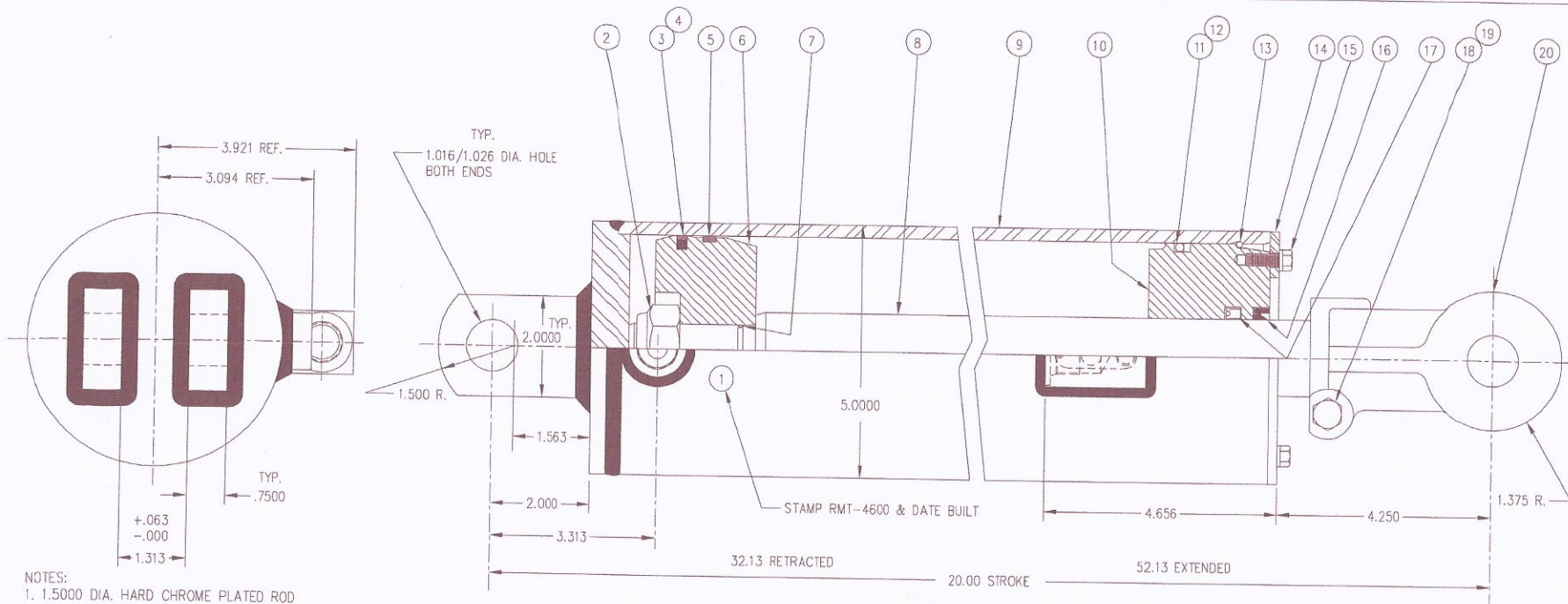
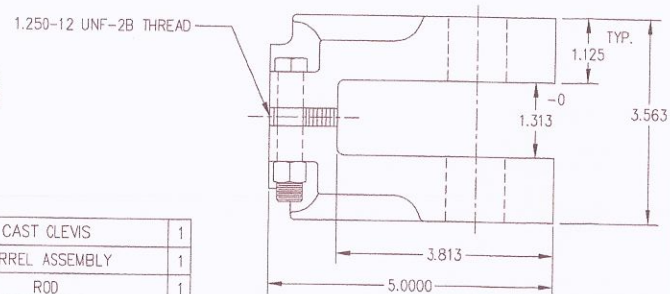


Drawing Approval Required
Sign, Date, and Return to
Rosenboom Machine & Tool, Inc. - Ohio Div.



