

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
68 07 248	7-0.6" MULTI-PLANE ANCHOR CASTING, GALV.	ASTM A536 GR 65-45-12 DUCTILE IRON HOT DIPPED GALV. TO ASTM A123
68 07 254	7-0.6" STANDARD SPIRAL	ASTM A615, GR. 60, #4, 1-7/8" PITCH 11-1/4" O.D., ~6 TURNS
68 07 142	7-0.6" FORGED WEDGE PLATE	STEEL FORGING, ASTM A-521-76, NORMALIZED, BHN = 180-220
68 07 981 (OPTIONAL)	7-0.6" KEEPER PLATE, USED ONLY FOR INACCESSIBLE DEAD END OR WHEN PRE-ASSEMBLED W/BOLT & WASHER BY OTHERS	ASIS 1020 OR ASTM A36 (3) 3/8"-16UNC BLACK HEX BOLTS, 1" LG WITH NARROW WASHERS
68 00 0536	3-PART WEDGE FOR 0.6" STRAND	ASIS-C12L14 HEAT TREATED
68 07 587	7-0.6" PE TRUMPET	POLYETHYLENE
68 07 7230	PLASTIC GROUT CAP W/O-RING	NYLON 6, 20% GLASS FIBER FILLED
U00220200	2-3/8" (59mm) CORRUGATED PP DUCT	POLYPROPYLENE "PPEX3"
68 07 584	NEOPRENE SEAL	CLOSED CELL NEOPRENE BLEND
00 00 876	3/4" STEEL PIPE NIPPLE, 12" LONG	SCH 40 BLACK WELDED STEEL
PLA-55-150-YE	HEAT SHRINK SLEEVE	Acc. to FDOT spec. P.T., section 462-4.2,6,3
00 00 676	1/2" STEEL PIPE NIPPLE, 12" LONG	SCH 40 BLACK WELDED STEEL

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
00 00 834	3/4" NPT VALVE	--
(BY OTHERS)	FOAM INSULATION FOR 1/2" & 3/4" PIPE NIPPLES	--
00 00 634	1/2" NPT VALVE	--
00 00 847	3/4" BT PLUG (NIAGARA PLASTICS #BT0750)	NYLON
00 00 647	1/2" BT PLUG (NIAGARA PLASTICS #BT0500)	NYLON
U00220205	2-3/8" (59mm) DUCT COUPLER	HDPE
68 00 583	SEAL	CLOSED CELL NEOPRENE BLEND
68 07 589	7-0.6" FILLER PIECE	HARD POLYETHYLENE
00 00 801	(OPTIONAL) 21mm GROUT TUBE	HARD POLYETHYLENE
00 00 846	(OPTIONAL) 21mm MALE-3/4" NPT FEMALE CONN.	20% GLASS FILLED NYLON
00 00 771 00 00 774	3/8"-16UNC HEX BOLTS 2-3/4" LG NARROW WASHER FOR 3/8"-16UNC	316L STAINLESS STEEL
00 00 855 OR 00 00 857 (OPTIONAL)	3/4" NPT GROUT VENT PORT 21mm GROUT VENT PORT (FOR INTERMEDIATE GROUT VENT)	PES-TEC PART NUMBER 254-2 PES-TEC PART NUMBER 251-2 POLYPROPYLENE

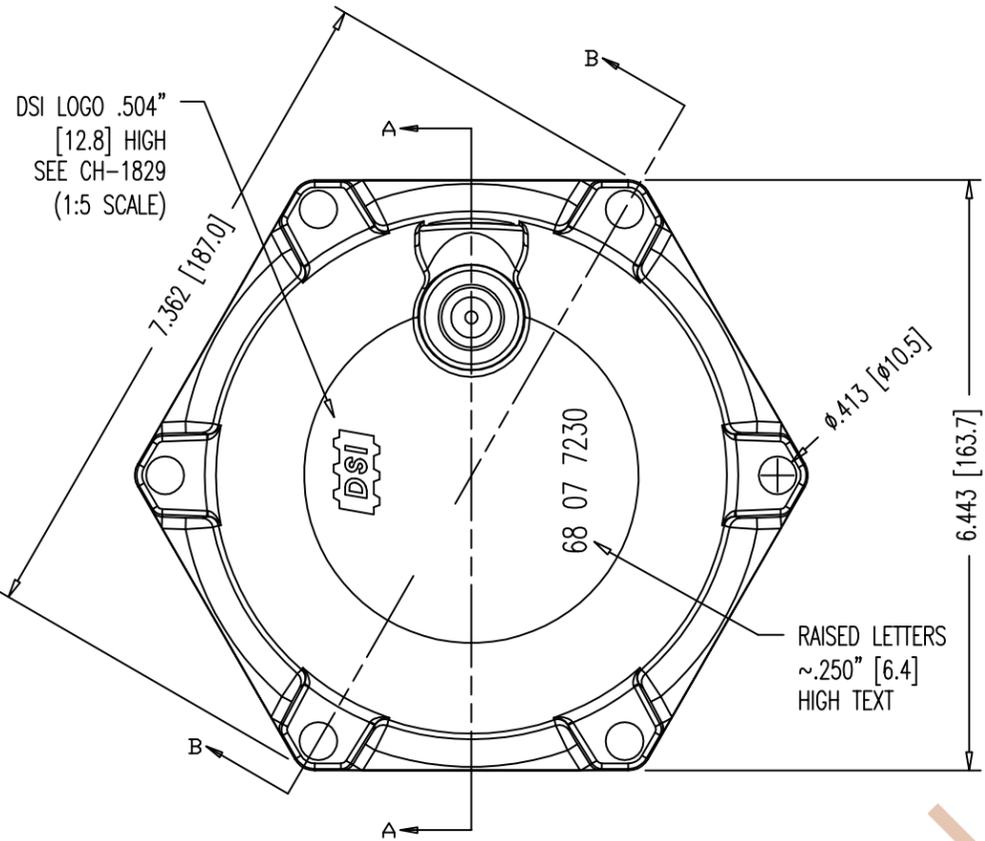
NOTES:

3. GTI DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.

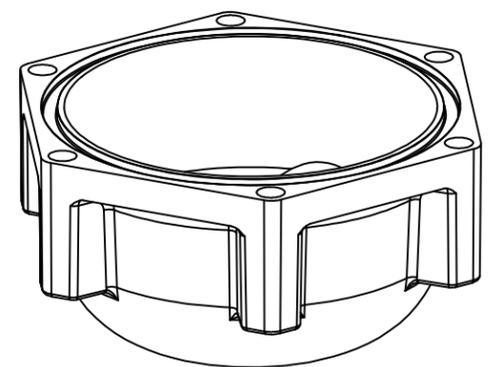
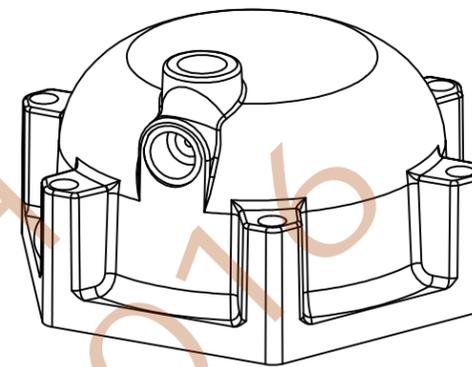
APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		REV.	DATE	NAME	
<b>INTERNAL 7-0.6" MA SYSTEM 100 ASSEMBLY DRAWING</b>					
DATE: 08-13-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.	SCALE 1:5	DRAWING NUMBER: <b>MA 68 07 003</b>
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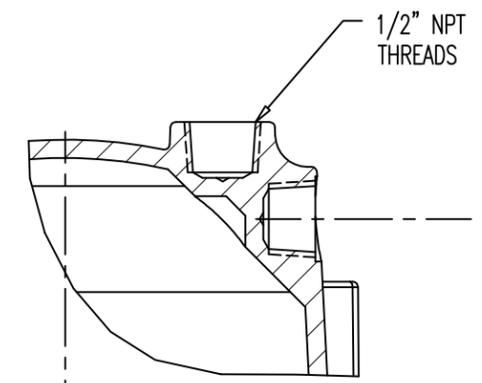
- NOTES:
1. ALL DIMENSIONS DEPENDENT ON 3D DATA BASE USED FOR MOLD FABRICATION
  2. USE 3/8"-16UNC 316L S.S. HEX BOLTS, 2-3/4" LONG W/SMALL DIA. WASHER.
  3. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPPING. DON'T USE EXCESSIVE ADHESIVE. O-RING MUST STAY IN PLACE UNTIL INSTALLATION.
  4. THE 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).
  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!



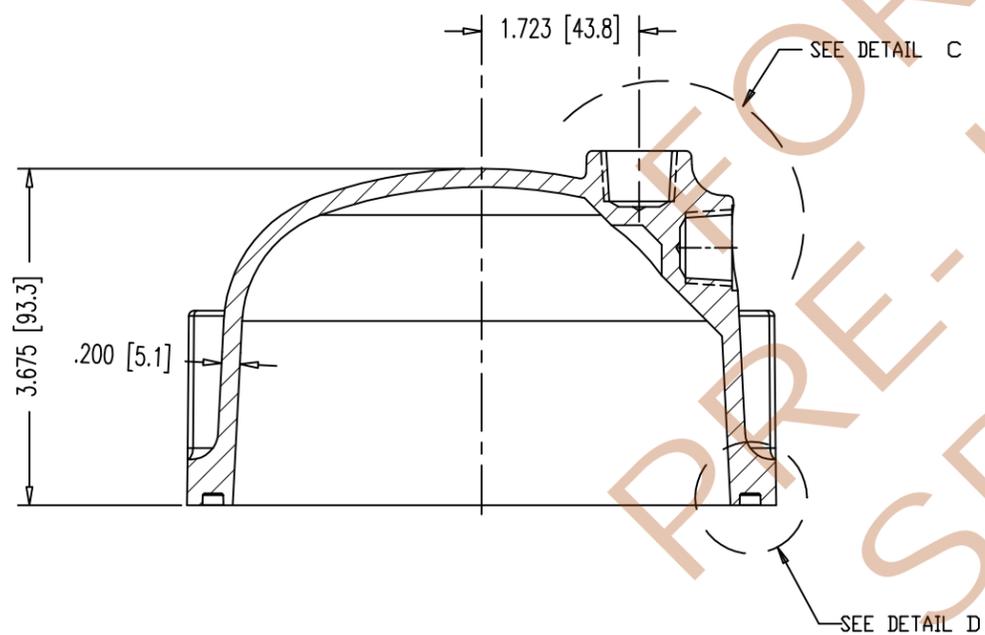
SCALE: 3:4 IN COMPUTER  
SCALE 3:8 (11"x17" PLOT)



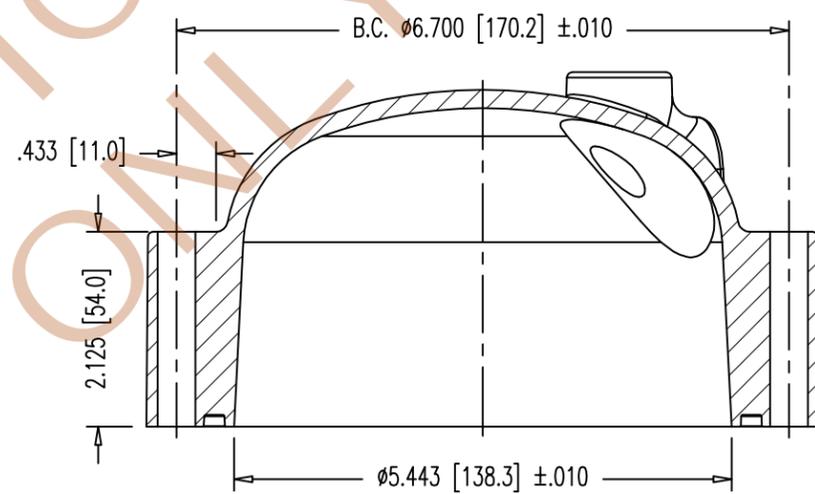
#358 O-RING  
5-5/8"x6"x3/16"  
O-RING MATERIAL: BUNA "N"  
SCALE: 1:2 IN COMPUTER; (SCALE: 1:4 11"x17" PLOT)



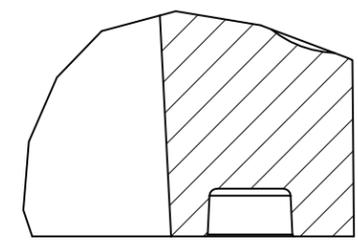
DETAIL C



SECTION A-A



SECTION B-B



DETAIL D  
SCALE: 4:1 IN COMPUTER  
SCALE: 2:1 (11"x17" PLOT)

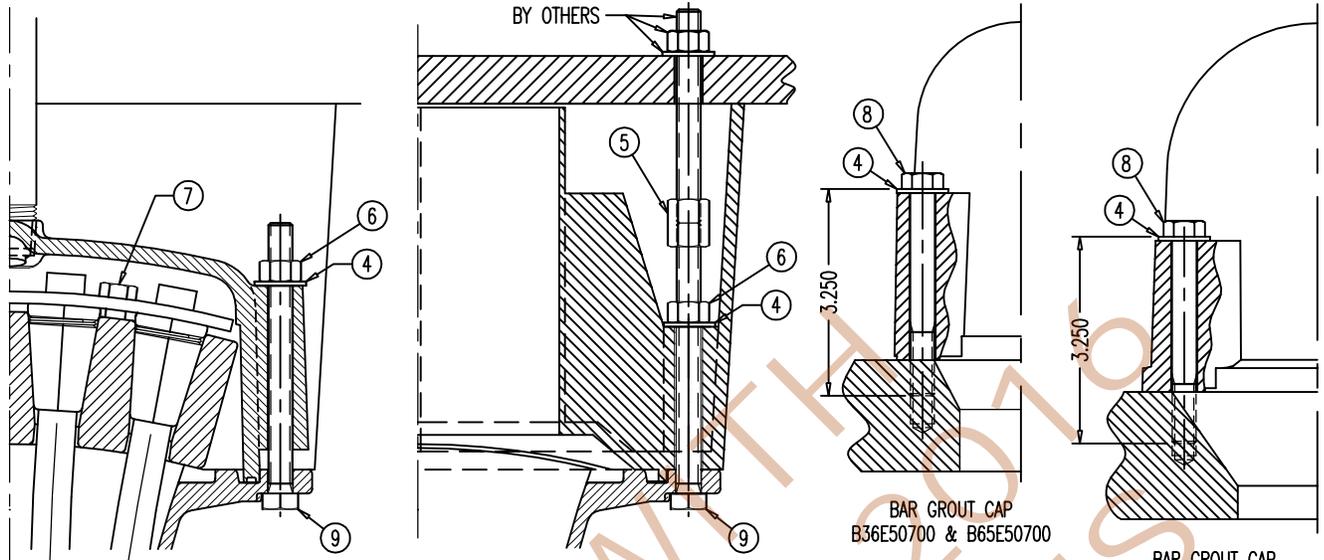
Tolerance Note:  
All tolerances are based on SPI/SPE and should be as follows unless specified otherwise:

