

	MATERIAL LIST	
PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
B46M CUT	1-3/4" (46mm) THREADBAR	ASTM A722 TYPE II STEEL
B46E22700	9"x9"x2" SQ. BEARING PLATE WITH EXIT PIPE 2-7/8" OD x 3/16" WALL, 5-1/2" LONG MECHANICAL TUBING AND BOLT HOLES, GALV.	STEEL PLATE: ASTM A36, MECHANICAL TUBE: ASTM A512, A513 OR A519, ASSEMBLY GALVANIZED
B46M50700	NYLON BAR GROUT CAP WITH O-RING	CAP: NYLON 6, 20% GLASS FIBER FILLED O-RING: EPDM
00 00 783 00 00 774	(4) 3/8"-16UNC HEX BOLTS, 3-1/4" LONG 3/8" NARROW WASHERS	316L STAINLESS STEEL
B46M20251	1-3/4" GROUTABLE ANCHOR NUT	FORGING, NORMALIZED C1045
00 00 649	1/2" NPT PLUG	NYLON 6, WHITE
00 00 678	1/2" NPT NIPPLE, LENGTH AS REQ'D (TEMPORARY)	SCH 40 BLACK WELDED STEEL
00 00 878	3/4" NPT NIPPLE, LENGTH AS REQ'D (TEMPORARY)	SCH 40 BLACK WELDED STEEL
00 00 849	3/4" NPT PLUG	NYLON 6, WHITE
00 00 634	1/2" NPT BALL VALVE (TEMPORARY)	PVC
00 00 834	3/4" NPT BALL VALVE (TEMPORARY)	PVC
U00220300	3" (76mm) CORRUGATED DUCT	POLYPROPYLENE
U00220305	(OPTIONAL) 3" (76mm) DUCT COUPLER	POLYPROPYLENE
U00044040	HEAT SHRINK SLEEVE, PMA-120/40-450-BK	ACCORD. TO FDOT SPEC. P.T. SEC. 960-2.2.1.8
U00044090	HEAT SHRINK SLEEVE, PLA-90-450-YE	ACCORD. TO FDOT SPEC. P.T. SEC. 960-2.2.1.8
ANS	TEFLON TAPE OR PASTE	-

- 1. USERS SHALL REFER TO FDOT STANDARD SPECIFICATIONS AND PROJECT SPECIFIC CRITERIA FOR TENDON INSTALLATION. STRESSING. & GROUTING.
- 2. REQUIRED REINFORCING BARS ARE NOT SHOWN ON THIS DRAWING.
- 3. MAXIMUM ANGULAR MISALIGNMENT WHEN USING ANCHOR NUT: ±2°.
- 4. CENTER TO CENTER, END AND EDGE DISTANCE DEPENDS ON THE LOCATION OF THE BAR AND CONCRETE STRENGTH, (SEE TABLE).
- 5. C/C DISTANCE = 2 X END DISTANCE 2 X CONCRETE COVER (2" ASSUMED). TIGHTER C/C DISTANCE SHOULD BE EVALUATED.
- 6. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.
- 7. BURSTING REINFORCEMENT IS NOT SHOWN AND WILL BE INCLUDED WITH THE SHOP DRAWINGS.
- 8. THREADBAR TENDONS ARE STRESSED FROM ONE END ONLY

Plate Type	Concrete strength	Depth, D (in)			
	fci, ksi		End dist, E	c/c dist, C	
	6.5	13.0	6.5	10.0	
	6.0 14.0 7.0		7.0	11.0	
Square	5.5	15.0	7.5	12.0	
Square	5.0	16.0	8.0	13.0	
	4.5 18.0		9.0	15.0	
	4.0	20.0	10.0	17.0	

DIMENSIONS: INCH					REV.	DATE	NAME	
			-			08-13-20	S.I.	PT46M200
INTERNAL GROUTED SYSTEM FOR 1-3/4" (46mm) THREADBAR ASSEMBLY			SCALE 1:4					
DATE: 08-01-19 DWG: G. MALECKI	CHK: S.I.	APP: S.I.		1:8	-			-
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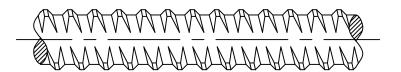
THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD

PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY **DSI's** SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

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RIGHT HAND THREAD





PART NUMBERS

SPECIFICATIONS

FOR BARE BAR:

B46M CUT ASTM A722 TYPF II

PHYSICAL PROPERTIES

EFFECTIVE AREA: 2.58 SQ.IN. (1664 SQ.mm)

ULTIMATE STRENGTH: 150 KSI (1035 N/SQ.mm)

ULTIMATE LOAD: 387 KIPS (1721 KN)

YIELD LOAD: 310 KIPS (1378 KN)

WEIGHT: 9.37 LBS./FT. (13.9 Kg/m)

MAX. BAR Ø INCL. RIBS: 2.075 IN. (52.7mm)

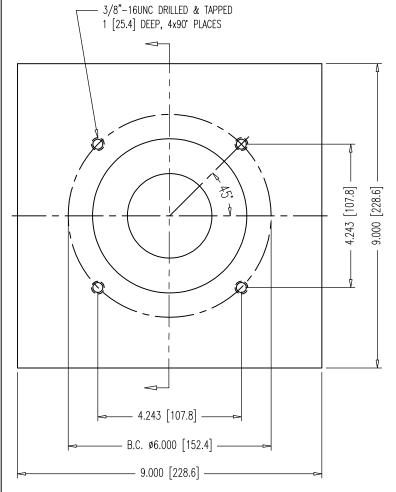
AVERAGE CORE Ø: 1.830 IN. (46.5mm)

PITCH: 0.827 IN. (21.0mm)

		NS: INCH [mm]	QUALITY PLAN				REV.	DATE	NAME	ECRN	PART NUMBER:
mm FOR REFERENCE ONLY QB00000010B									B46M CUT		
	46mm TUDEADDAD CD450 UD										DACINI CO I
46mm THREADBAR GR150 HR		MATERIAL:	00415								
TOININ THINEADDAN ON 130 HIN			SEE ABOVE	SCALE							
						NTS					DRAWING NUMBER:
NTE: 0)3-23-17	DWG: S.YANG	CHK: S.Y.	APP: S.E.			\vdash				
					1		i I				B46M CUT

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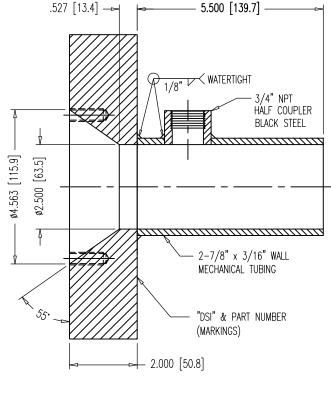


PLATE MATERIAL: ASTM A36 MECHANICAL TUBE MATERIAL SHALL BE A512, A513 OR A519

DIMENSIONS: INCH [mm]

NOTES:

- NOTES:

