

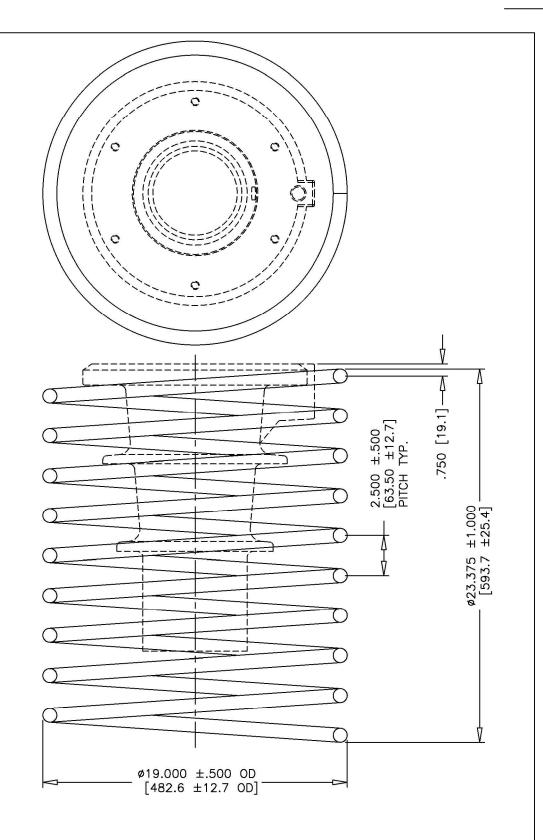
- NOTES FOR GALVANIZING PARTS:
 1. GALVANIZE ACCORDING TO ASTM A123 AND TAKE CARE HOW (ASTINGS ARE STORED TO PREVENT RUST.
- 2. DRILL & TAP BOLT HOLES AND GROUT PORTS AND SPRAY THEM WITH ZINC RICH PAINT ACCORDING TO ASTM A780, ENSURE THREADABILITY.

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	DIMENSIONS: INCH [mm] QUALITY PLAN NUMBER: mm FOR REFERENCE ONLY QS80021200C									
31-0.6" MULTI-PLANE ANCHOR										
WITH TWO GROUT PORTS-GALV.										
DATE: 10-06-16 DWG: G. MALECKI	CHK: S.Y.	APP: E.Z.								

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PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DOS IS SUBMITTAL TO
THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

TOLERANCES:	WEIGHT	REV.	DATE	NAME	ECRN	PART NUMBER:
±.030 ±2°	~93					68 31 248
UNLESS NOTED	LBS.					
MATERIAL:	SCALE					
DUCTILE IRON	3:10					
65-45-12						l
ASTM A536	UNLESS	-				DRAWING NUMBER:
710111171000	NOTED	-				68 31 216





NOTES:

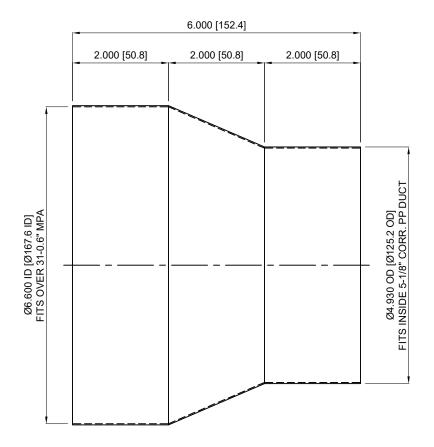
- 1. SPIRAL IS MADE FROM STANDARD #6 REBAR, NO PART NUMBER MARKING IS SHOWN.
- 2. KEEP SPIRAL AND MPA AXIS ALIGNED, IF USING SIDE PORT, ROTATE SPIRAL TO CLEAR.

NUMBER OF FULL TURNS: 9 DEVELOPED LENGTH: 43'-0-1/2" WEIGHT: ~64.5 LBS.

