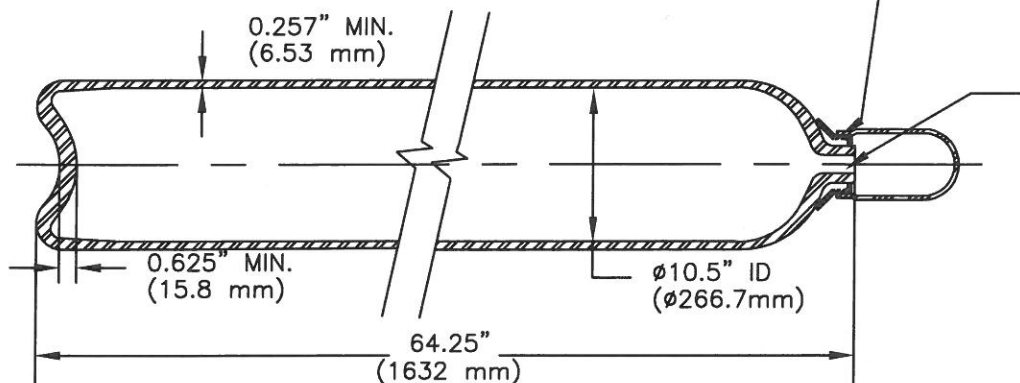


Optional Neck Ring Threads

- 3 1/8-11 UNS Thd.
- 3 1/8-7 UNS Thd.
- 3.147-11 UNS Thd.


REV.	ECN - DESCRIPT.	DATE	DRWN.	CHKD.	APP.
01	1274	1/5/96	BN	RS	BA
02	1305	4/12/96	DL	RS	BA
03	1824	9/13/99			
04	2896	9/02/09	JJM		



3/4-14 NGT (11BC439-3),
 1 -11 1/2 NGT (11BC439-1),
 25E (11BC439-25E FOR TC-SU10088,
 DIN 477 28,8 (11BC439-D for TC-SU10088),
 OR COMPARABLE

DRAWING FOR REFERENCE ONLY

SPECIFICATION: DOT 3AA 2300 / TC 3AAM 176 or TC-SU10088-176	
MODEL: 11BC439	
1. Principal Elements: - Min. water capacity: 180.3 lbs (81.8 kg) - Min. water volume: 5000 in ³ (81.8 liter) - Approx. tareweight: 210 lbs (95.3 kg) - DOT Service pressure: 2300psi (158.6 bar) - TC Service pressure: 176 bar - Test pressure: 3835psi (264.5 bar)	3. Manufacture: Hot billet pierce followed by hot drawing.
2. Material: Chrome-Moly steel, (A.I.S.I. 4130X)	4. Heat Treatment: Q & T 5. Norris Standard Mechanical Properties: - Tensile: ≥ 105,000 psi (724 MPa) - Elong.: ≥ 20% (on 2" gauge) - Flattening: to 6xt without cracks
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 Required Minimum tensile:	$S = \frac{3835 [1.3 (11.014)^2 + 0.4 (10.5)^2]}{(11.014)^2 - (10.5)^2}$ $S = 69,985 \text{ psi (482.5 MPa)}$ $= \frac{69,985}{0.67} = 104,455 \text{ psi (720.2 MPa)}$

		NORRIS CYLINDER COMPANY	
4818 WEST LOOP 281 LONGVIEW, TEXAS 75603 USA			
SEAMLESS STEEL INERGEN CYLINDER, MODEL 11BC439			
SCALE	NOT TO SCALE	DRAWING NO.	REV.
DWN. BY	MBENHAM	1/5/96	901A-B-9264 04
CHK'D BY	RSHAFKEY	1/5/96	
APP'D BY	BARNOLD	1/5/96	SHEET NO. 1 OF 1 SHEETS