 1. PLATE AND PIPE GALVANIZED ACCORDING TO TO ASTM A123 AFTER WELDING.

 2. DIMENSIONS AND TOLERANCES APPLY TO UNCOATED PLATE AND TUBING.

 3. ENSURE THREADABILITY OF TAPPED HOLES IN PLATES IF THEY ARE REQUIRED.

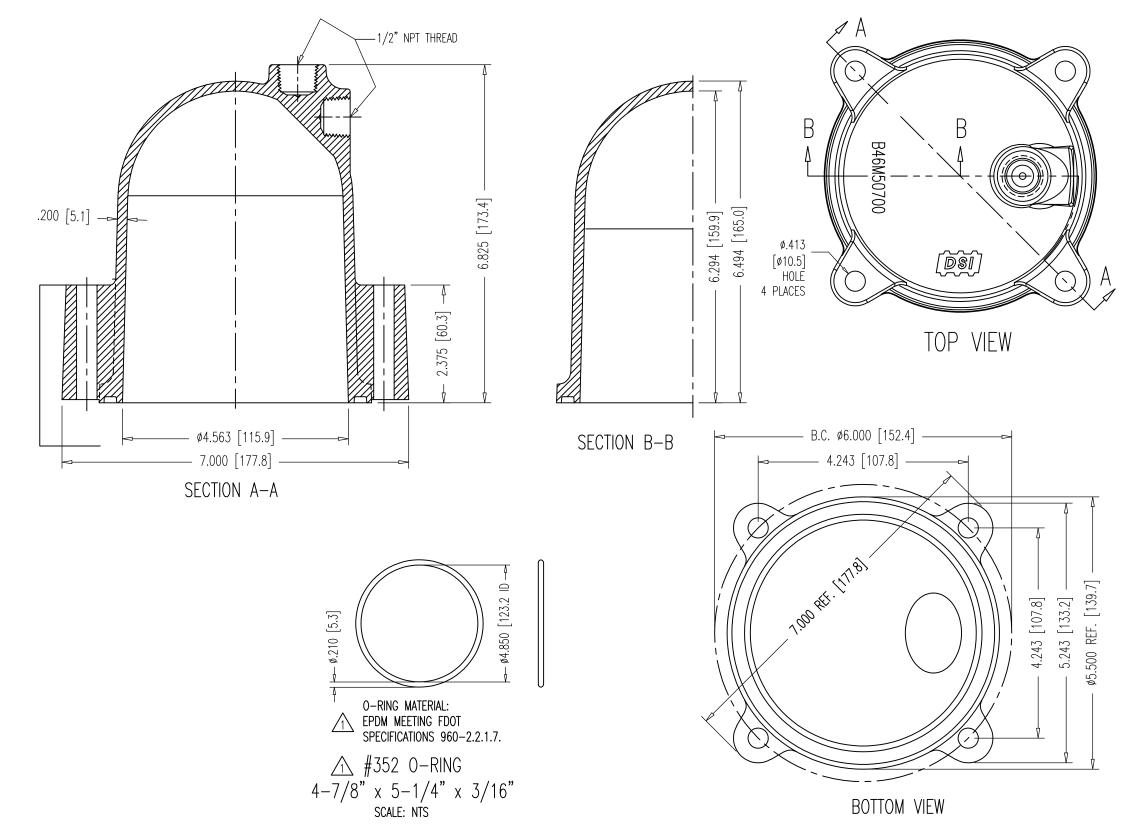
 4. 76mm CORR. PP DUCT, U00220300 & 3" SDR17 HDPE PIPE, U00055112 FITS OVER TUBING.

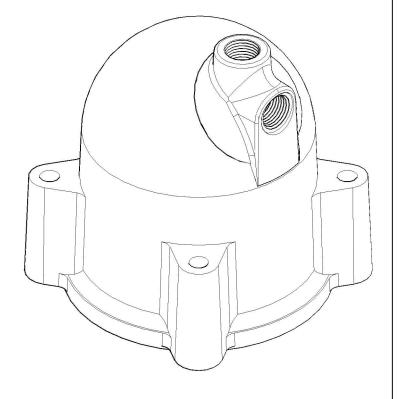
mm FOR REFERENCE ONLY	QUALITY PLAN QBE0021		TOLERANCES: ±.020	WEIGHT: 43.4	REV.	DATE	NAME	ECRN	PART NUMBER:
SQUARE BEARING PLATE WITH EXIT PIPE FOR 1-3/4" THREADBAR			UNLESS NOTED MATERIAL:	LBS. SCALE				D40E221	B46E22700
FUR 1-3/4" I	UKEANDAI	₹	SEE ABOVE	1:3					
DATE: 08-16-07 DWG: G. MALECKI	CHK: S.N.	APP: E.A.	02278012	1.0					DRAWING NUMBER:
									B46E22700
THE DRAWING THE DEDTINENT ENGLOSHE									

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OLIALITY DI AN NUMBER:







- 1. USE 3/8"-16UNC 316L S.S. HEX BOLTS, 3-1/4" LONG 00 00 783 W/SMALL DIA. WASHER 00 00 774.
- 2. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPPING.
- 3. THE NYLON CONFORMS TO ASTM D5989, WITH CELL CLASSIFICATION S-PA0401 (ULTIMATE STRENGTH 10,000 PSI MIN., WITH UV STABILIZER ADDED).
- 4. 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.
- 5. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!