DIMENSIONS: INCH [mm] QUALITY PLAN NUMBER: mm FOR REFERENCE ONLY QS60021400A		TOLERANCES: ±.020	WEIGHT ~64.5	REV.	DATE	NAME	 PART NUMBER:	
STANDARD SPIRAL FOR			UNLESS NOTED	LBS.				68 31 254
			MATERIAL:	SCALE				
31-0.6" MPA			ASTM A615	1:6				
DATE: 10-25-16 DWG: G. MALECKI	CHK: S.Y.	APP: S.E.	SIZE #6, GR 60	'.0				DRAWING NUMBER:
DATE. 10-25-10 DWG. G. MALECKI CHK. S.T. AFF. S.E.			-					68 31 254
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MATERIAL:

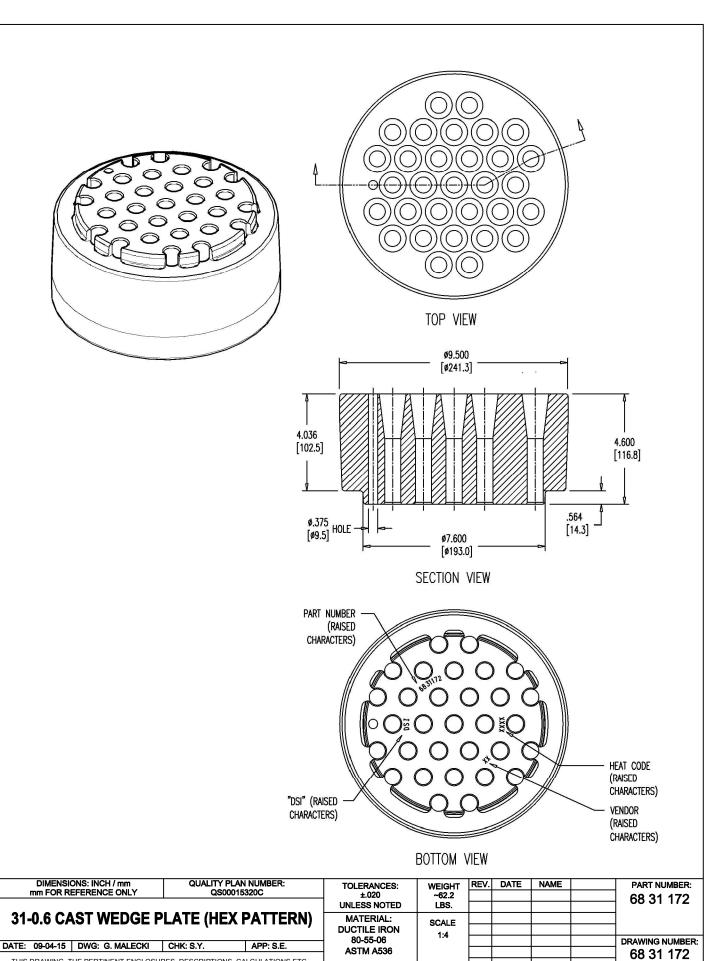
24 GAUGE GALVANIZED SHEET METAL WALL THICKNESS = 0.0276"

	DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALI	TY PLAN NUMBER:	TOLERANCES:	WEIGHT	REV.	DATE	NAME	PART NUMBER
TRANSITION PIECE FOR 31-0.6"		UNLESS NOTED					68 31 502		
				SCALE					
	GROUTED TENDON USING CORR. PP DUCT		MATERIAL:	1:2				DRAWING	
	DATE: 03/21/19 DWG: G. MALECK	CHK: SI	APP: SI	SEE ABOVE					NUMBER:
	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.					_			68 31 502

