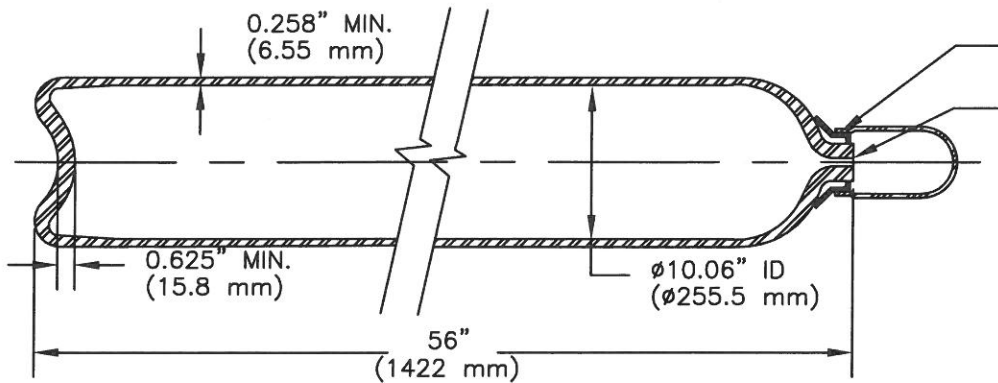


REV.	ECN - DESCIP.	DATE	DRWN.	CHKD.	APP.
01	1026-STAR STAMPING	08/06/92	M.BENHAM	REFAAT	BALDUR
02	1072 REDESIGN ID	1/26/93	M.BENHAM	REFAAT	BALDUR
03	1247 Change OD	3/27/95			
04	2896	9/02/09	JJM		

Optional Neck Ring Threads

- 3 1/8-11 UNS Thd.
- 3 1/8-7 UNS Thd.
- 3.147-11 UNS Thd.
- 3/4-14 NGT (10BC400-3),
- 1 -11 1/2 NGT (10BC400-1),
- 25E (10BC400-25E FOR TC-SU10088),
- DIN 477 28,8 (10BC400-D for TC-SU10088),
- OR COMPARABLE



**DRAWING FOR
REFERENCE ONLY**


SPECIFICATION: DOT 3AA 2400 / TC3AAM183 or TC-SU10088-183

MODEL: 10BC400

1. Principal Elements: - Min. water capacity: 142.8 lbs (64.7 kg) - Min. water volume: 3960 in ³ (64.7 liter) - Approx. tareweight: 186 lbs (84.4 kg) -DOT Service pressure: 2400psi (165.5 bar) -TC Service pressure: 183 bar - Test pressure: 4000psi (275.8 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: $S = P(1.3D^2 + 0.4d^2)/(D^2 - d^2)$

$S = \text{Maximum wall stress, psi}$ $S = \frac{4000 [1.3 (10.576)^2 + 0.4 (10.06)^2]}{(10.576)^2 - (10.06)^2}$
 $P = \text{Test pressure, psi}$
 $D = \text{Outside diameter, inch}$
 $d = \text{Inside diameter, inch}$
 $S = 69,830 \text{ psi (481.5 MPa)}$
 Required Minimum tensile: $= \frac{69,830}{0.67} = 104,224 \text{ psi (718.6 MPa)}$

 NORRIS CYLINDER COMPANY 4818 WEST LOOP 281 LONGVIEW, TEXAS 75603 USA		REFILLABLE SEAMLESS STEEL GAS CYLINDER, MODEL 10BC400/TC		
				SCALE
DWN. BY	SALLY JOHNSON	10/31/91	901A-B-9107	04
CHK'D BY	REFAAT SHAFKEY	11/15/91		
APP'D BY	BALDUR ARNOLD	11/25/91	SHEET NO. 1	OF 1 SHEETS