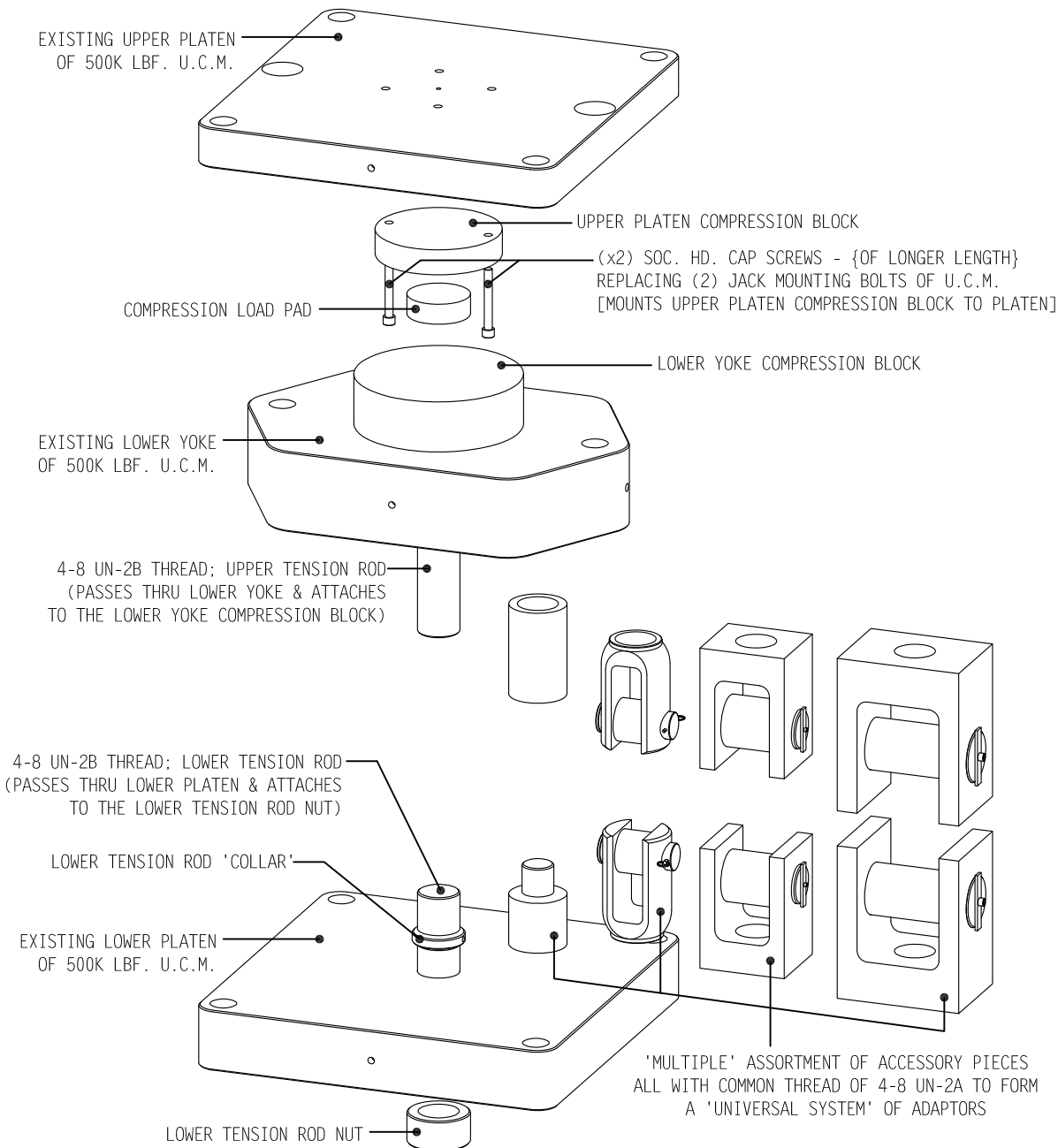
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MOREHOUSE U.C.M. COMPRESSION / TENSION ADAPTOR KITS

MODEL #991276 FOR 500,000 LBF. U.C.M. IS SHOWN

THIS TYPE OF ADAPTOR KIT CAN BE DESIGNED AND MANUFACTURED TO FIT ANY SIZE MOREHOUSE UNIVERSAL CALIBRATING MACHINE.

CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY WITH YOUR DESIGN NEEDS TO FABRICATE A SYSTEM AND RECEIVE A SALES QUOTE.



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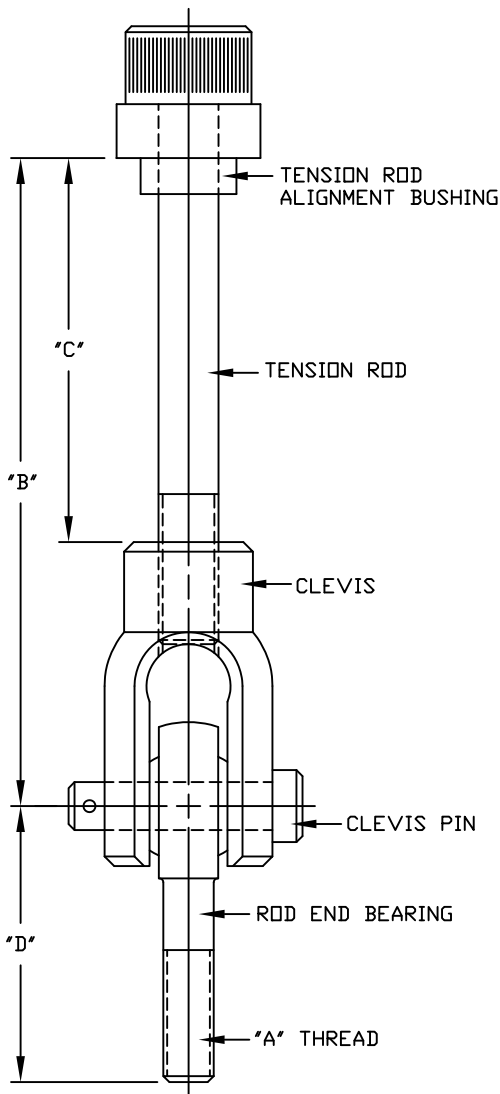
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TENSION MEMBER ASSEMBLIES FOR LOAD CELLS WITH INTERNAL THREADS

*TENSION MEMBER ASSEMBLIES
ARE SOLD AND USED IN PAIRS*



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
1/4-28	4 5/16	2 1/2	1 9/16	1,000 LBF.	604458
3/8-24	4 5/16	2 3/16	1 15/16	3,000 LBF.	604401
1/2-20	4 7/16	2 1/2	2 7/16	10,000 LBF.	604417
5/8-18	4 5/8	2 3/8	2 5/8	10,000 LBF.	604418
3/4-16	4 5/8	2 3/8	2 7/8	10,000 LBF.	604419
30,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
1/4-28	4 5/16	2 1/2	1 9/16	1,000 LBF.	604551
3/8-24	4 5/16	2 3/16	1 15/16	3,000 LBF.	604501
1/2-20	4 1/2	2 1/8	2 7/16	5,000 LBF.	604502
5/8-18	7 1/16	4 13/16	2 5/8	12,500 LBF.	604567
3/4-16	5 1/4	2 1/4	2 7/8	12,500 LBF.	604518
1 1/4-12	10 3/4	6 1/4	4 1/8	35,000 LBF.	604516
60,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
1/4-28	6 13/16	5	1 9/16	1,000 LBF.	604658
3/8-24	7	4 3/4	1 15/16	3,000 LBF.	604601
1/2-20	7	4 5/8	2 7/16	5,000 LBF.	604602
5/8-18	7 1/16	4 13/16	2 5/8	12,500 LBF.	604659
3/4-16	6 5/8	4 3/8	2 7/8	10,000 LBF.	604619
1-14	8	4 3/4	4 1/8	25,000 LBF.	604629
1 1/4-12	8	4 3/4	4 1/8	35,000 LBF.	604631
M8 x 1.25	4 13/16	3	1 3/8	1,800 LBF.	604615
M12 x 1.75	4 13/16	3	1 15/16	3,600 LBF.	604616
100,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
5/16-18	7	4 3/4	1 15/16	1,500 LBF.	604750
3/8-24	7	4 7/8	1 15/16	3,000 LBF.	604701
7/16-20	7	5 1/16	2 1/8	5,000 LBF.	604749
1/2-20	13	10 5/8	2 7/16	5,000 LBF.	604743
5/8-18	8 1/4	6	2 5/8	7,500 LBF.	604779
3/4-16	6 5/8	4 3/8	2 7/8	10,000 LBF.	604719
1-14	8	4 3/4	4 1/8	30,000 LBF.	604782
1 1/4-12	8	4 3/4	4 1/8	30,000 LBF.	604777
150,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	7	4 3/4	1 15/16	3,000 LBF.	604801
1/2-20	7	4 5/8	2 7/16	5,000 LBF.	604802
5/8-18	12 5/16	10 1/16	2 1/2	10,000 LBF.	604895
3/4-16	6 3/8	4 1/8	2 7/8	10,000 LBF.	604819
1 1/4-12	8	4 3/4	4 1/8	30,000 LBF.	604831
200,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	7	4 3/4	1 15/16	3,000 LBF.	615301
1/2-20	7	4 5/8	2 7/16	5,000 LBF.	615302
3/4-16	8 3/8	6 1/8	2 7/8	10,000 LBF.	615319

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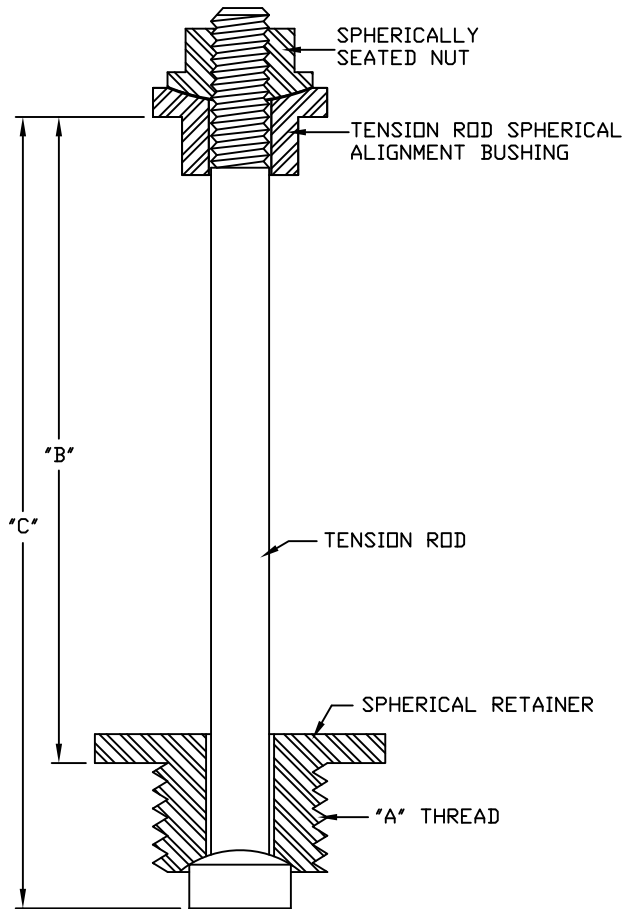
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TENSION MEMBER ASSEMBLIES FOR LOAD CELLS WITH INTERNAL THREADS

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



NOTE: SMALLER CAPACITY TENSION MEMBER'S MAY HAVE A 'FLAT' FACE ON THE NUT AND THE ALIGNMENT BUSHING (i.e. 'NO SPHERICAL')

IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

60,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	6 1/4	7 1/4	10,000 LBF.	604603
1 1/2-12	5 3/4	6 7/8	30,000 LBF.	604604
1 3/4-12	7 1/2	9	60,000 LBF.	604605
2-12	5 1/2	7	60,000 LBF.	604606
M48 x 3	5 3/4	6 7/8	50,000 LBF.	604611

100,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	6 1/4	7	10,000 LBF.	604703
1-14	12 1/4	13 1/8	10,000 LBF.	604740
1 1/2-12	5 3/4	6 7/8	30,000 LBF.	604704
1 3/4-12	5 3/4	7 1/4	60,000 LBF.	604705
2-12	5 1/2	7	60,000 LBF.	604706
2-12	11 1/2	12 7/8	60,000 LBF.	604781
3-8	6 1/4	8 1/4	100,000 LBF.	604707
3 1/2-12	5 1/2	8 1/8	100,000 LBF.	604759
M24 x 2	4 1/4	5 3/8	13,000 LBF.	604747
M52 x 3	3 3/4	5 1/4	50,000 LBF.	604748

150,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	6 1/4	7 1/8	10,000 LBF.	604803
1 1/2-12	5 3/4	6 3/4	30,000 LBF.	604804
1 3/4-12	5 1/2	7	60,000 LBF.	604805
2-12	5 1/2	7	60,000 LBF.	604806
3-8	6 1/4	8 3/8	100,000 LBF.	604807

10,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	4 1/2	5 1/8	10,000 LBF.	604403
1 1/2-12	2 3/4	3 3/4	30,000 LBF.	604410

30,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
7/8-12	6 1/2	7 5/8	2,500 LBF.	604554
1-14	4 1/2	5 1/8	10,000 LBF.	604503
1 1/4-12	3 1/4	4 3/4	25,000 LBF.	604533
1 1/2-12	2 3/4	3 3/4	30,000 LBF.	604504
M24 x 2	4 1/4	5 1/2	13,000 LBF.	604532
M30 x 2	3 3/4	4 7/8	10,000 LBF.	604512

200,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	5 3/4	6 5/8	10,000 LBF.	615303
1 1/2-12	5 3/4	6 3/4	30,000 LBF.	615304
1 3/4-12	5 1/2	7	60,000 LBF.	615305
2-12	5 1/2	7	60,000 LBF.	615306
3-8	6 1/4	8 3/8	100,000 LBF.	615307
M52 x 3	5 3/4	7 1/4	50,000 LBF.	615342

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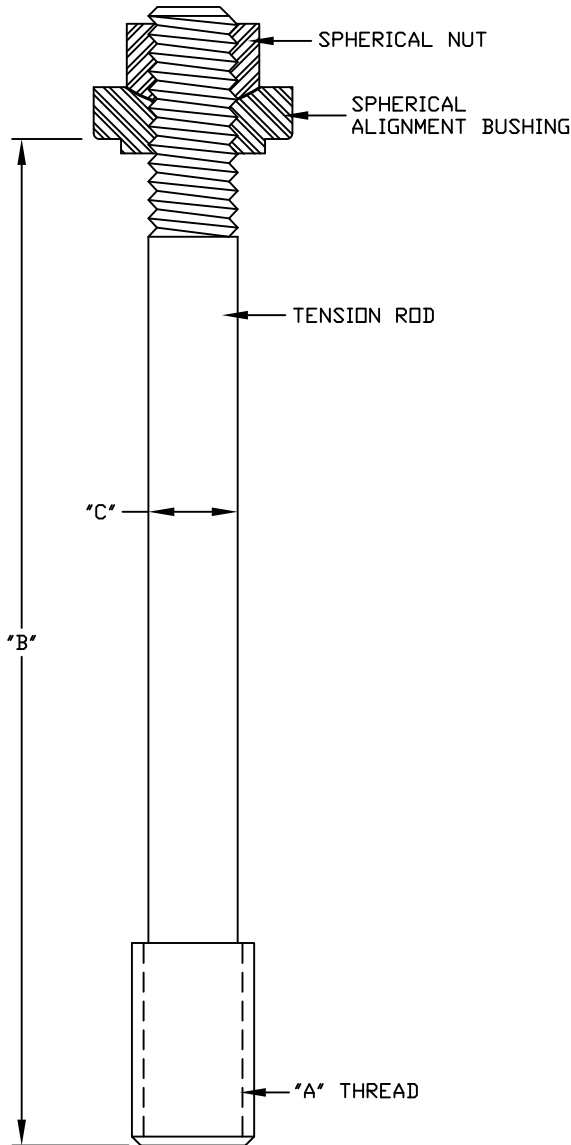
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TENSION MEMBER ASSEMBLIES FOR LOAD CELLS WITH INTERNAL THREADS

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS

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30,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-12	3 1/2	1	30,000 LBF.	604544
1-14	7 5/8	1	50,000 LBF.	604552
M8 x 1.25	4	3/8	4,000 LBF.	604572
M18 x 1.5	5 9/16	3/4	16,000 LBF.	604573

60,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1 1/4-12	7 1/2	1 1/8	50,000 LBF.	604618
1 1/2-12	7 1/4	1	60,000 LBF.	604660
1 3/4-12	7 1/4	1	60,000 LBF.	604655
M16 x 2	5	1/2	11,000 LBF.	604617

100,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	7	1	50,000 LBF.	604736
1 1/4-12	7 1/4	1 1/2	60,000 LBF.	604729
1 1/2-12	9	1 1/2	75,000 LBF.	604741
1 1/2-12	14 1/4	1 1/2	100,000 LBF.	604791
1 3/4-12	7 1/2	1 1/2	100,000 LBF.	604718
1 7/8-12	7	1 1/2	110,000 LBF.	604739
2-12	9	1 1/2	100,000 LBF.	604742
2 1/2-12	8 1/4	1 1/2	100,000 LBF.	604797

150,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
2-12	12 3/4	1 3/4	125,000 LBF.	604818
2 3/4-8	21 3/4	2	100,000 LBF.	604817

200,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1 1/4-12	9	1 1/2	60,000 LBF.	615350
1 3/4-8	9 3/4	1 3/4	65,000 LBF.	615346
1 3/4-12	7	1 1/2	100,000 LBF.	615341
2-12	10	1 1/2	100,000 LBF.	615347
M72 x 3	9	2 1/4	225,000 LBF.	615334

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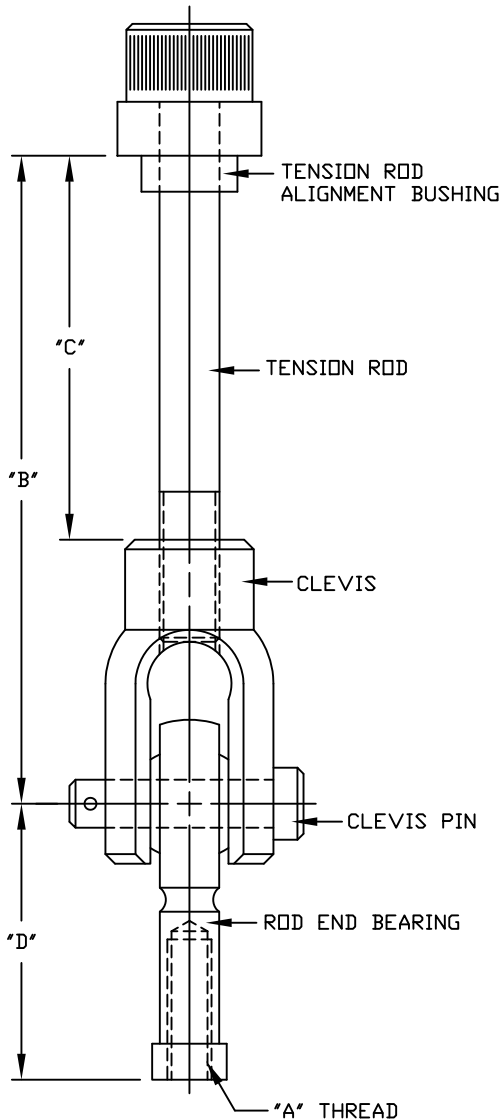
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TENSION MEMBER ASSEMBLIES FOR LOAD CELLS WITH EXTERNAL THREADS

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



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10,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
#10-32	6 7/8	5	1 1/16	1,000 LBF.	604455
3/8-24	4 5/16	2 3/16	1 5/8	3,000 LBF.	604426
1/2-20	4 3/8	2	2 1/8	4,000 LBF.	604425
5/8-18	4 9/16	2 5/16	2 1/2	10,000 LBF.	604457
30,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
1/4-28	4 5/16	2 1/2	1 5/16	1,000 LBF.	604563
3/8-24	4 5/16	2 3/16	1 5/8	3,000 LBF.	604526
1/2-20	4 3/8	2	2 1/8	4,000 LBF.	604525
5/8-18	4 5/8	2 3/8	2 1/2	10,000 LBF.	604546
60,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	7	4 7/8	1 5/8	3,000 LBF.	604626
1/2-20	7	4 5/8	2 1/8	4,000 LBF.	604625
100,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	7	4 7/8	1 5/8	3,000 LBF.	604726
1/2-20	7	4 3/4	2 1/8	4,000 LBF.	604725
5/8-18	8 5/16	6 1/16	2 1/2	10,000 LBF.	604778
3/4-16	7 3/4	4 3/4	2 7/8	10,000 LBF.	604734
1-14	8	4 3/4	4 1/8	30,000 LBF.	604783
150,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	7	4 7/8	1 5/8	3,000 LBF.	604826
1/2-20	7	4 3/4	2 1/8	4,000 LBF.	604825
5/8-18	12 1/4	10	2 1/2	10,000 LBF.	604894
3/4-16	7 3/4	4 3/4	2 7/8	10,000 LBF.	604834
200,000 LBF. UNIVERSAL CALIBRATING MACHINE					
'A' THREAD	'B'	'C'	'D'	CAPACITY	CATALOG NO.
3/8-24	9	6 7/8	1 5/8	3,000 LBF.	615326
1/2-20	9	6 3/4	2 1/8	4,000 LBF.	615325

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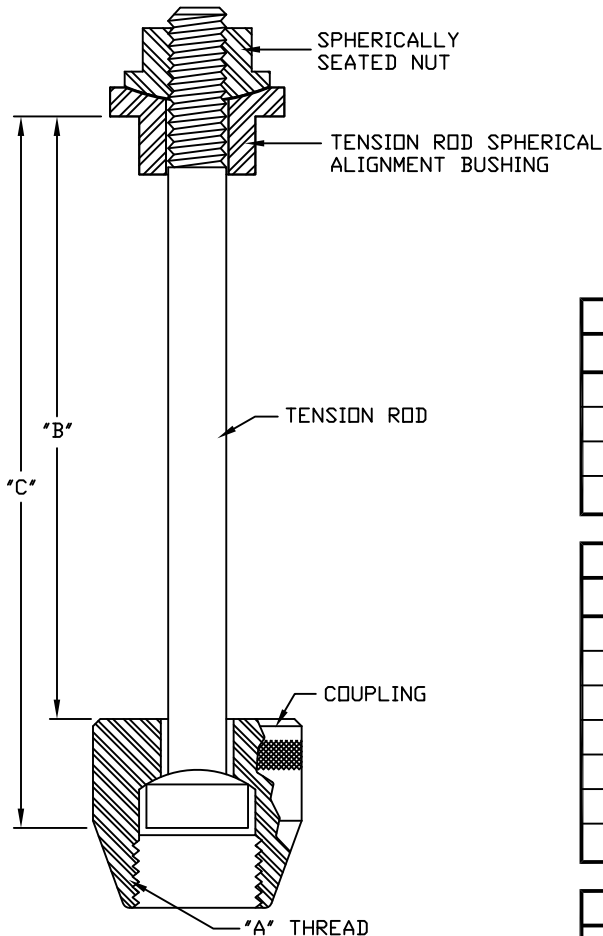
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10,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
5/8-18	3 3/4	4 1/2	3,000 LBF.	604404
3/4-16	3 9/16	4 5/16	5,000 LBF.	604405
1-14	3 1/8	3 7/8	10,000 LBF.	604406

30,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
5/8-18	3 3/4	4 1/2	3,000 LBF.	604505
3/4-16	3 9/16	4 5/16	5,000 LBF.	604506
1-14	3 1/8	3 7/8	10,000 LBF.	604507
1 1/2-12	2 1/2	4	50,000 LBF.	604555

60,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
5/8-18	6 3/4	7 1/2	3,000 LBF.	604607
3/4-16	6 9/16	7 5/16	5,000 LBF.	604608
1-14	6 1/8	6 7/8	10,000 LBF.	604609
1 1/2-12	5 3/8	6 1/8	50,000 LBF.	604610

100,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
5/8-18	6 3/4	7 1/2	3,000 LBF.	604708
3/4-16	6 9/16	7 5/16	5,000 LBF.	604709
1-14	6 1/8	6 7/8	10,000 LBF.	604710
1 1/2-12	5 1/2	6 1/4	50,000 LBF.	604711
2-12	5 1/4	8 7/8	100,000 LBF.	604746
2 1/4-12	6 1/2	7 1/4	100,000 LBF.	604712
2 1/2-12	4 3/8	5 1/8	100,000 LBF.	604796

150,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	6 1/8	6 7/8	10,000 LBF.	604808
1 1/2-12	5 1/2	6 1/4	50,000 LBF.	604809
2 1/4-12	6 5/8	7 3/8	100,000 LBF.	604810
3 1/4-8	5 5/8	6 3/8	150,000 LBF.	604811
3 1/2-8	5 5/8	6 3/8	150,000 LBF.	604812

