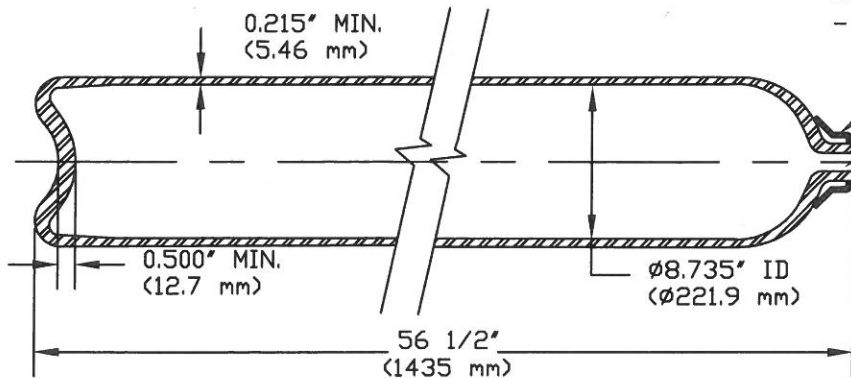


| REV. | ECN - DESCRIP. | DATE | DRWN. | CHKD. | APP. |
|------|----------------|----------|-------|-------|------|
| 01 | 1113 DOT/TC | 4/5/93 | | | |
| 02 | 2308 | 6/18/03 | JM | RS | |
| 03 | 2437 | 10/27/04 | RS | RS | |
| 04 | 2896 | 8/21/09 | JJM | | |

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 (8BC75A-3),
 1 -11 1/2 NGT (8BC75A-1),
 25E (8BC75A-25E FOR TC-SU10088),
 DIN 477 28,8 (8BC75A-D for TC-SU10088),
 OR COMPARABLE

DRAWING FOR REFERENCE ONLY

| | |
|---|--|
| SPECIFICATION: DOT 3AA 2300 / TC3AAM176 or TC-SU10088-176 | |
| MODEL: 8BC75A | |
| 1. Principal Elements: - Min. water capacity: 110.3 lbs (50 kg) - Min. water volume: 3058 in ³ (50 liter) - Approx. tareweight: 136 lbs (61.7 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: | $S = \frac{3835 [1.3 (9.165)^2 + 0.4 (8.735)^2]}{(9.165)^2 - (8.735)^2}$ $S = 69,614 \text{ psi } (480 \text{ MPa})$ $= \frac{69,614}{0.67} = 103,902 \text{ psi } (716.4 \text{ MPa})$ |

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

SEAMLESS STEEL CYLINDER, MODEL 8BC75A

| SCALE | NOT TO SCALE | | DRAWING NO. | REV. |
|----------|--------------|----------|-------------|-------------|
| DWN. BY | S. JOHNSON | 11/8/91 | 901A-B-9118 | 04 |
| CHK'D BY | R.SHAFFEY | 11/15/91 | | |
| APP'D BY | B.ARNOLD | 11/25/91 | SHEET NO. 1 | OF 1 SHEETS |