Dim.	Tolerance
0-1" =	+/- 0.005"
1-2" =	+/- 0.007"
2-3" =	+/- 0.009"
3-4" =	+/- 0.011"
4-5" =	+/- 0.013"
5-6" =	+/- 0.015"
6-7" =	+/- 0.017"
7-8" =	+/- 0.019"
8-9" =	+/- 0.021"
9-10" =	+/- 0.023"
10-11" =	+/- 0.025"
11-12" =	+/- 0.027"

APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60072300P		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 1.12 LBS.	REV.	DATE	NAME	PART NUMBER: <b>68 07 7230</b>
<b>7-0.6" PLASTIC GROUT CAP</b>				MATERIAL: NYLON 6, 20% GLASS FIBER FILLED	SCALE 1:2 UNLESS NOTED				DRAWING NUMBER: <b>68 07 7230</b>
DATE: 11-07-03		DWG: G. MALECKI		CHK: E.A.		APP: K.S.		DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405	



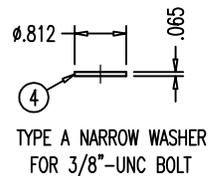
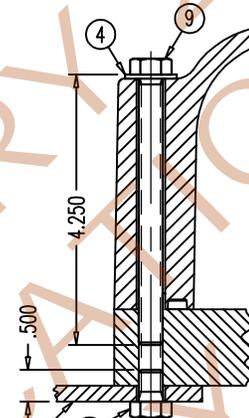
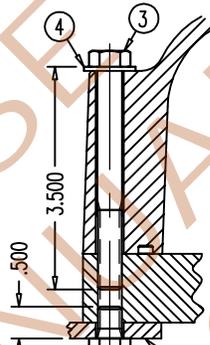
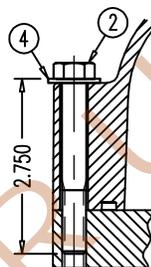
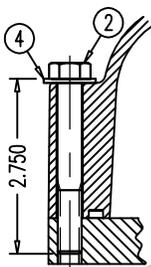


KEEPER PLATE 68 04 2637 ON  
WEDGE PLATE 68 04 2534A &  
GROUT CAP 68 04 2539 ON  
FLAT ANCHOR 68 04 2531

POCKET FORMER 68 04 2640  
ON FLAT ANCHOR 68 04 2531

BAR GROUT CAP  
B36E50700 & B65E50700

BAR GROUT CAP  
B46E50700



GROUT CAP 68 07 7230  
ON MPA 68 07 216

GROUT CAP 68 12 7230  
ON MPA 68 12 216

GROUT CAP 68 19 7230  
ON MPA 68 19 216

GROUT CAP 68 27 7230  
ON MPA 68 27 216

OPTIONAL  
SPIRAL CLIP

POS.	PART NUMBER	DISCRIPTION (ALL PARTS 316L STAINLESS STEEL UNLESS NOTED)
①	00 00 770	3/8"-16UNC HEX BOLT, 1/2" LONG, ZINC PLATED
②	00 00 771	3/8"-16UNC HEX BOLT, 2-3/4" LONG (1" LONG THREAD)
③	00 00 772	3/8"-16UNC HEX BOLT, 3-1/2" LONG (1" LONG THREAD)
④	00 00 774	TYPE A NARROW WASHER FOR 3/8"-UNC BOLT
⑤	00 00 776	3/8"-16UNC COUPLER, ZINC COATED
⑥	00 00 777	3/8"-16UNC HEX NUT
⑦	00 00 778	5/16"-18UNC HEX BOLT, 7/8" LONG, ZINC PLATED
⑧	00 00 783	3/8"-16UNC HEX BOLT, 3-1/4" LONG (1" LONG THREAD)
⑨	00 00 784	3/8"-16UNC HEX BOLT, 4-1/4" LONG (FULL THREAD)

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

△ → NUMBER OF BOLTS REDUCED TO REDUCE INVENTORY.

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH

QUALITY PLAN NUMBER:

**STAINLESS STEEL 316L BOLTS AND  
WASHER FOR PLASTIC GROUT CAPS**

DATE: 09-14-07 DWG: G. MALECKI CHK: E.A. APP: K.S.

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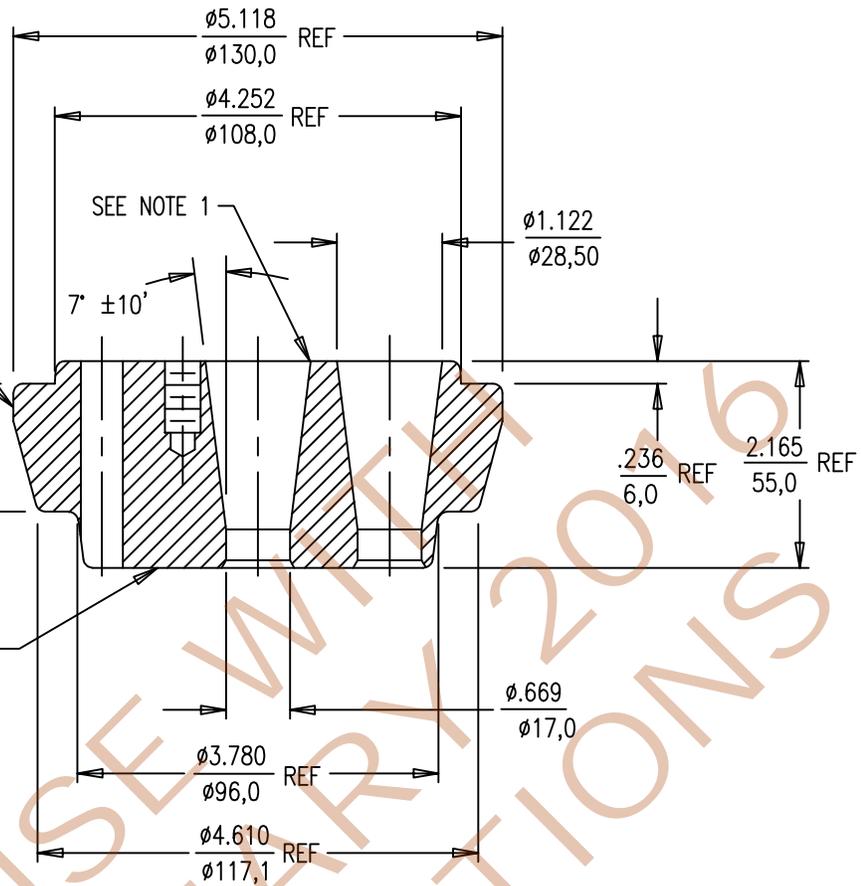
REV.	DATE	NAME	PART NUMBERS:
1	08-04-08	S.N.	<b>SEE TABLE</b>
SCALE 1:3			DRAWING NUMBER: <b>00 00 770</b>

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ALTERNATE LOCATION:  
"6807142" CAN BE  
ROLL STAMPED HERE

"6807142"  
RAISED LETTERS



$\frac{3}{8}$ "-16UNC  
DRILL 1" (25,4)  
TAP  $\frac{3}{4}$ " (19,1)  
(3) PLACES FOR  
KEEPER PLATE  
(SEE NOTE 4)

WEDGE PLATE DIPPED IN  
BEL-RAY RP-30 FOR  
CORROSION PROTECTION

NOTES:

- BREAK EDGE OF WEDGE HOLES.
- USE 3-PART WEDGE P/N 68 00 0536.
- FOR FORGING BLANK SEE 68 07 142 91.
- USE KEEPER PLATE ONLY FOR PRE-ASSEMBLED AND INACCESSIBLE DEAD END ANCHORS. USE (3) BLACK HEX BOLTS, 1" LONG WITH NARROW WASHERS (BY OTHERS).

MATERIAL:  
STEEL FORGING, ASTM A-521-76  
NORMALIZED, BHN = 180-220.

APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH/mm  
mm FOR REFERENCE ONLY

QUALITY PLAN NUMBER:  
QS00014200F

TOLERANCES:  
 $\pm .020$   
UNLESS NOTED

WEIGHT  
7.5  
LBS.

REV.	DATE	NAME

PART NUMBER:  
**68 07 142**

**7-0.6" FORGED WEDGE PLATE**

MATERIAL:  
SEE ABOVE

SCALE  
1:2

DRAWING NUMBER:  
**6807142**

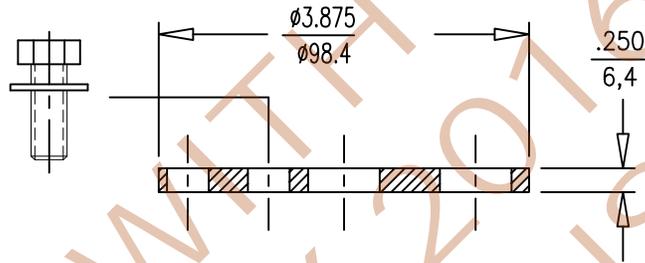
DATE: 05/02/92 | DWG: G. MALECKI | CHK: | APP: KL

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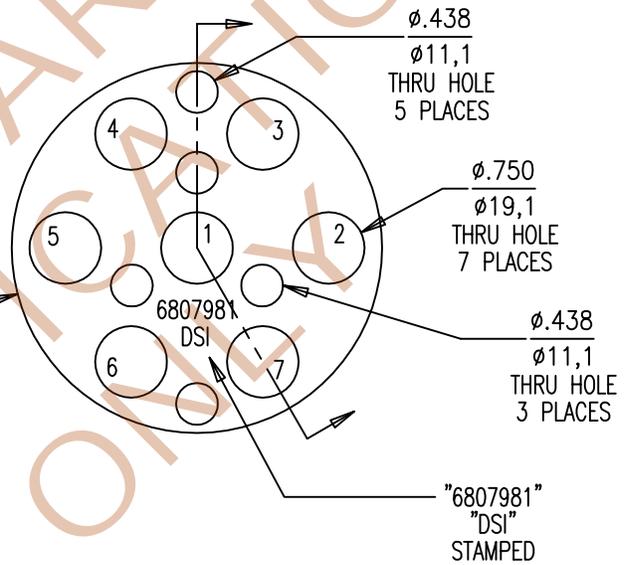
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PHONE: 630-739-1100 FAX: 630-739-1405



BLACK 3/8"-16UNC  
HEX BOLT 1" LONG  
WITH NARROW WASHER  
(3) PLACES (BY OTHERS)



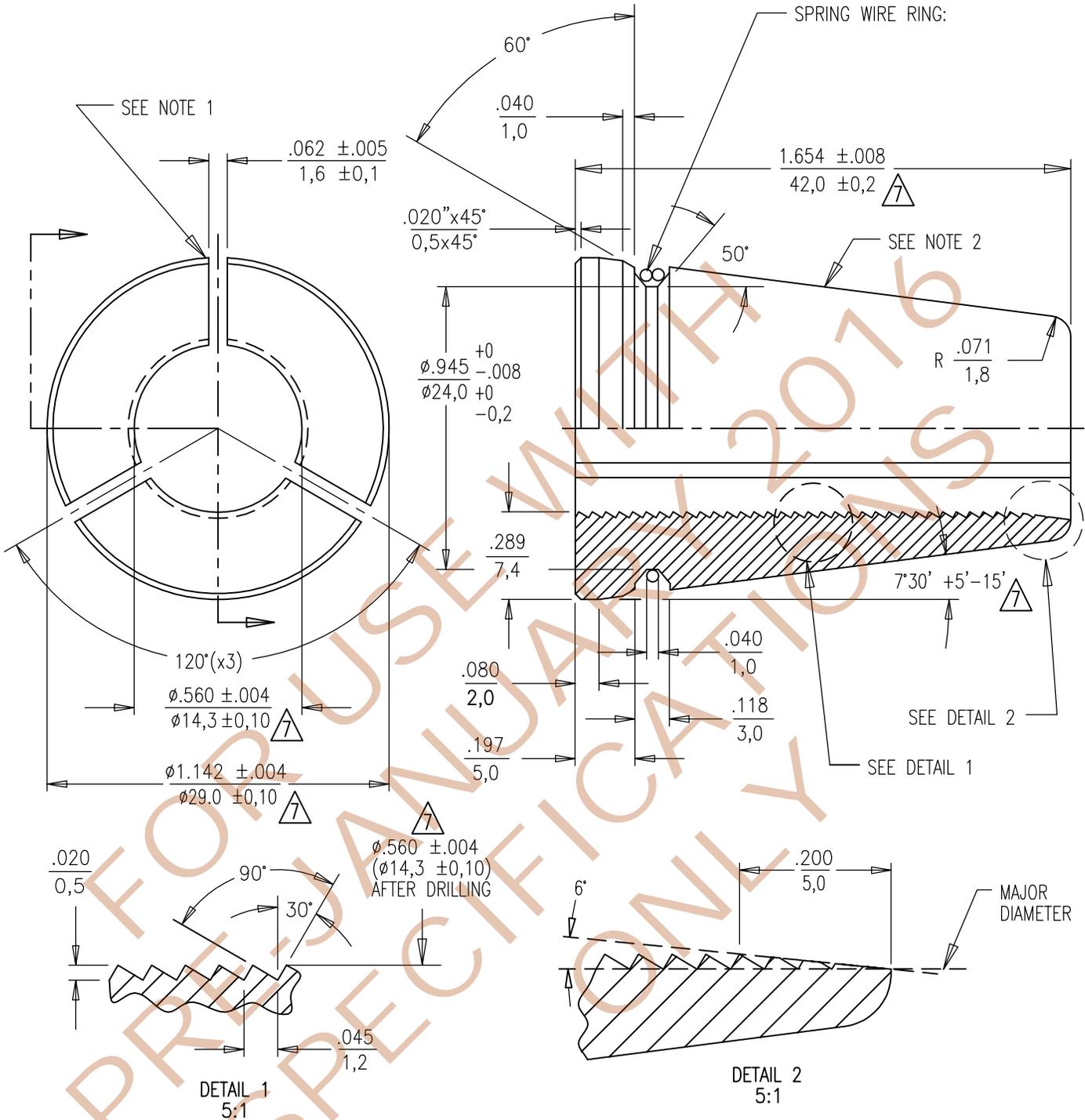
ROUND PLATE  
WITHOUT HOLES  
P/N 68 07 981 91



NOTE:  
USE KEEPER PLATE ONLY FOR PRE-ASSEMBLED  
AND INACCESSIBLE DEAD END ANCHORS.