200,000 LBF. UNIVERSAL CALIBRATING MACHINE				
"A" THREAD	"B"	"C"	CAPACITY	CATALOG NO.
1-14	6 1/8	6 7/8	10,000 LBF.	615309
1 1/4-12	6	6 3/4	15,000 LBF.	615308
1 1/2-12	5 1/2	6 1/4	50,000 LBF.	615310
2-12	5 1/4	7 1/4	100,000 LBF.	615348
2 1/4-12	6 5/8	7 3/8	100,000 LBF.	615311
2 1/2-12	6 3/8	7 1/8	100,000 LBF.	615318
3 1/4-8	5 5/8	6 3/8	150,000 LBF.	615312
3 1/2-8	5 5/8	6 3/8	150,000 LBF.	615313

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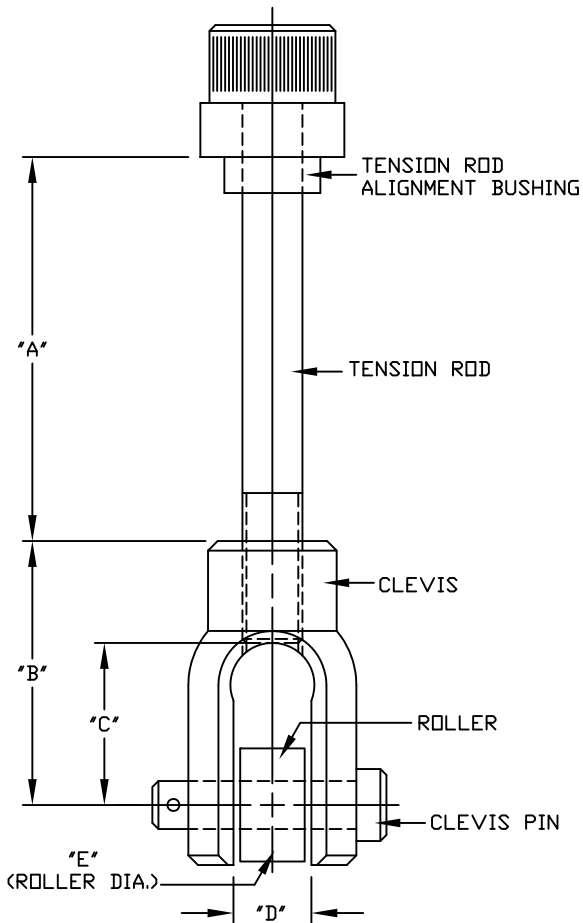
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CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR TRACTION DYNAMOMETERS SUCH AS THOSE MANUFACTURED BY DILLON AND CHATILLON

[THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED
TO THE FORGED SHACKLES SUPPLIED WITH THE DYNAMOMETER]

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



NOTE:
THE ROLLER PROTECTS THE PIN FROM BEING
DAMAGED FROM THE ROUGH EDGES OF THE
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60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
"A"	"B"	"C"	"D"	"E"	CAPACITY	CATALOG NO.
4 3/4	2 1/4	1 1/2	1	15/16	5,000 LBF.	604612
4 3/4	3	2 3/16	1	15/16	20,000 LBF.	604613
4 1/4	4 1/2	3 15/32	1 5/8	1 1/2	50,000 LBF.	604614
100,000 LBF. UNIVERSAL CALIBRATING MACHINE						
"A"	"B"	"C"	"D"	"E"	CAPACITY	CATALOG NO.
4 3/4	2 1/4	1 1/2	1	15/16	5,000 LBF.	604713
4 3/4	3	2 3/16	1	15/16	20,000 LBF.	604714
4 1/4	4 1/2	3 15/32	1 5/8	1 1/2	50,000 LBF.	604715
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
"A"	"B"	"C"	"D"	"E"	CAPACITY	CATALOG NO.
4 1/2	2 1/4	1 1/2	1	15/16	5,000 LBF.	604813
4 1/2	3	2 3/16	1	15/16	20,000 LBF.	604814
4	4 1/2	3 15/32	1 5/8	1 1/2	50,000 LBF.	604815
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
"A"	"B"	"C"	"D"	"E"	CAPACITY	CATALOG NO.
4 1/2	2 1/4	1 1/2	1	15/16	5,000 LBF.	615314
4 1/2	3	2 3/16	1	15/16	20,000 LBF.	615315
4	4 1/2	3 15/32	1 5/8	1 1/2	50,000 LBF.	615316

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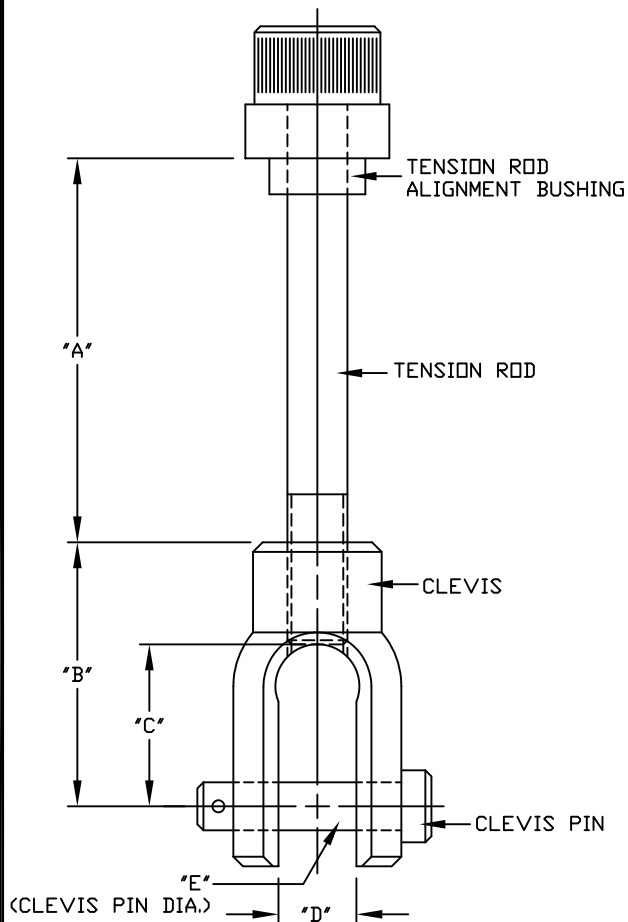
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TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



10,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 1/4	2 1/4	1 1/2	1	3/4	5,000 LBF.	604408
2 1/4	3	2 3/16	1	3/4	10,000 LBF.	604409
5	4 1/2	3 7/16	1 5/8	.998	10,000 LBF.	604411
30,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 1/4	2 1/4	1 1/2	1	3/4	5,000 LBF.	604508
2 1/4	3	2 3/16	1	3/4	20,000 LBF.	604509
60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
3 1/2	3 1/8	2 1/8	1.330	.998	50,000 LBF.	604632
100,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
3 1/2	3 1/8	2 1/8	1.330	.998	50,000 LBF.	604732
2 9/16	4 7/8	3 3/8	1 5/8	1.748	100,000 LBF.	604733
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4 1/2	3 1/8	2 1/8	1.330	.998	50,000 LBF.	604832
3 13/16	4 7/8	3 3/8	1 5/8	1.748	100,000 LBF.	604833
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4 1/2	3 1/8	2 1/8	1.330	.998	50,000 LBF.	615332
4 13/16	4 7/8	3 3/8	1 5/8	1.748	100,000 LBF.	615333

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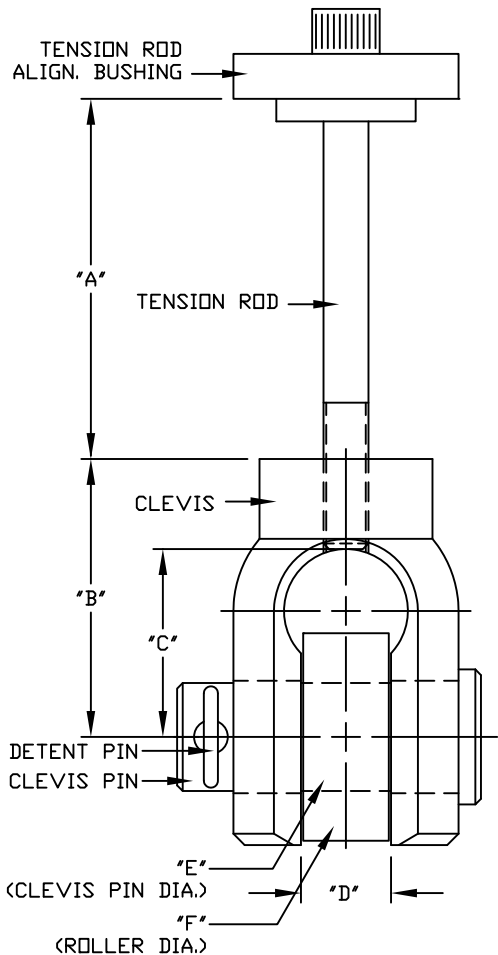
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CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR DILLON ED-2000 ELECTRONIC DYNAMOMETERS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED DIRECTLY TO THE DYNAMOMETER USING THE CLEVIS PIN WITHOUT THE ROLLER OR TO THE SHACKLES OF THE DYNAMOMETER USING THE CLEVIS PIN WITH THE ROLLER; ONE TENSION MEMBER, TWO CHOICES

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
THE ED2000 DYNAMOMETERS ARE TOO BIG TO FIT IN THIS SIZE CALIBRATING MACHINE.							
30,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
1.625	3.250	2.375	1.125	.750	1.00	10,000 LBF.	604569
1.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604568
1.500	4.000	3.000	2.000	1.474	3.00	20,000 LBF.	604553
60,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.250	2.375	1.125	.750	1.00	2,000 LBF.	604662
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604662
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604661
4.500	4.000	3.000	2.000	1.474	3.00	20,000 LBF.	604648
4.202	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604649
100,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.250	2.375	1.125	.750	1.00	2,000 LBF.	604786
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604786
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604785
4.643	4.000	3.000	2.000	1.474	3.00	20,000 LBF.	604770
4.143	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604766
3.875	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	604769
150,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.250	2.375	1.125	.750	1.00	2,000 LBF.	604859
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604859
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604858
4.393	4.000	3.000	2.000	1.474	3.00	20,000 LBF.	604849
3.898	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604850
5.750	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	604851
200,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.250	2.375	1.125	.750	1.00	2,000 LBF.	615363
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	615363
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	615362
6.387	4.000	3.000	2.000	1.474	3.00	20,000 LBF.	615353
5.895	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	615354
5.750	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	615355

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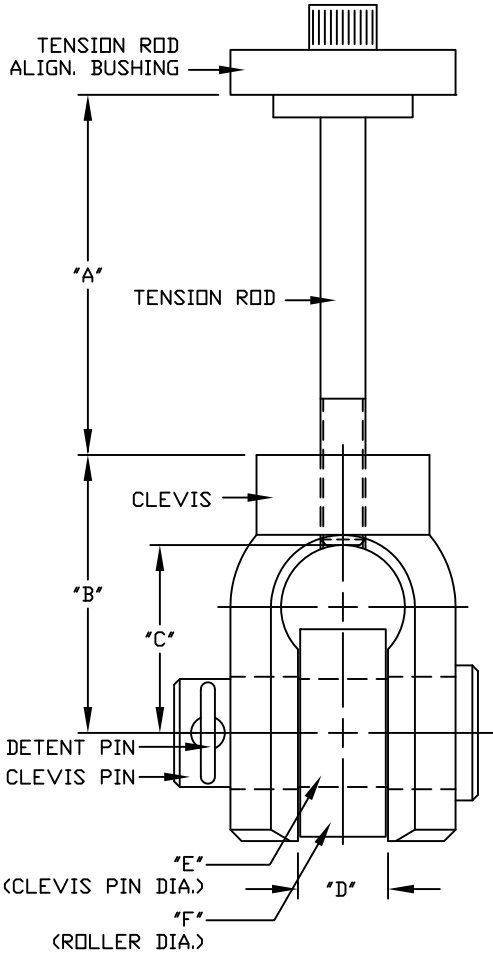
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CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR DILLON EDxtreme ELECTRONIC DYNAMOMETERS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED DIRECTLY TO THE DYNAMOMETER USING THE CLEVIS PIN WITHOUT THE ROLLER OR TO THE SHACKLES OF THE DYNAMOMETER USING THE CLEVIS PIN WITH THE ROLLER; ONE TENSION MEMBER, TWO CHOICES

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
THE EDxtreme DYNAMOMETERS ARE TOO BIG TO FIT IN THIS SIZE CALIBRATING MACHINE.							
30,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
1.625	3.250	2.375	1.125	.750	1.00	10,000 LBF.	604569
1.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604568
1.500	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604553
60,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.250	2.375	1.125	.750	1.00	2,500 LBF.	604662
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604662
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604661
4.500	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604648
4.202	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604649
100,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.250	2.375	1.125	.750	1.00	2,500 LBF.	604786
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604786
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604785
4.643	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604770
4.143	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604766
3.875	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	604769
150,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.250	2.375	1.125	.750	1.00	2,500 LBF.	604859
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604859
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604858
4.393	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604849
3.898	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	604850
5.750	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	604851
200,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.250	2.375	1.125	.750	1.00	2,500 LBF.	615363
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	615363
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	615362
6.387	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	615353
5.895	6.250	4.750	2.781	2.000	4.00	50,000 LBF.	615354
5.750	8.250	6.500	4.000	2.750	6.00	100,000 LBF.	615355

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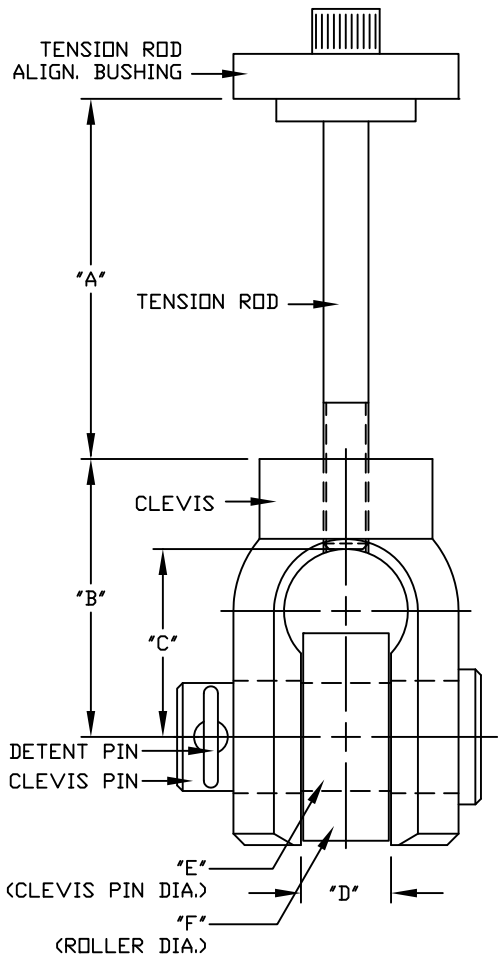
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CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR DILLON EDjunior ELECTRONIC DYNAMOMETERS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED DIRECTLY TO THE DYNAMOMETER USING THE CLEVIS PIN WITHOUT THE ROLLER OR TO THE SHACKLES OF THE DYNAMOMETER USING THE CLEVIS PIN WITH THE ROLLER; ONE TENSION MEMBER, TWO CHOICES

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
THE EDjunior DYNAMOMETERS ARE TOO BIG TO FIT IN THIS SIZE CALIBRATING MACHINE.							
30,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
1.625	3.500	2.625	.875	.500	.75	2,500 LBF.	604570
1.625	3.250	2.375	1.125	.750	1.00	10,000 LBF.	604569
1.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604568
1.500	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604553
60,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.500	2.625	.875	.500	.75	2,500 LBF.	604663
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604662
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604661
4.500	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604648
100,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.625	3.500	2.625	.875	.500	.75	2,500 LBF.	604787
4.625	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604786
4.750	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604785
4.643	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604770
150,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.500	2.625	.875	.500	.75	2,500 LBF.	604860
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	604859
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	604858
4.393	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	604849
200,000 LBF. UNIVERSAL CALIBRATING MACHINE							
'A'	'B'	'C'	'D'	'E'	'F'	CAPACITY	CATALOG NO.
4.375	3.500	2.625	.875	.500	.75	2,500 LBF.	615364
4.375	3.250	2.375	1.125	.750	1.00	5,000 LBF.	615363
4.500	3.200	2.450	1.500	1.000	2.00	10,000 LBF.	615362
6.387	4.000	3.000	2.000	1.474	3.00	25,000 LBF.	615353

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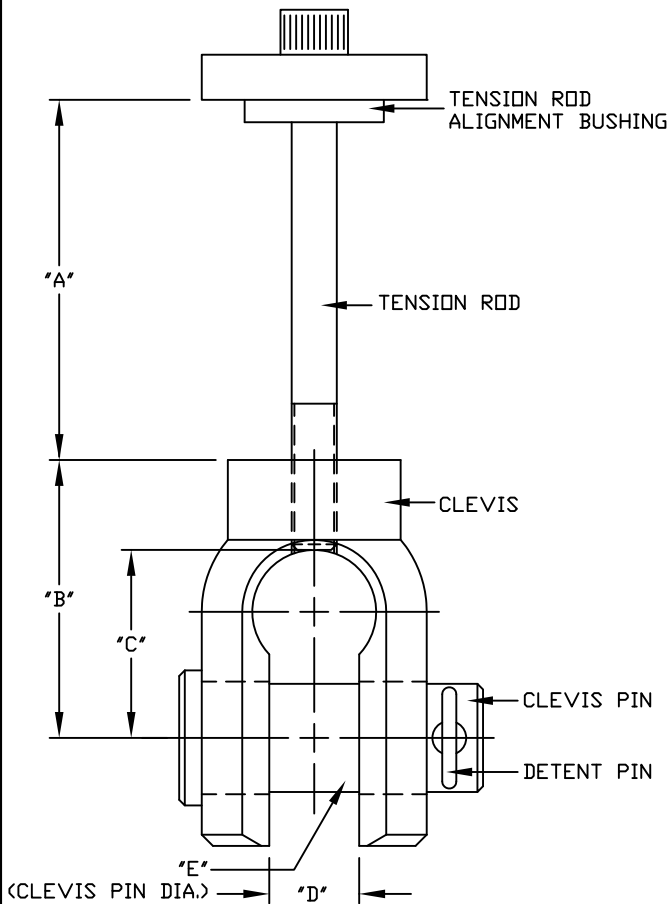
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CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR MEASUREMENT SYSTEMS INTERNATIONAL (MSI) DYNALINKS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED DIRECTLY TO THE DYNAMOMETER

MODEL: MSI-7200

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

* - A JACK EXTENSION BLOCK WILL BE NEEDED TO USE THIS TENSION MEMBER ASSEMBLY WITH THE 30,000 LBF. MOREHOUSE UNIVERSAL CALIBRATING MACHINE.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
THE MSI DYNALINKS ARE TOO BIG TO FIT IN THIS SIZE CALIBRATING MACHINE.						
30,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 7/8	1 15/16	1 5/16	1.050	.750	1,000 LBF.	*604562
2 7/8	1 15/16	1 5/16	1.050	.750	2,000 LBF.	*604562
2 7/8	1 15/16	1 5/16	1.050	.750	5,000 LBF.	*604562
2 11/32	2.375	1 23/32	1.400	1.000	10,000 LBF.	*604561
1 3/4	3 5/8	2 3/8	2.340	1.580	25,000 LBF.	*604560
60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 7/8	1 15/16	1 5/16	1.050	.750	1,000 LBF.	604654
2 7/8	1 15/16	1 5/16	1.050	.750	2,000 LBF.	604654
2 7/8	1 15/16	1 5/16	1.050	.750	5,000 LBF.	604654
2 11/32	2.375	1 23/32	1.400	1.000	10,000 LBF.	604653
3.250	3 5/8	2 3/8	2.340	1.580	25,000 LBF.	604652
4.000	4.250	2.750	2.880	2.000	50,000 LBF.	604651
100,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 7/8	1 15/16	1 5/16	1.050	.750	1,000 LBF.	604776
2 7/8	1 15/16	1 5/16	1.050	.750	2,000 LBF.	604776
2 7/8	1 15/16	1 5/16	1.050	.750	5,000 LBF.	604776
3 27/32	2.375	1 23/32	1.400	1.000	10,000 LBF.	604775
3.250	3 5/8	2 3/8	2.340	1.580	25,000 LBF.	604774
4.000	4.250	2.750	2.880	2.000	50,000 LBF.	604763
3.875	6.000	4.500	3.250	2.250	100,000 LBF.	604755
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4 5/8	1 15/16	1 5/16	1.050	.750	1,000 LBF.	604857
4 5/8	1 15/16	1 5/16	1.050	.750	2,000 LBF.	604857
4 5/8	1 15/16	1 5/16	1.050	.750	5,000 LBF.	604857
4 19/32	2.375	1 23/32	1.400	1.000	10,000 LBF.	604856
6.000	3 5/8	2 3/8	2.340	1.580	25,000 LBF.	604855
3.750	4.250	2.750	2.880	2.000	50,000 LBF.	604854
4.750	6.000	4.500	3.250	2.250	100,000 LBF.	604853
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4 5/8	1 15/16	1 5/16	1.050	.750	1,000 LBF.	615360
4 5/8	1 15/16	1 5/16	1.050	.750	2,000 LBF.	615360
4 5/8	1 15/16	1 5/16	1.050	.750	5,000 LBF.	615360
4 19/32	2.375	1 23/32	1.400	1.000	10,000 LBF.	615359
6.000	3 5/8	2 3/8	2.340	1.580	25,000 LBF.	615358
5.750	4.250	2.750	2.880	2.000	50,000 LBF.	615357
5.750	6.000	4.500	3.250	2.250	100,000 LBF.	615349
4 1/2	6.000	4.000	4.000	2.750	160,000 LBF.	615369

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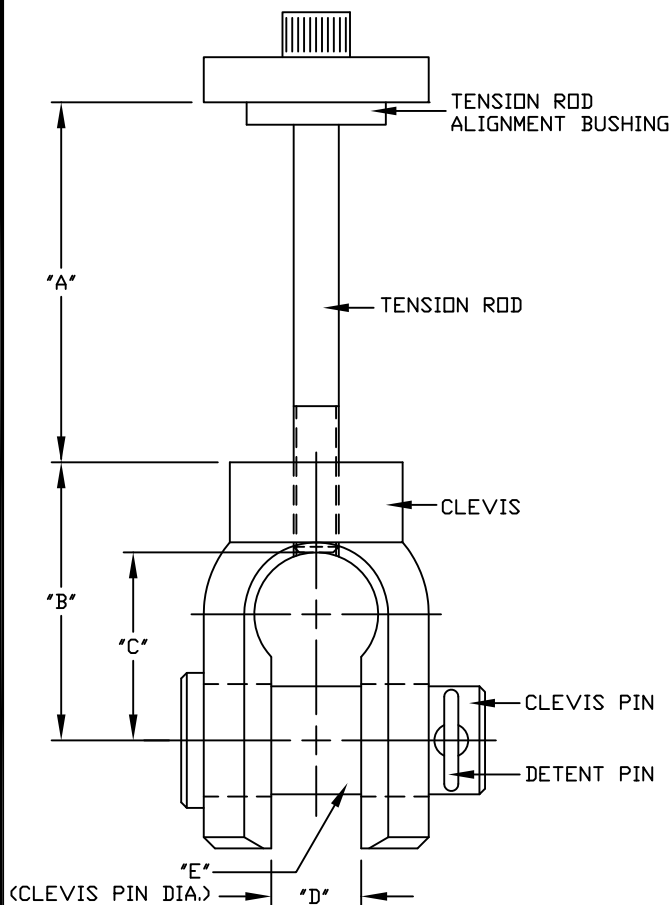
CLEVIS TYPE TENSION MEMBER ASSEMBLIES FOR RON xxxx SHACKLE TYPE DYNAMOMETERS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED
TO BE ATTACHED DIRECTLY TO THE DYNAMOMETER

CASE CONFIGURATIONS:

- CASE 1: - S-0025, S-005, S-01, & S-02
MAX. CAPACITY IS 4,000 LBF.
- CASE 2: - S-03 & S-05
MAX. CAPACITY IS 10,000 LBF.
- CASE 3: - S-10, S-12, & S-15
MAX. CAPACITY IS 30,000 LBF.
- CASE 4: - S-20
MAX. CAPACITY IS 40,000 LBF.
- CASE 5: - S-25 & S-30
MAX. CAPACITY IS 60,000 LBF.
- CASE 6: - S-40 & S-50
MAX. CAPACITY IS 100,000 LBF.

