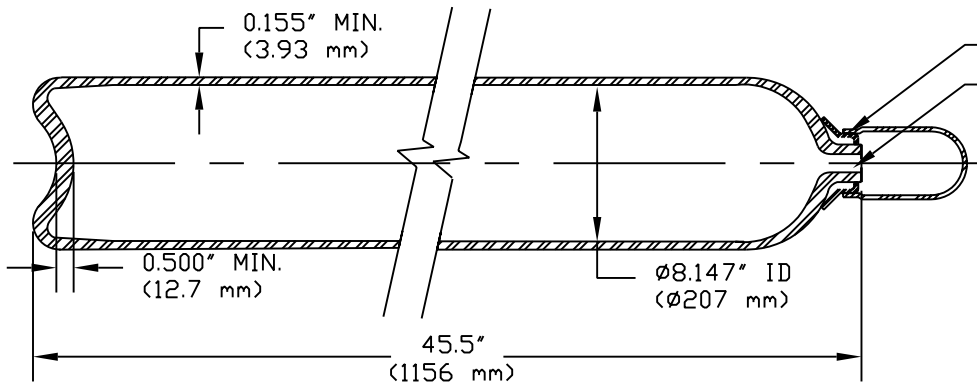


REV.	ECN - DESCIP.	DATE	DRWN.	CHKD.	APP.
01	1168 TC	10/05/93			
02	2307	6/18/03			

Choice of Neck Ring Threads

- 3 1/8-11 UNS Thd.
- 3 1/8-7 UNS Thd.
- 3.147-11 UNS Thd.
- 1-11 1/2 NGT



SEE DUAL DOT/TC
MARKING FOR 8BC200S/TC

**DRAWING FOR
REFERENCE ONLY**

SPECIFICATION: DOT 3AA 1800/TC3AAM138

MODEL: 8BC200S/TC

1. Principal Elements: - Min. water capacity: 73.6 lbs (33.4 kg) - Min. water volume: 2040 in ³ (33.4 liter) - Approx. tareweight: 94 lbs (42.7 kg) - DOT Service pressure: 1800 psi (124 bar) - TC Service pressure: 138 bar - Test pressure: 3000psi (206.9 bar)	3. Manufacture: Hot billet pierce followed by hot drawing.
	4. Heat Treatment: Q & T
2. Material: Chrome-Moly steel, (A.I.S.I. 4130X)	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: $S = P(1.3D^2 + 0.4d^2)/(D^2 - d^2)$

$S = \text{Maximum wall stress, psi}$ $S = \frac{3000 [1.3 (8.457)^2 + 0.4 (8.147)^2]}{(8.457)^2 - (8.147)^2}$
 $P = \text{Test pressure, psi}$
 $D = \text{Outside diameter, inch}$
 $d = \text{Inside diameter, inch}$
 $S = 69,665 \text{ psi (480.3 MPa)}$
 Required Minimum tensile: $= \frac{69,665}{0.67} = 103,978 \text{ psi (716.9 MPa)}$



NORRIS CYLINDER COMPANY

P.O. BOX 7486 LONGVIEW, TEXAS 75607

SEAMLESS STEEL CARBON DIOXIDE
CYLINDER, MODEL 8BC200S/TC

SCALE	NOT TO SCALE	DRAWING NO.		REV.
DWN. BY	S. JOHNSON	10/30/91	901A-B-9125	02
CHK'D BY	R.S.	10/30/91		
APP'D BY	B.A.	10/30/91	SHEET NO. 1	OF 1 SHEETS