APPROVED BY FDOT 02-15-13

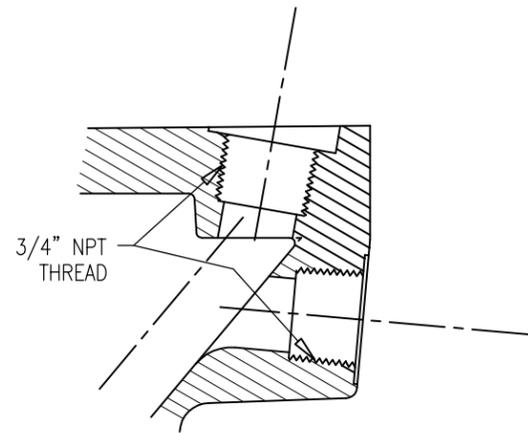
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60098100L		TOLERANCES: ±.020 UNLESS NOTED		WEIGHT 0.56 LBS.		REV.		DATE		NAME		PART NUMBER: <b>68 07 981</b>	
<b>7-0.6" KEEPER PLATE</b>				MATERIAL: AISI 1020 OR ASTM A36		SCALE 1:2								DRAWING NUMBER: <b>68 07 981</b>	
				DATE: 07-30-99		DWG: G. MALECKI		CHK: A.W.		APP: K.S.					
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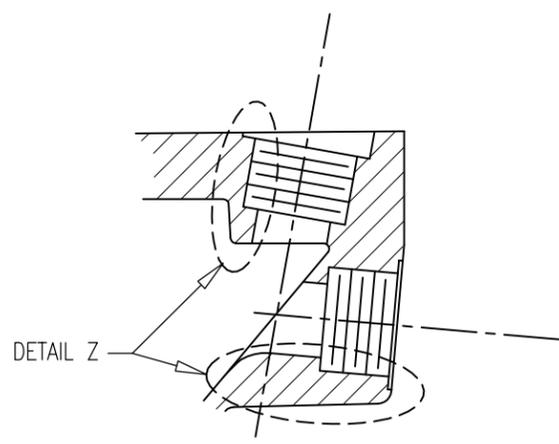
1. SHARP EDGES MUST BE BROKEN.
2. VIBRATE TO SURFACE FINISH OF 63 μIN. MAX.
3. DIP IN SQ70 OIL OR EQUIV. FOR CORROSION PROTECTION.
4. MAKE SURE THAT THE BUTRESS THREAD IS ORIENTED IN THE DIRECTION SHOWN ON THIS DRAWING.
5. NO STAMPED PART NUMBER

**APPROVED BY FDOT 05-31-07**

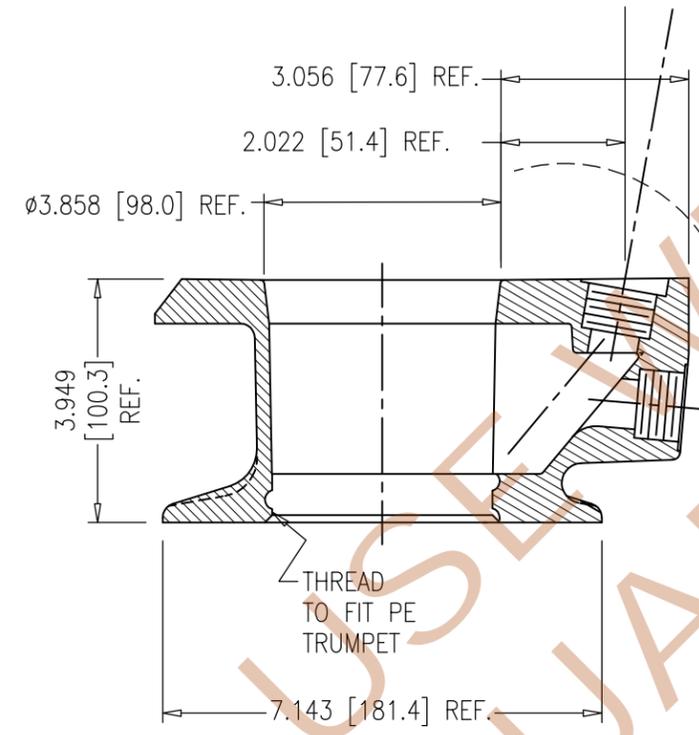
DIMENSIONS: INCH/mm mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS00000500D		TOLERANCES: ±.010; ±2° UNLESS NOTED		WEIGHT 0.19 LBS.		REV. DATE NAME		PART NUMBER: <b>68 00 0536</b>	
<b>3-PART WEDGE</b> <b>7° x 29 mm x 42 mm</b> <b>0.6" STRAND</b>				MATERIAL: SEE MAT'L SPEC. PMU0005360B		SCALE 2:1 5:1		3 05-31-01 C.S. ECRN-0074 4 02-18-04 C.S. ECRN-0098 5 09-17-04 C.S. ECRN-0104 6 12-15-06 S.N. 7 02-05-09 C.S. ECRN-0119		DRAWING NUMBER: <b>68 00 0536</b>	
DATE: <b>02-32-02</b>	DWG: G. MALECKI	CHK: C.S.	APP: K.L.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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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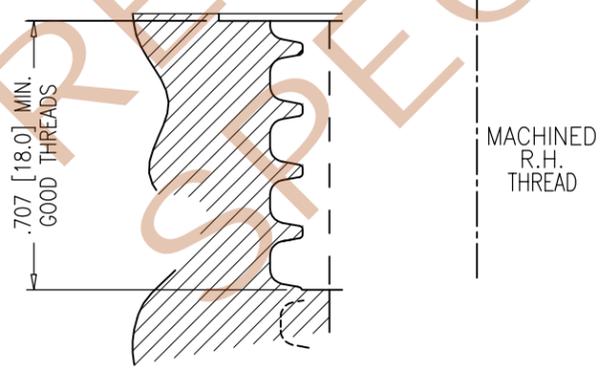
GROUT PORT THREADS  
WITH 3/4" NPT THREADS  
SCALE 3:2 IN COMPUTER



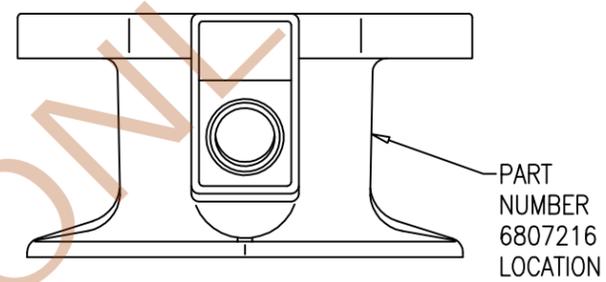
GROUT PORT THREADS  
WITH 21mm THREADS  
SCALE 3:2 IN COMPUTER



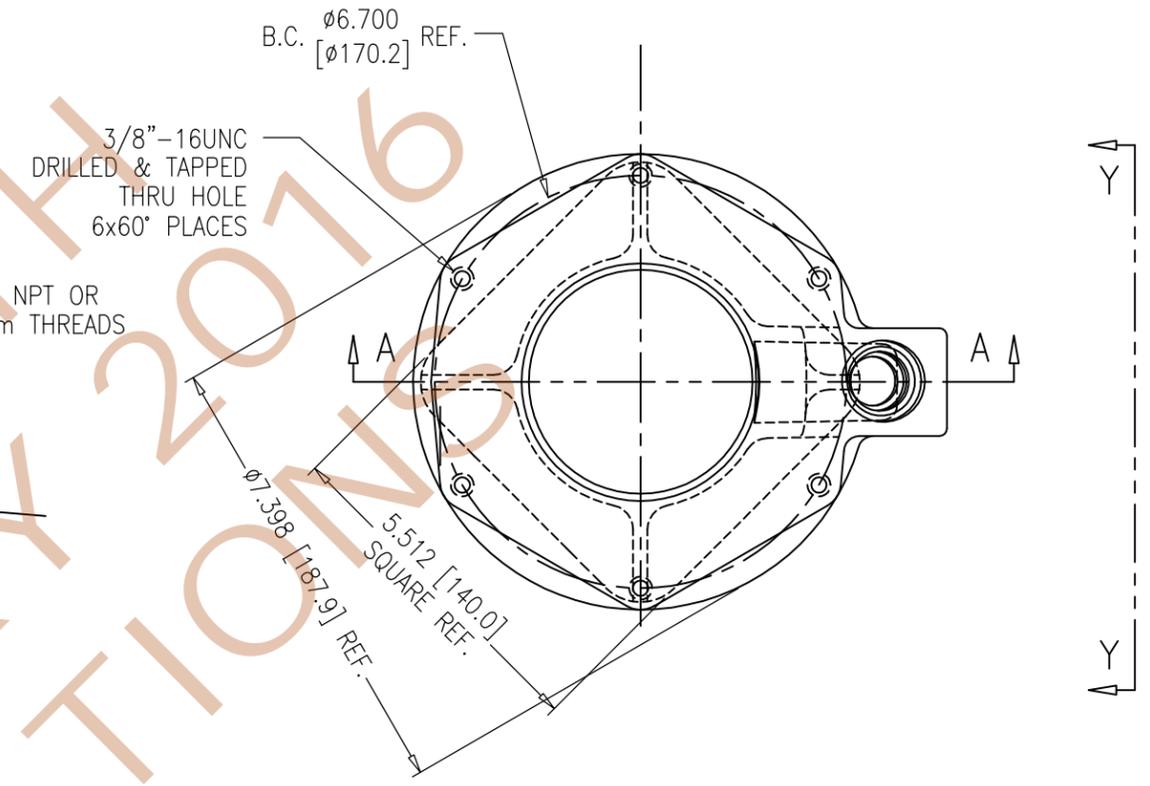
SECTION A-A  
(SHOWN WITH 21mm GROUT PORT THREADS)



DETAIL Z  
SCALE 6:1 IN COMPUTER



VIEW Y-Y



PART NUMBER	DESCRIPTION	GROUT PORT THREADS
68 07 238	GALVANIZED	21mm
68 07 248	GALVANIZED	3/4" NPT

SEE 68 07 216 90 FOR RAW CASTING. ALL PARTS  
HAVE 3/8"-16UNC THREADS ADDED TO RAW CASTING.

- NOTES FOR GALVANIZING PARTS:
1. AFTER CASTING IS STRIPPED, GRIND AND TOUCH UP TOP AND BOTTOM SURFACES AS NECESSARY TO ELIMINATE ANY PARTING LINES OR UNEVEN AREAS.
  2. GALVANIZE ACCORDING TO ASTM A123 AND TAKE CARE HOW CASTINGS ARE STORED TO PREVENT RUST.
  3. DRILL & TAP BOLT HOLES AND GROUT PORTS AND MACHINE GROOVE IN BOTTOM OF ANCHOR USING A WATER BASED CUTTING FLUID AND SPRAY THEM WITH ZINC RICH PAINT ACCORDING TO ASTM A780, ENSURE THREADABILITY.

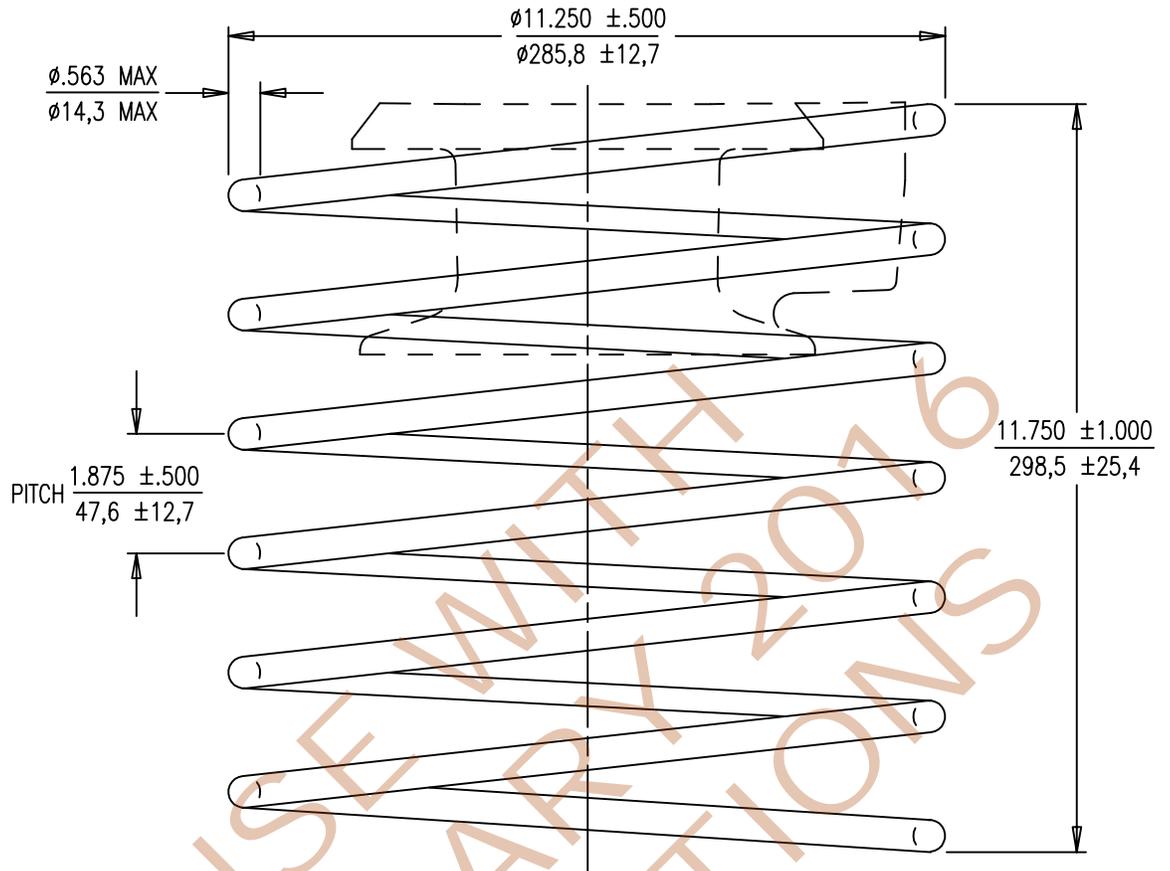
APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 10 LBS.	REV.	DATE	NAME	PART NUMBER: 68 07 216 68 07 238 68 07 246 68 07 248 DRAWING NUMBER: 68 07 216
<b>7-0.6"/9-0.5" MULTI-PLANE ANCHOR WITH TWO GROUT PORTS</b>				MATERIAL: SEE MAT'L SPEC. PM0021200C	SCALE 1:3				
DATE: 10-13-04	DWG: G. MALECKI	CHK: H.K.	APP: K.S.						

