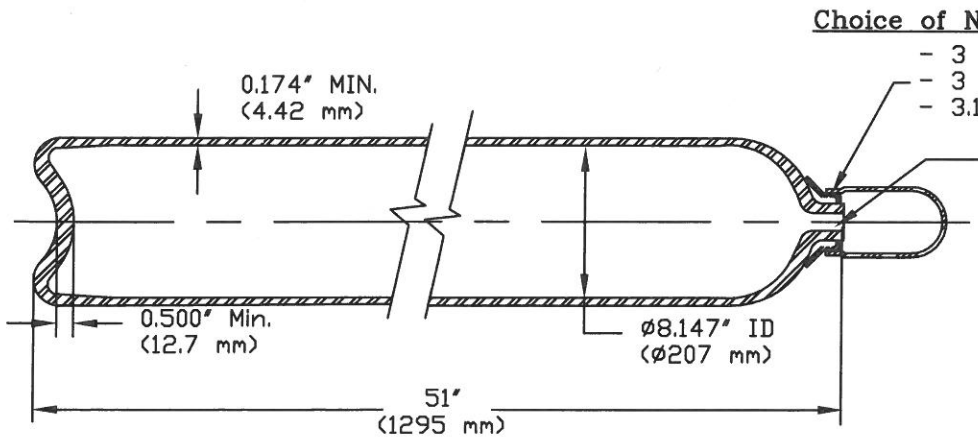
REV.	ECN - DESCRIP.	DATE	DRWN.	CHKD.	APP.
02	1169	10/7/93	M.B.	R.S.	B.A.
03	2292	3/28/03	RS	RS	
04	2896	8/21/09	JJM		



Choice of Neck Ring Threads

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

3/4-14 NGT (8BC200-3),
1 -11 1/2 NGT (8BC200-1),
25E (8BC200-25E FOR TC-SU10088),
DIN 477 28,8 (8BC200-D for TC-SU10088),
OR COMPARABLE

DRAWING FOR REFERENCE ONLY

SPECIFICATION: DOT 3AA 2015/TC3AAM154 or TC-SU10088-154
MODEL: 8BC200

1. Principal Elements:
- Min. water capacity: 86.3 lbs (39.1 kg)
- Min. water volume: 2395 in³ (39.1 liter)
- Approx. tareweight: 101 lbs (45.8 kg)
- DOT Service pressure: 2015psi (138.9 bar)
- TC Service pressure: 154 bar
- Test pressure: 3360psi (231.7 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 (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

$$s = \frac{3360\ [\,1.3\ (8.495)^2 + 0.4\ (8.147)^2\,]}{(8.495)^2 - (8.147)^2}$$

$s = 69{,}832$ psi (481.5 MPa)

Required Minimum Tensile: $= \frac{69{,}832}{0.67} = 104{,}227$ psi (718.6 MPa)

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

SEAMLESS STEEL CARBON DIOXIDE CYLINDER, MODEL 8BC200

SCALE	NOT TO SCALE		DRAWING NO.	REV.
DWN. BY	S. JOHNSON	10/31/91	901A-B-9128	04
CHK'D BY	R. SHAFKEY	11/28/91		
APP'D BY	B. ARNOLD	12/3/91	SHEET NO. 1 OF 1 SHEETS	