**TENSION MEMBER ASSEMBLIES
ARE SOLD AND USED IN PAIRS**



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
THE DYNAMOMETERS ARE TOO BIG TO FIT IN THIS SIZE CALIBRATING MACHINE.						
30,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
1.625	3.500	2.625	.875	.500	CASE 1	604570
1.625	3.250	2.375	1.125	.750	CASE 2	604569
3.500	4.000	2.500	1.625	1.380	CASE 3 TO 10,000 LBF.	604566
1.250	4.000	2.750	2.000	1.250	CASE 3	604571
60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
4.625	3.500	2.625	.875	.500	CASE 1	604663
4.625	3.250	2.375	1.125	.750	CASE 2	604662
4.250	4.000	2.750	2.000	1.250	CASE 3	604664
4.700	4.125	3.125	2.250	1.375	CASE 4	604665
4.700	4.375	3.375	2.500	1.500	CASE 5	604666
100,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
4.625	3.500	2.625	.875	.500	CASE 1	604787
4.625	3.250	2.375	1.125	.750	CASE 2	604786
4.400	4.000	2.750	2.000	1.250	CASE 3	604788
4.700	4.125	3.125	2.250	1.375	CASE 4	604789
4.700	4.375	3.375	2.500	1.500	CASE 5	604790
3.125	6.625	5.125	3.000	1.998	CASE 6	604744
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
4.375	3.500	2.625	.875	.500	CASE 1	604860
4.375	3.250	2.375	1.125	.750	CASE 2	604859
4.150	4.000	2.750	2.000	1.250	CASE 3	604861
4.400	4.125	3.125	2.250	1.375	CASE 4	604862
4.400	4.375	3.375	2.500	1.500	CASE 5	604863
4.000	6.625	5.125	3.000	1.998	CASE 6	604845
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CASE CONFIG.	CATALOG NO.
4.375	3.500	2.625	.875	.500	CASE 1	615364
4.375	3.250	2.375	1.125	.750	CASE 2	615363
6.150	4.000	2.750	2.000	1.250	CASE 3	615365
6.400	4.125	3.125	2.250	1.375	CASE 4	615366
6.400	4.375	3.375	2.500	1.500	CASE 5	615367
6.000	6.625	5.125	3.000	1.998	CASE 6	615368

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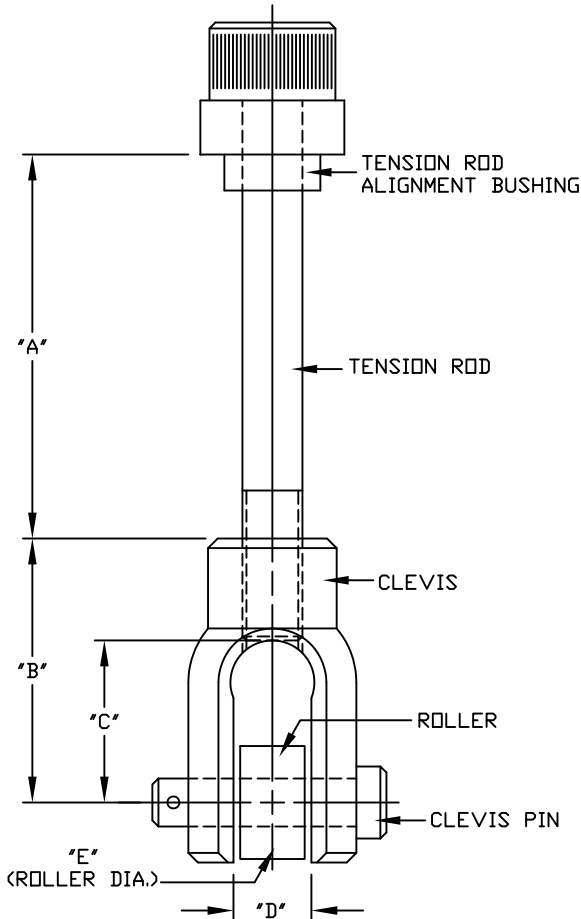
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OTHER CLEVIS TYPE
TENSION MEMBER ASSEMBLIES

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED TO THE FORGED SHACKLES SUPPLIED WITH THE INSTRUMENT

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED FOR APPLICATIONS WHERE THE CLEVIS TYPE TENSION MEMBERS ON THE PREVIOUS PAGES ARE NOT OF THE CORRECT SIZE.



30,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2 1/8	3 3/8	2 1/2	1 1/4	1 1/4	10,000 LBF.	604535
60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4 3/4	3	1 3/32	1 1/8	1 3/4	10,000 LBF.	604633
4 7/16	4 1/2	3 7/16	1 5/8	1 3/4	50,000 LBF.	604667
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
6 1/2	3	2 1/8	3/4	1 1/2	5,000 LBF.	604835
6 1/2	3	2 5/32	7/8	1 1/2	10,000 LBF.	604836
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
6 1/2	4 3/4	3 1/4	1 57/64	1	25,000 LBF.	615336
6 1/2	4 3/4	3 1/4	1 57/64	1 7/8	25,000 LBF.	615337
5 1/4	8 1/4	6 1/4	3 1/64	4 1/8	200,000 LBF.	615340

NOTE:
THE ROLLER PROTECTS THE PIN FROM BEING DAMAGED FROM THE ROUGH EDGES OF THE FORGED SHACKLES.

IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

MOREHOUSE INSTRUMENT COMPANY, INC.
1742 SIXTH AVENUE
YORK, PA. U.S.A. 17403-2675

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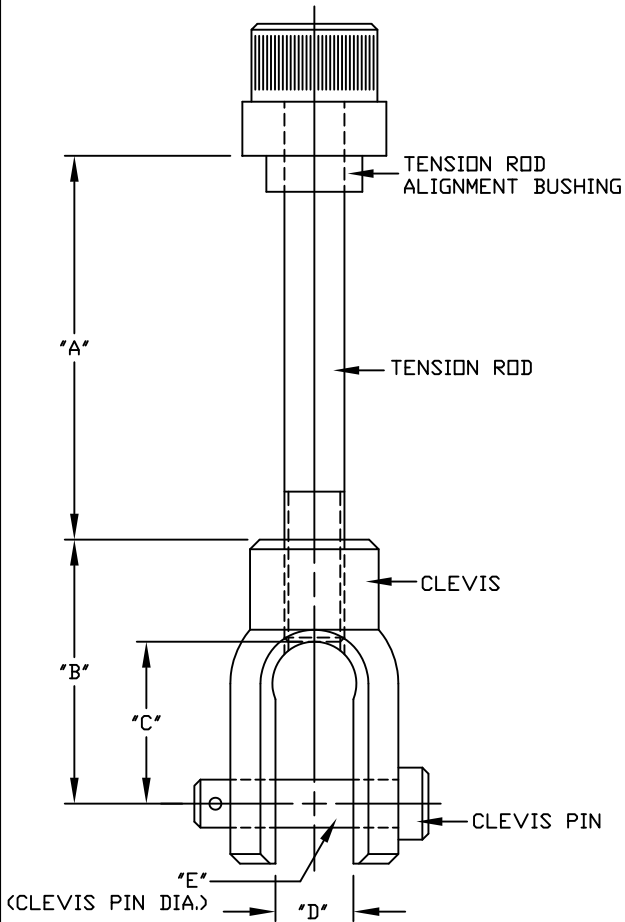
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OTHER CLEVIS TYPE
TENSION MEMBER ASSEMBLIES

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED TO BE ATTACHED DIRECTLY TO THE BODY OF THE INSTRUMENT

TENSION MEMBER ASSEMBLIES ARE SOLD AND USED IN PAIRS

THE TENSION MEMBERS ON THIS PAGE ARE DESIGNED FOR APPLICATIONS WHERE THE CLEVIS TYPE TENSION MEMBERS ON THE PREVIOUS PAGES ARE NOT OF THE CORRECT SIZE.



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
2.288	2.800	1.963	1.000	1.200	5,000 LBF.	604447
2.040	2.875	2.125	1.400	1.200	10,000 LBF.	604448
30,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
1.663	2.800	1.963	1.000	1.200	5,000 LBF.	604557
1.750	2.875	2.125	1.400	1.200	10,000 LBF.	604558
60,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4.288	2.800	1.963	1.000	1.200	5,000 LBF.	604646
4 15/16	3.000	2.250	1.400	1.200	10,000 LBF.	604647
100,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4.288	2.800	1.963	1.000	1.200	5,000 LBF.	604771
4 15/16	3.000	2.250	1.400	1.200	10,000 LBF.	604772
4 5/8	4.000	3.000	2.000	1.150	25,000 LBF.	604794
3 5/8	4 3/8	2 7/8	2.312	1.625	25,000 LBF.	604762
3 5/8	4	3	1.750	3/4	30,000 LBF.	604798
2 7/8	4 1/4	2 3/4	2 1/4	1 1/2	50,000 LBF.	604731
4 1/8	6.000	4 1/2	3.250	1.998	100,000 LBF.	604780
2 3/4	6 5/8	4 3/4	3	1.998	100,000 LBF.	604744
2 1/2	4 7/8	3 3/8	1 5/8	1 3/4	100,000 LBF.	604716
5 1/2	6	4 1/2	3 1/4	2 1/4	100,000 LBF.	604764
3	5 3/4	4 1/8	3.000	2.550	100,000 LBF.	604784
5 1/8	5 1/2	4	3 1/2	2.990	100,000 LBF.	604760
3 1/16	5 5/8	4 1/8	4 3/4	3 1/4	120,000 LBF.	604757
2 7/8	6 3/8	4 7/8	5 3/8	4 1/4	120,000 LBF.	604758
5 1/2	5 3/8	3 7/8	3	1 3/4	125,000 LBF.	604765
150,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4.038	2.800	1.963	1.000	1.200	5,000 LBF.	604847
4 11/16	3.000	2.250	1.400	1.200	10,000 LBF.	604848
6	4 1/2	3 11/32	1 3/8	.998	20,000 LBF.	604837
4 3/4	4 7/8	3 7/16	1 3/4	1 3/4	100,000 LBF.	604838
4 3/4	6 5/8	5 1/8	3	1.998	100,000 LBF.	604845
3 3/4	4 7/8	1 5/8	1 5/8	1 3/4	100,000 LBF.	604816
200,000 LBF. UNIVERSAL CALIBRATING MACHINE						
'A'	'B'	'C'	'D'	'E'	CAPACITY	CATALOG NO.
4.038	2.800	1.963	1.000	1.200	5,000 LBF.	615351
4 11/16	3.000	2.250	1.400	1.200	10,000 LBF.	615352
6 1/2	4 3/4	3 1/4	1 57/64	.623	25,000 LBF.	615335
6 1/4	5 3/4	4 1/4	2 17/64	2 1/8	50,000 LBF.	615338
3 3/4	4 7/8	3 3/8	1 5/8	1 3/4	100,000 LBF.	615317
5 3/4	6 3/4	5 1/4	3 1/64	2 5/8	100,000 LBF.	615339
5.471	5 1/2	3 1/2	3.500	2.000	125,000 LBF.	615361

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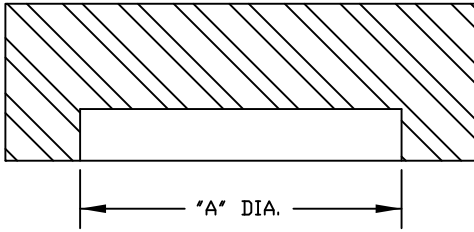
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**ALIGNMENT BEARING BLOCK
FOR USE WITH SPHERICAL LOAD BUTTONS**

ROCKWELL HARDNESS OF RC 28-32
(HIGHER CAPACITIES RC 48-50)

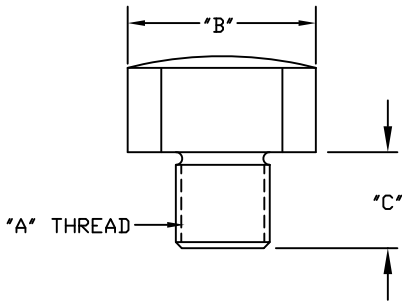


*A' DIA.	CAPACITY	CATALOG NO.	#	*A' DIA.	CAPACITY	CATALOG NO.
3/8	4,000 LBF.	600033.01	#	2 1/4	300,000 LBF.	600033.24
1/2	8,000 LBF.	600033.02	#	2.289	330,000 LBF.	600033.25
.600	10,000 LBF.	600033.18	#	2 1/2	320,000 LBF.	600033.09
.630	12,000 LBF.	600033.22	#	3	550,000 LBF.	600033.10
3/4	17,500 LBF.	600033.03	#	3.165	300,000 LBF.	600033.19
7/8	20,000 LBF.	600033.21	#	3 1/4	700,000 LBF.	600033.23
1 (.10 DP.)	35,000 LBF.	600033.28	#	3 1/2	480,000 LBF.	600033.11
1 (.3/16 DP.)	35,000 LBF.	600033.04	#	4	700,000 LBF.	600033.15
1 1/8	50,000 LBF.	600033.14	#	4 1/2	1,100,000 LBF.	600033.12
1 1/4	66,000 LBF.	600033.05	#	5	1,100,000 LBF.	600033.26
1 5/16	60,000 LBF.	600033.20	#	5 1/2	1,200,000 LBF.	600033.13
1.340	60,000 LBF.	600033.16	#	6	1,100,000 LBF.	600033.27
1 1/2	110,000 LBF.	600033.06	#	24 MM	5,000 KGF.	600033.29
1.570	110,000 LBF.	600033.17	#	64 MM	50,000 KGF.	600033.30
1 3/4	132,000 LBF.	600033.07	#	90 MM	100,000 KGF.	600033.31
2	220,000 LBF.	600033.08	#	125 MM	200,000 KGF.	600033.32

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

- THIS PART DESIGN WILL FIT A MOREHOUSE
COMPRESSION PROVING RING BOSS

SPHERICAL LOAD BUTTON - FOR COMPRESSION LOAD CELLS



NOTE:
IF THE LOAD CELL IS TO BE LOADED THROUGH ITS BODY
THE SPHERICAL LOAD BUTTON MUST BE FULLY SCREWED
INTO THE LOAD CELL SO ITS SHOULDER IS TIGHT AGAINST
THE LOAD CELL BODY. IF THE LOAD CELL IS TO BE LOADED
THROUGH ITS THREADS LOOSEN THE SPHERICAL LOAD BUTTON
ONE FULL TURN SO IT IS NOT TOUCHING THE LOAD CELL
BODY.

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

*A' THREAD	*B'	*C'	CAPACITY	CATALOG NO.
#10-32	3/8	1/4	1,000 LBF.	600032.01
1/4-28	1/2	1/4	1,600 LBF.	600032.02
5/16-18	3/4	5/16	2,800 LBF.	600032.18
5/16-24	3/4	5/16	2,800 LBF.	600032.49
3/8-16	3/4	3/8	4,000 LBF.	600032.29
3/8-24	3/4	3/8	4,000 LBF.	600032.03
7/16-20	1.00	7/16	5,000 LBF.	600032.17
1/2-13	1.00	7/16	6,000 LBF.	600032.15
1/2-20	1.00	7/16	8,000 LBF.	600032.04
1/2-20 FLAT	1.00	7/16	8,000 LBF.	600032.50
.500 DIA.	3/4	.150	20,000 LBF.	600032.46
1/2 DIA.	1.00	1/2	8,000 LBF.	600032.24
5/8-18	1 1/4	7/16	12,000 LBF.	600032.05
5/8-18	1 1/4	7/16	12,000 LBF.	600032.51
.630 DIA.	13/16	.150	35,000 LBF.	600032.44
3/4-16	1 1/4	5/8	17,000 LBF.	600032.06
7/8-12	1 1/2	3/4	17,500 LBF.	600032.30
7/8-14	1 1/2	3/4	17,500 LBF.	600032.43
1-8	1 1/2	.825	35,000 LBF.	600032.33
1-12	1 1/2	3/4	35,000 LBF.	600032.25
1-14	1 1/2	.825	35,000 LBF.	600032.07
1-20	1 1/2	3/4	35,000 LBF.	600032.21
1 1/8-12	1 3/4	7/8	50,000 LBF.	600032.28
1 1/4-12	1 3/4	1.025	50,000 LBF.	600032.08
1 1/4-12 LH	1 3/4	1.025	50,000 LBF.	600032.48
1.25 DIA.	1 5/8	.200	30,000 LBF.	600032.45
1 1/2-12	2.00	1 1/8	110,000 LBF.	600032.09
1 3/4-12	2 1/2	1 1/2	110,000 LBF.	600032.10
2-12	3.00	1 5/8	150,000 LBF.	600032.11
2 DIA.	3 1/4	1/2	180,000 LBF.	600032.32
2 3/8-12	4.00	2	200,000 LBF.	600032.16
2 1/2-12	3 1/2	2 1/2	220,000 LBF.	600032.12
2 3/4-8	4.00	2 1/8	275,000 LBF.	600032.22
3-8	4 1/2	2 1/4	330,000 LBF.	600032.13
3-12	4 1/2	2 1/4	330,000 LBF.	600032.23
3 1/2-12	5.00	3	400,000 LBF.	600032.52
4-8	5 1/2	3	500,000 LBF.	600032.14

*A' THREAD	*B'	*C'	CAPACITY	CATALOG NO.
M8 x 1	3/4	7/16	3,200 LBF.	600032.37
M8 x 1.25	3/4	7/16	3,200 LBF.	600032.38
M12 x 1	3/4	7/16	7,500 LBF.	600032.35
M12 x 1.25	3/4	7/16	7,500 LBF.	600032.36
M12 x 1.5	3/4	3/4	7,500 LBF.	600032.42
M12 x 1.75	3/4	7/16	7,500 LBF.	600032.34
M16 x 2	0.99	3/4	15,000 LBF.	600032.39
M18 x 1.5	1.00	3/4	15,000 LBF.	600032.20
M24 x 2	1.49	3/4	35,000 LBF.	600032.26
M30 x 2	1.74	1	44,000 LBF.	600032.19
M33 x 2	1.74	1	44,000 LBF.	600032.40
M36 x 3	1.875	1 1/4	60,000 LBF.	600032.41
M52 x 3	3.00	1 1/2	150,000 LBF.	600032.27

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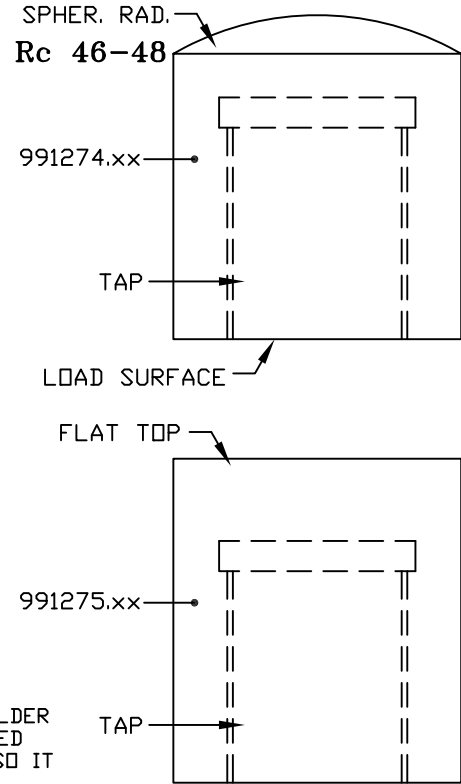
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**LOAD CELL TOP COMPRESSION ADAPTORS
(FOR USE WITH LOAD CELLS THAT HAVE EXTERNAL THREADS)**

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

'TAP'	SPHER. RAD.	'SPHER. RAD.'	'FLAT'	MAXIMUM CAPACITY
		PART NO.	PART NO.	
1/2-20	2.00	991274.01	991275.01	2,000 LBF.
5/8-18	2.00	991274.02	991275.02	10,000 LBF.
1-14	2.00	991274.03	991275.03	25,000 LBF.
1 1/4-12	2.00	991274.04	991275.04	60,000 LBF.
1 1/2-12	2.00	991274.05	991275.05	60,000 LBF.
1 3/4-12	2.00	991274.06	991275.06	100,000 LBF.
2-12	2.00	991274.07	991275.07	120,000 LBF.
2 3/4-8	2.00	991274.08	991275.08	200,000 LBF.
M16 x 1.5	2.00	991274.09	991275.09	5,000 LBF.
M16 x 2	2.00	991274.10	991275.10	12,000 LBF.
M20 x 1.5	2.00	991274.11	991275.11	12,000 LBF.
M30 x 2	2.00	991274.12	991275.12	25,000 LBF.
M39 x 2	4.00	991274.13	991275.13	50,000 LBF.
M42 x 3	4.00	991274.14	991275.14 </td <td>115,000 LBF.</td>	115,000 LBF.
M72 x 4	4.00	991274.15	991275.15	115,000 LBF.

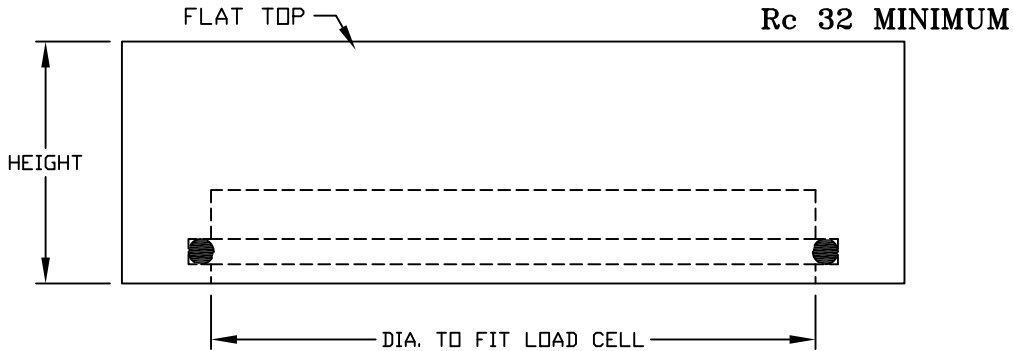


NOTE:

IF THE LOAD CELL IS TO BE LOADED THROUGH ITS BODY THE COMPRESSION ADAPTOR MUST BE FULLY SCREWED INTO THE LOAD CELL SO THAT ITS SHOULDER IS TIGHT AGAINST THE LOAD CELL BODY. IF THE LOAD CELL IS TO BE LOADED THROUGH ITS THREADS LOOSEN THE COMPRESSION ADAPTOR ONE FULL TURN SO IT IS NOT TOUCHING THE LOAD CELL BODY.

[DESIGNED FOR MOREHOUSE, INTERFACE, & TOVEY LOAD CELLS WITH THREADED INTEGRAL ADAPTORS]

**LOAD CELL TOP COMPRESSION ADAPTORS WITH O-RING
(FOR USE WITH MOREHOUSE CANISTER LOAD CELLS OF HIGHER CAPACITY)**



MAX. CAPACITY OF LOAD CELL	PART NO.	PART HEIGHT
300K LBF.	991248.02	2 1/4 IN.
500K LBF. / 600K LBF.	991248.01	2 3/4 IN.
1.7K LBF.	991248.03	3 1/4 IN.