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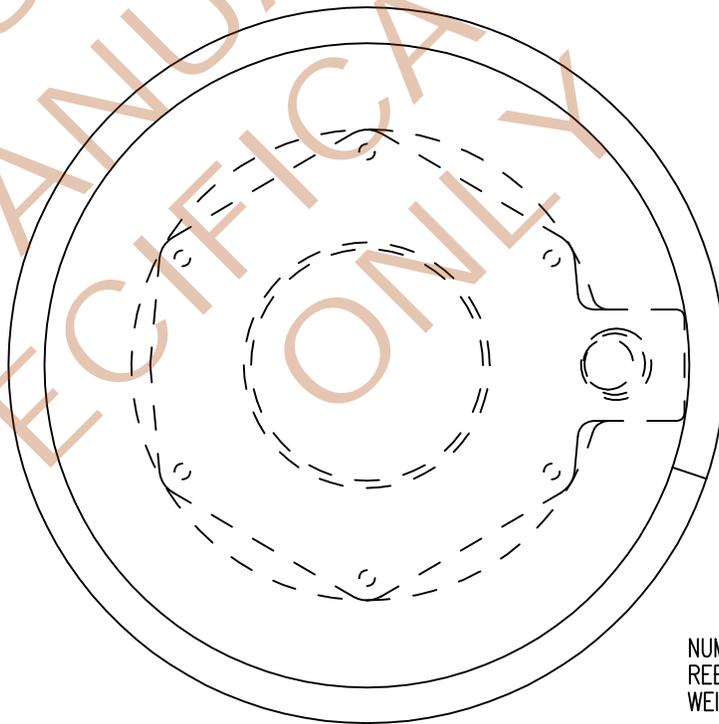
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**NOTES:**

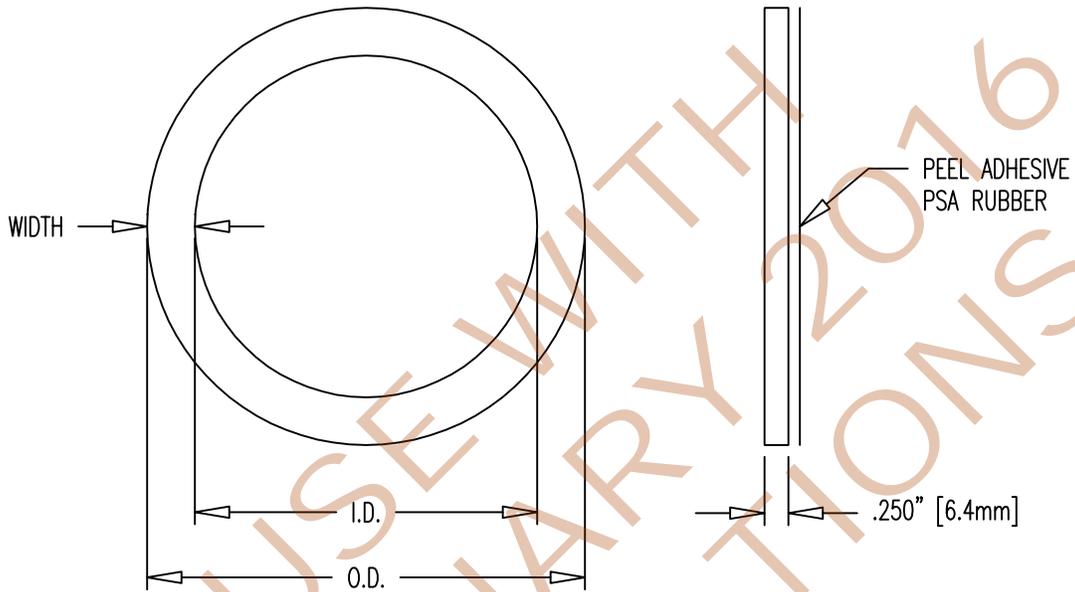
1. SPIRAL IS MADE FROM STANDARD #4 REBAR, NO PART NUMBER MARKING IS SHOWN.
2. KEEP SPIRAL AND MPA AXIS ALIGNED, IF USING SIDE PORT, ROTATE SPIRAL TO CLEAR.



NUMBER OF TURNS: 6  
 REBAR LENGTH: 16'-11"  
 WEIGHT: 11.3 LBS.

APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60021400A		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 11.3 LBS.	REV.	DATE	NAME	PART NUMBER: <b>68 07 254</b>	
<b>STANDARD SPIRAL FOR 7-0.6"/9-0.5" MPA</b>				MATERIAL: ASTM A615 SIZE #4, GR 60	SCALE 1:3				DRAWING NUMBER: <b>68 07 254</b>	
				DATE: 01-19-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.			
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI's</b> SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				<b>DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.</b> 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405						

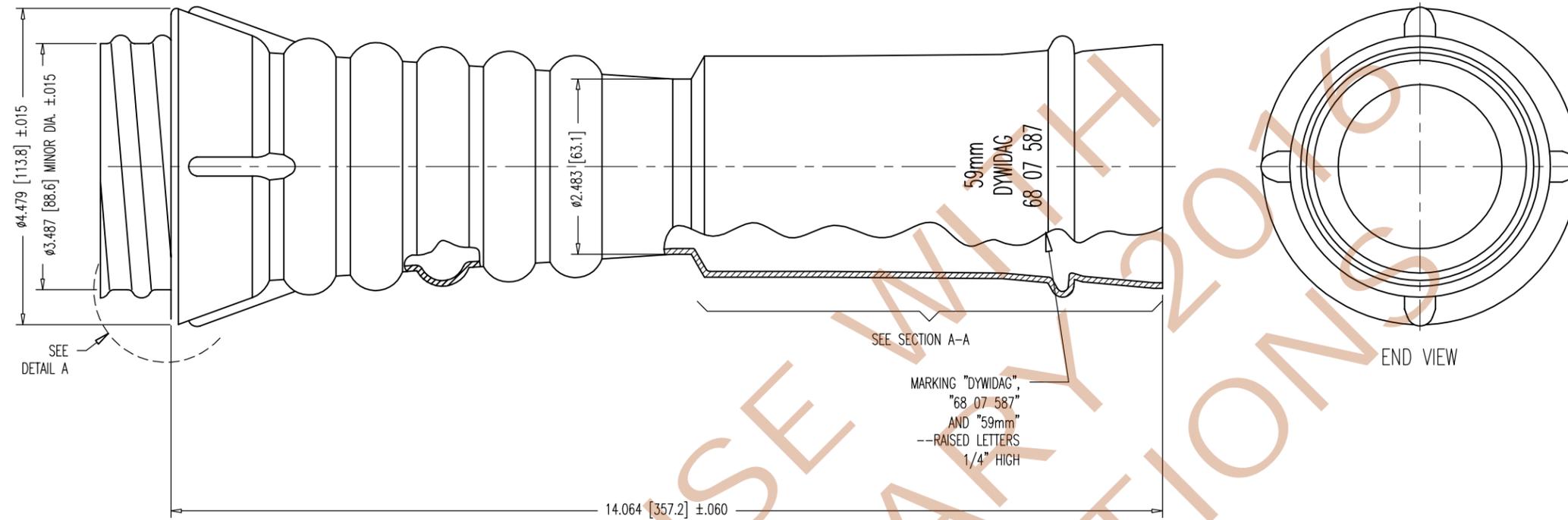


PART NUMBER	SYSTEM	O.D.	I.D.	WIDTH
68 07 584	7-0.6"	ø4.580" [116mm]	ø3.580" [91mm]	.500" [12.7mm]
68 12 584	12-0.6"	ø5.695" [145mm]	ø4.820" [122mm]	.438" [11.1mm]
68 19 584	19-0.6"	ø6.675" [170mm]	ø5.800" [147mm]	.438" [11.1mm]
68 27 584	27-0.6"	ø7.340" [186mm]	ø6.340" [161mm]	.500" [12.7mm]

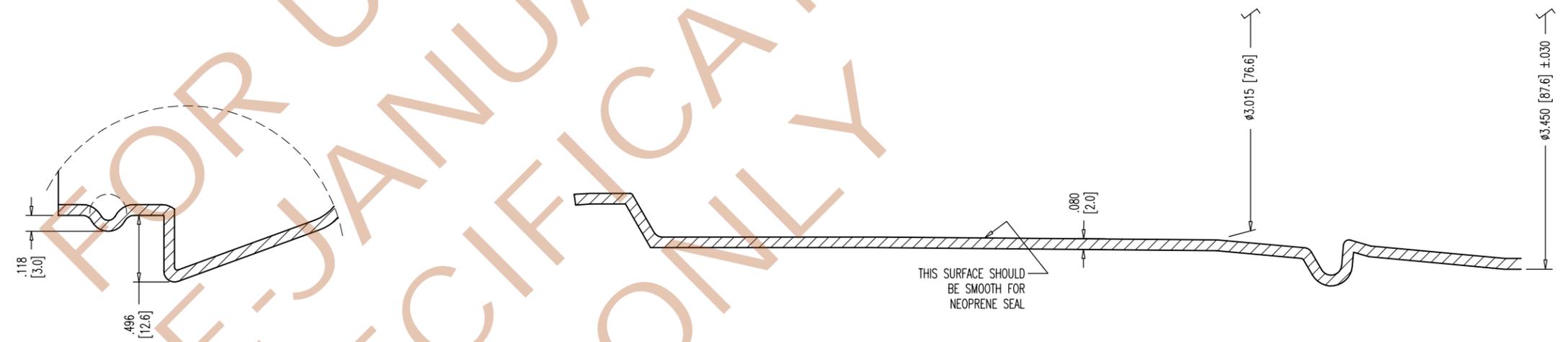
NOTE:  
SPECIAL ORDER  
NO STAMPED PART NUMBER

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60063300R		TOLERANCES: ±.030 UNLESS NOTED		REV.	DATE	NAME	PART NUMBER: <b>68 07 584</b> <b>68 12 584</b> <b>68 19 584</b> <b>68 27 584</b>		
<b>RUBBER SEAL BETWEEN MPA AND TRUMPET</b>				MATERIAL: CLOSED CELL NEOPRENE BLEND		SCALE NTS				DRAWING NUMBER: <b>68 00 584</b>	
				DATE: 09-14-07	DWG: G. MALECKI	CHK: C.N.	APP: E.A.				
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405							



MARKING "DYWIDAG",  
 "68 07 587"  
 AND "59mm"  
 --RAISED LETTERS  
 1/4" HIGH



DETAIL A  
 THREAD FITS INTO 7-0.6" MPA  
 CASTING (SEE DRAWING 68 07 216)

SECTION A-A  
 (THESE INSIDE DIMENSIONS ARE MORE  
 IMPORTANT THAN OUTSIDE DIMENSIONS,  
 MUST FIT OVER 59mm GTI DUCT U00220400)

