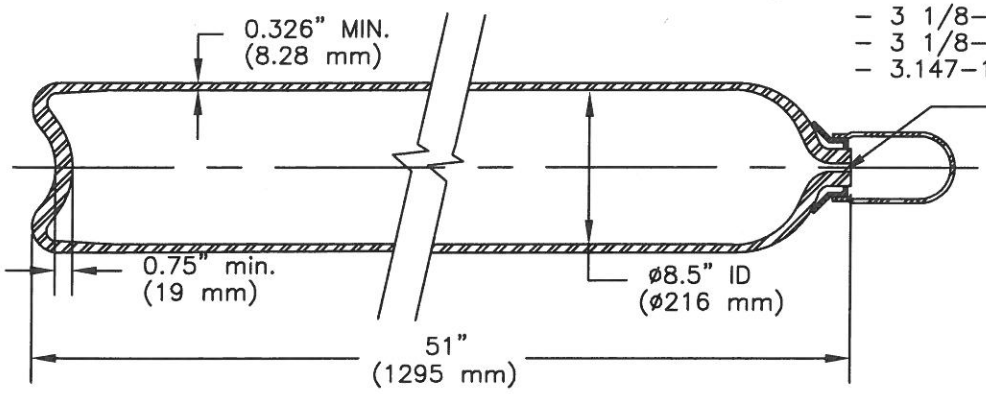
REV.	ECN – DESCRIP.	DATE	DRWN.	CHKD.	APP.
01	1395	1/02/97	T.CRAVEN		
02	ADD TC – 2839	3/25/09	JJM	SAM	
03	2896	9/03/09	JJM		



Optional Neck Ring Threads

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

3/4–14 NGT (8BC340–3),
1 –11 1/2 NGT (8BC340–1),
25E (8BC340–25E FOR TC–SU10088),
DIN 477 28,8 (8BC340–D for TC–SU10088),
OR COMPARABLE

DRAWING FOR REFERENCE ONLY

SPECIFICATION: DOT 3AA 3500 / TC3AAM 268 or TC–SU10088–268

MODEL: 8BC340

1. **Principal Elements:**
   - Min. water capacity: 92.2 lb (41.8 kg)
   - Min. water volume: 2557 in_3 (41.8 liter)
   - Approx. tareweight: 170 lb (77.1 kg)
   - DOT Service pressure: 3500psi (241.3 bar)
   - TC Service pressure: 268.2 bar
   - Test pressure: 5834psi (402.3 bar)
2. **Material:** Chrome–Moly steel, (A.I.S.I. 4130X)
3. **Manufacture:** Hot billet pierce followed by hot drawing.
4. **Heat Treatment: Q & T**
5. **Norris Standard Mechanical Properties:**
   - Tensile: ≥ 105,000 psi
   - 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

$$s = \frac{5834\,[\,1.3\,(9.152)^2 + 0.4\,(8.50)^2\,]}{(9.152)^2 - (8.50)^2}$$

s = 69,845 psi (481.6 N/mm²)

Required Minimum tensile: $= \frac{69{,}845}{0.67} =$ 104,247 psi (718.8 N/mm²)

NORRIS CYLINDER COMPANY
4818 WEST LOOP 281 LONGVIEW, TEXAS USA 75603 USA

REFILLABLE SEAMLESS STEEL GAS CYLINDER, MODEL 8BC340

SCALE	NOT TO SCALE		DRAWING NO.	REV.
DWN. BY	TC	1/2/97	901A–B–9140	03
CHK'D BY	RS	1/2/97		
APP'D BY			SHEET NO. 1 OF 1 SHEETS	