



- NOTES:
1. USE 3/8"-16UNC SQUARE HEADED BOLT (ANS) OR HEX BOLT 4" LONG 00 00 775 W/SMALL DIA. WASHER 00 00 774 & NUT 00 00 774, ALL SS 316L.
 2. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPPING.
 3. THE NYLON CELL CLASSIFICATION SHALL CONFORM TO ASTM D5989 AND SHALL BE S-PA0141 (WEATHER RESISTANT), S-PA0231 OR S-PA0401 (TENSILE STRENGTH, YIELD 15000 PSI MIN., WITH UV STABILIZER ADDED).
 4. INSTALL #255 O-RING 5-5/8"x5-7/8"x1/8" IN CAP (SEE O-RING SPECIFICATIONS).
 5. DRILL 1/2" [12.7] HOLE IN PORT BEING USED-CAUTION-RECOMMEND USING HOLE SAW BIT OR SPADE BIT (BY OTHERS), BE CAREFULL TO PREVENT DAMAGE TO THREADS OR CAP.
 6. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!

Furnish O-ring materials conforming to the following requirements:
 Mechanical Properties:
 Shore hardness A ASTM D2240 30 -75
 Ultimate elongation % ASTM D412 > 300
 Tension Set @ 100%, 200% & ultimate elongation ASTM D412 < 5
 Tear Strength Die T, pli ASTM D624 110
 Accelerated Testing:
 Thermal Deterioration 70 hours @ 125 C ASTM D573
 Change in tensile strength % < 3
 Change of elongation % < 25
 Change of hardness % < 5
 Compression Set 22 hours @ 125 C % ASTM D573 < 20
 Volume change due to absorption of H2O for 70 hours @ 2570 F (1250C) ASTM D471 < 5 percent
 Environmental Resistance
 Ozone Resistance 70 hours @ 40 C & 50 MPa partial ozone pressure ASTM D1149 No Cracks
 Low Temp. @ -20 C ASTM D746 Not Brittle Pass

APPROVED BY FDOT 05-31-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 0.94 LBS.	REV. DATE NAME	PART NUMBER: 68 04 2539	
GROUT CAP FOR 4-0.6" FMA ANCHOR				MATERIAL: SEE ABOVE	SCALE 1:2 1:1 2:1	1 04-18-05 E.A.	DRAWING NUMBER: 68 04 2539	
				DATE: 04-12-05 DWG: G. MALECKI CHK: E.A. APP: K.S.	3 09-13-06 E.A.	4 05-07-07 S.N.		
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