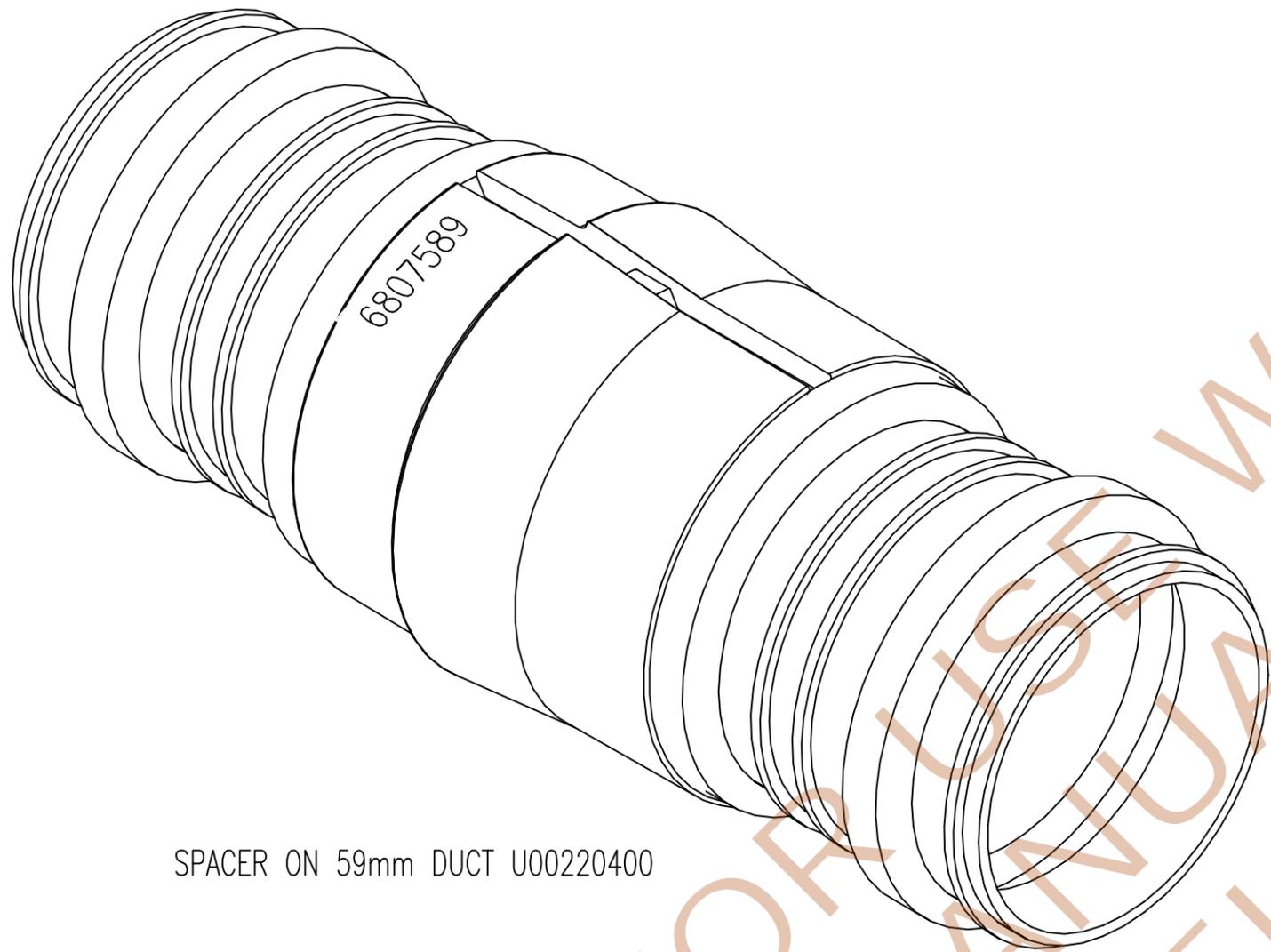


**MATERIAL SPECIFICATIONS:**  
 MANUFACTURE TRUMPETS FROM NON-COLORED,  
 UNFILLED POLYETHYLENE MEETING THE REQUIREMENTS  
 OF ASTM D4976. THE TRUMPET SHALL BE WHITE IN  
 COLOR CONTAINING ANTIOXIDANT(S) WITH A MINIMUM  
 OXIDATION INDUCTION TIME (OIT) ACCORDING TO ASTM  
 D 3895 OF 20 MINUTES AND CONTAINING A NON-YELLOWING  
 LIGHT STABILIZER. THE STRESS CRACK RESISTANCE TEST OF  
 THE TRUMPET SHALL RESULT IN A MINIMUM FAILURE TIME OF  
 3 HOURS ACCORDING TO F 2136 AT AN APPLIED STRESS OF 348 PSI

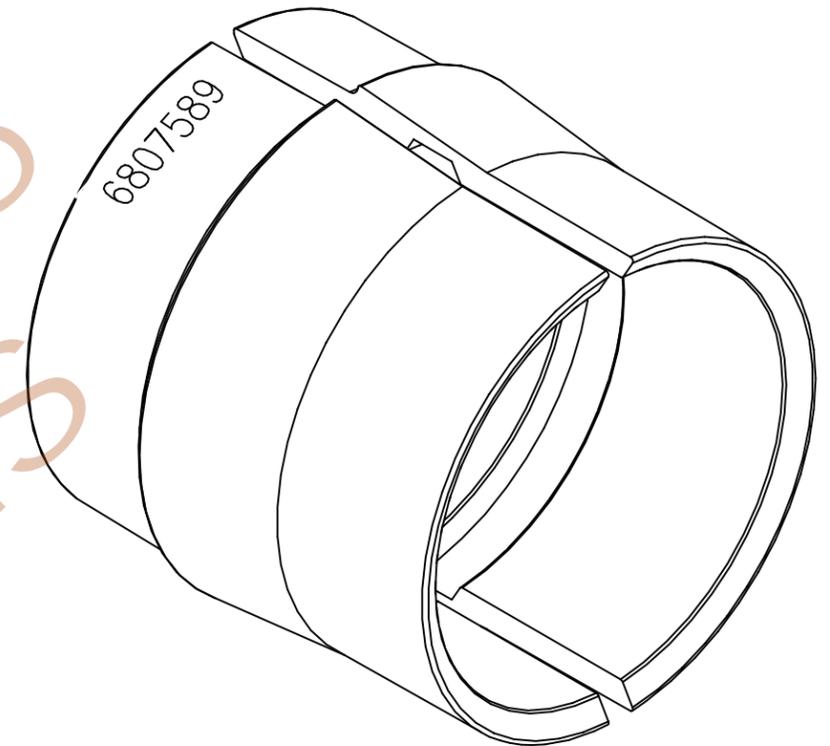
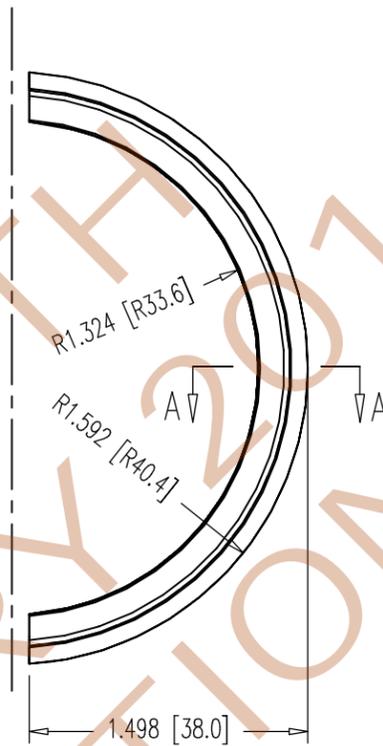
APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60058800P		TOLERANCES: $\pm 0.20$ UNLESS NOTED	WEIGHT	REV. 1	DATE 09-14-07	NAME S.N.	PART NUMBER: <b>68 07 587</b>
<b>7-0.6" TRUMPET FOR MPA TO 59mm GTI DUCT</b>				MATERIAL: SEE ABOVE	SCALE 1:2 1:1				DRAWING NUMBER: <b>68 07 587</b>
DATE: 10-16-06	DWG: G. MALECKI	CHK: E.A.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL,          USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI</b> 's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.					
<b>DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.</b> POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405									



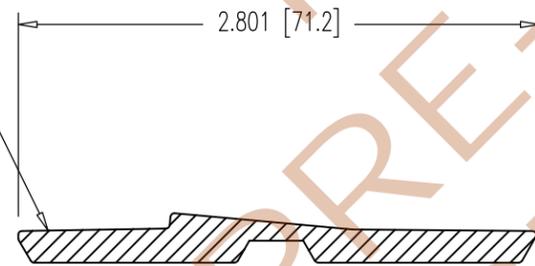


SPACER ON 59mm DUCT U00220400



SPACER 68 07 589  
(TWO SEGMENTS REQUIRED)

"DSI 68 07 589 59mm"  
MARKING

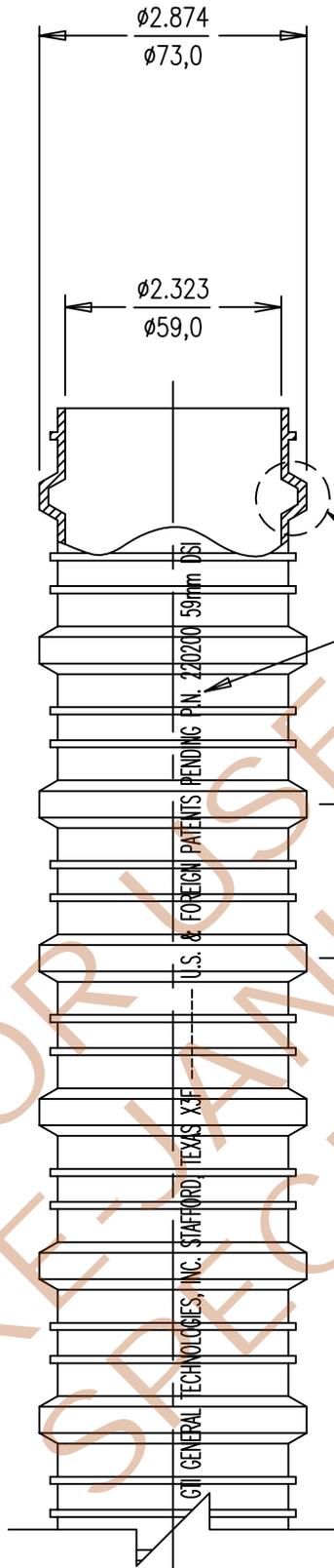


SECTION A-A

**MATERIAL:**  
 NYLON 6, 20% GLASS FIBER FILLED.  
 THE 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).

APPROVED BY FDOT 02-15-13

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QU00041110P		TOLERANCES: ±.010 UNLESS NOTED	WEIGHT LBS.	REV.	DATE	NAME	PART NUMBER: <b>68 07 589</b>
<b>FILLER PIECE FOR 7-0.6" TRUMPET AND 2-3/8" (59mm) CORRUGATED PP DUCT</b>				MATERIAL: SEE ABOVE	SCALE 1:1				DRAWING NUMBER: <b>68 07 589</b>
DATE: 07-08-05	DWG: G. MALECKI	CHK: E.A.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL,          USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI's</b> SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.					
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405									



DETAIL  
SCALE 1:1

SEE DETAIL

RUNNING LATEX PRINT:  
"GTI GENERAL TECHNOLOGIES, INC. STAFFORD,  
TEXAS X3F ----- U.S. & FOREIGN  
PATENTS PENDING P.N. 220200 59mm DSI"  
(----- = BATCH NUMBER).

MATERIAL SPECIFICATIONS:  
MANUFACTURE DUCTS FROM NON-COLORED,  
UNFILLED POLYPROPYLENE MEETING THE  
REQUIREMENTS OF ASTM D4101 WITH A CELL  
CLASSIFICATION RANGE OF PP0340B44541  
TO PP0340B67884. THE DUCT SHALL BE  
WHITE IN COLOR CONTAINING ANTIOXIDANT(S)  
WITH A MINIMUM OXIDATION INDUCTION TIME  
(OIT) ACCORDING TO ASTM D 3895 OF 20  
MINUTES AND CONTAINING A NON-YELLOWING  
LIGHT STABILIZER. 

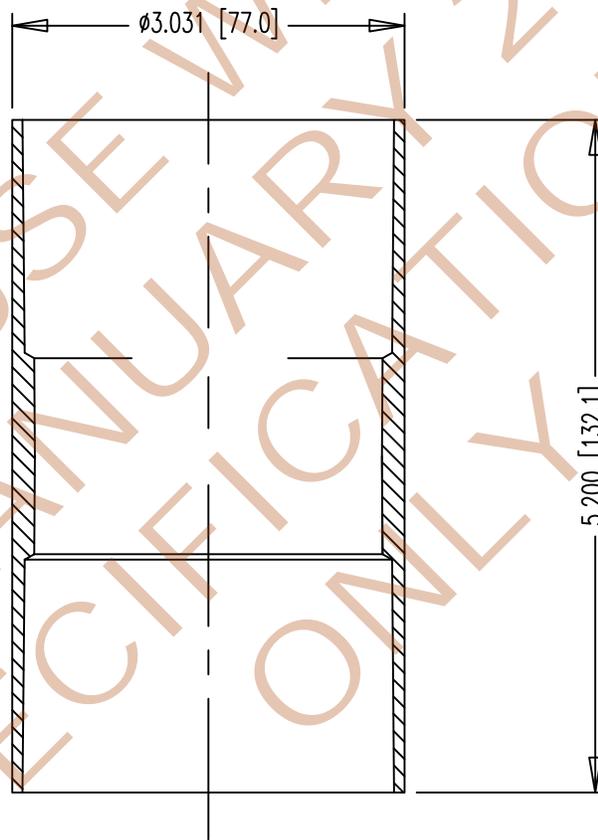
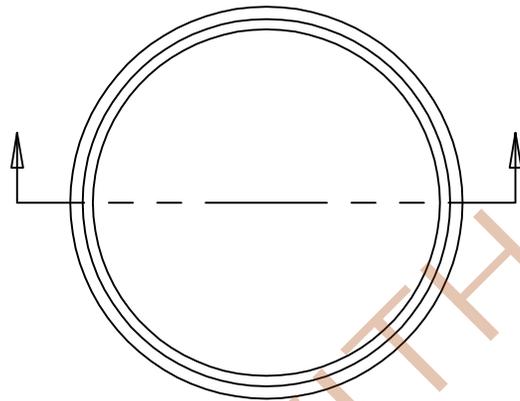
NOTES:

1. GTI GENERAL TECHNOLOGIES, INC. STAFFORD, TEXAS X3F  
----- U.S. & FOREIGN PATENTS PENDING  
P.N. 220200 59mm DSI (----- IS BATCH NO.).
2. REFERENCE GTI DRAWING 220200.
3. STANDARD FIT FOR 5-0.6", 7-0.5", 7-0.6"  
AND 9-0.5" STRANDS.
4. THIS DRAWING IS NOT INTENDED FOR MANUFACTURING  
PURPOSES.
5. Min. BENDING RADIUS,  $R_{min} = 22.8$  FT.
6. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT  
INTENDED TO BE COILED.

APPROVED BY FDOT 09-22-08

PART WAS U00220400.