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

[DESIGNED FOR TECSIS & STRAINSENSE LOAD CELLS]

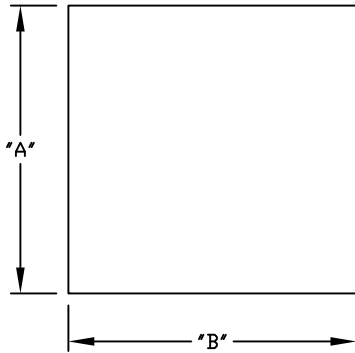
MOREHOUSE INSTRUMENT COMPANY, INC.
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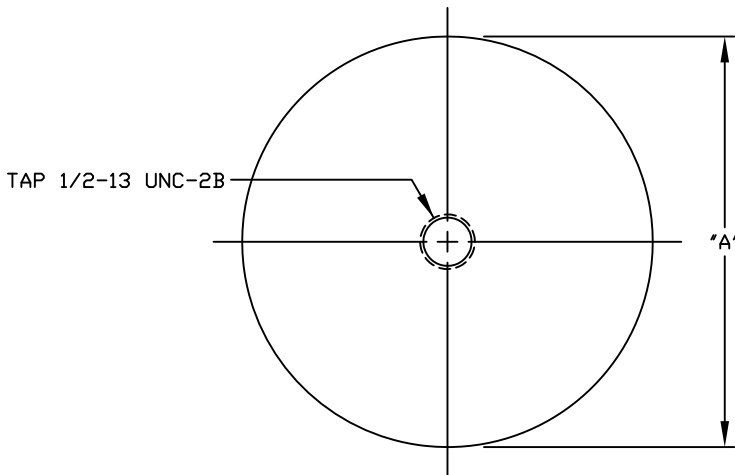
SOFT STEEL LOAD PAD
(MAY BE USED IN PLACE OF ALIGNMENT BEARING BLOCK)



ROCKWELL HARDNESS OF RB 65-70

CAPACITY	"A"	"B"	CATALOG NO.
50,000 LBF.	2	2	600034.05
100,000 LBF.	3	3	600034.01
200,000 LBF.	4	4	600034.02
500,000 LBF.	4	4	600034.03
1,000,000 LBF.	5	5	600034.04

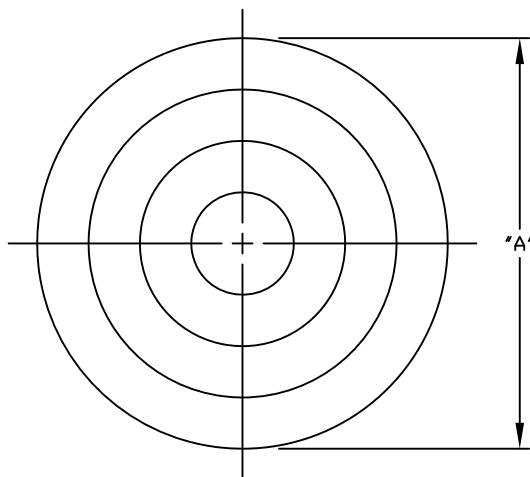
HARDENED STEEL BEARING PLATE



ROCKWELL HARDNESS OF RC 48-52

UPPER HARDENED STEEL BEARING PLATE

CAPACITY	"A"	CATALOG NO.
60,000 LBF.	3 1/2	015-1820
300,000 LBF.	5	015-10820
500,000 LBF.	6	015-211820
1,000,000 LBF.	8	015-180820



ROCKWELL HARDNESS OF RC 48-52

LOWER HARDENED STEEL BEARING PLATE

CAPACITY	"A"	CATALOG NO.
60,000 LBF.	3 1/2	015-1821
300,000 LBF.	5	015-10821
500,000 LBF.	6	015-211821
1,000,000 LBF.	8	015-180821

NOTE:
THE LOWER PLATE HAS A SERIES OF CONCENTRIC SERRATIONS TO ASSIST IN PROPER AXIAL ALIGNMENT.

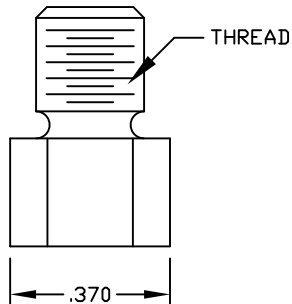
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**LOAD CELL ALIGNMENT PLUG
FOR USE WITH LOAD CELL ADAPTOR PLATE (6xxx23.xx)**



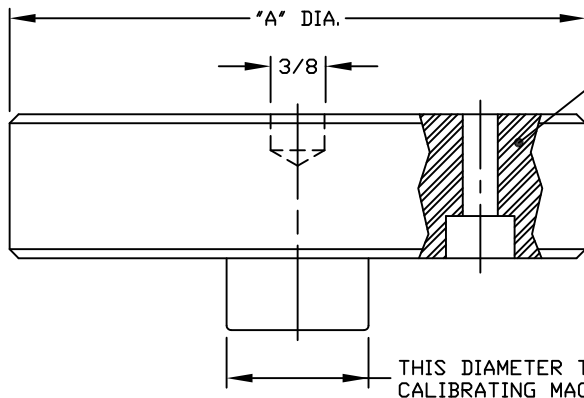
THREAD	CATALOG NO.
#10-32	600037.13
1/4-28	600037.01
5/16-24	600037.32
3/8-16	600037.17
3/8-24	600037.02
7/16-20	600037.33
1/2-20	600037.03
1/2-13	600037.05
5/8-18	600037.06
3/4-10	600037.18
3/4-16	600037.07

THREAD	CATALOG NO.
7/8-14	600037.21
1-12	600037.20
1-14	600037.04
1 1/4-12	600037.08
1 1/2-12	600037.12
1 3/4-12	600037.09
2-12	600037.14
2 1/2-12	600037.16
2 3/4-8	600037.35
3-8	600037.15
3-12	600037.19
3 1/4-12	600037.22
3 1/2-12	600037.40

THREAD	CATALOG NO.
M8 x 1	600037.39
M12 x 1	600037.28
M16 x 1.5	600037.29
M16 x 2	600037.36
M20 x 1.5	600037.23
M24 x 2	600037.10
M30 x 2	600037.24
M36 x 3	600037.34
M39 x 2	600037.30
M42 x 2	600037.37
M42 x 3	600037.25
M52 x 3	600037.11
M64 x 4	600037.26
M72 x 2	600037.38
M72 x 4	600037.31
M90 x 4	600037.27

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

**LOAD CELL ADAPTOR PLATE
FOR USE WITH LOAD CELL ALIGNMENT PLUG (600037.xx)**



NOTE: (OPTION AVAILABLE)
IF ADAPTOR IS TO BE USED FOR LOAD CELLS WITH
TAPPED HOLES ON A BOLT CIRCLE; STATE DIAMETER
OF BOLT CIRCLE AND SIZE OF TAPPED HOLES. ALSO
INCLUDE MAKE AND MODEL OF LOAD CELL.

IF THE SIZE REQUIRED IS NOT SHOWN OR A
CALIBRATING MACHINE WITH A CAPACITY NOT
LISTED IS BEING USED CALL MOREHOUSE
INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. & 30,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
4 DIA.	604523.06
5 DIA.	604523.02
6 DIA.	604523.04
10 DIA.	604523.03

60,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
4 DIA.	604623.01
5 DIA.	604623.02
6 DIA.	604623.03
7 DIA.	604623.04

100,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
4 DIA.	604723.01
4 1/2 DIA.	604723.07
5 DIA.	604723.02
6 DIA.	604723.03
7 DIA.	604723.04
9 DIA.	604723.05

150,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
4 DIA.	604823.01
4 1/2 DIA.	604823.07
5 DIA.	604823.02
6 DIA.	604823.03
7 DIA.	604823.04
9 DIA.	604823.05

200,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
4 DIA.	615323.01
4 1/2 DIA.	615323.07
5 DIA.	615323.02
6 DIA.	615323.03
7 DIA.	615323.04
8 DIA.	615323.05
9 DIA.	615323.06

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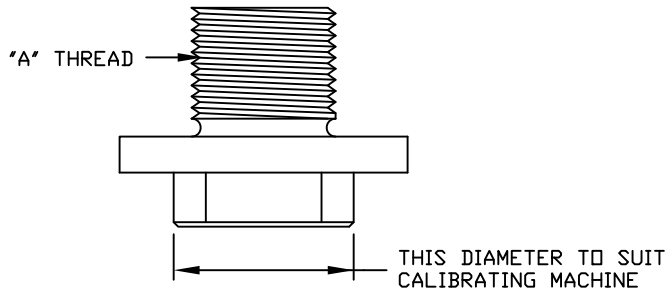
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LOAD CELL ALIGNMENT PLUG

(FOR USE IF LOAD CELL IS TO BE LOADED THRU ITS THREADS INSTEAD OF ITS BASE)

NOTE: IF THE LOAD CELL IS TO BE LOADED THROUGH ITS BODY THE LOAD CELL ALIGNMENT PLUG MUST BE FULLY SCREWED INTO THE LOAD CELL SO ITS SHOULDER IS TIGHT AGAINST THE LOAD CELL BODY. IF THE LOAD CELL IS TO BE LOADED THROUGH ITS THREADS LOOSEN THE LOAD CELL ALIGNMENT PLUG ONE FULL TURN SO IT IS NOT TOUCHING THE LOAD CELL BODY.



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
1/2-20	8,000 LBF.	604445.04
5/8-18	10,000 LBF.	604445.05
3/4-16	18,500 LBF.	604445.11
7/8-14	25,000 LBF.	604445.12
1-14	30,000 LBF.	604445.02
1-20	30,000 LBF.	604445.06
1 1/4-12	50,000 LBF.	604445.07
1 1/2-12	75,000 LBF.	604445.01
2-12	140,000 LBF.	604445.10
2 3/4-8	200,000 LBF.	604445.09
3-8	300,000 LBF.	604445.08
M12 x 1.25	5,000 LBF.	604445.13
M12 x 1.75	5,000 LBF.	604445.14
M16 x 2	10,000 LBF.	604445.15
M27 x 2	30,000 LBF.	604445.16
M30 x 2	40,000 LBF.	604445.03

30,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
3/8-24	5,000 LBF.	604545.10
1/2-20	8,000 LBF.	604545.04
5/8-18	10,000 LBF.	604545.05
1-14	30,000 LBF.	604545.02
1-20	30,000 LBF.	604545.06
1 1/4-12	50,000 LBF.	604545.07
1 1/2-12	75,000 LBF.	604545.01
2 3/4-8	200,000 LBF.	604545.09
3-8	300,000 LBF.	604545.08
M8 x 1.25	4,500 LBF.	604545.11
M18 x 1.5	15,000 LBF.	604545.12
M30 x 2	40,000 LBF.	604545.03

60,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
3/8-24	5,000 LBF.	604645.11
1/2-20	8,000 LBF.	604645.04
5/8-18	10,000 LBF.	604645.05
1-14	30,000 LBF.	604645.02
1-20	30,000 LBF.	604645.06
1 1/4-12	50,000 LBF.	604645.07
1 1/2-12	75,000 LBF.	604645.01
2-12	125,000 LBF.	604645.10
2 3/4-8	200,000 LBF.	604645.09
3-8	300,000 LBF.	604645.08
M24 x 2	12,000 LBF.	604645.12
M30 x 2	40,000 LBF.	604645.03

100,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
1/2-20	8,000 LBF.	604745.04
5/8-18	10,000 LBF.	604745.05
7/8-14	30,000 LBF.	604745.12
1-14	30,000 LBF.	604745.02
1-20	30,000 LBF.	604745.06
1 1/4-12	50,000 LBF.	604745.07
1 1/2-12	75,000 LBF.	604745.01
1 3/4-12	100,000 LBF.	604745.11
2-12	125,000 LBF.	604745.10
2 3/4-8	200,000 LBF.	604745.09
3-8	300,000 LBF.	604745.08
M30 x 2	40,000 LBF.	604745.03

150,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
1/2-20	8,000 LBF.	604846.04
5/8-18	10,000 LBF.	604846.05
1-14	30,000 LBF.	604846.02
1-20	30,000 LBF.	604846.06
1 1/4-12	50,000 LBF.	604846.07
1 1/2-12	75,000 LBF.	604846.01
2 3/4-8	200,000 LBF.	604846.09
3-8	300,000 LBF.	604846.08
M30 x 2	40,000 LBF.	604846.03

200,000 LBF. UNIV. CAL. MACHINE		
"A" THREAD	CAPACITY	CATALOG NO.
1/2-20	8,000 LBF.	615345.04
5/8-18	10,000 LBF.	615345.05
1-14	30,000 LBF.	615345.02
1-20	30,000 LBF.	615345.06
1 1/4-12	50,000 LBF.	615345.07
1 1/2-12	75,000 LBF.	615345.01
1 3/4-12	100,000 LBF.	615345.11
2-12	125,000 LBF.	615345.10
2 3/4-8	200,000 LBF.	615345.09
3-8	300,000 LBF.	615345.08
M30 x 2	40,000 LBF.	615345.03

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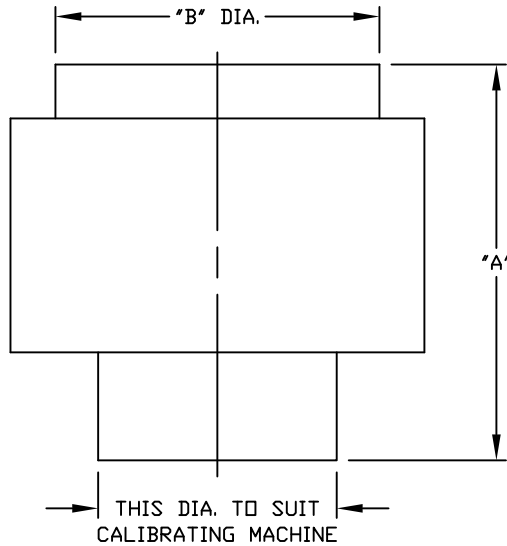
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PROVING RING ADAPTOR PLATE

USE WITH PROVING RING ALIGNMENT BUSHING
WHEN CALIBRATING A PROVING RING IN COMPRESSION



CAPACITY OF UNIV. CAL. MACHINE	PART NO.	"A" THICK	"B" DIA.
10,000 LBF.	604449	2.000	1.245
30,000 LBF.	604559	2.000	2.250
60,000 LBF.	604650	2.000	2.250
100,000 LBF.	604773	2.000	2.250
150,000 LBF.	604852	2.000	2.250
200,000 LBF.	615356	2.000	2.250
300,000 LBF.	607447	2.500	3.000
400,000 LBF.	604946	2.500	3.750
500,000 LBF.	624146	3.000	4.000
1,000,000 LBF.	618046	3.500	6.000

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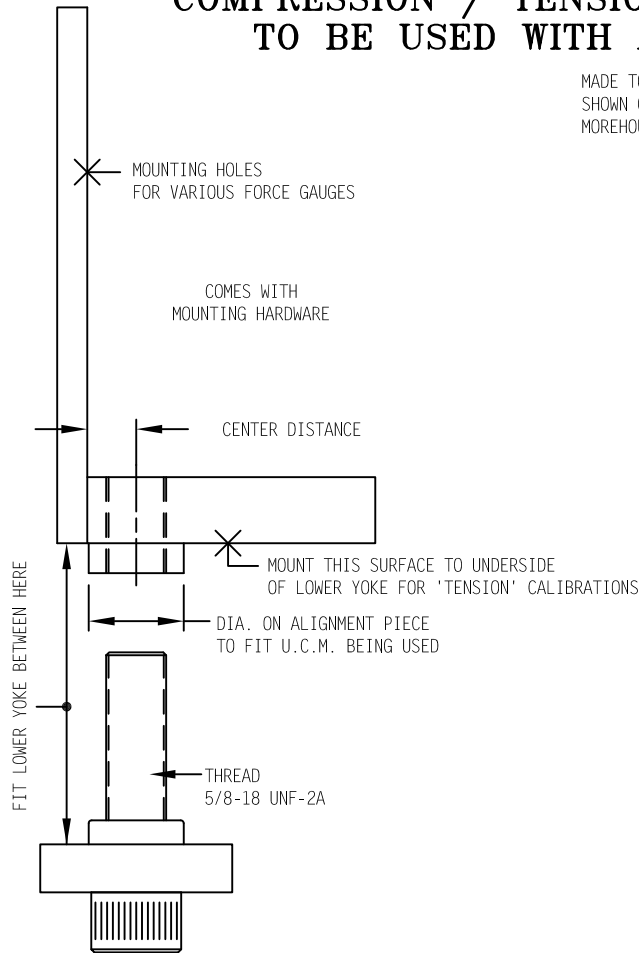
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HAND HELD FORCE GAUGE COMPRESSION / TENSION L-BRACKET ASSEMBLY TO BE USED WITH A MOREHOUSE U.C.M.

MADE TO FIT MOREHOUSE UNIVERSAL CALIBRATING MACHINES. IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.



Manufacturer's Model Numbers & Their Center Distance

[0.6875", 17.5 mm]	Ametek D
[0.7500", 19.1 mm]	Ametek III (< 100 lbf.)
[1.1900", 30.2 mm]	Ametek III (> 100 lbf.)
[0.7812", 19.8 mm]	Ametek L
[0.7812", 19.8 mm]	Ametek Accuforce Cadet Series ML
[0.7812", 19.8 mm]	Ametek Accuforce III (250 grams/100 lbs.)
[1.1875", 30.2 mm]	Ametek Accuforce III (250 lbs./500 lbs.)
[0.5100", 13.0 mm]	Chatillon DFM
[0.5000", 12.7 mm]	Chatillon DFGRS Light Duty
[0.5625", 14.3 mm]	Chatillon DFGRS Heavy Duty
[0.5000", 12.7 mm]	Chatillon DGGRS
[0.5625", 14.3 mm]	Chatillon DFIS
[0.5625", 14.3 mm]	Chatillon DPPH
[0.6900", 17.4 mm]	Chatillon DFE
[0.6875", 17.5 mm]	Chatillon DFGS
[0.6875", 17.5 mm]	Chatillon DPP
[0.6900", 17.4 mm]	Chatillon DFX
[1.0000", 25.4 mm]	Chatillon DG
[0.6875", 17.5 mm]	Chatillon LG
[1.8750", 47.6 mm]	Chatillon TCG Light Duty
[0.4700", 12.0 mm]	Imada DPS
[0.4700", 12.0 mm]	Imada ZP
[0.6800", 17.3 mm]	Imada PS
[0.6800", 17.3 mm]	Imada FB
[0.8500", 21.6 mm]	Imada Z2H-1100
[0.9800", 25.0 mm]	Imada ESH
[0.4200", 10.7 mm]	Mark 10 BG
[0.4200", 10.7 mm]	Mark 10 EG
[0.4200", 10.7 mm]	Mark 10 MG
[0.4200", 10.7 mm]	Mark 10 Series 5
[0.5100", 13.0 mm]	Shimpo FGE
[0.5100", 13.0 mm]	Shimpo FGV
[0.7100", 18.0 mm]	Shimpo MF

'L' BRACKET U.C.M. SERIES - ASSEMBLY NUMBERS (ALSO SEE CASE NO. TABLE)	
FOR: 10K LBF. U.C.M. ALIGNMENT HOLE: 1.0" DIA.	604460.xx
FOR: 30K LBF. U.C.M. ALIGNMENT HOLE: 1.0" DIA.	604540.xx
FOR: 60K LBF. U.C.M. ALIGNMENT HOLE: 1 3/16" DIA.	604671.xx
FOR: 100K LBF. U.C.M. ALIGNMENT HOLE: 1 9/16" DIA.	6047105.xx
- ADDITIONAL NOTE - BRACKETS ALSO AVAILABLE FROM 'MH' D.W.M. MODELS	
FOR: 'AF' D.W.M. ALIGNMENT HOLE: 5/8" DIA.	663331.xx
FOR: MODEL 'L' D.W.M. ALIGNMENT HOLE: 3/4" DIA.	634236.xx

NOTE: WHERE .xx IS THE CASE #

EXAMPLE: 60K LBF. U.C.M. w/ MARK 10 EG USE
WOULD BE - #604671.01

ASSEMBLY SUFFIX NO. (FOR BRKT. NO.)	INSTRUMENT CENTER DISTANCE IN. / (mm)	BRACKET ASSMB. CENTER DISTANCE IN. / (mm)
L-BRKT # w/ .01 SUFFIX [CASE 01]	0.4200" TO 0.5100" (10.7 mm TO 13.0 mm)	0.4700" (12.0 mm)
L-BRKT # w/ .02 SUFFIX [CASE 02]	0.5625" = 9/16"	0.5625" = 9/16"
L-BRKT # w/ .03 SUFFIX [CASE 03]	0.6800" TO 0.6900" (17.3 mm TO 17.4 mm)	0.6875" = 11/16"
L-BRKT # w/ .04 SUFFIX [CASE 04]	0.7100" TO 0.7813" (18.0 mm TO 19.8 mm)	0.7500" = 3/4"
L-BRKT # w/ .05 SUFFIX [CASE 05]	0.8500" (21.6 mm)	0.8500" (21.6 mm)
L-BRKT # w/ .06 SUFFIX [CASE 06]	0.9800" TO 1.0000" (25.0 mm TO 25.4 mm)	1.0000" (25.4 mm)
L-BRKT # w/ .07 SUFFIX [CASE 07]	1.1875" = 1 3/16"	1.1875" = 1 3/16"
L-BRKT # w/ .08 SUFFIX [CASE 08]	1.8750" = 1 7/8"	1.8750" = 1 7/8"

SPECIAL CASE (CONTACT MOREHOUSE DIRECTLY): FOR - CHATILLON 'TCG LIGHT DUTY' SERIES GAUGE USES A 2" FLATE PLATE (BASE) TO MOUNT GAUGE w/ A CLEVIS ASSEMBLY #604455 IN A 10K LBF. U.C.M. (CAN BE MODIFIED FOR OTHER U.C.M. MODELS)

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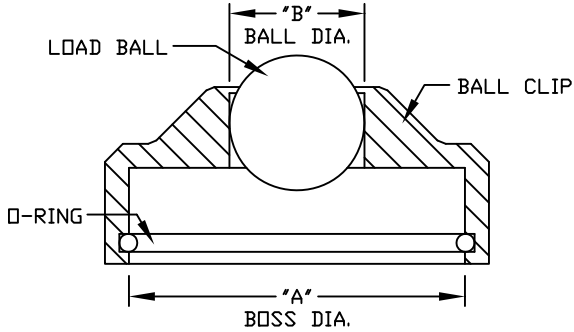
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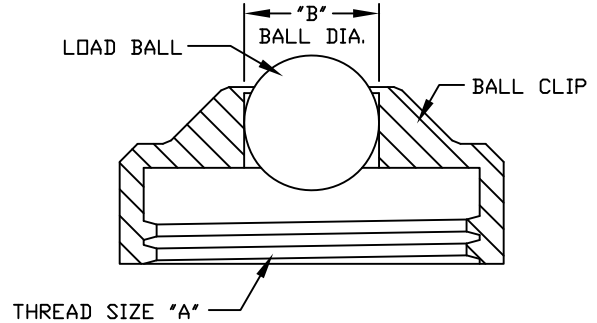
BALL RETAINER CLIPS FOR MOREHOUSE PROVING RINGS

WITHOUT THREADED BOSSES



'A' BOSS DIA.	'B' BALL DIA.	CAPACITY	CATALOG NO.
5/8	3/8	3,000 LBF.	600007.01
3/4	7/16	10,000 LBF.	600007.02
7/8	7/16	12,000 LBF.	600007.03
1	7/16	30,000 LBF.	600007.04
1 1/4	7/16	6,000 LBF.	600007.05
1 1/4	5/8	60,000 LBF.	600007.08
1 5/16	7/16	30,000 LBF.	600007.18
1 5/16	5/8	60,000 LBF.	600007.09
1 1/2	7/16	12,000 LBF.	600007.06
1 1/2	7/8	120,000 LBF.	600007.11
1.571	7/8	120,000 LBF.	600007.12
1 3/4	7/16	30,000 LBF.	600007.07
1 3/4	7/8	120,000 LBF.	600007.13
2	1 1/2	200,000 LBF.	600007.15
2 1/4	5/8	60,000 LBF.	600007.10
2.284	1 3/4	300,000 LBF.	600007.16
2 1/2	1 1/2	120,000 LBF.	600007.14
2 1/2	1 3/4	220,000 LBF.	600007.17

WITH THREADED BOSSES



'A' THREAD SIZE	'B' BALL DIA.	CAPACITY	CATALOG NO.
3/4-12 WW	3/8	3,000 LBF.	600008.01
1 1/8-9 WW	7/16	15,000 LBF.	600008.02
1 1/2-8 WW	7/16	30,000 LBF.	600008.13
1 1/2-8 WW	5/8	60,000 LBF.	600008.05
1 3/4-7 WW	7/8	120,000 LBF.	600008.06

'A' THREAD SIZE	'B' BALL DIA.	CAPACITY	CATALOG NO.
1 1/8-12 UNF	7/16	30,000 LBF.	600008.04
1 1/4-12 UNF	7/16	30,000 LBF.	600008.03
1 3/8-12 UNF	7/16	30,000 LBF.	600008.09
1 1/2-12 UNF	5/8	60,000 LBF.	600008.12
1 3/4-12 UN	7/8	90,000 LBF.	600008.14
2-4 1/2 UN	7/8	120,000 LBF.	600008.10
2 1/4-4 1/2 UN	1 1/2	200,000 LBF.	600008.11
2 1/4-5 UN	1 1/2	200,000 LBF.	600008.07
2 1/2-4 UN	1 1/2	200,000 LBF.	600008.08

NOTES:

1. ALL BALL RETAINER CLIPS ARE SUPPLIED WITH LOAD BALLS.
2. A PROVING RING BOSS MUST HAVE A BALL SEAT IF A LOADING BALL IS TO BE USED. SEE INSTRUCTIONS SUPPLIED WITH THE PROVING RING FOR DIMENSIONS OF BALL SEATS FOR PROVING RINGS. ADVISE SERIAL NUMBER OF PROVING RING WHEN ORDERING RETAINER CLIPS.
3. LOAD BALLS ARE MADE OF HARDENED CHROME ALLOY STEEL. NEVER USE A CARBIDE BALL.