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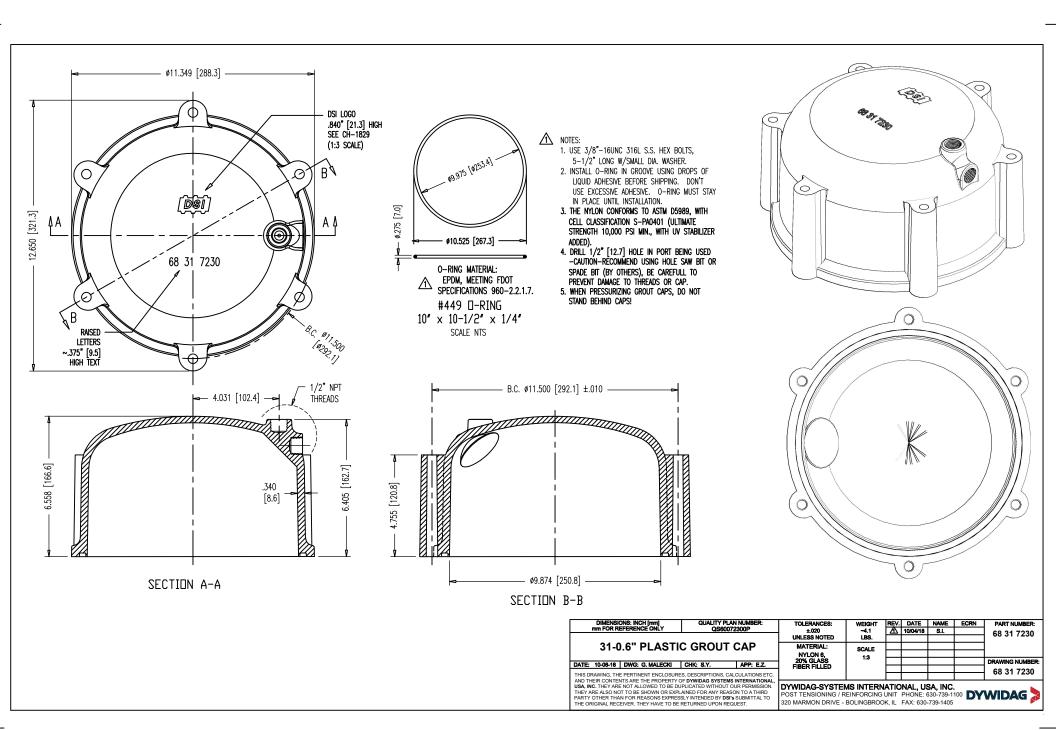