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QU00041110P		TOLERANCES: $\pm 0.20$ UNLESS NOTED	WEIGHT 0.296 LBS/FT	REV. 1	DATE 01-28-13	NAME S.N.	PART NUMBER: <b>U00220200</b>
<b>2-3/8" (59mm) CORRUGATED PP DUCT</b>				MATERIAL: SEE ABOVE	SCALE 1:2				DRAWING NUMBER: <b>U00220200</b>
DATE: 04-23-96	DWG: G. MALECKI	CHK: H.K.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL,          USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI's</b> SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.					
<b>DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.</b> POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405									

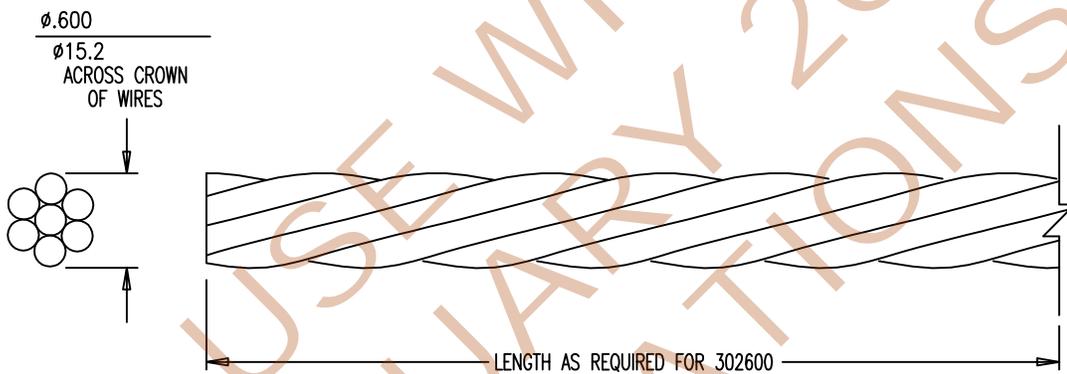


FOR USE WITH PRE-JANUARY 2016 SPECIFICATIONS ONLY

APPROVED BY FDOT 09-22-08

PART WAS U00220440. REFERENCE GTI DWG 220205.

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALITY PLAN NUMBER: QSA0028000P	TOLERANCES: ±.005 UNLESS NOTED	WEIGHT 0.23 LBS.	REV.	DATE	NAME	PART NUMBER: <b>U00220205</b>	
Ø2-3/8" (59mm) DUCT COUPLER		MATERIAL: HDPE	SCALE 2:3				DRAWING NUMBER: <b>U00220205</b>	
DATE: 10-25-99	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.					
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI</b> 's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				<b>DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.</b> 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405				

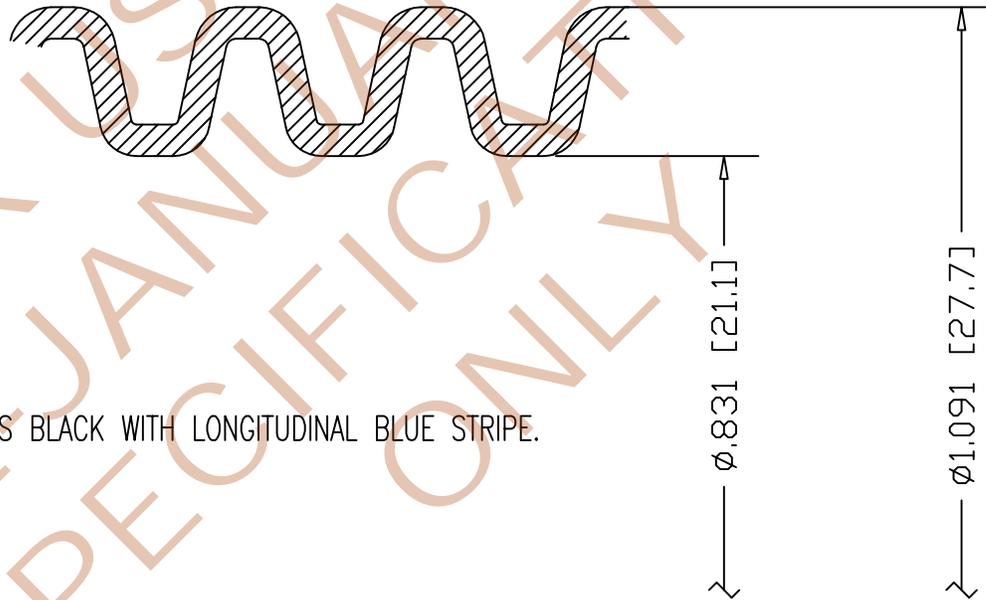
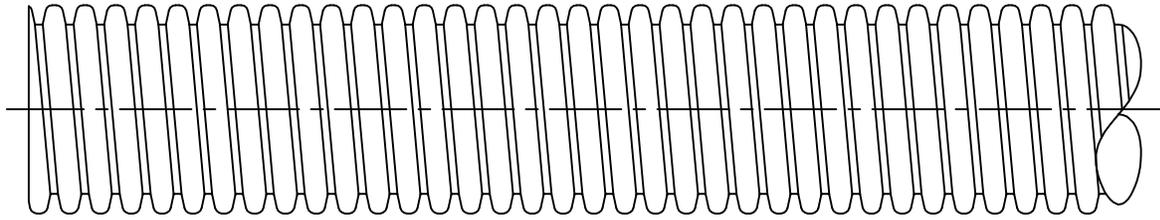


NOTES:  
 1. NO PART NUMBER OR IDENTIFICATION MARKS ON STRAND.



**APPROVED BY FDOT 05-31-07**

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS000301000		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT .738 PER/FT	REV. 1	DATE 08-04-08	NAME S.N.	PART NUMBER: <b>302600</b>
<b>0.6" BARE 270 KSI STRAND</b>				MATERIAL: SEE MAT'L SPEC. PM30106000S	SCALE 1:1				DRAWING NUMBER: <b>302600</b>
				DATE: 09-14-07	DWG: G. MALECKI	CHK: C.S.	APP: K.S.		
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100			FAX: 630-739-1405		



NOTES:

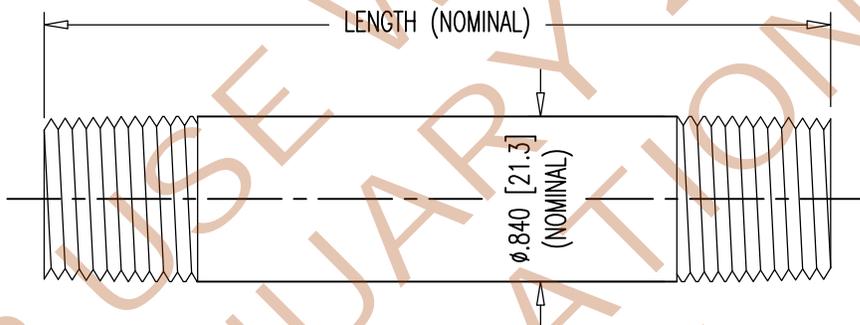
1. GROUT TUBE IS BLACK WITH LONGITUDINAL BLUE STRIPE.

MANUFACTURER: DSI

MANUFACTURER'S PART NUMBER: 00 00 801

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] IN. FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED		REV.	DATE	NAME	PART NUMBER: <b>00 00 801</b>		
<b>21mm GROUT TUBE, STANDARD DUTY</b>				MATERIAL: HDPE		SCALE 1:1 6:1		DRAWING NUMBER: <b>00 00 801</b>			
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.	MEETING OIT REQUIREMENTS							
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100				FAX: 630-739-1405			

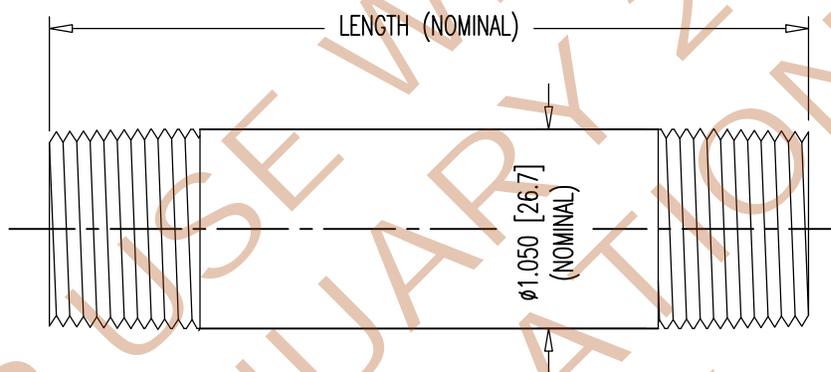


FOR USE WITH 2016 PRE-SPECIFICALLY

PART NUMBER	LENGTH	WEIGHT
00 00 672	4" [101.6mm]	0.28 LBS.
00 00 674	6" [152.4mm]	0.43 LBS.
00 00 676	12" [304.8mm]	0.85 LBS.

APPROVED BY FDOT 09-14-07

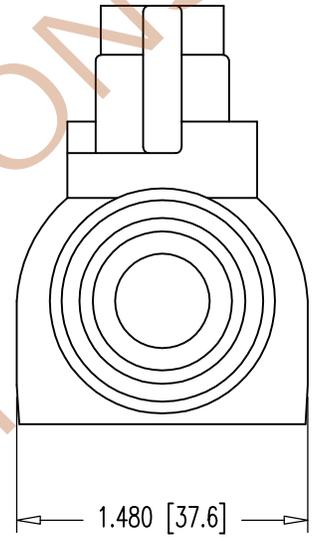
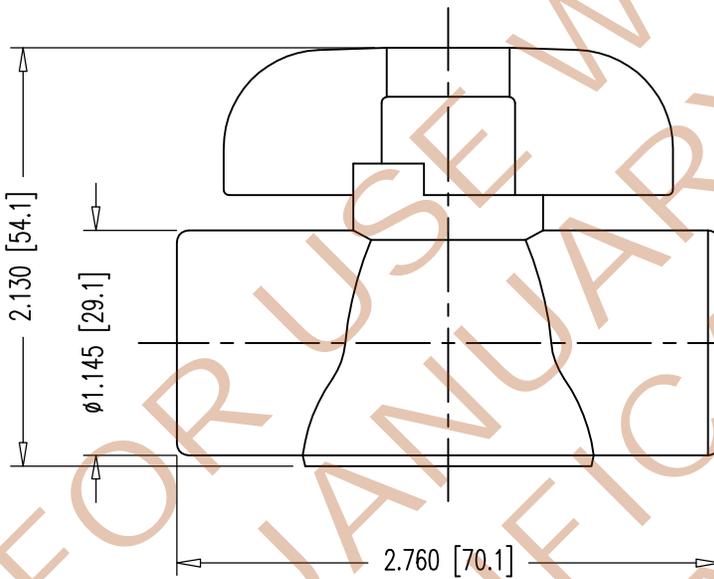
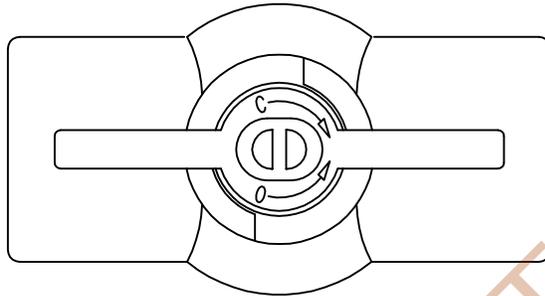
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALITY PLAN NUMBER: Q00000020P			REV.	DATE	NAME		PART NUMBER: <b>SEE TABLE</b>	
1/2" NPT PIPE NIPPLES				MATERIAL: SCH 40 BLACK WELDED SYTEEL		SCALE 1:1		DRAWING NUMBER: <b>00 00 676</b>	
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: K.S.						
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI</b> 's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				<b>DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.</b> 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405					



PART NUMBER	LENGTH	WEIGHT
00 00 872	4" [101.6mm]	0.38 LBS.
00 00 874	6" [152.4mm]	0.57 LBS.
00 00 876	12" [304.8mm]	1.13 LBS.

APPROVED BY FDOT 09-14-07

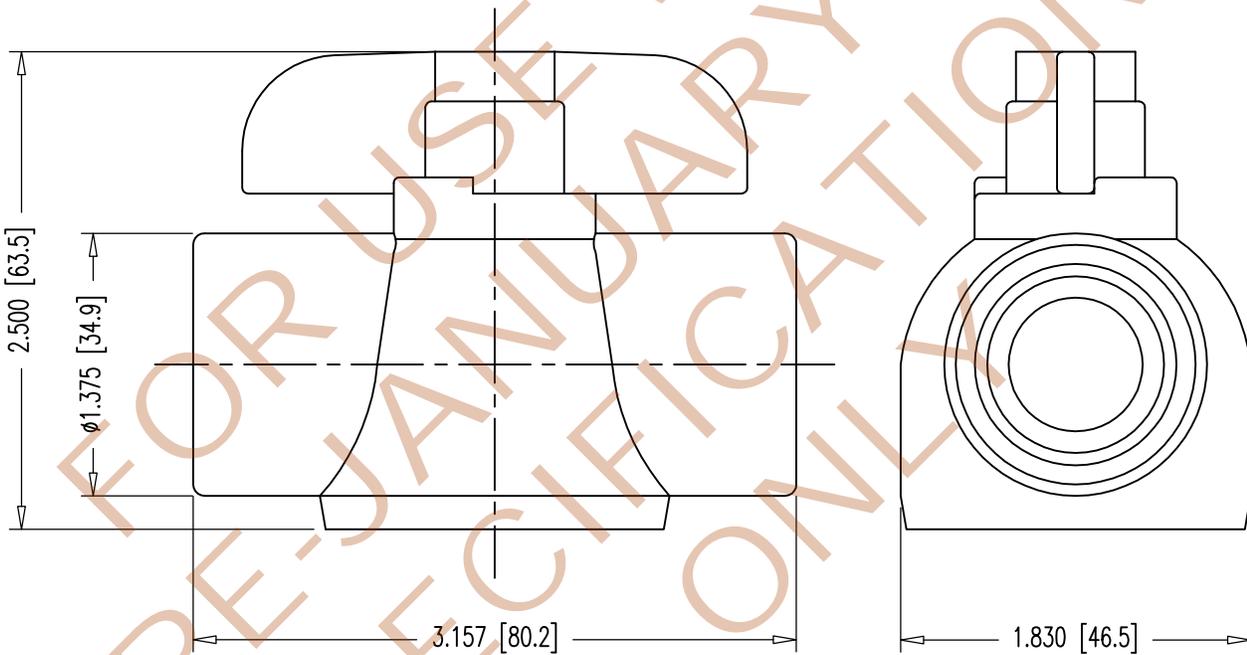
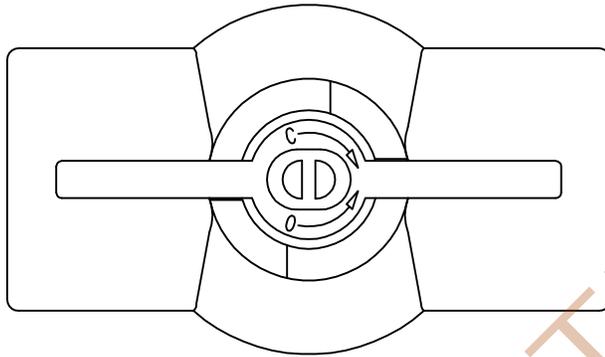
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000020P		REV.	DATE	NAME	PART NUMBER: <b>SEE TABLE</b>
<b>3/4" NPT PIPE NIPPLES</b>				MATERIAL: SCH 40 BLACK WELDED STEEL	SCALE 1:1		DRAWING NUMBER: <b>00 00 876</b>
				DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: K.S.
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405			



