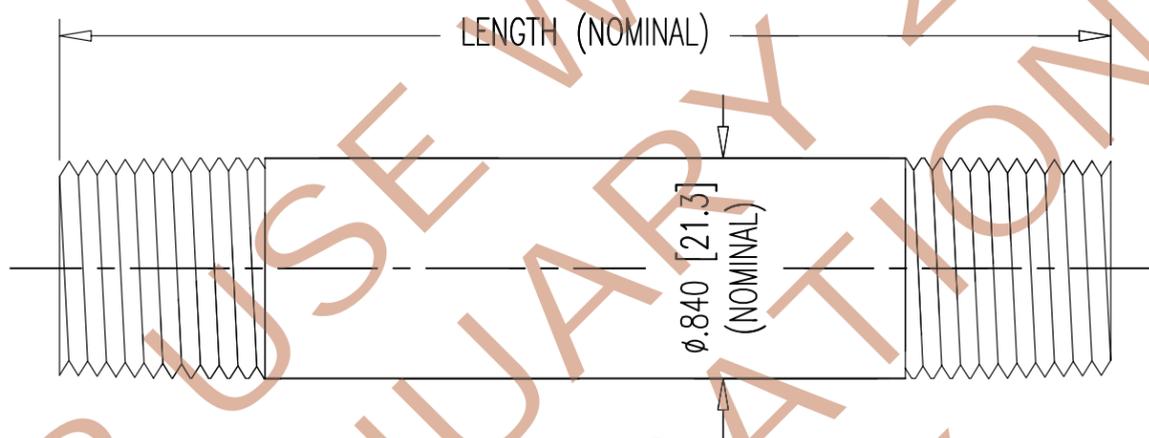


- NOTES:
1. NO PART NUMBER OR IDENTIFICATION MARKS ON STRAND.
  2. MUST BE DOMESTIC STRAND.

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

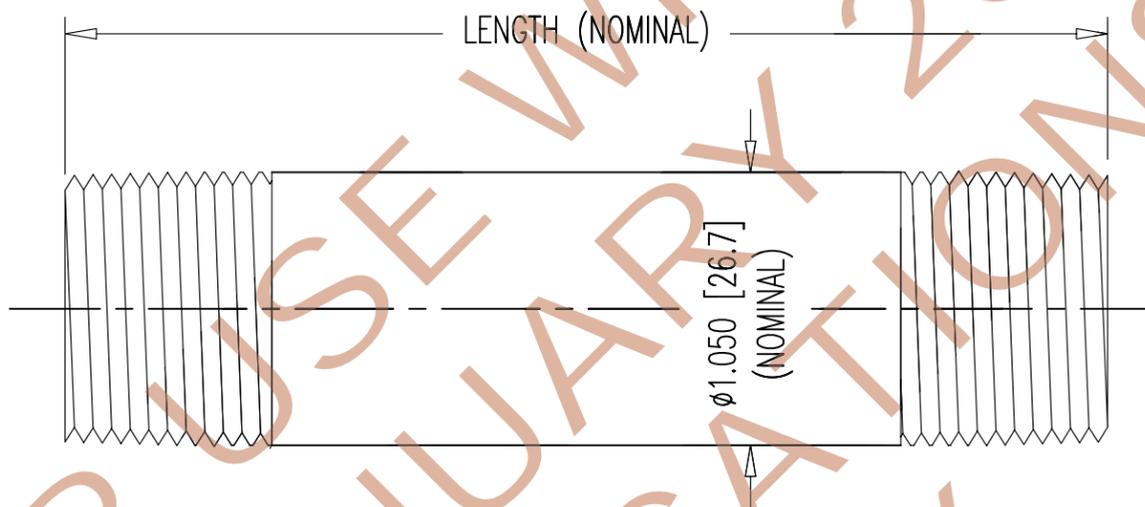
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS000301000		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT .738 PER/FT	REV.	DATE	NAME	PART NUMBER: <b>302600</b>	
<b>0.6" BARE 270 KSI STRAND</b>				MATERIAL: SEE MAT'L SPEC. PM30106000S	SCALE 1:1				DRAWING NUMBER: <b>302600</b>	
				DATE: 09-14-07	DWG: G. MALECKI	CHK: C.S.	APP: K.S.			
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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