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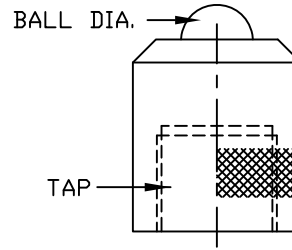
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**LOAD CELL BALL ADAPTORS
(FOR USE WITH LOAD CELLS THAT HAVE EXTERNAL THREADS)**

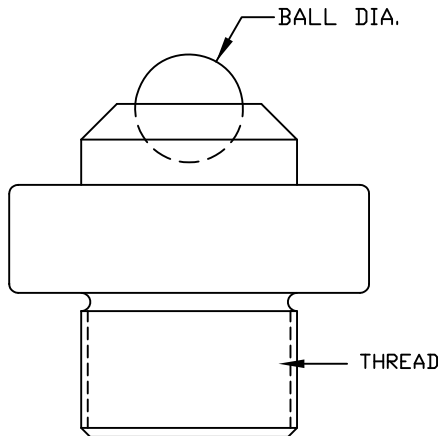
'TAP'	PART NO.	BALL DIA.	MAXIMUM CAPACITY
1/2-20	600082.01	5/16"	2,000 LBF.
5/8-18	600082.02	3/8"	10,000 LBF.
1-14	600082.11	7/16"	25,000 LBF.
1 1/4-12	600082.03	5/8"	60,000 LBF.
1 1/2-12	600082.15	5/8"	60,000 LBF.
1 3/4-12	600082.04	7/8"	100,000 LBF.
2-12	600082.14	7/8"	120,000 LBF.
2 3/4-8	600082.16	1 3/4"	200,000 LBF.
M16 x 1.5	600082.05	3/8"	5,000 LBF.
M16 x 2	600082.12	3/8"	12,000 LBF.
M20 x 1.5	600082.06	3/8"	12,000 LBF.
M30 x 2	600082.07	5/8"	25,000 LBF.
M39 x 2	600082.08	5/8"	50,000 LBF.
M42 x 3	600082.13	7/8"	115,000 LBF.
M72 x 4	600082.09	7/8"	115,000 LBF.



IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

**LOAD CELL BALL ADAPTORS
(FOR USE WITH LOAD CELLS THAT HAVE INTERNAL THREADS)**

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.



THREAD	BALL DIA.	CAPACITY	CATALOG NO.
#10-32	3/8	2,000 LBF.	600017.08
1/4-28	3/8	3,300 LBF.	600017.05
5/16-24	3/8	3,300 LBF.	600017.29
3/8-24	3/8	3,300 LBF.	600017.03
7/16-20	3/8	3,300 LBF.	600017.24
1/2-20	3/8	3,300 LBF.	600017.01
5/8-18	7/16	33,000 LBF.	600017.06
3/4-16	7/16	33,000 LBF.	600017.04
7/8-14	7/16	33,000 LBF.	600017.07
1-14	7/16	33,000 LBF.	600017.02
1 1/4-12	5/8	50,000 LBF.	600017.10
1 1/4-12 (LH)	5/8	50,000 LBF.	600017.23
1 1/2-12	5/8	60,000 LBF.	600017.11
1 3/4-12	7/8	100,000 LBF.	600017.12
2-12	7/8	100,000 LBF.	600017.13
2 1/2-12	7/8	100,000 LBF.	600017.14
3-8	7/8	100,000 LBF.	600017.15
4-8	1 1/2	200,000 LBF.	600017.16
M8 x 1	3/8	3,300 LBF.	600017.30
M12 x 1	3/8	3,300 LBF.	600017.20
M12 x 1.25	3/8	3,300 LBF.	600017.26
M12 x 1.75	3/8	3,300 LBF.	600017.25
M16 x 2	7/16	33,000 LBF.	600017.27
M20 x 1.5	7/16	33,000 LBF.	600017.31
M24 x 2	7/16	33,000 LBF.	600017.09
M26 x 1.5	7/16	33,000 LBF.	600017.21
M27 x 2	7/16	33,000 LBF.	600017.28
M30 x 2	5/8	60,000 LBF.	600017.17
M33 x 2	5/8	60,000 LBF.	600017.32
M39 x 2	7/16	33,000 LBF.	600017.22
M52 x 3	5/8	60,000 LBF.	600017.18

NOTE:
IF THE LOAD CELL IS TO BE LOADED THROUGH ITS BODY THE LOAD CELL BALL ADAPTOR MUST BE FULLY SCREWED INTO THE LOAD CELL SO ITS SHOULDER IS TIGHT AGAINST THE LOAD CELL BODY. IF THE LOAD CELL IS TO BE LOADED THROUGH ITS THREADS LOOSEN THE LOAD CELL BALL ADAPTOR ONE FULL TURN SO IT IS NOT TOUCHING THE LOAD CELL BODY.

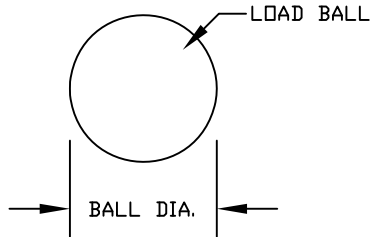
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LOAD BALLS

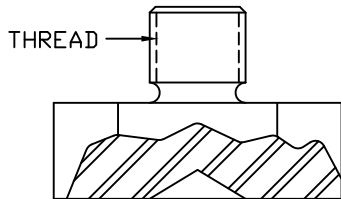


*** - CAPACITY BASED ON LOADING ON A PROPERLY FORMED SEAT

BALL DIA.	***CAPACITY	CATALOG NO.
5/16	5,000 LBF.	600010.13
3/8	3,300 LBF.	600010.01
7/16	33,000 LBF.	600010.02
1/2	40,000 LBF.	600010.11
5/8	66,000 LBF.	600010.03
3/4	70,000 LBF.	600010.12
7/8	120,000 LBF.	600010.04
1	150,000 LBF.	600010.06
1 1/8	120,000 LBF.	600010.10
1 1/4	150,000 LBF.	600010.09
1 1/2	220,000 LBF.	600010.05
1 3/4	220,000 LBF.	600010.07
10 MM	20,000 LBF.	600010.08

LOAD BALL ADAPTOR FOR UNIVERSAL CALIBRATING MACHINE
(USED IN UPPER YOKE OF UNIVERSAL CALIBRATING MACHINE)

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

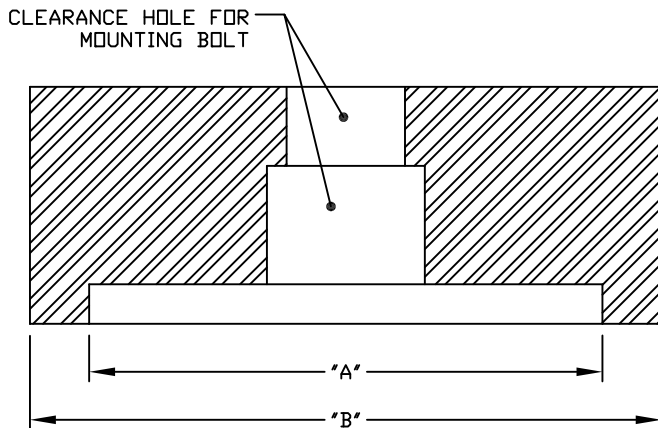


THREAD	FOR BALL DIA.	CAPACITY	CATALOG NO.
1/2-13	3/8 OR 7/16	30,000 LBF.	600006.01
	5/8	60,000 LBF.	600006.07
	1 1/2	200,000 LBF.	600006.08
1/2-20	3/8 OR 7/16	30,000 LBF.	600006.10
	5/8	60,000 LBF.	600006.11
	7/8	100,000 LBF.	600006.12
	1 1/4	150,000 LBF.	600006.18
	1 1/2	200,000 LBF.	600006.09
	1 3/4	200,000 LBF.	600006.13
	3/4-16	30,000 LBF.	600006.06
3/4-16	5/8	60,000 LBF.	600006.02
	7/8	100,000 LBF.	600006.03
	1 1/4	200,000 LBF.	600006.17
	1 1/2	200,000 LBF.	600006.04
	1 3/4	200,000 LBF.	600006.05

NOTE: 10,000 LBF. CALIBRATING MACHINES AND MOST 30,000 LBF. CALIBRATING MACHINES REQUIRE A THREADED LOAD BALL ADAPTOR WITH A 1/2-13 THREAD. MOST OTHER SIZE CALIBRATING MACHINES WILL USE A 3/4-16 THREAD. PLEASE VERIFY THREAD SIZE REQUIRED BEFORE ORDERING.

MOREHOUSE PROVING RING ALIGNMENT BEARING BLOCK

(FOR USE WITH MOREHOUSE PROVING RINGS WITH CAPACITIES)
OVER 200,000 LBF. WHICH DO NOT HAVE BALL SEATS



"A"	"B"	CAPACITY	CATALOG NO.
2.005	3 1/2	300,000 LBF.	600062.01
2.255	3 1/2	300,000 LBF.	600062.02
2.262	4	300,000 LBF.	600062.13
2.289	3 1/2	400,000 LBF.	600062.03
2.505	3 1/2	400,000 LBF.	600062.04
3.005	5	600,000 LBF.	600062.05
3.255	5	800,000 LBF.	600062.06
3.505	5	800,000 LBF.	600062.07
4.005	5	1,200,000 LBF.	600062.08
4.505	6	1,200,000 LBF.	600062.09
5.005	6	1,200,000 LBF.	600062.10
5.118	6	1,200,000 LBF.	600062.11
6.005	7	1,200,000 LBF.	600062.12

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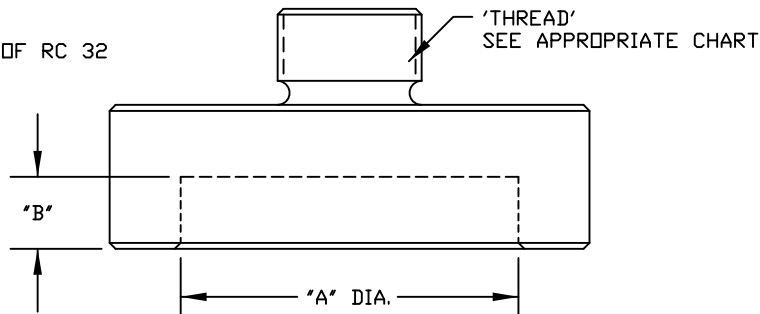
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THREADED ALIGNMENT BEARING BLOCK

USED IN UPPER YOKE OF UNIVERSAL CALIBRATING MACHINE WITH PROVING RINGS, LOAD CELLS, OR OTHER INSTRUMENTS WHICH CANNOT BE LOADED USING A LOAD BALL

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY

ROCKWELL HARDNESS OF RC 32



BLOCK WITH 1/2-13 UNC-2A THREAD			
"A" DIA.	"B"	CAPACITY	CATALOG NO.
3/8	3/16	4,000 LBF.	600069.01
1/2	3/16	8,000 LBF.	600069.02
5/8	1/8	12,000 LBF.	600069.07
3/4	3/16	17,500 LBF.	600069.03
7/8	3/16	20,000 LBF.	600069.06
1	3/16	35,000 LBF.	600069.04
1 1/4	3/16	50,000 LBF.	600069.05
1.345	1/16	60,000 LBF.	600069.08

BLOCK WITH 3/4-16 UNF-2A THREAD			
"A" DIA.	"B"	CAPACITY	CATALOG NO.
3/8	1/8	4,000 LBF.	600043.01
1/2	1/8	8,000 LBF.	600043.02
5/8	1/8	12,000 LBF.	600043.22
3/4	1/8	17,500 LBF.	600043.03
7/8	3/16	20,000 LBF.	600043.15
1.00	3/16	35,000 LBF.	600043.04
1 1/8	3/16	60,000 LBF.	600043.17
1 1/4	3/16	60,000 LBF.	600043.05
1 5/16	3/16	60,000 LBF.	600043.14
1.345	1/16	60,000 LBF.	600043.28
1 1/2	3/16	110,000 LBF.	600043.06
1.575	3/8	110,000 LBF.	600043.18
1 3/4	3/8	110,000 LBF.	600043.07
2.00	3/8	150,000 LBF.	600043.08
2.265	1/2	200,000 LBF.	600043.34
2 5/16	3/8	200,000 LBF.	600043.16
2 3/8	1/16	50,000 LBF.	600043.21
2 1/2	3/8	220,000 LBF.	600043.09
2 5/8	1/16	50,000 LBF.	600043.20
3.00	3/8	330,000 LBF.	600043.10
3.120	1/16	100,000 LBF.	600043.19
3.130	3/8	200,000 LBF.	600043.30
3.165	1/4	220,000 LBF.	600043.31
3 1/2	3/4	480,000 LBF.	600043.11
3 3/4	1/16	500,000 LBF.	600043.29
4 1/2	3/4	800,000 LBF.	600043.12
4.815	1/2	800,000 LBF.	600043.35
5 1/2	1	1,200,000 LBF.	600043.13

BLOCK WITH 3/4-16 UNF-2A THREAD			
"A" DIA.	"B"	CAPACITY	CATALOG NO.
M16	1/8	12,000 LBF.	600043.23
M20	3/16	17,500 LBF.	600043.24
M30	3/16	60,000 LBF.	600043.25
M37	1/4	60,000 LBF.	600043.36
M39	1/4	110,000 LBF.	600043.26
M48	1/4	60,000 LBF.	600043.37
M72	3/8	200,000 LBF.	600043.27
M80	3/8	200,000 LBF.	600043.32
M112	1/2	800,000 LBF.	600043.33
M135	1/2	800,000 LBF.	600043.38

NOTE:
10,000 LBF. CALIBRATING MACHINES AND MOST 30,000 LBF. CALIBRATING MACHINES REQUIRE A THREADED ALIGNMENT BEARING BLOCK WITH A 1/2-13 THREAD. MOST OTHER SIZE CALIBRATING MACHINES WILL USE A 3/4-16 THREAD. PLEASE VERIFY THREAD SIZE REQUIRED BEFORE ORDERING.

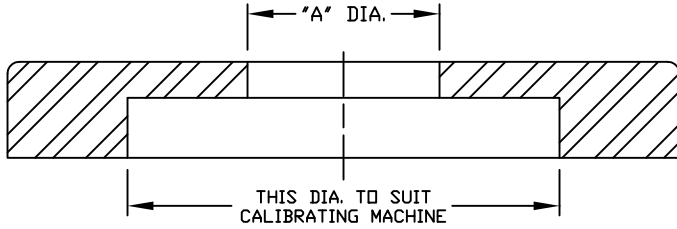
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PROVING RING ALIGNMENT BUSHING



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	604421.01
3/4	604421.02
7/8	604421.03
1	604421.04
1 5/64	604421.08
1 1/8	604421.05
1 1/4	604421.06
1 1/2	604421.07
1 25/32	604421.09

60,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	604621.01
3/4	604621.02
7/8	604621.03
1	604621.04
1 5/64	604621.14
1 1/8	604621.05
1 3/16	604621.16
1 1/4	604621.06
1 5/16	604621.07
1 3/8	604621.08
1 1/2	604621.09
1 9/16	604621.10
1 3/4	604621.11
1 25/32	604621.15
2	604621.12
2 1/4	604621.13

150,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	604821.01
3/4	604821.02
7/8	604821.03
1	604821.04
1 5/64	604821.15
1 1/8	604821.05
1 1/4	604821.06
1 5/16	604821.07
1 3/8	604821.08
1 1/2	604821.09
1 9/16	604821.10
1 3/4	604821.11
1 25/32	604821.16
2	604821.12
2 1/4	604821.13
2 1/2	604821.14

30,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	604521.01
3/4	604521.02
7/8	604521.03
1	604521.04
1 5/64	604521.12
1 1/8	604521.05
1 1/4	604521.06
1 1/4 SQ.	604521.14
1 5/16	604521.07
1 3/8	604521.08
1 1/2	604521.09
1 9/16	604521.10
1 3/4	604521.11
1 25/32	604521.13

100,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	604721.01
3/4	604721.02
7/8	604721.03
1	604721.04
1 5/64	604721.15
1 1/8	604721.05
1 1/4	604721.06
1 5/16	604721.07
1 3/8	604721.08
1 1/2	604721.09
1 9/16	604721.10
1 3/4	604721.11
1 25/32	604721.16
2	604721.12
2 1/4	604721.13
2 1/2	604721.14

200,000 LBF. UNIV. CAL. MACHINE	
"A" DIA.	CATALOG NO.
5/8	615321.01
3/4	615321.02
7/8	615321.03
1	615321.04
1 5/64	615321.15
1 1/8	615321.05
1 1/4	615321.06
1 5/16	615321.07
1 3/8	615321.08
1 1/2	615321.09
1 9/16	615321.10
1 3/4	615321.11
1 3/4 SQ.	615321.17
1 25/32	615321.16
2	615321.12
2 1/4	615321.13
2 1/4 SQ.	615321.18
2 1/2	615321.14

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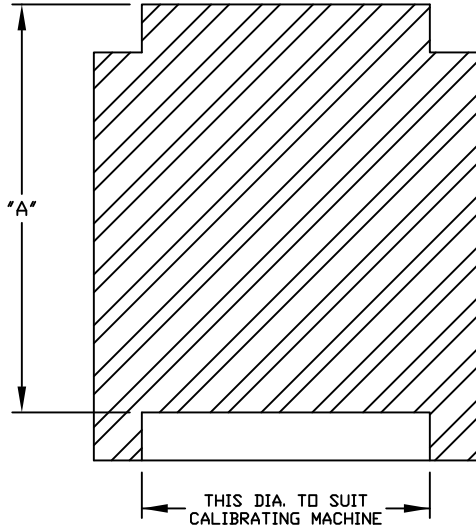
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INTERLOCKING JACK EXTENSION BLOCKS

(THESE BLOCKS ARE USED TO INCREASE THE TENSION AREA AND DECREASE THE COMPRESSION AREA WHEN THE YOKE ADJUSTMENT IS NOT GREAT ENOUGH FOR A PARTICULAR SET-UP. THEY ARE POSITIONED ON TOP OF THE HYDRAULIC JACK'S PISTON.)



IF THE SIZE REQUIRED IS NOT SHOWN OR A CALIBRATING MACHINE WITH A CAPACITY NOT LISTED IS BEING USED CALL MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

10,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	604422.01
1	604422.02
2	604422.03
2 1/2	604422.04
3 1/2	604422.05
4	604422.06
4 1/2	604422.07
5	604422.08
7	604422.11
8 1/2	604422.09
12	604422.10
30,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	604522.01
1	604522.02
1 1/2	604522.03
2	604522.04
2 1/4	604522.05
3	604522.06
3 1/2	604522.07
4	604522.08
4 1/2	604522.09
5	604522.10
5 1/2	604522.11
6	604522.12
6 1/2	604522.13
7	604522.14
9	604522.15

60,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	604622.01
1	604622.02
1 1/2	604622.03
2	604622.04
2 1/4	604622.05
3	604622.06
3 1/2	604622.07
4	604622.08
4 1/2	604622.09
5	604622.10
5 1/2	604622.11
6	604622.12
6 1/2	604622.13
7	604622.14
9	604622.15
100,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	604722.01
1	604722.02
1 1/2	604722.03
2	604722.04
2 1/4	604722.05
3	604722.06
3 1/2	604722.07
4	604722.08
4 1/2	604722.09
5	604722.10
5 1/2	604722.11
6	604722.12
6 1/2	604722.13
7	604722.14
9	604722.15

150,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	604822.01
1	604822.02
1 1/2	604822.03
2	604822.04
2 1/4	604822.05
3	604822.06
3 1/2	604822.07
4	604822.08
4 1/2	604822.09
5	604822.10
5 1/2	604822.11
6	604822.12
6 1/2	604822.13
7	604822.14
9	604822.15
200,000 LBF. UNIV. CAL. MACHINE	
"A"	CATALOG NO.
1/2	615322.01
1	615322.02
1 1/2	615322.03
2	615322.04
2 1/4	615322.05
3	615322.06
3 1/2	615322.07
4	615322.08
4 1/2	615322.09
5	615322.10
5 1/2	615322.11
6	615322.12
6 1/2	615322.13
7	615322.14
8	615322.16
9	615322.15

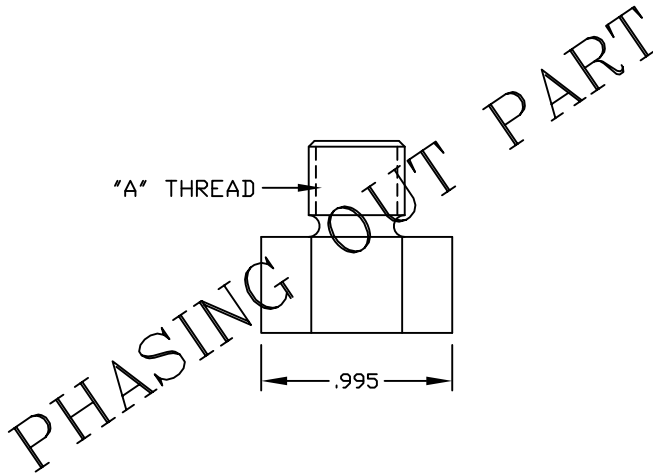
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**LOAD CELL ALIGNMENT PLUGS
FOR USE WITH LOAD CELL ALIGNMENT ADAPTOR (6xxx28)**

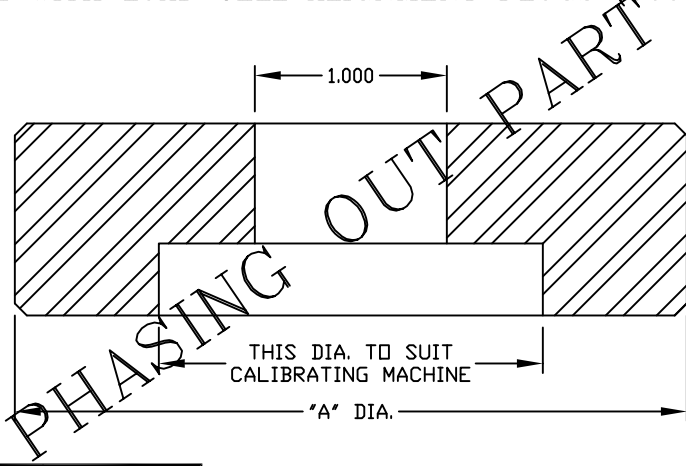


— PHASING OUT PART —
SUBSTITUTE 3/8" ALIGNMENT PLUG
600037.xx (PAGE 34)

"A" THREAD	CATALOG NO.
#10-32	600009.19
1/4-28	600009.01
3/8-16	600009.22
3/8-24	600009.02
7/16-20	600009.23
1/2-20	600009.03
5/8-18	600009.04
3/4-10	600009.17
3/4-16	600009.05
1-12	600009.24
1-14	600009.06
1 1/4-12	600009.07
1 1/2-12	600009.08
1 3/4-12	600009.09
2-12	600009.10
2 1/2-12	600009.11
3-8	600009.12
3-12	600009.25
4-8	600009.13

"A" THREAD	CATALOG NO.
M8 x 1	600009.26
M8 x 1.25	600009.33
M12 x 1	600009.14
M12 x 1.25	600009.27
M12 x 1.75	600009.34
M16 x 1.5	600009.28
M16 x 2.0	600009.35
M20 x 1.5	600009.29
M24 x 2	600009.20
M26 x 1.5	600009.15
M30 x 2	600009.18
M30 x 3.5	600009.30
M39 x 2	600009.16
M39 x 4.0	600009.31
M52 x 3	600009.21
M72 x 4	600009.32

**LOAD CELL ALIGNMENT ADAPTOR
FOR USE WITH LOAD CELL ALIGNMENT PLUGS (600009.xx)**



UNIV. CAL. MACHINE	"A" DIA.	CATALOG NO.
10,000 LBF.	2 1/2	604428.01
10,000 LBF.	3 1/4	604428.02
30,000 LBF.	3 1/4	604528
60,000 LBF.	3 1/4	604628
100,000 LBF.	5	604728
150,000 LBF.	6	604828
200,000 LBF.	7 1/2	615328

— PHASING OUT PART —
SUBSTITUTE HYDRAULIC JACK COMPRESSION BLOCK
6xxx93 (PAGE 34)

NOTE: LOAD CELL ALIGNMENT ADAPTORS MAY BE DRILLED FOR THOSE LOAD CELLS THAT DO NOT HAVE A CENTERED TAPPED HOLE. A BOLT CIRCLE MAY BE ADDED AT ADDITIONAL COST.