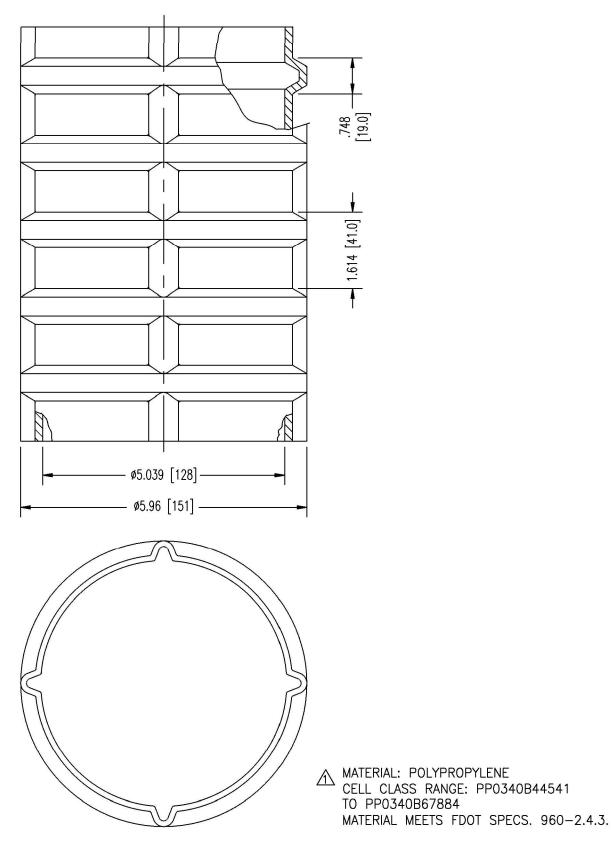


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DYWIDAG





5-1/8" (130mm) CORRUGATED PP DUCT WITH FLOW CHANNELS

QUALITY PLAN NUMBER: QU00041110P

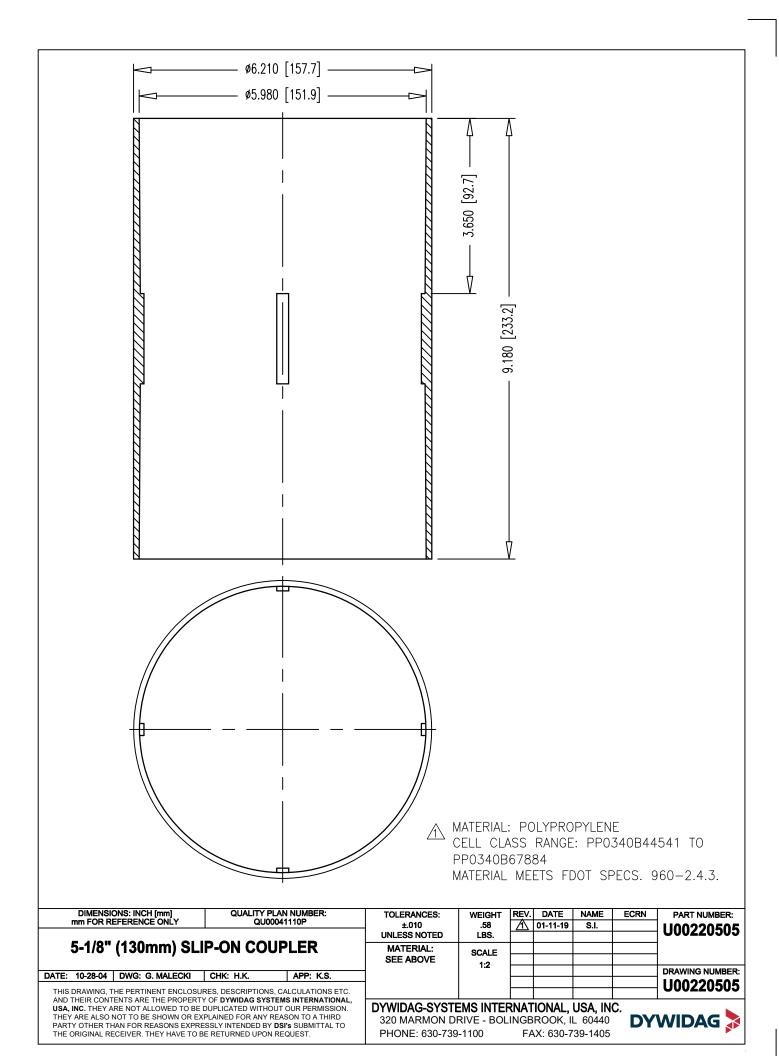
DATE: 06-26-01 DWG: G. MALECKI CHK: H.K. APP: K.S.

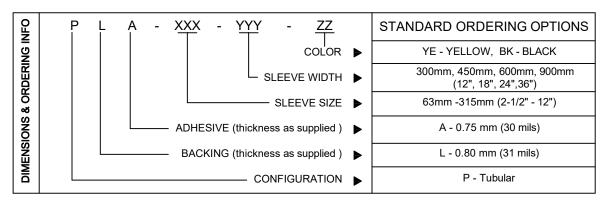
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY

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TOLERANCES:	WEIGHT	REV.	DATE	NAME	PART NUMBER:
±.010	1	A	01-11-19	S.I.	U00220500
UNLESS NOTED	LBS./FT.				COULEUSOU
MATERIAL:	SCALE				
SEE ABOVE	1:2				
	1.2				DRAWING NUMBER:
					U00220500
	ı				UUULLUJUU





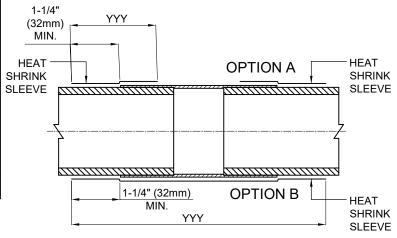


PMA - HIGH SHRINK SLEEVE. HIGH SHRINK TUBULAR BACKING.

TUBULAR SLEEVE	TUBULAR SLEEVE DIAMETER AS SUPPLIED 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]				
PMA 90/30-YYY BK	3.5" [90mm]	1.2" [30mm]				
PMA 120/40-YYY BK	4.7" [120mm]	1.6" [40mm]				

YYY = SLEEVE WIDTH: 300/450/600/900/1500(mm)

COLOR: YE = YELLOW; BK = BLACK



NOTE:

FOLLOW MANUFACTORER'S INSTALLATION INSTRUCTIONS.

MATERIAL:

POLYELEFIN FDOT SPECS 960-2.2.1.8 FOR **GROUTED APPLICATIONS**

	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	U00044030
	3" (76mm)		1 3/4"	PMA-120/40-450 BK	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
SMOOTH DUCT	3" SDR 17 HDPE PIPE		1-3/8"	PLA-63-450 YE	U00044063

IIIII I OITTEI EILEIOE OITEI	
HEAT SHRINK S	LEEVE SIZES
FOR INTERNAL GROU	TED APPLICATIONS

CHK: S.I.