NOTE:  
 ALL DIMENSION MEASURED.  
 SPECIAL ORDER: NO STAMPED PART NUMBER.  
 SUPPLIER: KING BROTHERS  
 SUPPLIER PART NO. EBV-0500-T

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		WEIGHT 0.138 LBS.	REV.	DATE	NAME	PART NUMBER: <b>00 00 634</b>
<b>1/2" NPT BALL VALVE</b>								
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.	DWYDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405				
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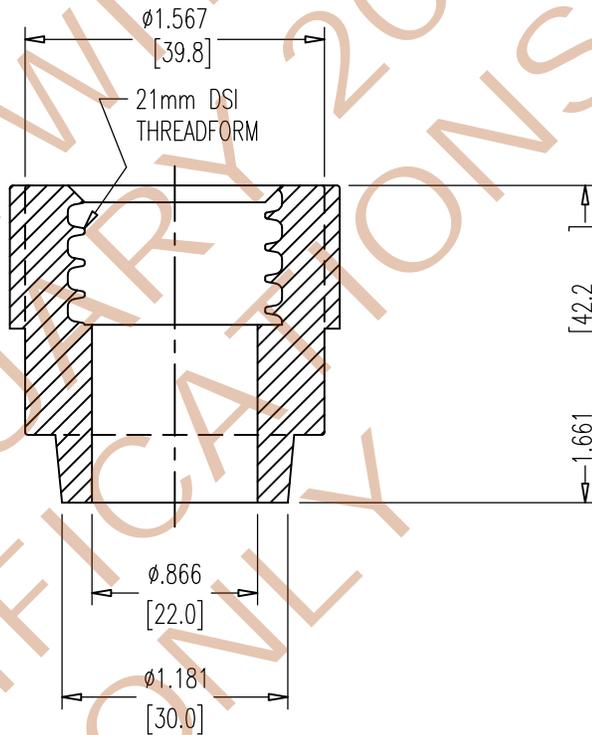
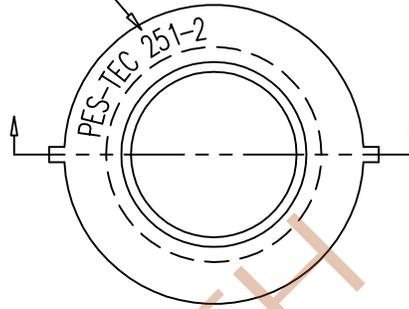
NOTE:  
ALL DIMENSION MEASURED.

SUPPLIER: KING BROTHERS  
SUPPLIER PART NO. EBV-0750-T

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		WEIGHT 0.213 LBS.	REV.	DATE	NAME	PART NUMBER: <b>00 00 834</b>
<b>3/4" NPT BALL VALVE</b>								
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405				
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. 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.								

"PES-TEC" & "251-2"  
MARKINGS



MANUFACTURER: PES-TEC.  
MANUFACTURER PART NUMBER: 251-2.

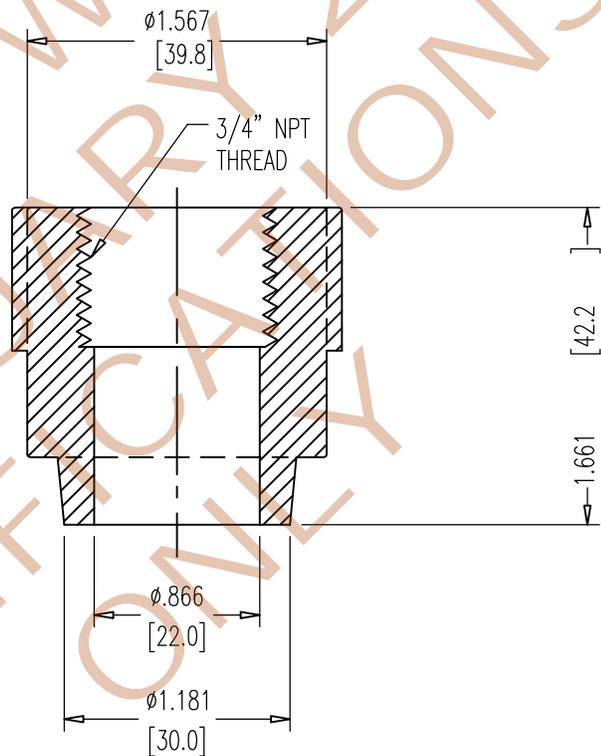
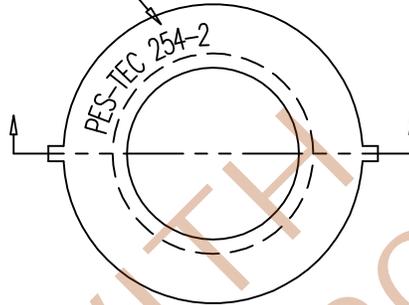
WELDING OPERATIONS:  
DRILL A HOLE USING SPECIFIED CONE DRILL TOOL WHEREVER NEEDED IN COMMON POLYPROPYLENE DUCTS OF ALL BRANDS. HEAT UP POLYPROPYLENE GROUT PORT AND THE HOLE IN DUCT FOR ABOUT 10 SECONDS USING PES-TEC WELDING EQUIPMENT. RELEASE THE GROUT PORT AND PRESS INTO THE HOLE IN DUCT BY HAND FOR 15 SECONDS.

MATERIAL: POLYPROPYLENE  
COLOR: GREY  
USAGE: FOR GTI CORRUGATED INTERNAL DUCTS.

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED		WEIGHT 0.062 LBS.		REV.		DATE		NAME		PART NUMBER: <b>00 00 857</b>	
<b>21mm PP GROUT VENT PORT</b>				MATERIAL: POLYPROPYLENE (GREY COLOR)		SCALE 1:1		1		05-09-07		S.N.		DRAWING NUMBER: <b>00 00 857</b>	
								2		08-14-07		S.N.			
DATE: 09-14-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.												
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"PES-TEC" & "254-2"  
MARKINGS



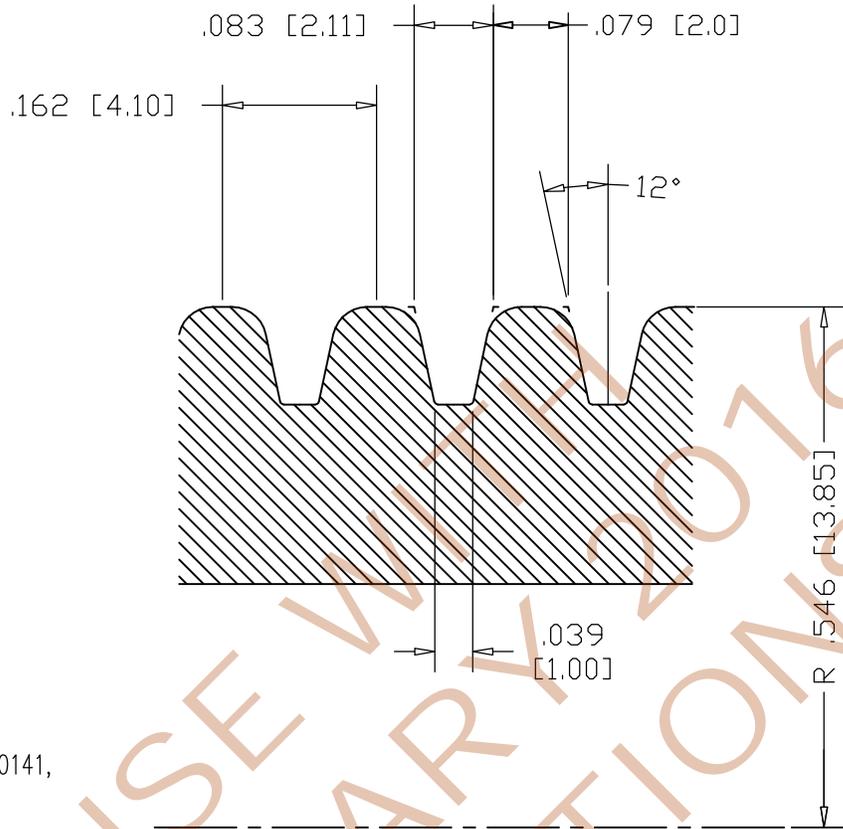
MANUFACTURER: PES-TEC.  
MANUFACTURER PART NUMBER: 254-2.

WELDING OPERATIONS:  
DRILL A HOLE USING SPECIFIED CONE DRILL TOOL WHEREVER NEEDED IN COMMON POLYPROPYLENE DUCTS OF ALL BRANDS. HEAT UP POLYPROPYLENE GROUT PORT AND THE HOLE IN DUCT FOR ABOUT 10 SECONDS USING PES-TEC WELDING EQUIPMENT. RELEASE THE GROUT PORT AND PRESS INTO THE HOLE IN DUCT BY HAND FOR 15 SECONDS.

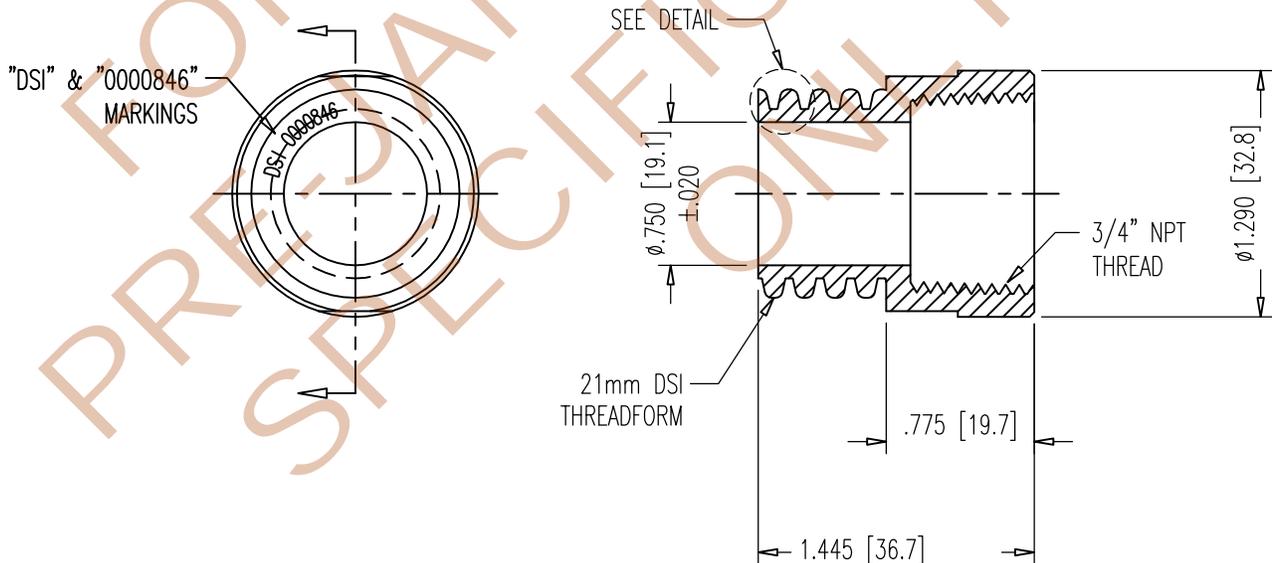
MATERIAL: POLYPROPYLENE  
COLOR: GREY  
USAGE: FOR GTI CORRUGATED INTERNAL DUCTS.