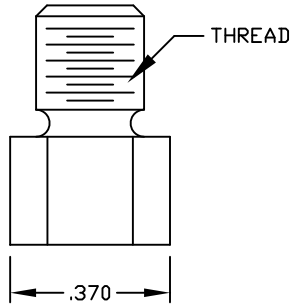
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**LOAD CELL ALIGNMENT PLUG
USE WITH LOAD CELL ALIGNMENT ADAPTOR PLATE (6xxx93)**



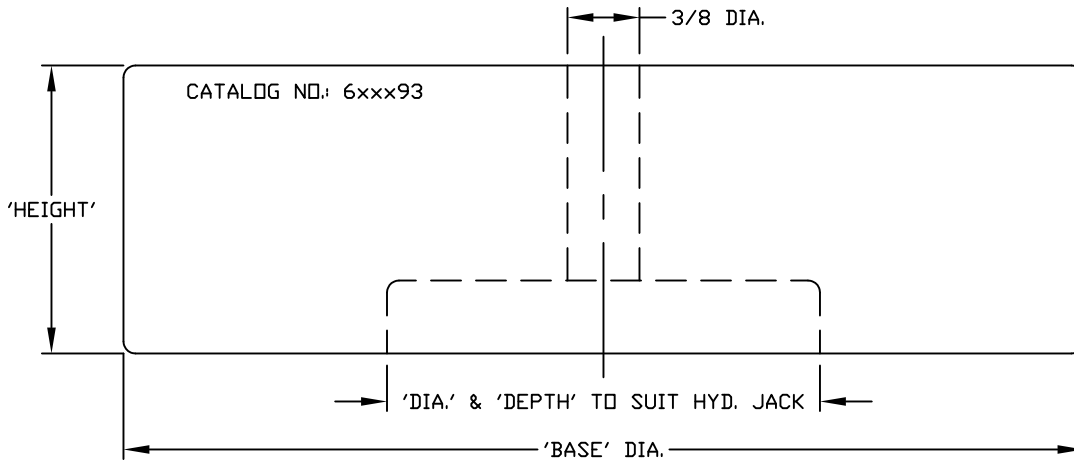
THREAD	CATALOG NO.
#10-32	600037.13
1/4-28	600037.01
5/16-24	600037.32
3/8-16	600037.17
3/8-24	600037.02
7/16-20	600037.33
1/2-20	600037.03
1/2-13	600037.05
5/8-18	600037.06
3/4-10	600037.18
3/4-16	600037.07

THREAD	CATALOG NO.
7/8-14	600037.21
1-12	600037.20
1-14	600037.04
1 1/4-12	600037.08
1 1/2-12	600037.12
1 3/4-12	600037.09
2-12	600037.14
2 1/2-12	600037.16
2 3/4-8	600037.35
3-8	600037.15
3-12	600037.19
3 1/4-12	600037.22
3 1/2-12	600037.40

THREAD	CATALOG NO.
M8 x 1	600037.39
M12 x 1	600037.28
M16 x 1.5	600037.29
M16 x 2	600037.36
M20 x 1.5	600037.23
M24 x 2	600037.10
M30 x 2	600037.24
M36 x 3	600037.34
M39 x 2	600037.30
M42 x 2	600037.37
M42 x 3	600037.25
M52 x 3	600037.11
M64 x 4	600037.26
M72 x 2	600037.38
M72 x 4	600037.31
M90 x 4	600037.27

IF THE SIZE REQUIRED IS NOT SHOWN
CONTACT MOREHOUSE INSTRUMENT CO. DIRECTLY.

**LOAD CELL ALIGNMENT ADAPTOR PLATE
(DESIGNED FOR USE ON TOP OF U.C.M. HYDRAULIC JACK)**



IF THE SIZE REQUIRED IS NOT SHOWN CONTACT
MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

CATALOG NO.	'BASE' DIA.	'HEIGHT'	MAXIMUM CAPACITY	--- MADE FOR ---
604493	2 1/2	1 1/4	10,000 LBF.	<137000> 10,000 LBF. HYD. JACK
604593	4	1 1/4	30,000 LBF.	<138000> 30,000 LBF. HYD. JACK
604693	5	1 1/2	60,000 LBF.	<139000> 60,000 LBF. HYD. JACK
604793	5	1 1/2	100,000 LBF.	<140000> 100,000 LBF. HYD. JACK
604893	6	1 1/2	150,000 LBF.	<202000> 150,000 LBF. HYD. JACK
615393	6 1/2	1 1/2	200,000 LBF.	<154000> 200,000 LBF. HYD. JACK
607493	7 1/2	2	300,000 LBF.	<177000> 300,000 LBF. HYD. JACK
624193	9 1/2	3 1/4	500,000 LBF.	<242000> 500,000 LBF. HYD. JACK
618093	12	3 1/2	1,000,000 LBF.	<179000> 1,000,000 LBF. HYD. JACK

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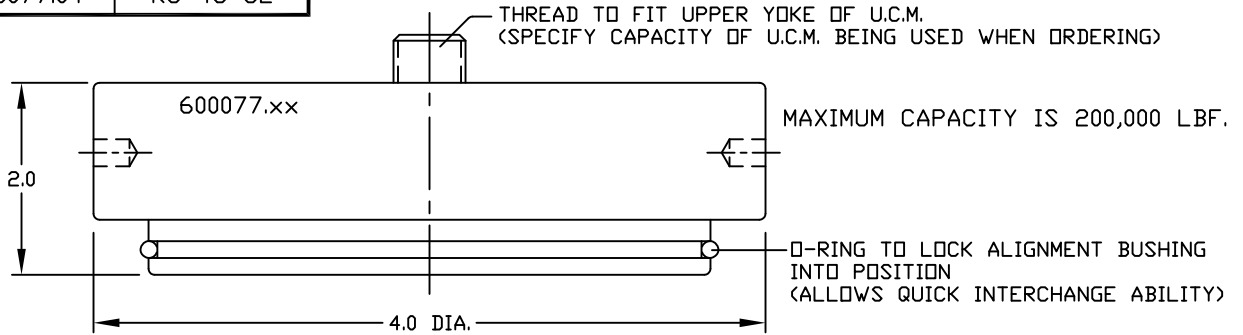
HARDENED BEARING BLOCK FOR UPPER YOKE (4" DIA.)

-- APPLY AN UPPER ALIGNMENT BUSHING (600075.xx) TO BLOCK --

DESIGNED FOR THE FOLLOWING MACHINES:
 10,000 LBF. U.C.M. & 30,000 LBF. U.C.M.
 60,000 LBF. U.C.M. & 100,000 LBF. U.C.M.
 200,000 LBF. U.C.M. & 300,000 LBF. U.C.M.

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT
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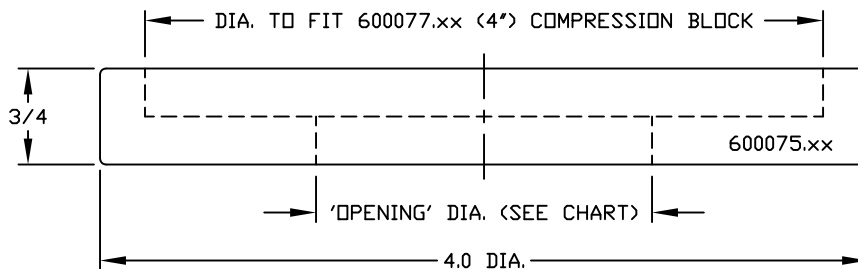
CATALOG NO.	RC HARDNESS
600077.03	RC 28-32
600077.04	RC 48-52



UPPER ALIGNMENT BUSHING

-- USE WITH HARDENED BEARING BLOCK FOR UPPER YOKE (600077.xx) --

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT
 MOREHOUSE INSTRUMENT COMPANY DIRECTLY.



PART NO.	'OPENING'
600075.01	24 MM
600075.02	30 MM
600075.03	42 MM
600075.04	64 MM
600075.05	80 MM
600075.06	90 MM

PART NO.	'OPENING'
600075.07	3/8
600075.08	1/2
600075.09	5/8
600075.10	3/4
600075.11	7/8
600075.12	1
600075.13	1 1/8
600075.14	1 1/4
600075.24	1 5/16
600075.15	1 1/2
600075.16	1 3/4

PART NO.	'OPENING'
600075.17	2
600075.18	2 1/4
600075.25	2 3/8
600075.19	2 1/2
600075.25M	2 5/8
600075.20	2 3/4
600075.21	3
600075.22	3 1/4
600075.23	3 1/2
600075.26	3 3/4

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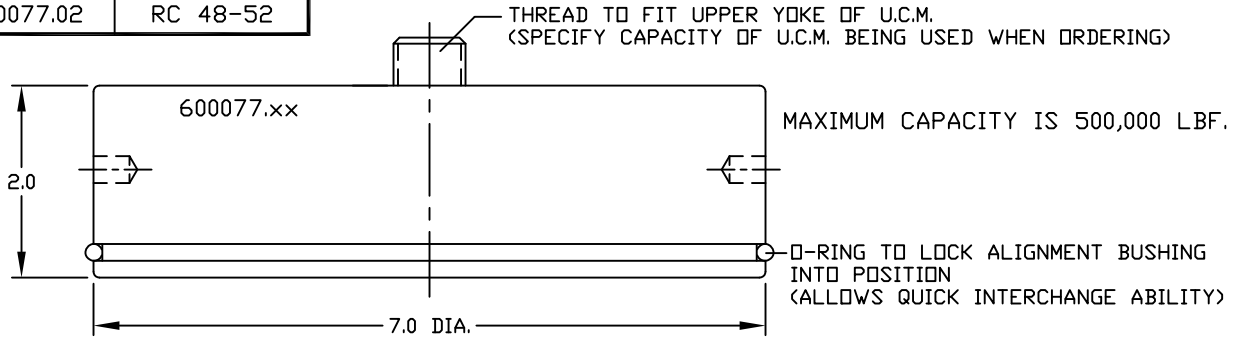
HARDENED BEARING BLOCK FOR UPPER YOKE (7" DIA.)

-- APPLY AN UPPER ALIGNMENT BUSHING (600076.xx) TO BLOCK --

DESIGNED FOR THE FOLLOWING MACHINES:
500,000 LBF. U.C.M. & 1,000,000 LBF. U.C.M.

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT
MOREHOUSE INSTRUMENT COMPANY DIRECTLY.

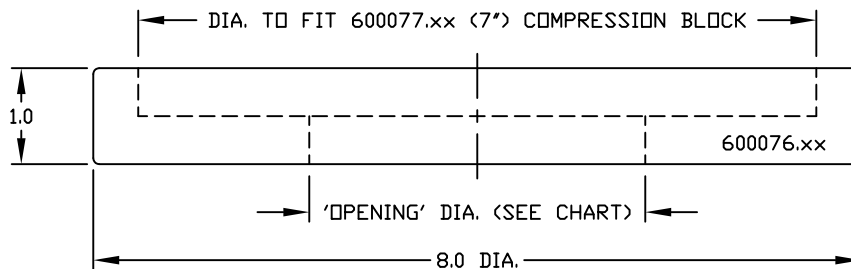
CATALOG NO.	RC HARDNESS
600077.01	RC 28-32
600077.02	RC 48-52



UPPER ALIGNMENT BUSHING

-- USE WITH HARDENED BEARING BLOCK FOR UPPER YOKE (600077.xx) --

IF THE SIZE REQUIRED IS NOT SHOWN CONTACT
MOREHOUSE INSTRUMENT COMPANY DIRECTLY.



PART NO.	'OPENING'
600076.01	30 MM
600076.02	42 MM
600076.03	80 MM
600076.04	110 MM
600076.05	160 MM

PART NO.	'OPENING'
600076.06	1
600076.07	1 1/8
600076.08	1 1/4
600076.09	1 1/2
600076.10	1 3/4
600076.11	2
600076.12	2 1/4
600076.13	2 1/2
600076.14	2 3/4
600076.15	3
600076.16	3 1/4
600076.17	3 1/2
600076.18	3 3/4

PART NO.	'OPENING'
600076.19	4
600076.20	4 1/4
600076.21	4 1/2
600076.22	4 3/4
600076.23	5
600076.24	5 1/4
600076.25	5 1/2
600076.26	5 3/4
600076.27	6
600076.28	6 1/4
600076.29	6 1/2
600076.30	6 3/4

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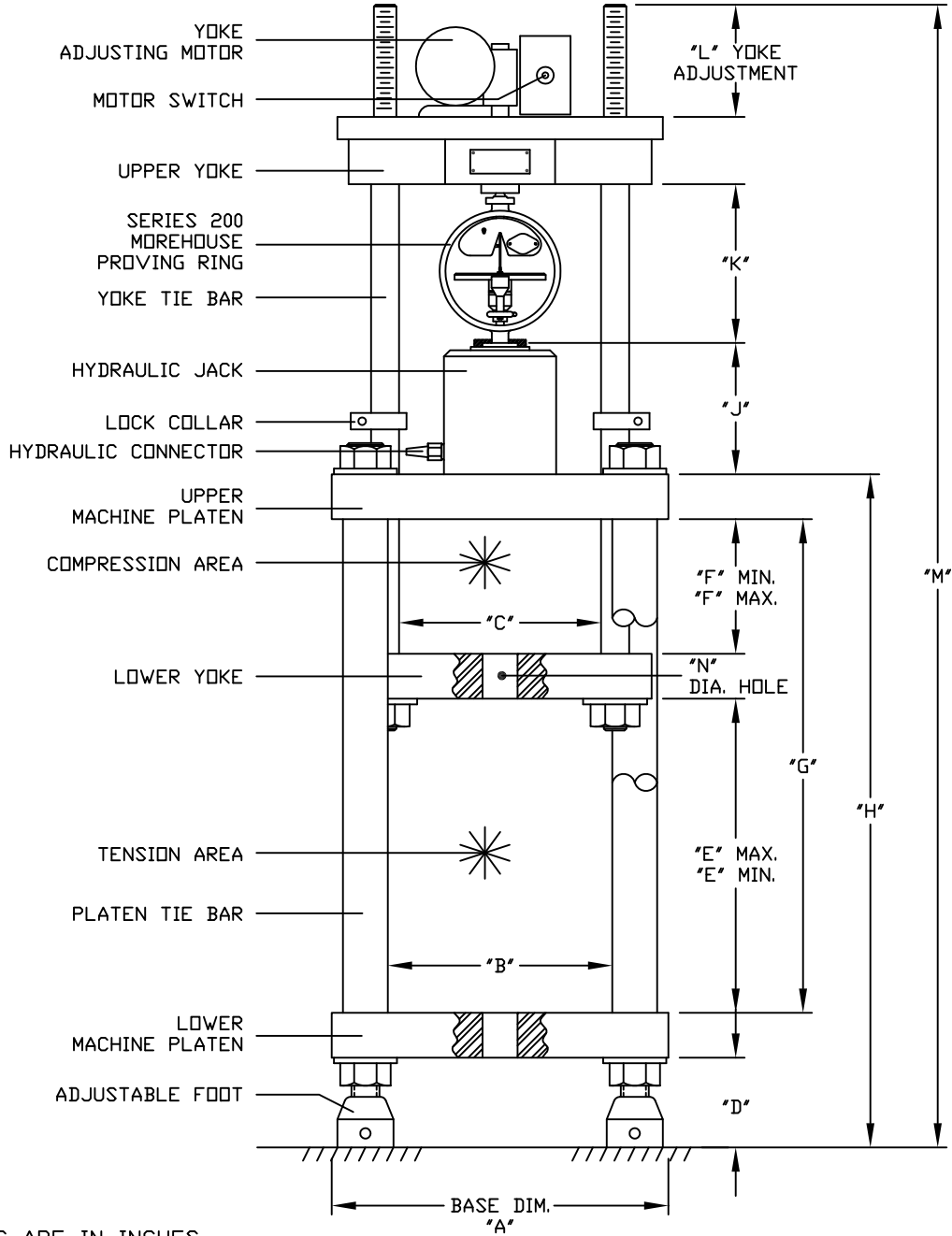
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**MOREHOUSE UNIVERSAL CALIBRATING MACHINES
STANDARD DIMENSIONS**

DIMENSIONS ARE FOR STANDARD MOREHOUSE UNIVERSAL CALIBRATING MACHINES.
 OVER THE YEARS WE HAVE MADE MANY SPECIAL UNIVERSAL CALIBRATING MACHINES
 TO MEET OUR CUSTOMERS REQUIREMENTS. IF THE MACHINE WITH WHICH YOU ARE
 OBTAINING ACCESSORIES AND ADAPTORS IS NOT STANDARD PLEASE CONTACT US
 DIRECTLY.



ALL DIMENSIONS ARE IN INCHES

CAPACITY	'A'	'B'	'C'	'D'	'E' MAX.	'E' MIN.	'F' MIN.	'F' MAX.	'G'	'H'	'J'	'K'	'L'	'M'	'N'
10,000 LBF.	12 DIA.	8.09	5.00	3.13	12.0	2.5	1.5	11.0	16.00	21.13	5.50	9.29	9.78	48.91	1.0 DIA.
30,000 LBF.	14 DIA.	8.89	6.25	3.50	16.9	4.0	3.0	16.4	21.50	28.00	6.50	10.91	13.31	62.29	1.0 DIA.
60,000 LBF.	15.5 SQ.	10.125	9.50	6.63	25.0	12.5	0.5	13.0	28.00	38.63	7.75	12.56	12.44	75.06	1 3/16 DIA.
100,000 LBF.	15.5 SQ.	9.500	9.50	6.63	27.5	7.5	1.0	21.0	31.50	43.13	9.00	15.48	20.19	91.98	1 9/16 DIA.
150,000 LBF.	17.5 SQ.	11.500	10.50	7.25	27.5	5.0	2.0	24.5	33.50	46.75	10.50	18.15	22.19	103.40	2 1/16 DIA.
200,000 LBF.	18 SQ.	11.500	11.50	8.50	30.5	10.5	7.0	27.0	42.00	57.50	11.00	18.70	20.22	113.70	2 5/16 DIA.
300,000 LBF.	22 SQ.	15.000	15.00	8.00	40.0	20.5	11.5	31.0	46.00	62.00	11.75	20.56	19.77	123.19	2 3/4 DIA.
400,000 LBF.	24 SQ.	17.000	16.00	8.00	31.0	4.0	3.5	30.5	43.00	60.00	14.63	22.15	26.80	135.78	4 1/16 DIA.
500,000 LBF.	27 SQ.	19.000	19.00	8.25	32.0	7.0	3.5	28.5	44.00	61.25	14.25	23.50	25.15	137.38	4.0 DIA.
1,000,000 LBF.	36.5 SQ.	24.000	25.00	12.00	38.0	11.5	9.5	36.5	58.00	85.00	17.00	29.75	26.75	174.63	5 1/2 DIA.

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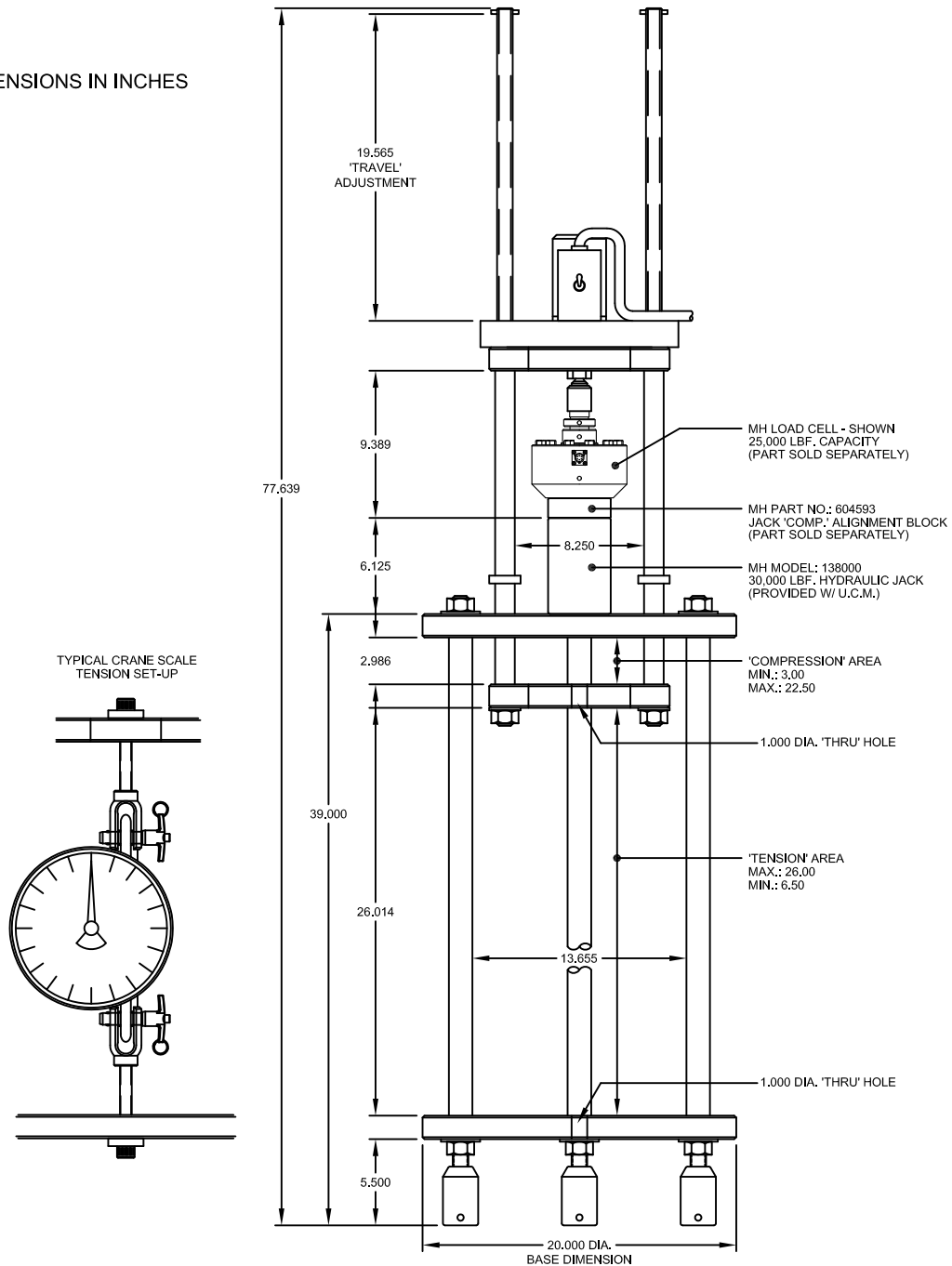
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**MOREHOUSE UNIVERSAL CALIBRATING MACHINE OF SPECIAL SIZE
(TO BETTER ACCOMMODATE LARGER SIZE CRANE SCALES)**

MODEL #678(B)000: 30,000 LBF. UNIVERSAL CALIBRATING MACHINE

ALL DIMENSIONS IN INCHES



THIS 30,000 LBF. U.C.M. IS OF SPECIAL SIZE OVER THE STANDARD MODEL TO ACCOMMODATE LARGER CRANE SCALE TEST INSTRUMENTS. THIS U.C.M. HAS A LARGER PLATEN DIA. OF 20" PROVIDING A WIDER OPENING FOR TEST INSTRUMENTS. THE U.C.M. ALSO HAS LONGER PLATEN BARS TO PROVIDE A LARGER TENSION SPACE OPENING FOR TEST INSTRUMENTS.

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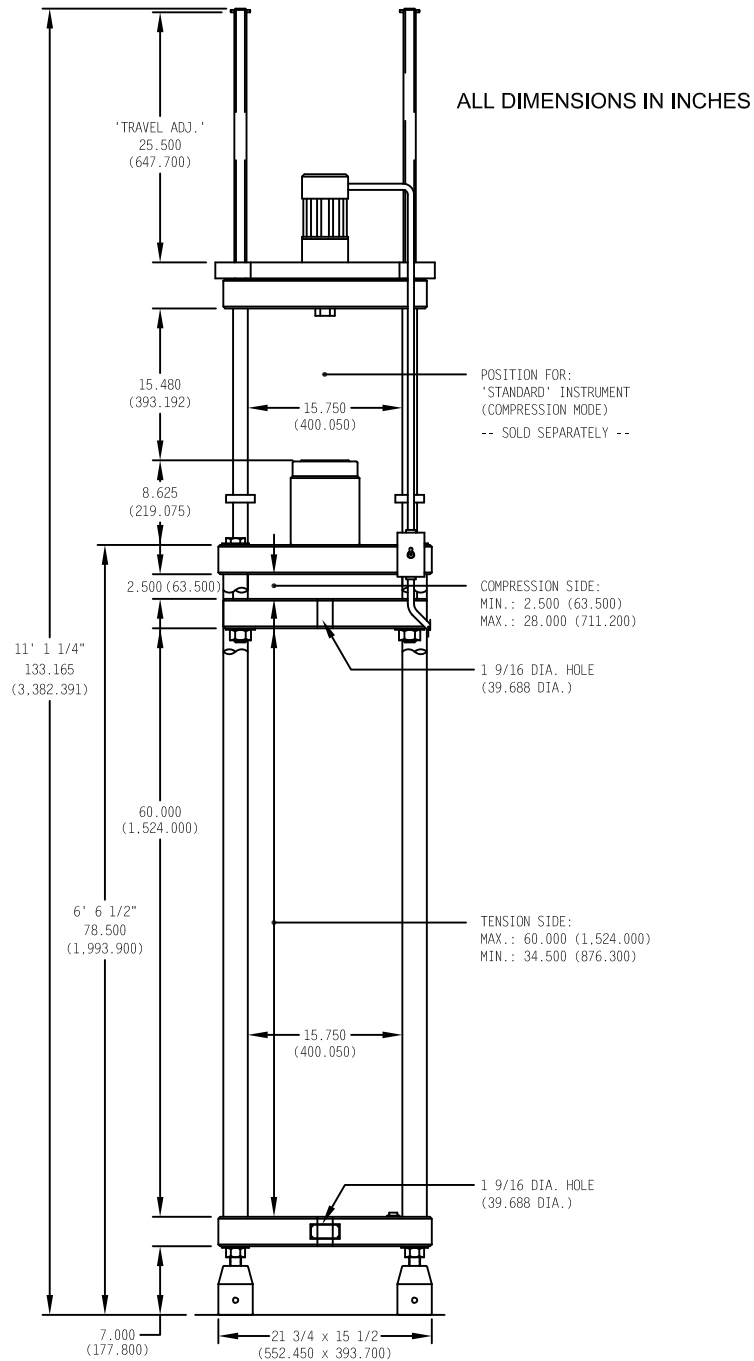
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**MOREHOUSE UNIVERSAL CALIBRATING MACHINE OF SPECIAL SIZE
(TO BETTER ACCOMMODATE LARGER SIZE TEST INSTRUMENTS)**

MODEL #47(B)000: 100,000 LBF. UNIVERSAL CALIBRATING MACHINE



THIS 100,000 LBF. U.C.M. IS OF SPECIAL SIZE OVER THE STANDARD MODEL TO ACCOMMODATE LARGER TEST INSTRUMENTS. THIS U.C.M. HAS A LARGER RECTANGULAR PLATEN PROVIDING A WIDER OPENING FOR TEST INSTRUMENTS. THE U.C.M. ALSO HAS LONGER PLATEN BARS TO PROVIDE A LARGER TENSION SPACE OPENING FOR TEST INSTRUMENTS.