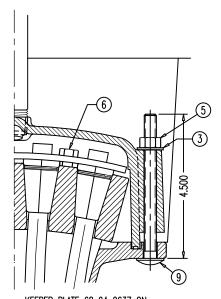
QUALITY PLAN NUMBER: QS60072300P DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY TOLERANCES: WEIGHT REV. DATE NAME PART NUMBER: SEE TOLORANCE ~1.4 LBS. 1 10/04/18 S.I. B46M50700 **BAR GROUT CAP WITH O-RING** NOTE MATERIAL: SCALE FOR 1-3/8" HEX NUT AND ALL 1-3/4" NUTS NYLON 6 1:2 20% GLASS DRAWING NUMBER: DATE: 03-22-18 DWG: G. MALECKI CHK: S.Y. UNLESS FIBER FILLED B46M50700 NOTED COLOR: BLACK

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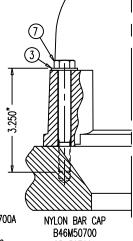
320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405





BY OTHERS -

(3) NYLON BAR CAP B36E50700 OR 50700A

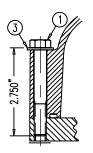


KEEPER PLATE 68 04 2637 ON WEDGE PLATE 68 04 2534A & NYLON CAP 68 04 2539 ON FLAT ANCHOR 68 04 2548

POCKET FORMER 68 04 2640 ON FLAT ANCHOR 68 04 2548

ON GALV. BEARING PLATE B26E22510, 22610, 22700, 22800, B32E22510, 22610, 22700, 22800, <u>∕</u> B36E22410, 22420, 22910, 22510, 22610, 22700, 22800 & NYLON BAR CAP B66E50700 OR 50700A ON GALV. BEARING PLATE B66E22700

OR 50700A ON GALV. BEARING PLATE B46E22700 & ⚠ B46E22800



NYLON CAP 68 07 7230 OR 7230A ON MPA 68 07 248

9

(11)

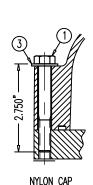
DIMENSIONS: INCH

PART NUMBER

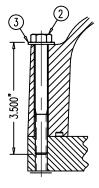
00 00 771

00 00 789

00 00 790



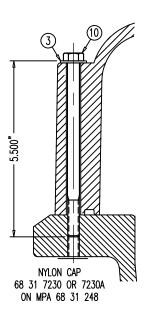
68 12 7230 OR 7230A ON MPA 68 12 248



NYLON CAP 68 19 7230 OR 7230A ON MPA 68 19 248

4.250"		8	
<u> </u>			
	NN/I ON	040	

NYLON CAP 68 27 7230 OR 7230A ON MPA 68 27 248





TYPE A NARROW WASHER FOR 3/8"-UNC BOLT

\sim		, , , , , , , , , , , , , , , , , , , ,
2	00 00 772	3/8"-16UNC HEX BOLT, 3-1/2" LONG (1" LONG THREAD)
3	00 00 774	TYPE A NARROW WASHER FOR 3/8"-UNC BOLT
4	00 00 776	3/8"-16UNC COUPLER, ZINC COATED
(5)	00 00 777	3/8"-16UNC HEX NUT
(6)	00 00 778	5/16"-18UNC HEX BOLT, 7/8" LONG, ZINC PLATED
7	00 00 783	3/8"-16UNC HEX BOLT, 3-1/4" LONG (1" LONG THREAD)
8	00 00 784	3/8"-16UNC HEX BOLT, 4-1/4" LONG (FULL THREAD)

3/8"-16UNC CARRIAGE BOLT, 4-1/2" LONG

3/8"-16UNC CARRIAGE BOLT, 5-1/2" LONG

QUALITY PLAN NUMBER:

DISCRIPTION (ALL PARTS 316L STAINLESS STEEL UNLESS NOTED)

3/8"-16UNC HEX BOLT, 2-3/4" LONG (1" LONG THREAD)

THE 316L S.S. BOLTS ARE SPECIAL ORDER. ALL WASHERS, HEX NUTS & COUPLERS HAVE NO MARKINGS.