DIMENSIONS: INCH [mm]

DATE: 07-31-19

DWG: G. Malecki

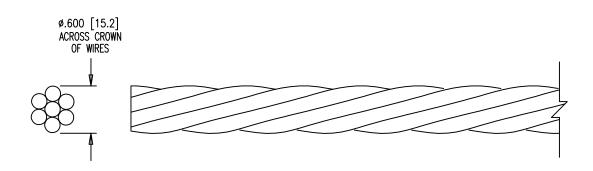
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	REV.	DATE	NAME	ECRN	PART NUMBERS:
	1	05-28-20	S.I.		
	A	02-15-21	S.I.		SEE TABLE ABOVE
SCALE					SEE IABLE ABOVE
NTS					
NIS					DRAWING NUMBER:
					U00044000
				· ·	UUUTTUUU

FAX: 630-739-1405

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

DYWIDAG



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

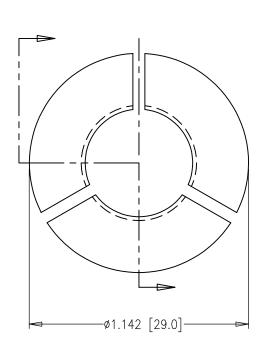
2. RUST PRODUCING VISIBLE PITTING TO THE UN-AIDED EYE IS NOT ALLOWED.

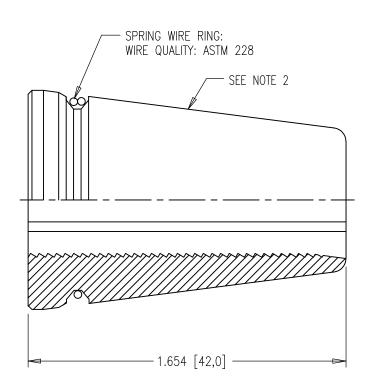
MATERIAL: 0.6" 270 KSI LOW RELAX STRAND ASTM A416

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		AN NUMBER: 0301000	TOLERANCES: ±.020	WEIGHT .738	REV.	DATE	NAME	PART NUMBER: 301060
<u>'</u>			UNLESS NOTED	PER/FT				301060
0.6" BARE 270 KSI STRAND		MATERIAL:	SCALE					
			SEE ABOVE	1:1				
DATE: 02-18-19 DWG: G. MALECKI	DATE: 02-18-19 DWG: G. MALECKI CHK: C.S. APP: K.S.			""				DRAWING NUMBER:
		-					301060	
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NOTES:

- 1. SHARP EDGES MUST BE BROKEN.
- 2. VIBRATE TO SURFACE FINISH OF 63 JUN. MAX.
 3. DIP IN SQ70 OIL OR EQUIV. FOR CORROSION PROTECTION.
- 4. MAKE SURE THAT THE BUTTRESS THREAD IS ORIENTED IN THE DIRECTION SHOWN ON THIS DRAWING.
- 5. NO STAMPED PART NUMBER

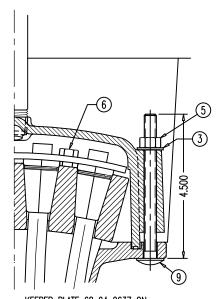
MATERIAL: 12L14 ALL HARDENED

DIMENSIONS: INCH/mm mm FOR REFERENCE ONLY		AN NUMBER: 000500D	TOLERANCES: ±.010: ±2°	WEIGHT 0.19	REV.	DATE	NAME	PART NUMBER: 68 00 0536
3-PART WEDGE FOR 0.6" STRAND			UNLESS NOTED	LBS.				00 00 0330
			MATERIAL:	SCALE 2:1				
			SEE ABOVE					
DATE: 06-01-18 DWG: G. MALECKI	CHK: C.S.	APP: S.I.	SEE ABOVE					DRAWING NUMBER:
								68 00 0536

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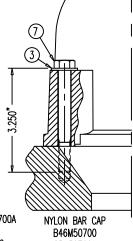
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BY OTHERS -

(3) NYLON BAR CAP B36E50700 OR 50700A

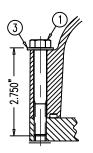


KEEPER PLATE 68 04 2637 ON WEDGE PLATE 68 04 2534A & NYLON CAP 68 04 2539 ON FLAT ANCHOR 68 04 2548

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)