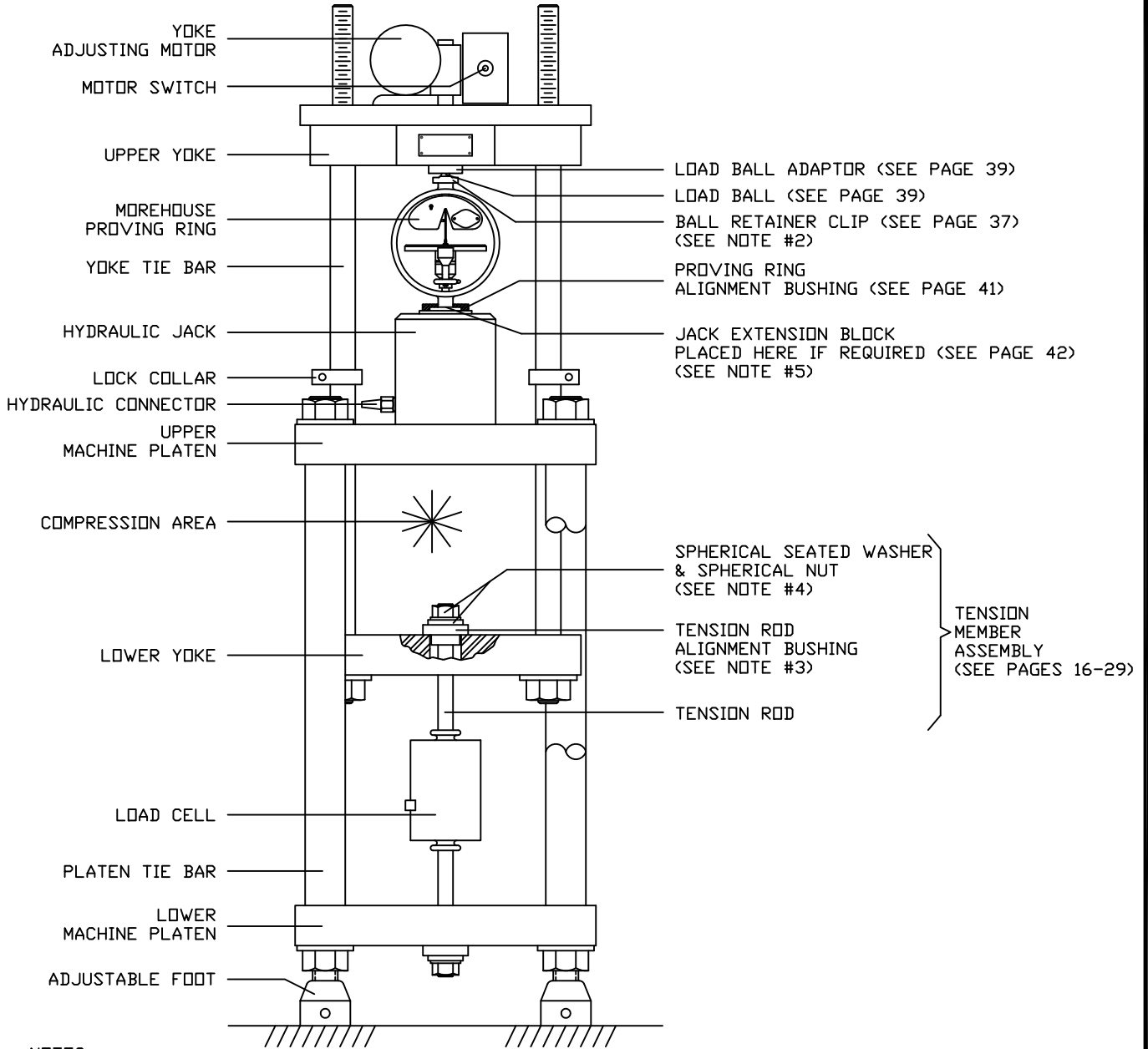
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TYPICAL TENSION SET-UP FOR A LOAD CELL



NOTES:

1. THIS DRAWING ILLUSTRATES TYPICAL LOAD CELL CALIBRATION SET-UPS APPLICABLE TO ALL CAPACITY UNIVERSAL CALIBRATING MACHINES.
2. BALL RETAINER CLIPS AND STEEL LOADING BALLS ARE USED FOR PROVING RING CAPACITIES THROUGH 200,000 LBF., PROVING RING ALIGNMENT BLOCKS ARE USED FOR PROVING RING CAPACITIES OVER 200,000 LBF., (SEE PAGE 37 & PAGE 39)
3. TENSION ALIGNMENT BUSHINGS ARE SUPPLIED WITH TENSION MEMBER ASSEMBLIES WHEN THE DIAMETER OF THE TENSION ROD IS SMALLER THAN THE DIAMETER OF THE HOLE IN THE CALIBRATING MACHINE'S PLATEN.
4. SPHERICAL SEATED NUT, WASHER, AND COUPLINGS ARE SUPPLIED WHEN THE TENSION MEMBER ASSEMBLY INTERFACES THE MACHINE PLATEN AND LOAD CELL RESPECTIVELY TO PROVIDE ADDITIONAL ALIGNING CAPABILITIES.
5. JACK EXTENSION BLOCKS ARE USED TO INCREASE THE TENSION AREA AND DECREASE THE COMPRESSION AREA WHEN THE YOKE ADJUSTMENT IS NOT GREAT ENOUGH FOR A PARTICULAR SET-UP. THEY ARE POSITIONED ON TOP OF THE HYDRAULIC JACK'S PISTON BETWEEN THE PISTON AND THE PROVING RING.

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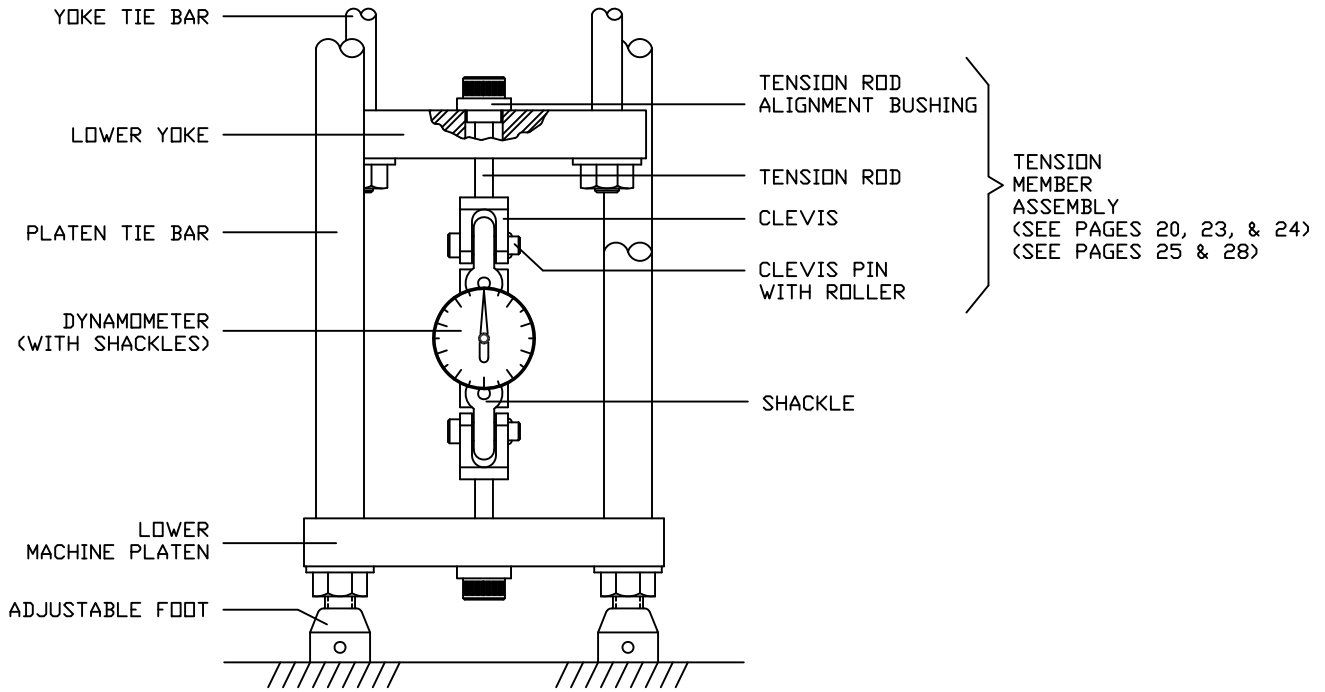
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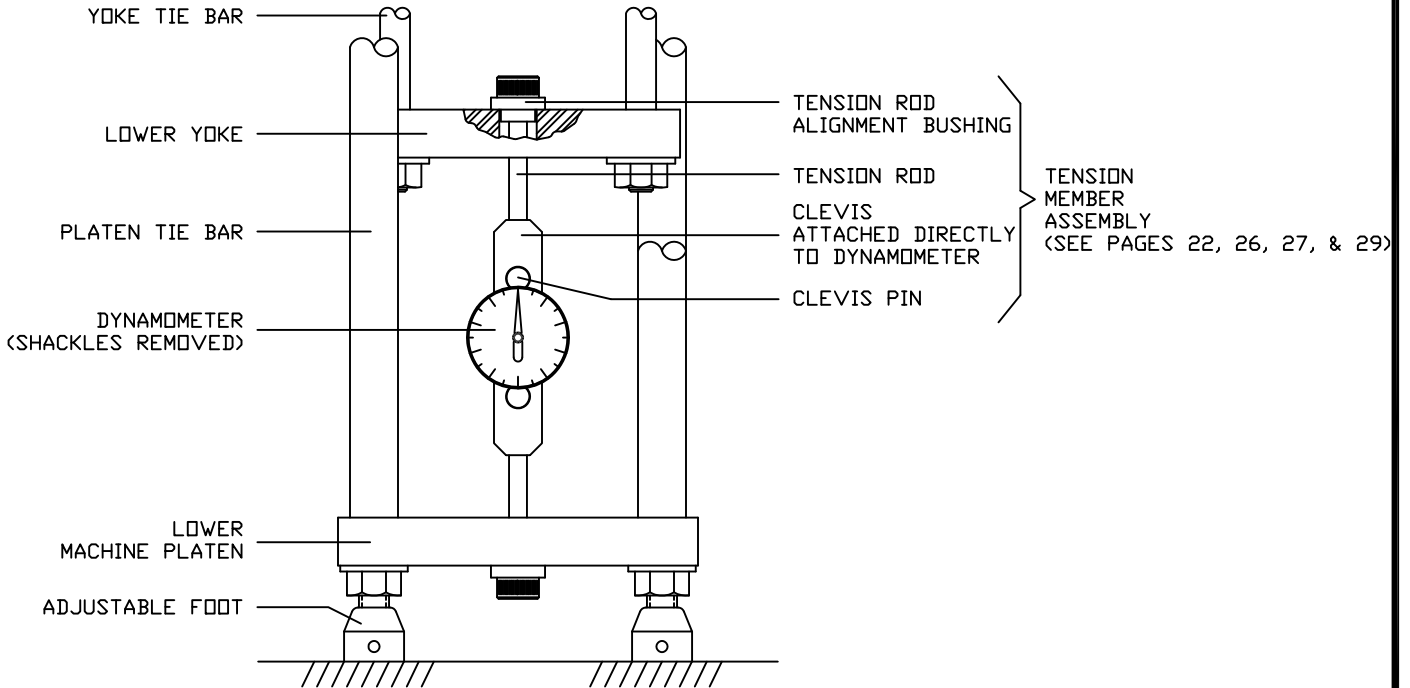
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TYPICAL TENSION SET-UP FOR A DYNAMOMETER

SET-UP WITH SHACKLES



SET-UP WITHOUT SHACKLES



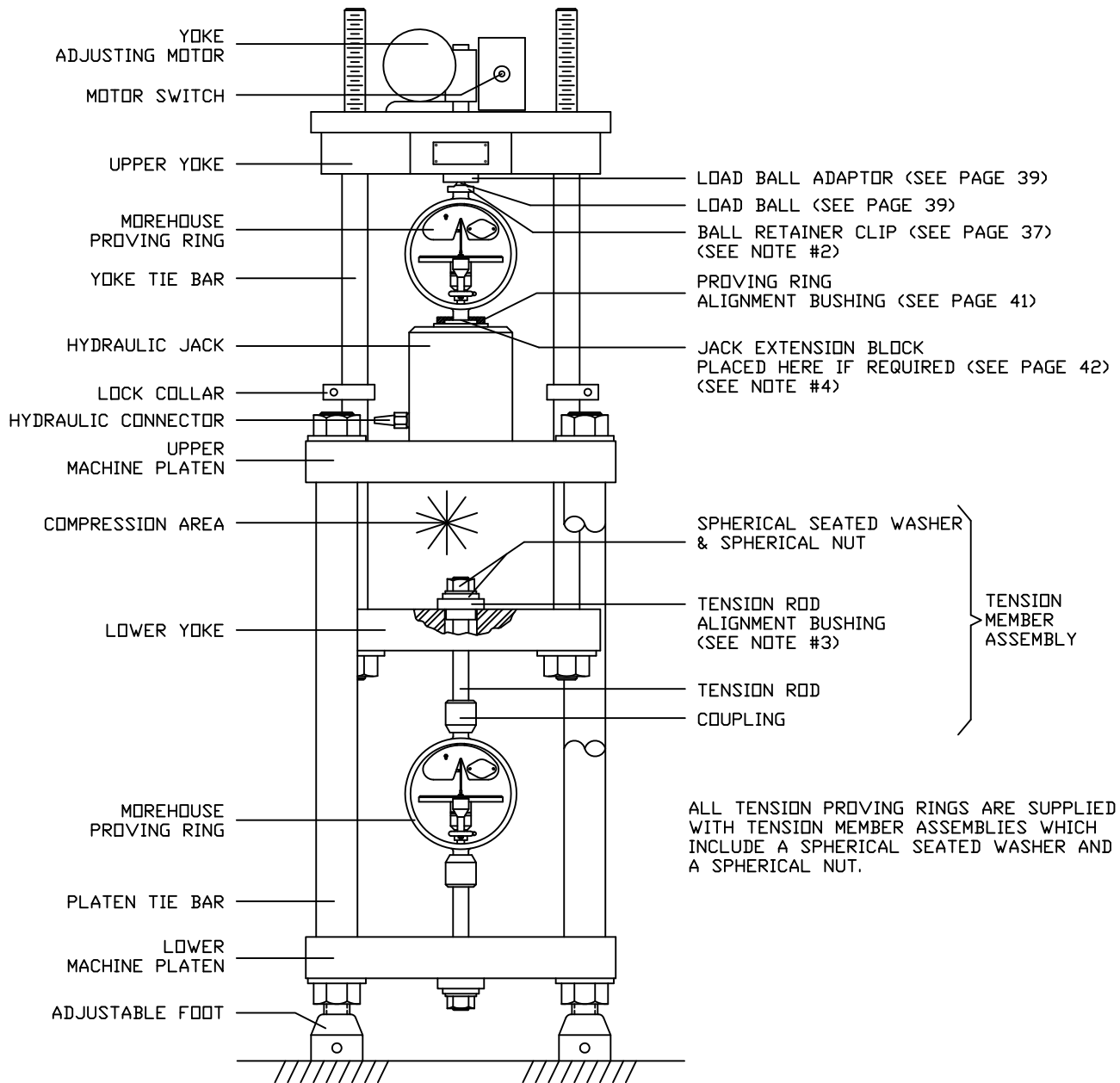
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TYPICAL TENSION SET-UP FOR A MOREHOUSE PROVING RING



NOTES:

1. THIS DRAWING ILLUSTRATES TYPICAL PROVING RING CALIBRATION SET-UPS APPLICABLE TO ALL CAPACITY UNIVERSAL CALIBRATING MACHINES.
2. BALL RETAINER CLIPS AND STEEL LOADING BALLS ARE USED FOR PROVING RING CAPACITIES THROUGH 200,000 LBF.. PROVING RING ALIGNMENT BLOCKS ARE USED FOR PROVING RING CAPACITIES OVER 200,000 LBF.. (SEE PAGE 37 & PAGE 39)
3. TENSION ROD ALIGNMENT BUSHINGS ARE NOT SUPPLIED WITH PROVING RING TENSION MEMBERS. THEY ARE REQUIRED WHEN THE DIAMETER OF THE TENSION ROD IS SMALLER THAN THE DIAMETER OF THE HOLE IN THE CALIBRATING MACHINE'S YOKE AND PLATEN. PLEASE CONTACT MOREHOUSE INSTRUMENT COMPANY TO DETERMINE THE SIZE TENSION ROD ALIGNMENT BUSHING REQUIRED FOR USE WITH THE VARIOUS PROVING RING TENSION MEMBERS.
4. JACK EXTENSION BLOCKS ARE USED TO INCREASE THE TENSION AREA AND DECREASE THE COMPRESSION AREA WHEN THE YOKE ADJUSTMENT IS NOT GREAT ENOUGH FOR A PARTICULAR SET-UP. THEY ARE POSITIONED ON TOP OF THE HYDRAULIC JACK'S PISTON BETWEEN THE PISTON AND THE PROVING RING.

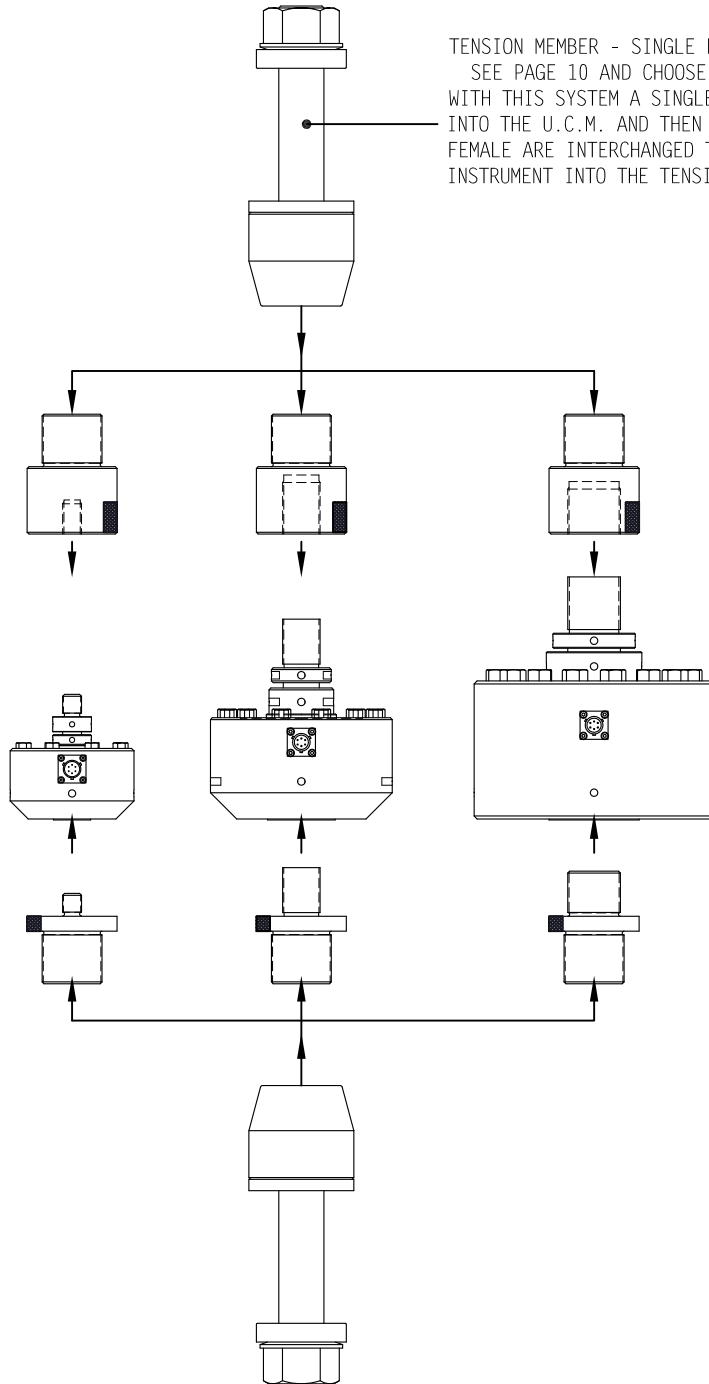
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**MOREHOUSE TENSION MEMBER ADAPTOR KIT
-SHOWN ON PAGES 10 THRU 13 OF THIS BULLETIN-
(A TYPICAL TENSION SET-UP AND USAGE DEMONSTRATION)**



TENSION MEMBER - SINGLE PR. w/ SPHERICAL RADIUS ON TENSION ROD
SEE PAGE 10 AND CHOOSE TENSION MEMBER TO FIT U.C.M. IN USE
WITH THIS SYSTEM A SINGLE TENSION MEMBER ASSEMBLY IS INSTALLED
INTO THE U.C.M. AND THEN MULTIPLE TENSION ADAPTOR BOTH MALE &
FEMALE ARE INTERCHANGED TO ATTACH THE DESIRED SIZE LOAD CELL TEST
INSTRUMENT INTO THE TENSION SET-UP FOR CALIBRATION.

ILLUSTRATION IS SHOWING (3) CASE SITUATIONS
FOR TENSION SET-UP CALIBRATIONS.

AS SHOWN; A SINGLE PAIR OF TENSION MEMBERS CAN
REMAIN FIXED IN THE MACHINE & BY SWAPPING OUT
BOTH MALE & FEMALE TENSION ADAPTOR THREE
DIFFERENT LOAD CELL SIZES CAN BE CALIBRATED IN
THE U.C.M. BY THE USER.

ALSO AS SHOWN; ONE END OF THE TENSION ADAPTOR
ALWAYS HAS THE SAME SIZE THREAD ON IT. SO THAT,
ANY ADAPTOR CHOSEN WILL FIT THE MASTER SIZE
TENSION MEMBER ASSEMBLY.