CTAINI FOC CTEFL 2	ACL BOLTS AND
STAINLESS STEEL 3	JIOL BOLIS AND
WASHER FOR N	VI ON CADS
WASHERIORIN	ILUN CAFS

DATE	00.10.04	DWG: G MALECKI	CHK: E V	ADD: KG	

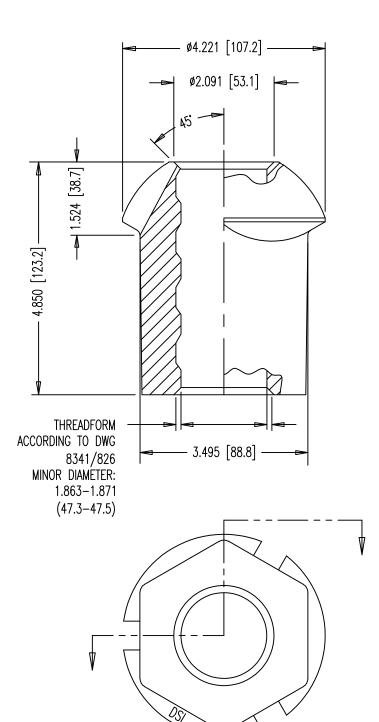
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	REV.	DATE	NAME	NAME	PART NUMBERS:
	1	05/01/19	S.I.		SEE TABLE
	2	05/28/20	S.I.		
SCALE					
1:3					
1.3					
					DRAWING NUMBER:
					00 00 770

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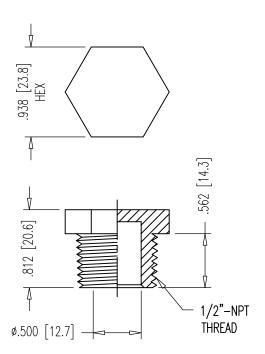




	DIMENSIONS: INCH [mm] QUALITY PLAN NUMBER: mm FOR REFERENCE ONLY QBE0020100F			TOLERANCES: ±.035	WEIGHT 9.9	REV.	DATE	NAME	PART NUMBER:
GROUTABLE ANCHOR NUT			UNLESS NOTED	LBS.				B46M20251	
			MATERIAL:	SCALE					
	FOR 1-3/4" HR BAR, 150 KSI			REF. ANCHOR NUT	1:2				
DATE: 04-30	0-18 DWG: S.YANG	CHK: S.Y.	APP: S.E.	BLANK DRAWING					DRAWING NUMBER:
	THE DRAWING THE DESTRICT SHOULDED DESCRIPTIONS ON OUR ATIONS STO			B46M20191					B46M20200
THIS DRAWI	ING, THE PERTINENT ENCLOSU	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.				1			

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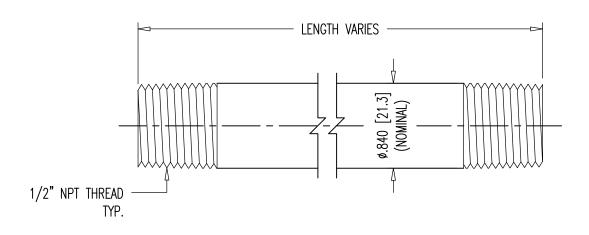




MENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALITY PLAN NUMBER:		WEIGHT .006	REV.	DATE	NAME	ECRN	PART NUMBER:
			LBS.					00 00 649
1/2" NPT NY	MATERIAL: NYLON 6	SCALE						
DATE: 03-12-19 DWG: G. MALECKI C	CHK: S.I. APP: S.I.	COLOR: WHITE						DRAWING NUMBER:
THIS DRAWING, THE PERTINENT ENCLOSURE:							00 00 649	

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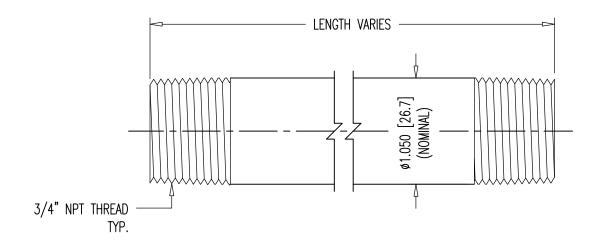


QUALITY PLAN NUMBER: Q00000020P DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY DATE NAME PART NUMBER: REV. 00 00 678 1/2" NPT PIPE NIPPLES MATERIAL: **SCALE** SCH 40 1:1 **BLACK WELDED** DRAWING NUMBER: DATE: 01-29-19 DWG: G. MALECKI CHK: S.I. APP: S.I. STEEL 00 00 678 THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.

