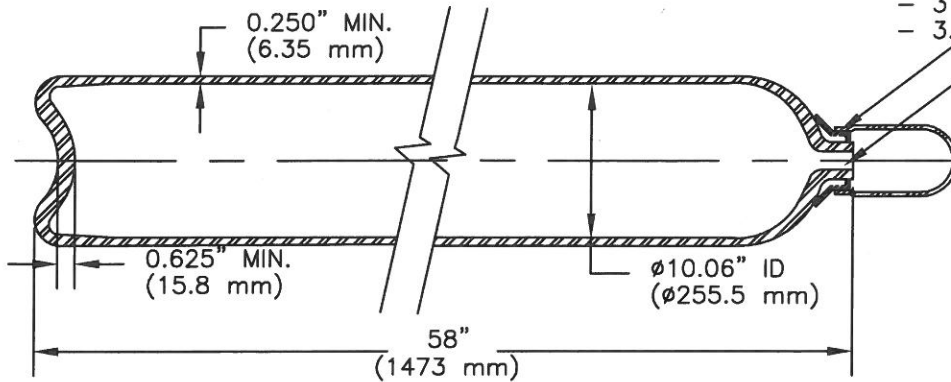


REV.	ECN - DESCRIP.	DATE	DRWN.	CHKD.	APP.
08	2895	08/19/09	JJM		

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 (10BC100A-3),
- 1-11 1/2 NGT (10BC100A-1),
- 25E (10BC100A-25E for TC SU10088),
- DIN 477 28,8 (10BC100A-D for TC-SU10088),
- OR COMPARABLE REQUEST



DRAWING FOR REFERENCE ONLY

SPECIFICATION: DOT 3AA 2300 / TC 3AAM 176 or TC-SU10088-176

MODEL: 10BC100A

1. Principal Elements: - Min. water capacity: 147.1 lbs (66.7 kg) - Min. water volume: 4079 in ³ (66.7 liter) - Approx. tareweight: 188 lbs (85.3 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.
	4. Heat Treatment: Q & T
2. Material: Chrome-Moly steel, (A.I.S.I. 4130X)	5. Norris Standard Mechanical Properties: - Tensile: \geq 105,000 psi (724 MPa) - Elong.: \geq 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

$$S = \frac{3835 [1.3 (10.56)^2 + 0.4 (10.06)^2]}{(10.56)^2 - (10.06)^2}$$

$$S = 68,982 \text{ psi (475.6 MPa)}$$

$$\text{Required Minimum tensile: } = \frac{68,982}{0.67} = 102,958 \text{ psi (709.9 MPa)}$$



NORRIS CYLINDER COMPANY

4818 WEST LOOP 281 LONGVIEW, TEXAS 75603 USA

SEAMLESS STEEL CYLINDER
MODEL 10BC100A/TC

SCALE	NOT TO SCALE	DRAWING NO.	REV.
DWN. BY	S. JOHNSON	11/5/91	901A-B-9112 08
CHK'D BY	RS	11/15/91	
APP'D BY	BALDUR	11/25/91	SHEET NO. 1 OF 1 SHEETS