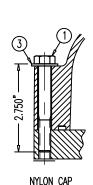
DIMENSIONS: INCH

PART NUMBER

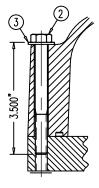
00 00 771

00 00 789

00 00 790



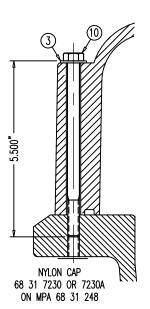
68 12 7230 OR 7230A ON MPA 68 12 248



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	

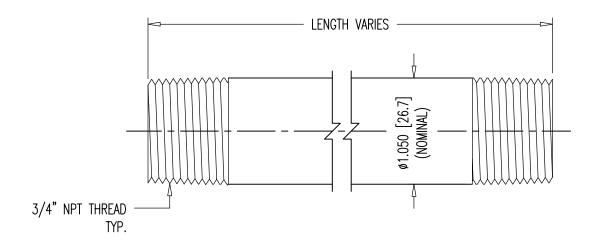
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	REV.	DATE	NAME	NAME	PART NUMBERS:
	1	05/01/19	S.I.		SEE TABLE
	<u>/2\</u>	05/28/20	S.I.		
SCALE					
1:3					
1.3					
					DRAWING NUMBER:
					00 00 770

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.

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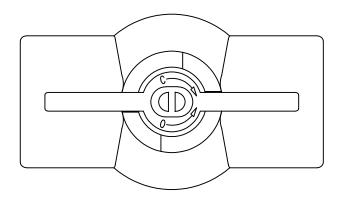


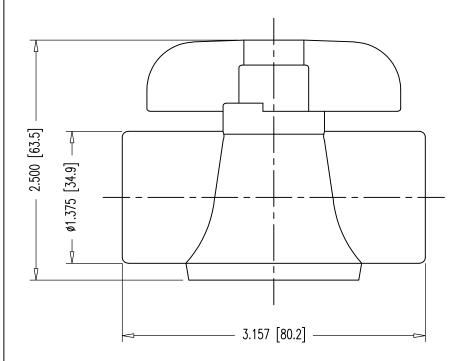


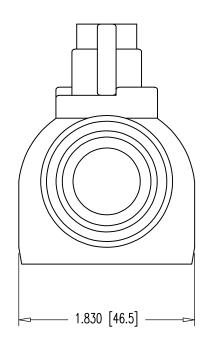
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY QUALITY PLAN NUMBER: Q000000020P REV. DATE NAME ECRN PART NUMBER: 00 00 878 3/4" NPT PIPE NIPPLES MATERIAL: SCALE SCH 40 1:1 **BLACK WELDED** DRAWING NUMBER: DATE: 01-29-19 DWG: G. MALECKI CHK: S.I. APP: S.I. STEEL 00 00 878 THIS DRAWING, THE PERTINENT ENCLOSURES,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

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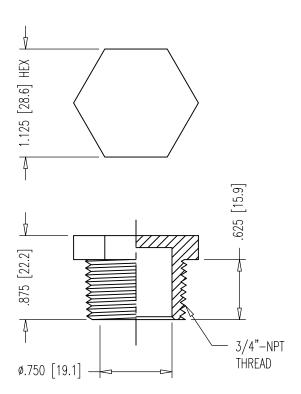


NOTE:
PRESSURE RATED: 150 PSI.

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALITY PLAN	NUMBER:		WEIGHT 0.213	REV.	DATE 01-11-19	NAME S.I.	PART NUMBER:
3/4" NPT BALL VALVE			MATERIAL: PVC	LBS. SCALE 1:1		01 11 10	0.11.	00 00 834
DATE: 04-30-07 DWG: G. MALECKI	CHK: S.N.	APP: E.A.		11				DRAWING NUMBER:
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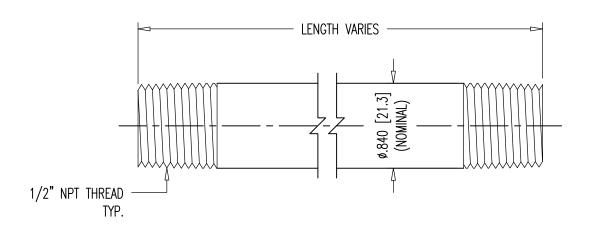




DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY	QUALITY PLAN	NUMBER:		WEIGHT .009	REV.	DATE	NAME	PART NUMBER:
	MATERIAL: NYLON 6	LBS.				00 00 849		
3/4" NPT NYLON PLUG								
DATE: 03-12-19 DWG: G. MALECKI	CHK: S.I.	APP: S.I	COLOR: WHITE		-			DRAWING NUMBER:
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS,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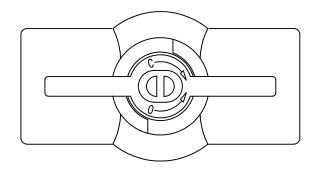