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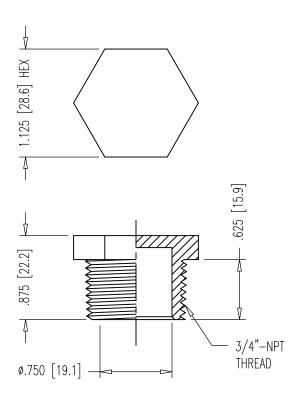
DYWIDAG 🐎



DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY QUALITY PLAN NUMBER: Q000000020P REV. DATE NAME ECRN PART NUMBER: 00 00 878 3/4" NPT PIPE NIPPLES MATERIAL: SCALE SCH 40 1:1 **BLACK WELDED** DRAWING NUMBER: DATE: 01-29-19 DWG: G. MALECKI CHK: S.I. APP: S.I. STEEL 00 00 878

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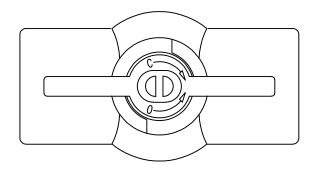


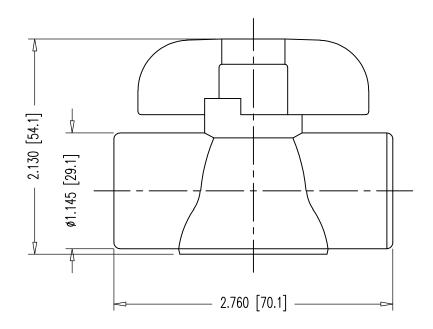


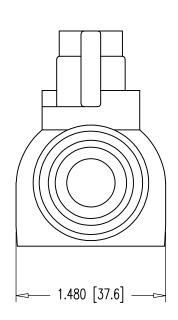
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY					REV.	DATE	NAME	PART NUMBER:
		.009 LBS.				00 00 849		
3/4" NPT NYLON PLUG			MATERIAL: NYLON 6	SCALE				
				1:1				
DATE: 03-12-19 DWG: G. MALECKI CHK: S.I. APP: S.I			COLOR: WHITE		-			DRAWING NUMBER:
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.								00 00 849
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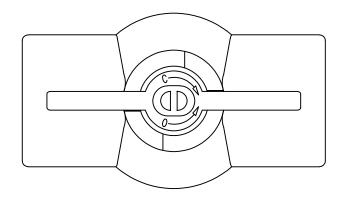


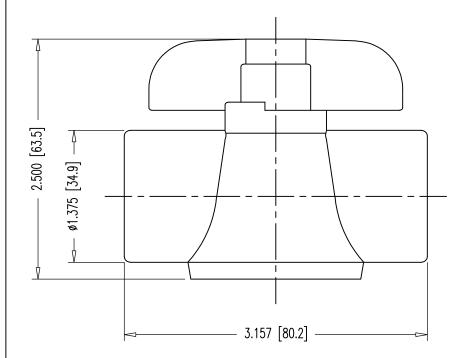
NOTE:
PRESSURE RATED: 150 PSI.

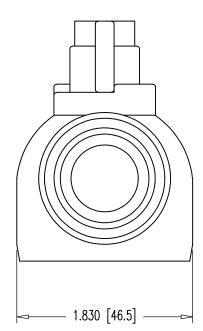
DIMENSIO mm FOR RE	DIMENSIONS: INCH [mm] QUALITY PLAN NUMBER: mm FOR REFERENCE ONLY				WEIGHT 0.138	REV.	DATE 01-11-19	NAME S.I.	PART NUMBER: 00 00 634
1/2" NPT BALL VALVE			MATERIAL: PVC	LBS. SCALE				00 00 034	
	DATE: 04-30-07 DWG: G. MALECKI CHK: S.N. APP: E.A. THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.				1:1				DRAWING NUMBER: 00 00 634

