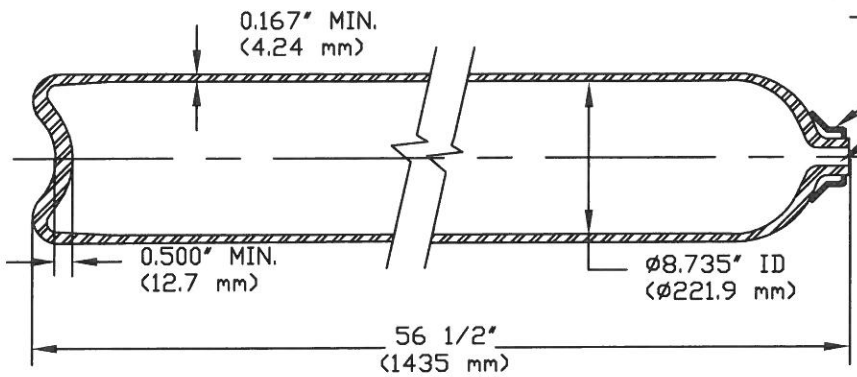


REV.	ECN - DESCRIPT.	DATE	DRWN.	CHKD.	APP.
01	1099 TC	3/4/93	MB	RS	BA
02	2293	3/28/03	RS	RS	BA
03	2437	10/27/04	RS	RS	
04	2896	8/21/09	JJM		

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 (8BC75-3),
 1 -11 1/2 NGT (8BC75-1),
 25E (8BC75-25E FOR TC-SU10088),
 DIN 477 28,8 (8BC75-D for TC-SU10088),
 OR COMPARABLE

DRAWING FOR REFERENCE ONLY

SPECIFICATION: DDT 3AA 1800 /TC3AAM138 or TC-SU10088-138	
MODEL: 8BC75	
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) - DDT Service pressure: 1800psi (124 bar) - TC Service pressure: 138 bar - Test pressure: 3000psi (207 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:	$S = \frac{3000 [1.3 (9.069)^2 + 0.4 (8.735)^2]}{(9.069)^2 - (8.735)^2}$ $S = 69,339 \text{ psi } (478.1 \text{ MPa})$ $= \frac{69,339}{0.67} = 103,491 \text{ psi } (713.5 \text{ MPa})$

N		NORRIS CYLINDER COMPANY	
4818 WEST LOOP 281 LONGVIEW, TEXAS 75603 USA			
SEAMLESS STEEL CARBON DIOXIDE CYLINDER, MODEL 8BC75			
SCALE	NOT TO SCALE	DRAWING NO.	REV.
DWN. BY	S. JOHNSON	11/5/91	901A-B-9111 04
CHK'D BY	R. SHAFKEY	11/15/91	
APP'D BY	B. ARNOLD	11/25/91	SHEET NO. 1 OF 1 SHEETS