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 0.062 LBS.	REV.	DATE	NAME	PART NUMBER: <b>00 00 855</b>	
<b>3/4" NPT PP GROUT VENT PORT</b>				MATERIAL: POLYPROPYLENE (GREY COLOR)	SCALE 1:1				DRAWING NUMBER: <b>00 00 855</b>	
				DATE: 09-14-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.			
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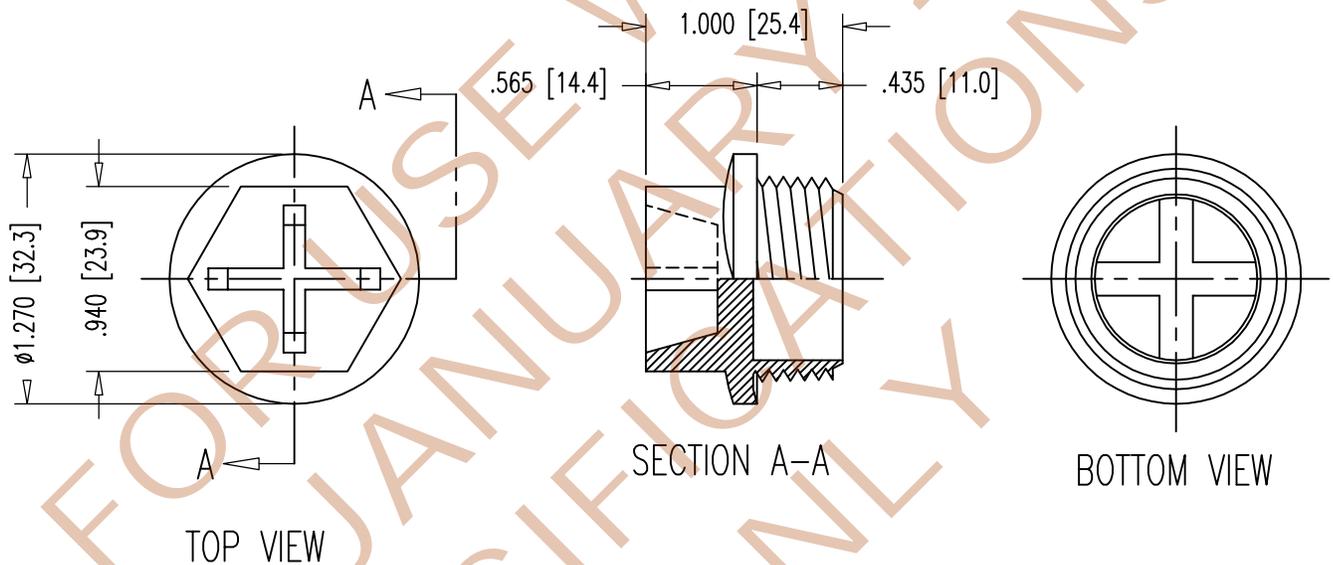
MATERIAL:  
 20% GLASS FILLED NYLON  
 WITH A CELL CLASS S-PA 0141,  
 S-PA 0231 OR S-PA 0401  
 COLOR: GREY



MANUFACTURER: DSI  
 MANUFACTURER'S PART NUMBER: 00 00 846

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 0.06 LBS.	REV.	DATE	NAME	PART NUMBER: <b>00 00 846</b>
<b>21mm MALE-3/4" NPT FEMALE CONNECTOR</b>				MATERIAL: SEE ABOVE	SCALE 1:1 5:1				DRAWING NUMBER: <b>00 00 846</b>
				DATE: 09-14-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.		
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NOTE:  
 ALL DIMENSIONS MEASURED.  
 SPECIAL ORDER: NO STAMPED PART NUMBER.

SUPPLIER:  
 NIAGARA PLASTICS (CAPPLUGS)   
 SUPPLIER PART # : BT 0750

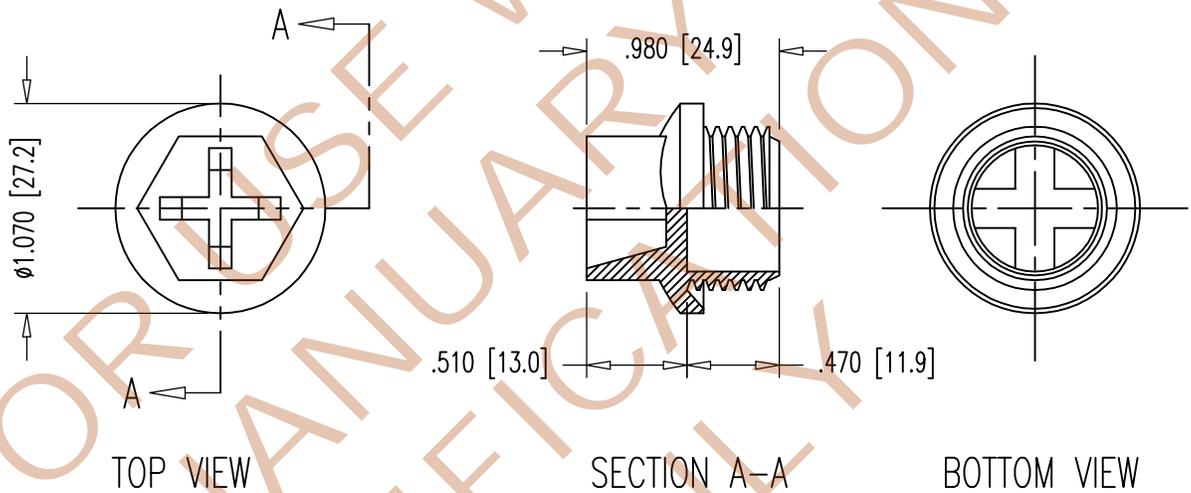
**APPROVED BY FDOT 05-31-07**

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q00000040P		TOLERANCES: ±.010 UNLESS NOTED	WEIGHT LBS.	REV. 1	DATE 08-19-08	NAME S.Y.	PART NUMBER: <b>00 00 847</b>
<b>BT 0750 (3/4") NPT NYLON PLUG</b>				MATERIAL: NYLON 6 COLOR: BLACK	SCALE 1:1				DRAWING NUMBER: <b>00 00 847</b>
DATE: 05-31-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.						

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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.  
 320 MARMON DRIVE - BOLINGBROOK, IL 60440  
 PHONE: 630-739-1100 FAX: 630-739-1405





NOTE:  
 ALL DIMENSIONS FROM NIAGARA PLASTICS TABLE.  
 SPECIAL ORDER: NO STAMPED PART NUMBER.

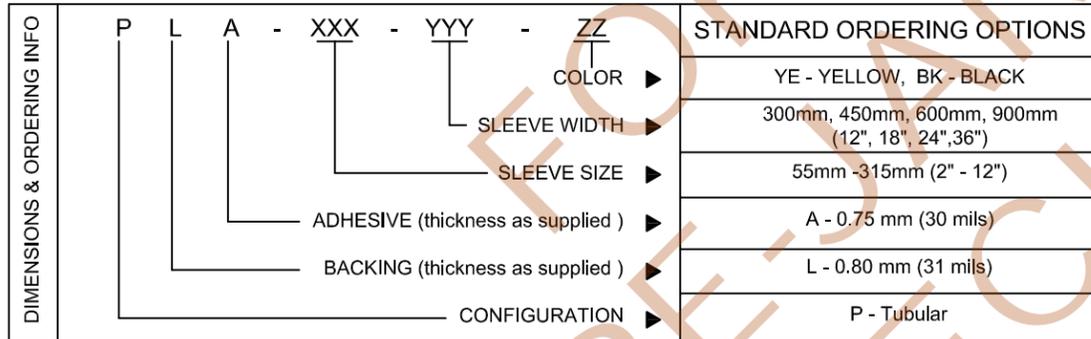
SUPPLIER:  
 NIAGARA PLASTICS (CAPPLUGS)  $\triangle 1$   
 SUPPLIER PART # : BT 0500

APPROVED BY FDOT 12-12-07

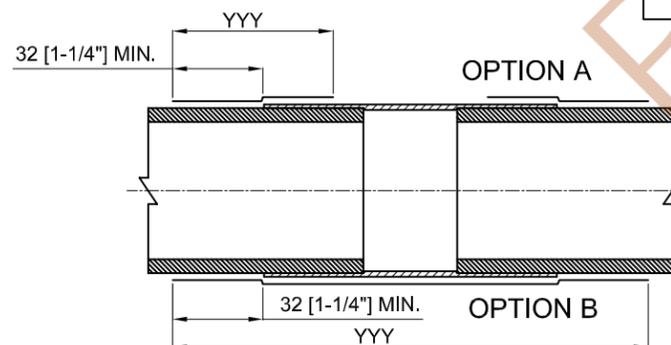
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000040P		TOLERANCES: $\pm .020$ UNLESS NOTED	WEIGHT 0.019 LBS.	REV. 1	DATE 08-19-08	NAME S.Y.	PART NUMBER: <b>00 00 647</b>
<b>BT 0500 (1/2") NYLON PLUG</b>				MATERIAL: NYLON 6 COLOR: YELLOW	SCALE 1:1				DRAWING NUMBER: <b>00 00 647</b>
DATE: 01-17-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF <b>DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.</b> THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY <b>DSI's</b> SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.					
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100      FAX: 630-739-1405									

## HEAT SHRINK SLEEVES - PLA TYPE UNO

TENDON SIZE		1 x 0.6"	3 x 0.6"	4 x 0.6"	1 x 0.6"	7 x 0.6" 1 3/8"	9 x 0.6" 1 3/4"	12 x 0.6" 1 3/4"	15, 19 x 0.6"	27 x 0.6"	37 x 0.6"
DUCT	ID	0.90" [23 mm] x 1.50" [38 mm]	0.827" [21 mm] x 2.835" [72 mm]	0.984" [25 mm] x 2.992" [76 mm]	Ø 0.94" [23.879 mm]	Ø 2.323" [59 mm]	Ø 2.99" [75.9 mm]	Ø 3.346" [85.0 mm]	Ø 3.937" [100 mm]	Ø 4.528" [115.0 mm]	Ø 5.039" [128.0 mm]
	OD <sub>1</sub>	1.45" [37] x 2.05" [52 mm]	1.378" [35] x 3.386" [86 mm]	1.554" [39.5 mm] x 3.551" [90.2 mm]	Ø 1.48" [37.6 mm]	Ø 2.874" [73 mm]	Ø 3.58" [90.9 mm]	Ø 3.946" [100.2 mm]	Ø 4.573" [116.2 mm]	Ø 5.303" [134.7 mm]	Ø 5.96" [151.0 mm]
	OD <sub>2</sub>		0.984" [25] x 2.992" [76 mm]	1.142" [29 mm] x 3.15" [80 mm]	Ø 1.06" [26.9 mm]	Ø 2.480" [63 mm]	Ø 3.35" [85.1 mm]	Ø 3.546" [90.1 mm]	Ø 4.173" [106.0 mm]	Ø 4.803" [122.0 mm]	Ø 5.36" [136.0 mm]
GTI COUPLER Max. OD		1.63" [41 mm] x 2.23" [57 mm]	1.565" [39.8 mm] x 3.565" [90.55 mm]	1.714" [43.54 mm] x 3.674" [93.32 mm]	Ø 1.7" [43.2 mm]	Ø 3.031" [77 mm]	Ø 3.738" [94.9 mm]	Ø 4.134" [105 mm]	Ø 4.698" [119.3 mm]	Ø 5.599" [142.2 mm]	Ø 6.151" [156.2 mm]
ORDER PART #	OPTION A	N/A	<b>PLA-55-112-YE</b>	<b>PLA-55-112-YE</b>	N/A	<b>PLA-55-112-YE</b>	N/A	N/A	N/A	N/A	N/A
	OPTION B	N/A	<b>PLA-55-225-YE</b>	<b>PLA-55-225-YE</b>	N/A	<b>PLA-55-225-YE</b>	<b>PLA-90-225-YE</b>	N/A	N/A	N/A	N/A
DSI COUPLER Max. OD		N/A	N/A	N/A	N/A	Ø 3.701" [94 mm]	N/A	Ø 4.824" [122.5 mm]	Ø 5.5" [139.7 mm]	Ø 6.278" [159.5 mm]	N/A
ORDER PART #	OPTION A	N/A	N/A	N/A	N/A	<b>PLA-55-150-YE</b>	N/A	<b>PLA-90-150-YE</b>	<b>PLA-100-150-BK</b>	<b>PLA-125-150-YE</b>	N/A
	OPTION B	N/A	N/A	N/A	N/A	<b>PLA-55-450-YE</b>	N/A	<b>PLA-90-450-YE</b>	<b>PLA-100-450-BK</b>	<b>PLA-125-450-YE</b>	N/A
COLOR		YE	YE	YE	BK	YE	YE	YE	BK	YE	BK
SLEEVE SIZE		<b>PMA-90/30</b>	<b>55</b>	<b>55</b>	<b>PMA-70/25</b>	<b>55</b>	<b>90</b>	<b>90</b>	<b>100</b>	<b>125</b>	<b>160</b>



\*PMA - HIGH SHRINK SLEEVE.  
 - SPCCS. SAME AS PLA.  
 - EXPENSIVE THAN PLA (NEEDS LONGER LEAD TIME).  
 - HIGH SHRINK TUBULAR BACKING.



**MATERIAL:**

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

**NOTES:**

- ORDER DIRECT FROM CANUSA  
TEL. 281 367 - 8866  
FAX. 281 367 - 4304
- ABOVE TABLE APPLIES TO INTERNAL USE ONLY.
- SELECT ORDER LENGTH AS A MULTIPLE OF THE ACTUAL LENGTH. SEE OPTION A OR B.
- \*NO CONNECTION DETAILS DEVELOPED.
- OTHER COLORS SLEEVE MAY BE AVAILABLE UPON REQUEST.
- OD<sub>1</sub> IS MAX. OD W/ RIBS AND OD<sub>2</sub> IS MAX. OD W/O RIBS
- N/A MEANS NOT AVAILABLE OR NOT ASSIGNED YET.
- ALWAYS HEAT THE DUCT ENDS FIRST.

**APPROVED BY FDOT 05-31-07**

TUBULAR SLEEVE	TUBULAR SLEEVE DIAMETER	
	AS SUPPLIED	FULLY RECOVERED
PLA 55-YYY ZZ	3.5" [90mm]	2.3" [55mm]
PLA 63-YYY ZZ	3.5" [90mm]	2.5" [63mm]
PLA 90-YYY ZZ	4.8" [120mm]	3.3" [81mm]
PLA 100-YYY ZZ	5" [130mm]	3.5" [90mm]
PLA 115-YYY ZZ	5.5" [145mm]	3.8" [98mm]
PLA 125-YYY ZZ	6.3" [160mm]	4.3" [110mm]
PLA 160-YYY ZZ	7.5" [190mm]	5.2" [130mm]
PLA 170-YYY ZZ	8" [205mm]	5.5" [140mm]
PLA 230-YYY ZZ	10" [260mm]	7" [180mm]
PLA 280-YYY ZZ	12.3" [315mm]	8.3" [211mm]
PLA 315-YYY ZZ	14" [360mm]	9.5" [245mm]
PMA 90/30	3.5" [90mm]	1.2" [30mm]
PMA 70/25	2.8" [70mm]	1.0" [25mm]

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		<b>HEAT SHRINK SLEEVE SIZES FOR INTERNAL APPLICATIONS</b>		REV. DATE NAME		PART NUMBERS: <b>SEE TABLE ABOVE</b>	
DATE: 05-31-07 DWG: I. TIRA CHK: E.A. APP: K.S.		SCALE NTS		DRAWING NUMBER: <b>PLA-0-0-0</b>		<b>DSI</b>	
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