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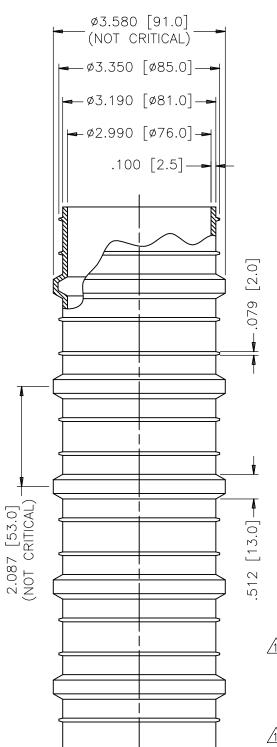


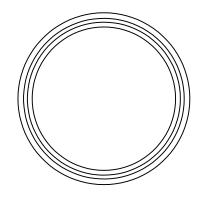
NOTE:
PRESSURE RATED: 150 PSI.

DIMENSIONS: INCH [mm] QUALITY PLAN mm FOR REFERENCE ONLY		WEIGHT 0.213	REV.	DATE 01-11-19	NAME S.I.	PART NUMBER:	
		LBS.			· · · ·	00 00 834	
3/4" NPT BALL VALVE	MATERIAL:	SCALE					
		PVC	1:1				
DATE: 04-30-07 DWG: G. MALECKI CHK: S.N.	APP: E.A.						DRAWING NUMBER:
THIS DRAWING. THE PERTINENT ENCLOSURES, DESCRIPTIONS, CAL						00 00 834	
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MATERIAL: POLYPROPYLENE

CELL CLASS RANGE: PP0340B44541 TO PP0340B67884 MATERIAL MEETS FDOT SPECS. 960-2.4.3.

NOTES:

- 1. STANDARD FIT FOR 9-0.6" & 12-0.5" STRANDS AND 1-3/4" THREADBAR.
- 2. Min. BENDING RADIUS, Rmin = 20.5 FT.
- 3. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.

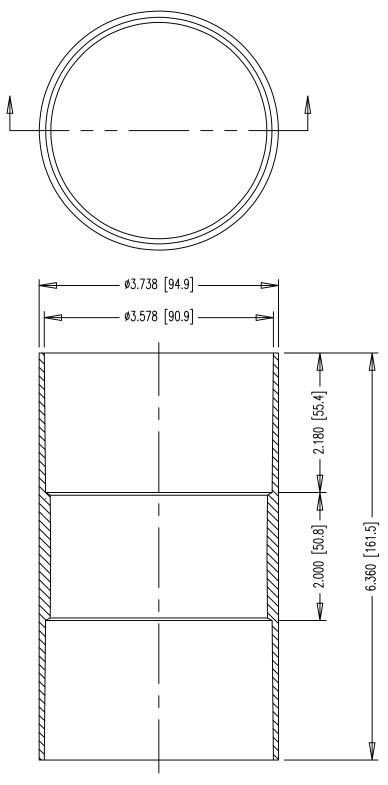
DIMENSIONS			AN NUMBER:	TOLERANCES:	WEIGHT	REV.	DATE	NAME	ECRN	PART NUMBER:
mm FOR REFE	RENCE ONLY	QU000	41110P	±.010	0.32	1	01-11-19	S.I.		U00220300
				UNLESS NOTED	LBS.					000220300
3" (76mm) CORRUGATED PP DUCT			MATERIAL:	SCALE						
			POLYPROPYLENE							
DATE 04 00 00	D14/0 0 1441 E01/1	01114 4 0	100 1/0	OR HDPE	1:2					DRAWING NUMBER:
DATE: 04-23-96	DWG: G. MALECKI	CHK: A.G.	APP: K.S.							1
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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.

POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 DYWIDAG 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405





MATERIAL: POLYPROPYLENE

CELL CLASS RANGE: PP0340B44541 TO PP0340B67884

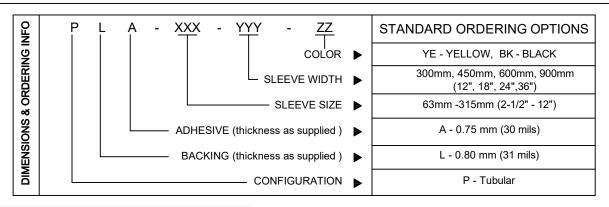
MATERIAL MEETS FDOT SPECS. 960-2.4.3.