- NOTES:
1. 1.5000 DIA. HARD CHROME PLATED ROD
 2. .750-16 SAE NO. 8 O-RING PORTS
 3. REPHASING ORIFICE DIA. = .046
 4. 3000 PSI MAXIMUM OPERATING PRESSURE
 5. SEAL KIT NO. 44-4600-S INCLUDES ITEMS 3,4,5,7,11,12,16,
& (1) 30-943
 6. SAFETY FACTORS SHOULD BE 2:1 AT 3000 PSI -
IN RETRACT -
ROD PINEYE = 1.58:1
BASE PINEYE = 0.71:1
ROD THREAD TENSILE = 1.10:1
ROD THREAD TENSILE W/ CONC. = 0.55:1
ROD THREAD SHEAR = 1.33:1
IN EXTEND -
BASE PLATE = 1.62:1
ROD SHOULDER = 0.81:1
ROD BUCKLING = 0.88:1
 7. STATIC TEST AT 3500 PSI IN BOTH DIRECTIONS
 8. PAINT GLOSS BLACK

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ROD SHOULDER = 0.81:1 ROD BUCKLING = 0.88:1 7. STATIC TEST AT 3500 PSI IN BOTH DIRECTIONS 8. PAINT GLOSS BLACK				19	36-3890	CENTERLOCK LOCKNUT	1	20	21-B-16072	CAST CLEVIS	1
				18	25-16154	.375-24 HEX BOLT	1	9	47-16148	BARREL ASSEMBLY	1
				17	29-1067-UR	ROD SEAL	1	8	56-3331	ROD	1
G	30-15174 WAS 30-943, REVISED SLEEVE, REVISED SEAL KIT	5-10-06	DES	16	30-15174	ROD WIPER	1	7	27-948-0	O-RING	1
F	REVISED PISTON	11-13-03	DES	15	25-4584A	CAP SCREW	2	6	45-16149	PISTON	1
E	21-B-16072 WAS 58-16072, 1.58:1 WAS 1.45:1	4-8-03	JLH	14	15-9849	WASHER	1	5	31-10682	WEAR RING	1
C	29-1067-UR WAS 29-959-UR	2-19-03	DES	13	19-1469	LOCKWIRE	1	4	31-16152	PISTON SEAL (TFE)	1
C	3000 PSI WAS 2500, UPDATED SAFETY FACTORS	10-3-02	DES	12	28-866-1	BACKUP	1	3	31-16153	LOADER RING	1
E	1.313 -0 AT ROD CLEVIS WAS 1.375 -0, 1.125 WAS 1.094	8-19-02	DES	11	27-866-0	O-RING	1	2	36-10936	FULL LOCKNUT	1
A	REVISED CLEVIS AND PISTON, UPDATED NOTE 6, 4.656 WAS 4.156	7-23-02	DES	10	46-16150	SLEEVE	1	1	4600	RMT MONTH & YEAR BUILT	-
SYM	REVISION DETAIL	DATE	BY:	REF. NO.	PART NO.	DESCRIPTION	QTY	REF. NO.	PART NO.	DESCRIPTION	QTY

ROSENBOOM MACHINE & TOOL, INC. - OHIO DIV.
BOWLING GREEN, OHIO

TOLERANCES UNLESS OTHERWISE SPECIFIED.
REMOVE ALL BURRS. ANGLES $\pm 2^\circ$.
BREAK ALL CORNERS .010 RADIUS MIN.

DECIMALS .XXXX ± 0.015
.XXX ± 0.063
.XX ± 0.125

F.M.F. 4.50 X 20.00 TRIPLE C, INC.
SCALE 1=1
DATE 6-14-02

TITLE 4.50 BORE X 20.00 STROKE
TRIPLE C, INC.
DWG. NO. 600-4600

BY DES
DWG. NO.

REF. DWG. EN-100-ML
CHKD.