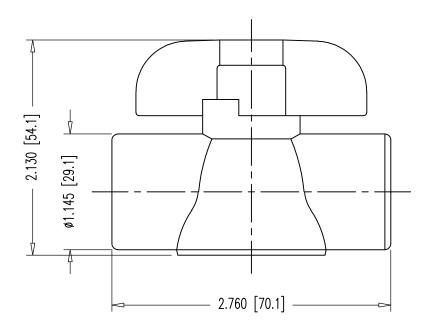
QUALITY PLAN NUMBER: Q00000020P DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY DATE NAME PART NUMBER: REV. 00 00 678 1/2" NPT PIPE NIPPLES MATERIAL: **SCALE** SCH 40 1:1 **BLACK WELDED** DRAWING NUMBER: DATE: 01-29-19 DWG: G. MALECKI CHK: S.I. APP: S.I. STEEL 00 00 678 THIS DRAWING, THE PERTINENT ENCLOSURES,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

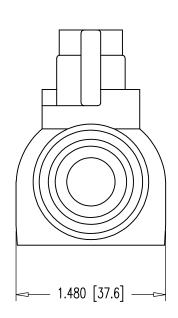
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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405

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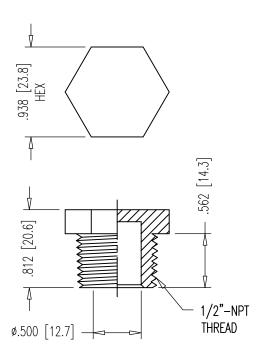


NOTE:
PRESSURE RATED: 150 PSI.

DIMENSIONS: INCH [mm] QUALITY PLAN NUMBER: mm FOR REFERENCE ONLY				WEIGHT 0.138	REV.	DATE 01-11-19	NAME S.I.	PART NUMBER:	
1/2" NPT BALL VALVE			MATERIAL:	LBS. SCALE				00 00 634	
2455				PVC	1:1				DRAWING NUMBER:
DATE: 04-30-07 DWG: G. MALECKI CHK: S.N. APP: E.A. THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.									00 00 634

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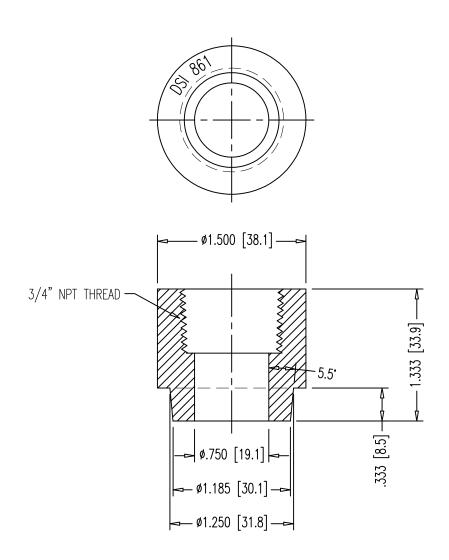




	MENSIONS: INCH [MM] mm FOR REFERENCE ONLY	QUALITY PLAN	I NUMBER:		WEIGHT .006	REV.	DATE	NAME	ECRN	PART NUMBER:
Γ		MATERIAL: NYLON 6	LBS.					00 00 649		
	1/2" NPT NYLON PLUG			SCALE 1:1						
Γ	DATE: 03-12-19 DWG: G. MALECKI	CHK: S.I.	APP: S.I.	COLOR: WHITE						DRAWING NUMBER:
Γ	THIS DRAWING. THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC.			1						00 00 649
П	AND THEIR CONTENTS ARE THE PROPERT									

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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

USAGE: FOR CORRUGATED PP DUCTS

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY				WEIGHT REV. 0.045	DATE	NAME	PART NUMBER:
	±.020 UNLESS NOTED	LBS.				00 00 861	
3/4" NPT I	MATERIAL:	SCALE					
		SEE ABOVE	1:1				
DATE: 01-11-19 DWG: G. MALECKI	CHK: S.I. APP: S.I.	7					DRAWING NUMBER:
	7					00 00 861	
THIS DRAWING, THE PERTINENT ENCLOSUR	RES, DESCRIPTIONS, CALCULATIONS ETC.						00 00 001

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