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Ø3" (76mm) DUCT COUPLER			MATERIAL:	SCALE				
(1 2 (1 2)			SEE ABOVE	2:3				
DATE: 10-25-99 DWG: G. MALECK	CHK:	APP:	4					DRAWING NUMBER:
DATE. 10-20-88 DWG. G. MALEONI CHK. AFF.			4					LICOCOCOCO
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	TUBULAR SLEEVE	TUBULAR SLE AS SUPPLIED	EVE DIAMETER FULLY RECOVERED
	PLA 63-YYY YE	3.5" [90mm]	2.5" [63mm]
	PLA 90-YYY YE	4.8" [120mm]	3.3" [81mm]
	PLA 115-YYY BK	5.5" [145mm]	3.8" [98mm]
	PLA 125-YYY YE	6.3" [160mm]	4.3" [110mm]
	PLA 160-YYY BK	7.5" [190mm]	5.2" [130mm]
7	PMA 90/30-YYY BK	3.5" [90mm]	1.2" [30mm]
7	PMA 120/40-YYY BK	4.7" [120mm]	1.6" [40mm]

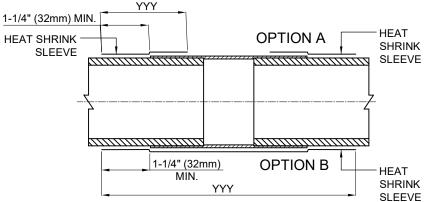
PMA - HIGH SHRINK SLEEVE. HIGH SHRINK TUBULAR BACKING.

MATERIAL:

ACCORDING TO FDOT SPECIFICATION POST TENSIONING, SECTION 462 - 4, 2, 6, 3.

- 1. ORDER DIRECT FROM CANUSA TEL. 281 367 - 8866 FAX. 281 367 - 4304
- 2. SELECT ORDER LENGTH AS A MULTIPLE OF THE ACTUAL LENGTH. 3. OTHER COLORS SLEEVE MAY BE AVAILABLE
- UPON REQUEST.
- 4. ALWAYS HEAT THE DUCT ENDS FIRST.

YYY = SLEEVE WIDTH: 300/450/600/900/1500(mm)COLOR: YE = YELLOW; BK = BLACK



NOTE: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

		DUCT SIZE 🗘	STRAND SYSTEM	BAR SYSTEM	HEAT SHRINK SLEEVE SIZE	PART NUMBER
		1" x 3" (25mm x 76mm)	4-0.6"		PLA-63-450 YE	U00044063
		0.7/0" (50)	7-0.6"		PLA-63-450 YE	U00044063
		2-3/8" (59mm)		1", 1–1/4", 1–3/8"	PMA-90/30-450 BK <u>↑</u>	U00044030
		3" (76mm)		1 3/4"	<u>↑</u> PMA-120/40-450 BK	1 U00044040
	CORRUGATED DUCT	3-3/8" (85mm)	12-0.6"		PLA-90-450 YE	U00044090
		4" (100mm)		2-1/2"	PLA-90-450 YE	U00044090
		4" (100mm)	19-0.6"		PLA-115-450 BK	U00044115
		4-1/2" (115mm)	27-0.6"		PLA-125-450 YE	U00044125
		5-1/8" (130mm)	31-0.6", 37-0.6"		PLA-160-450 BK	U00044160
\triangle	SMOOTH DUCT	3" SDR 17 HDPE PIPE		1-3/8"	PLA-63-450 YE	U00044063

	ONS: INCH [mm]				REV.	DATE	NAM
mm FOR RI	EFERENCE ONLY				A	05-28-20	S.I.
HE,							
				SCALE			
FOR IN LE	FOR INTERNAL GROUTED APPLICATIONS						
			1	NTS			
DATE: 07-31-19	DWG: G. Malecki	CHK: S.I.	APP: S.I.		_	†	

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	REV.	DATE	NAME	ECRN	PART NUMBERS:
	A	05-28-20	S.I.		. ,
					SEE TABLE ABOVE
SCALE					SEE IABLE ABOVE
NTS					
1110					DRAWING NUMBER:
					U00044000
					000077000

FAX: 630-739-1405