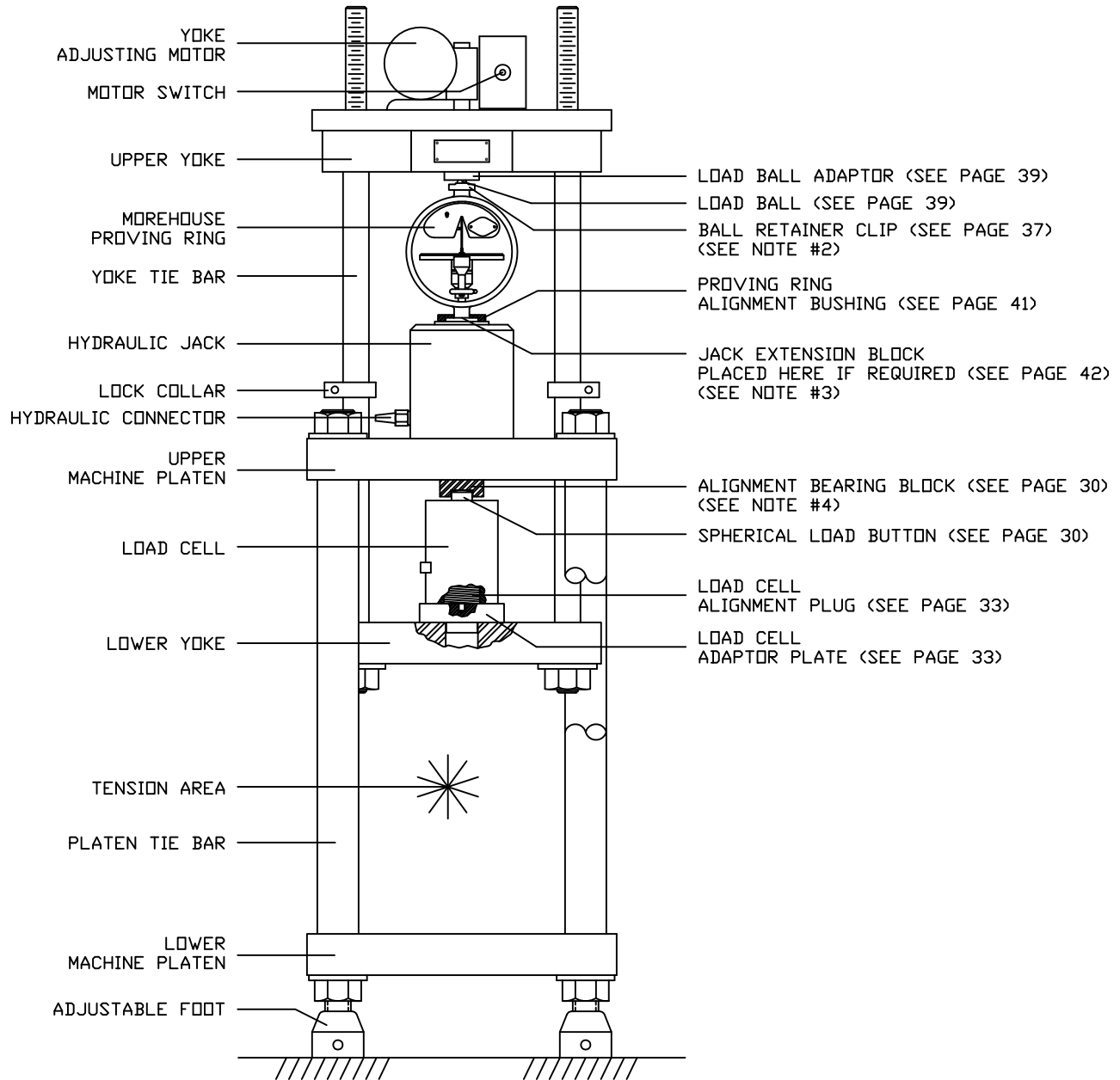
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TYPICAL COMPRESSION SET-UP FOR A LOAD CELL



NOTES:

1. THIS DRAWING ILLUSTRATES TYPICAL LOAD CELL CALIBRATION SET-UPS APPLICABLE TO ALL CAPACITY UNIVERSAL CALIBRATING MACHINES.
2. BALL RETAINER CLIPS AND STEEL LOADING BALLS ARE USED FOR PROVING RING CAPACITIES THROUGH 200,000 LBF., PROVING RING ALIGNMENT BLOCKS ARE USED FOR PROVING RING CAPACITIES OVER 200,000 LBF., (SEE PAGE 37 & PAGE 39)
3. JACK EXTENSION BLOCKS ARE USED TO INCREASE THE TENSION AREA AND DECREASE THE COMPRESSION AREA WHEN THE YOKE ADJUSTMENT IS NOT GREAT ENOUGH FOR A PARTICULAR SET-UP. THEY ARE POSITIONED ON TOP OF THE HYDRAULIC JACK'S PISTON BETWEEN THE PISTON AND THE PROVING RING.
4. WHEN AN ALIGNMENT BEARING BLOCK CANNOT BE USED; SUBSTITUTE A SOFT STEEL PLATE ON TOP OF THE LOAD CELL AND PLACE AN UPPER HARDENED STEEL BEARING PLATE BETWEEN THE SOFT STEEL PLATE AND THE UPPER MACHINE PLATEN. (SEE PAGE 22)

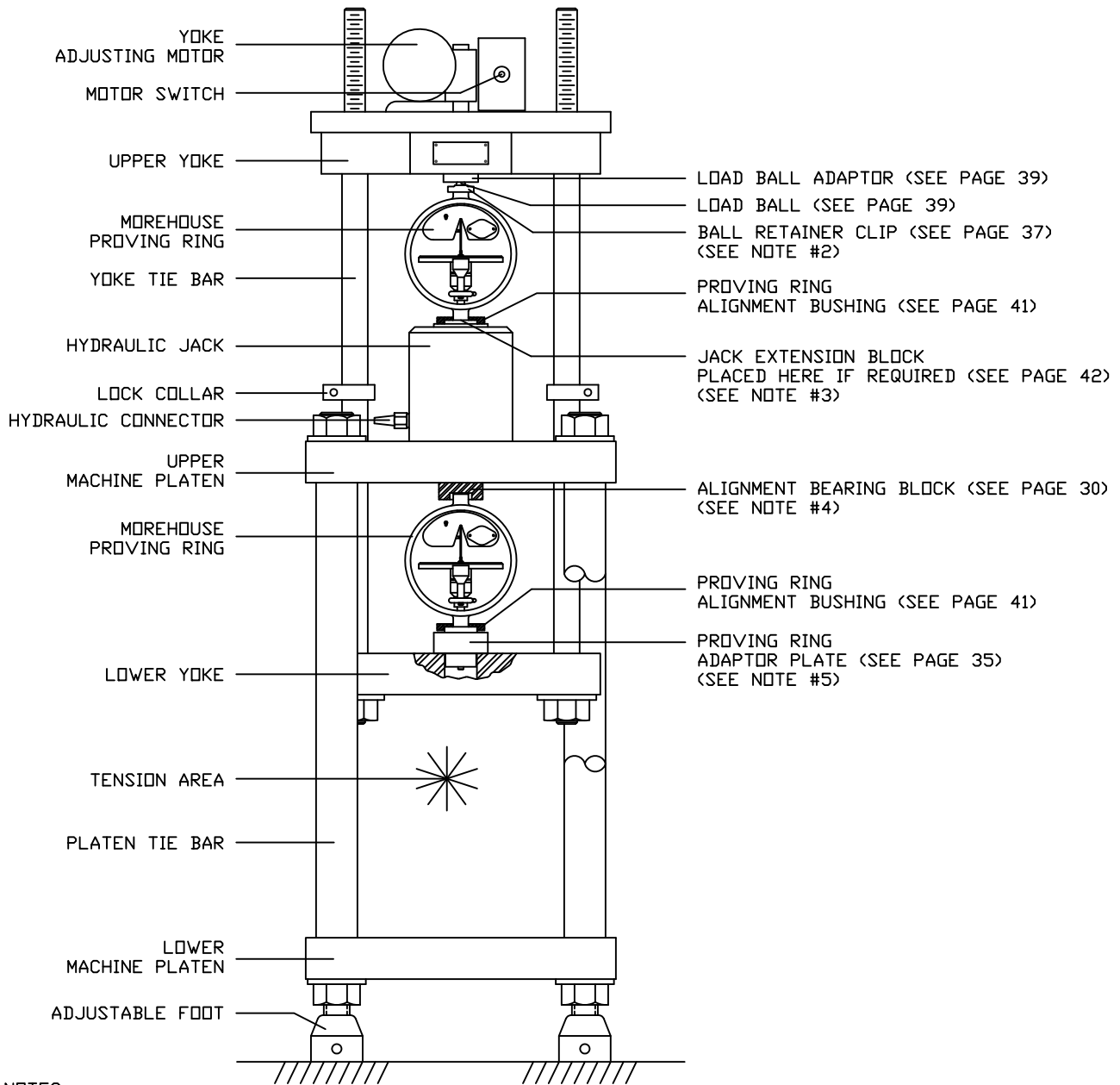
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TYPICAL COMPRESSION SET-UP FOR A MOREHOUSE PROVING RING



NOTES:

1. THIS DRAWING ILLUSTRATES TYPICAL PROVING RING CALIBRATION SET-UPS APPLICABLE TO ALL CAPACITY UNIVERSAL CALIBRATING MACHINES.
2. BALL RETAINER CLIPS AND STEEL LOADING BALLS ARE USED FOR PROVING RING CAPACITIES THROUGH 200,000 LBF., PROVING RING ALIGNMENT BLOCKS ARE USED FOR PROVING RING CAPACITIES OVER 200,000 LBF., (SEE PAGE 37 & PAGE 39)
3. JACK EXTENSION BLOCKS ARE USED TO INCREASE THE TENSION AREA AND DECREASE THE COMPRESSION AREA WHEN THE YOKE ADJUSTMENT IS NOT GREAT ENOUGH FOR A PARTICULAR SET-UP. THEY ARE POSITIONED ON TOP OF THE HYDRAULIC JACK'S PISTON BETWEEN THE PISTON AND THE PROVING RING.
4. WHEN AN ALIGNMENT BEARING BLOCK CANNOT BE USED; SUBSTITUTE A SOFT STEEL PLATE ON TOP OF THE PROVING RING AND PLACE AN UPPER HARDENED STEEL BEARING PLATE BETWEEN THE SOFT STEEL PLATE AND THE UPPER MACHINE PLATEN. (SEE PAGE 30)
5. WHEN A PROVING RING ADAPTOR PLATE CANNOT BE USED, SUBSTITUTE A LOWER HARDENED STEEL BEARING PLATE LARGE ENOUGH TO SAFELY BRIDGE THE HOLE IN THE CALIBRATING MACHINES LOWER YOKE. BE SURE THE LOWER HARDENED STEEL BEARING PLATE IS CENTERED ON THE LOWER YOKE. (SEE PAGE 32)

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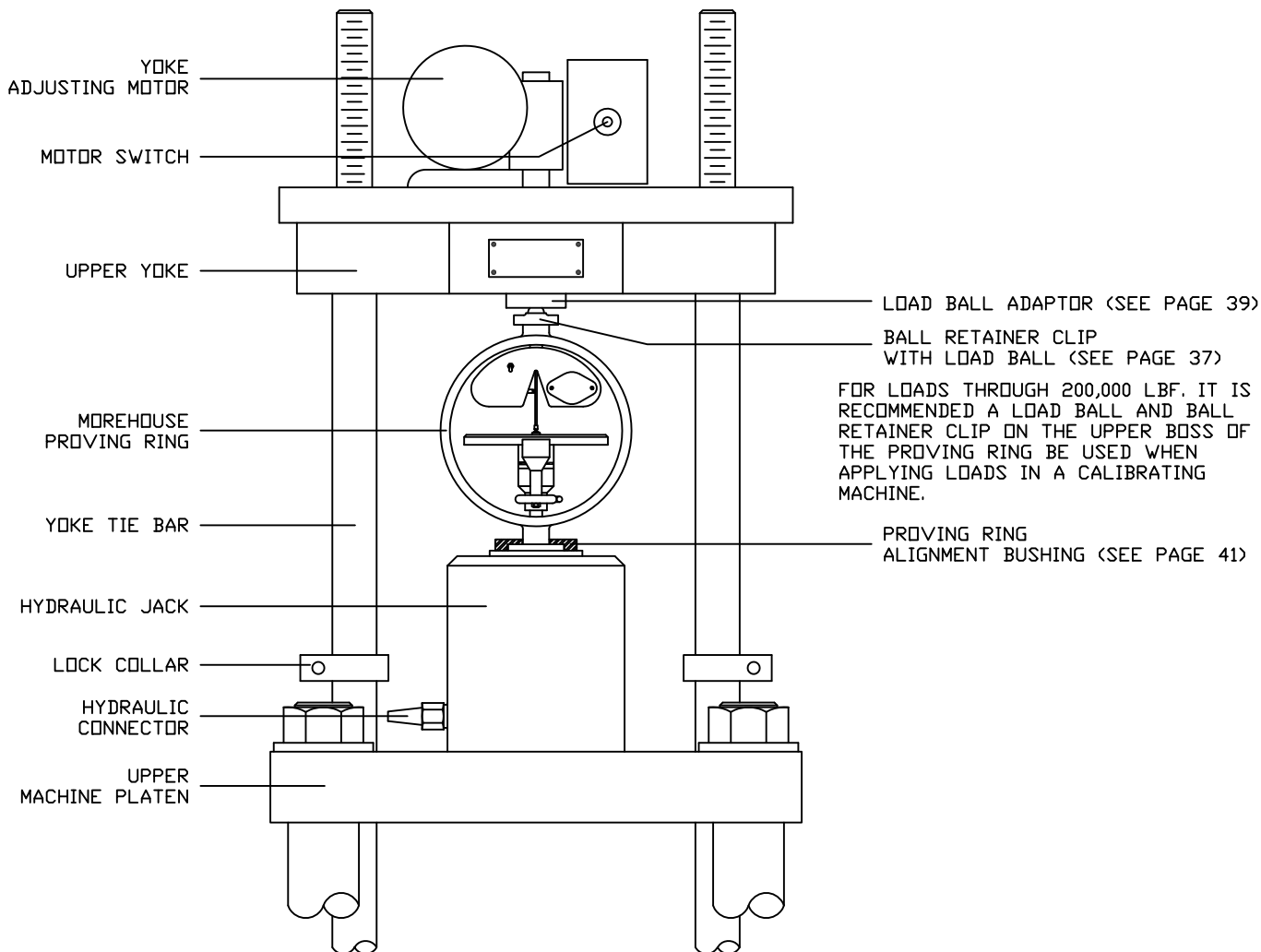
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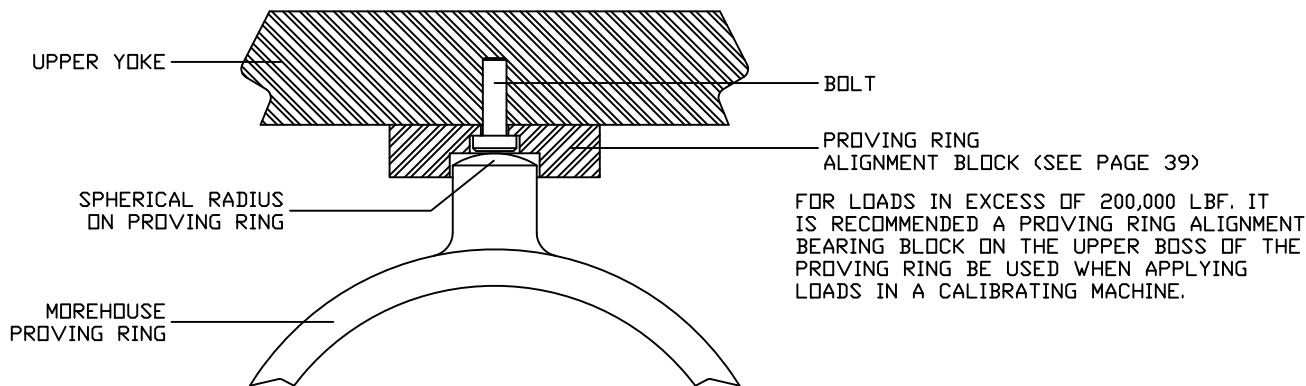
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SET-UP DETAILS USING A MOREHOUSE PROVING RING
AS THE FORCE STANDARD

FOR CAPACITIES THROUGH 200,000 LBF.



FOR CAPACITIES OVER 200,000 LBF.



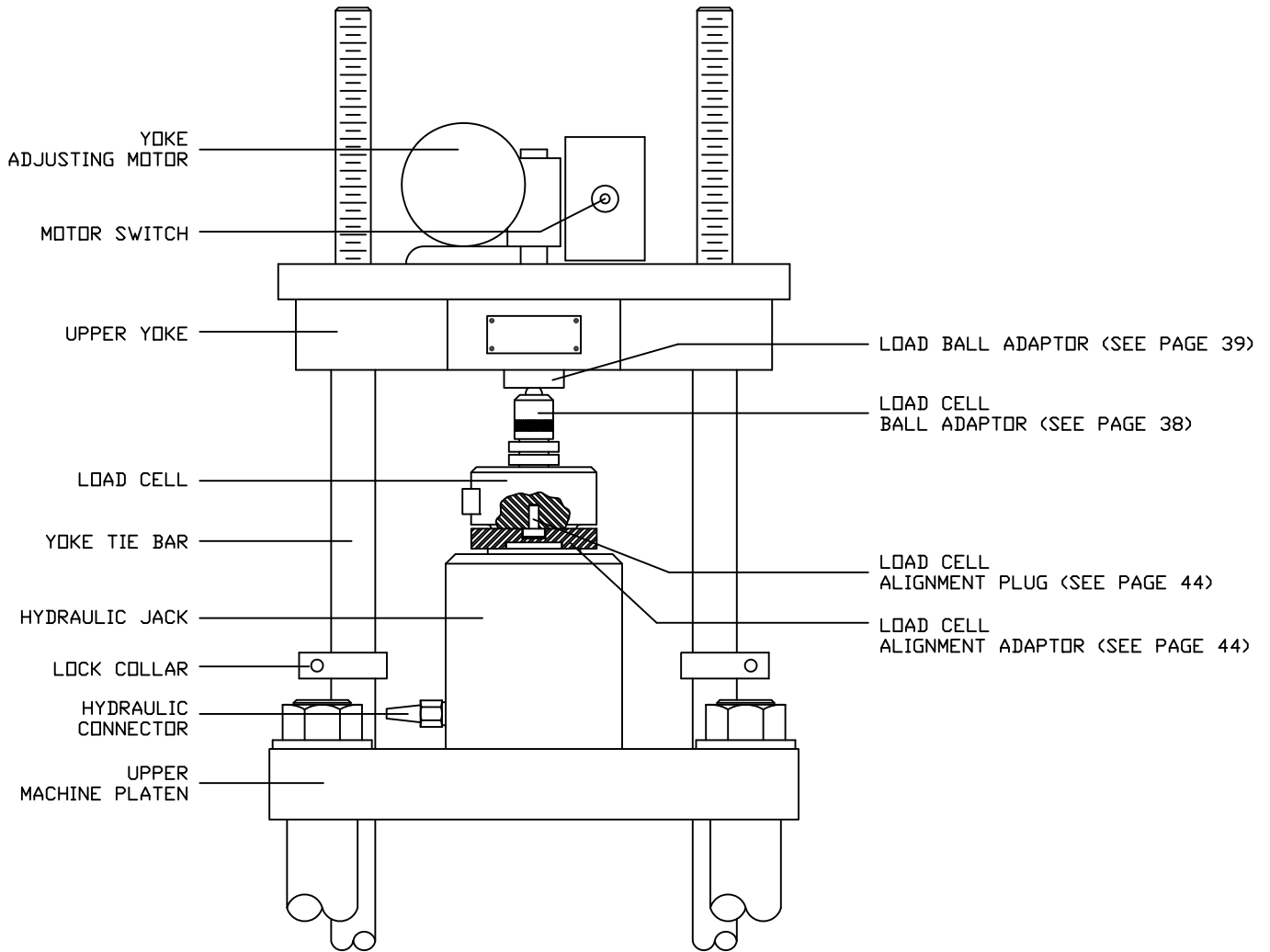
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SET-UP DETAILS USING A MOREHOUSE LOAD CELL AS THE FORCE STANDARD



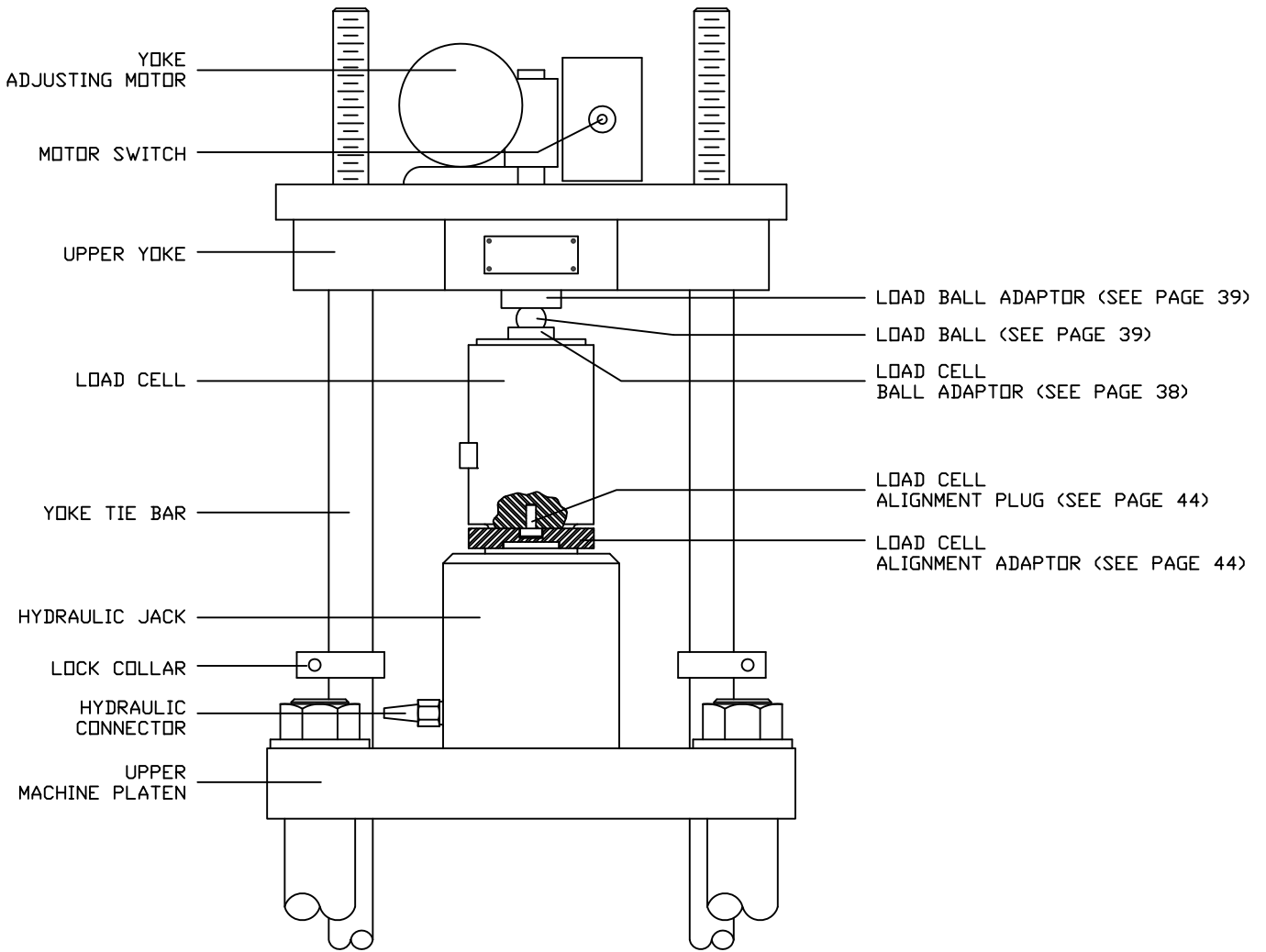
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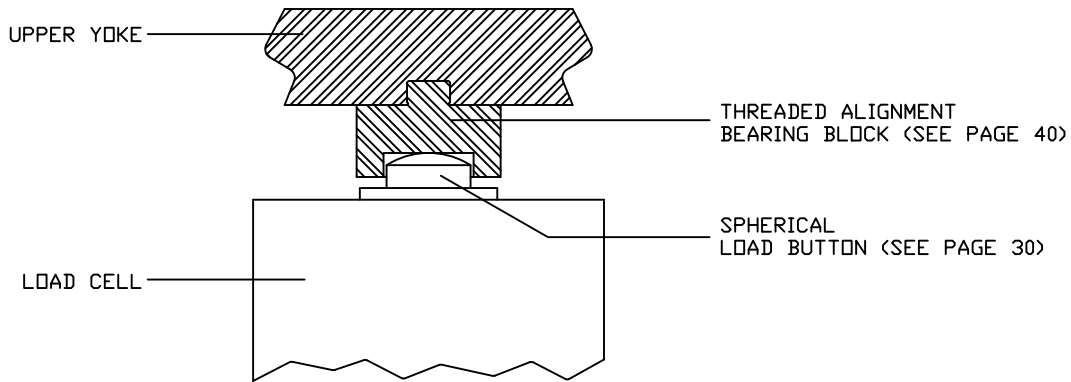
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SET-UP DETAILS
USING OTHER LOAD CELLS AS THE FORCE STANDARD



ALTERNATE SET-UP
(WHEN LOAD BALL CAN NOT BE USED)



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