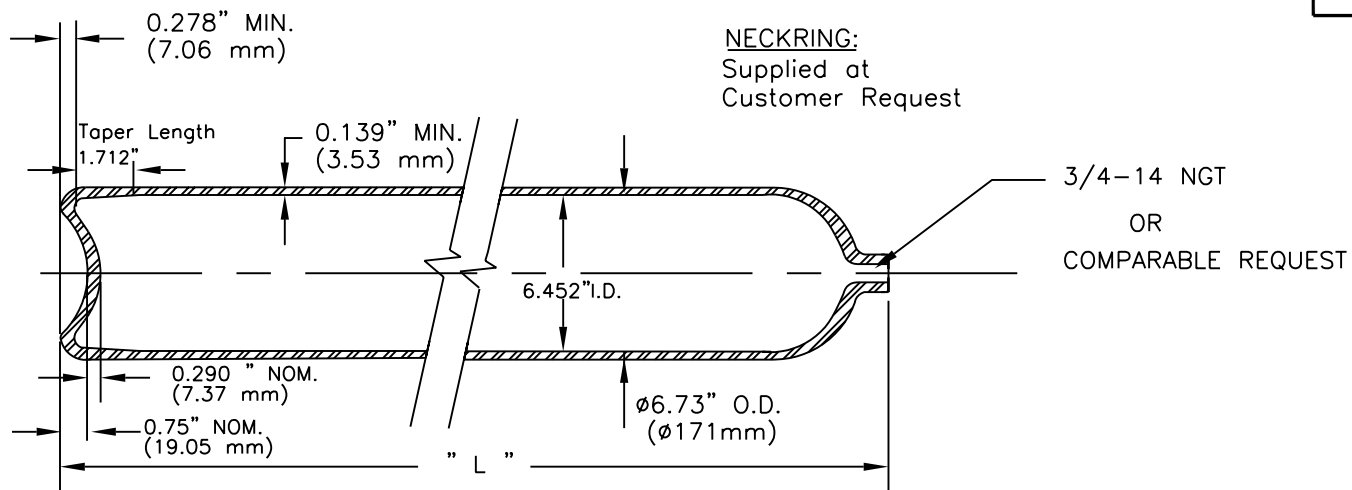



REV.	ECN - DESCRIPT.	DATE	DRWN.	CHKD.	APP.



DRAWING FOR REFERENCE ONLY

SPECIFICATION: DOT 3AA 2015 / TC 3AAM 154	
1. Service Conditions: - DOT Service pressure: 2015psi (138.9 bar) - TC Service pressure: 154 bar - Test pressure: 3360psi (231.7 bar)	3. Manufacture: Plate drawn 4. Heat Treatment: Q & T 5. Mechanical Properties: Tensile, Elongation and Flattening tests in accordance with DOT 3AA specification requirements.
2. Material: Chrome-Moly steel, (A.I.S.I. 4130X)	
D.O.T. Wall Stress Calculations: $S = P(1.3D^2 + 0.4d^2)/(D^2 - d^2)$	
S = Maximum wall stress, psi P = Test pressure, psi D = Outside diameter, inch d = Inside diameter, inch	$S = \frac{3360 [1.3 (6.73)^2 + 0.4 (6.452)^2]}{(6.73)^2 - (6.452)^2}$ $S = 69,254 \text{ psi (477.5 MPa)}$
DOT required Minimum tensile: $\frac{69,254}{0.67} = 103,365 \text{ psi (712.7 MPa)}$	

MODEL	MIN. VOLUME		LENGTH 'L'		APPRX. WGT	
	in ³	liter	in	mm	lbs	kg
7BC40	475	7.8	18.25	464	22	9.98
7BC55	632	10.4	23.5	597	26.3	11.93

 NORRIS CYLINDER COMPANY P.O. BOX 7486 LONGVIEW, TEXAS 75607				
<h2>SMALL HIGH PRESSURE SEAMLESS STEEL CYLINDERS</h2>				
SCALE	NOT TO SCALE	DRAWING NO.		REV.
DWN. BY	RS	11/24/04	901A-A-9653	00
CHK'D BY				
APP'D BY			SHEET NO. 1	OF 1 SHEETS