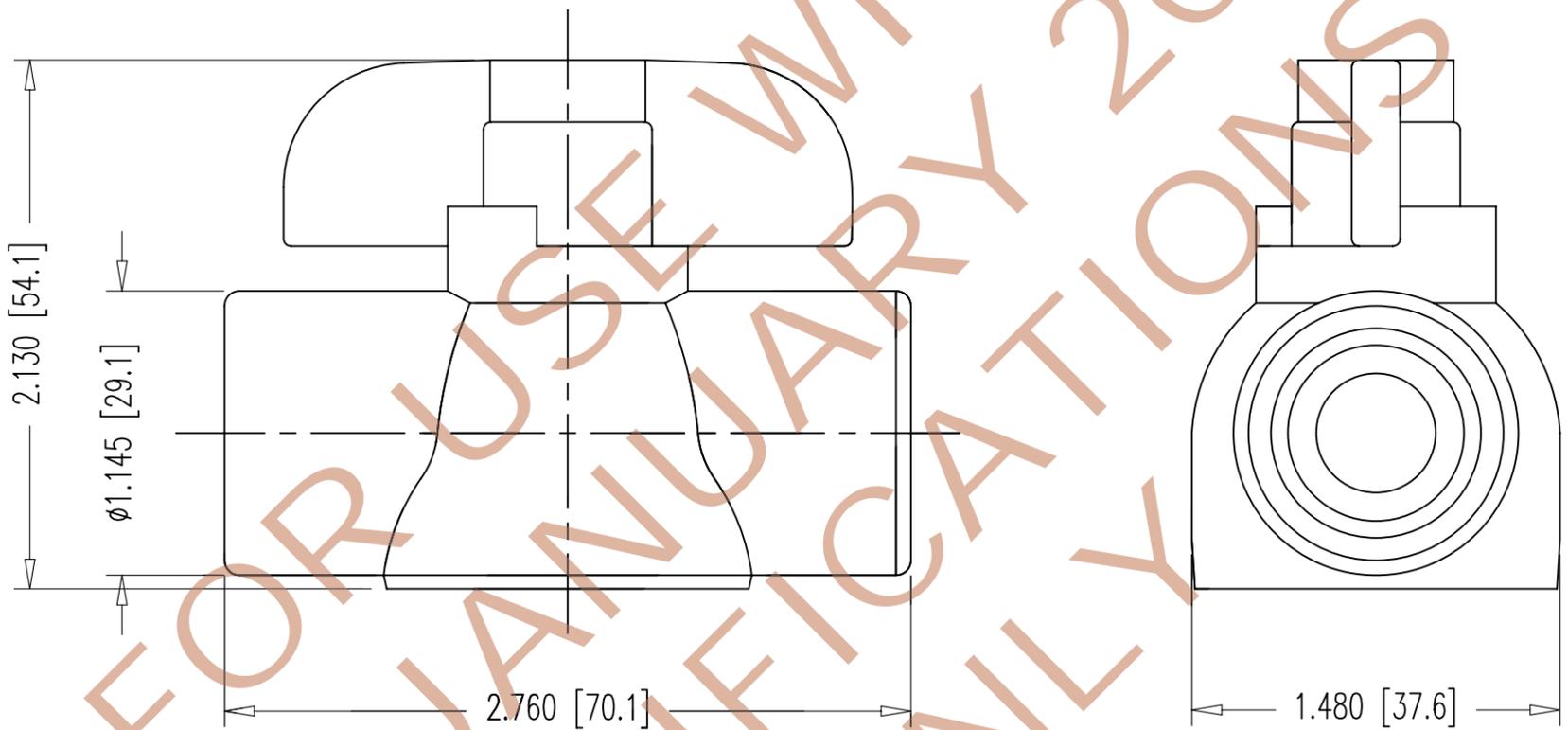
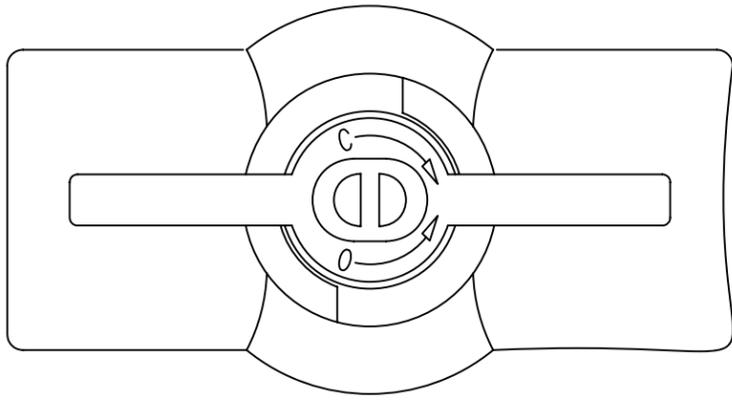
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		REV.	DATE	NAME	PART NUMBER: <b>00 00 672</b> <b>00 00 674</b> <b>00 00 676</b>	
<b>1/2" PIPE NIPPLES</b>				MATERIAL: SCH 40 BLACK WELDED STEEL	SCALE 1:1		DRAWING NUMBER: <b>00 00 676</b>	
							DATE: 09-14-07	DWG: G. MALECKI
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PART 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:		REV.		DATE	NAME	PART NUMBER: <b>00 00 872</b> <b>00 00 874</b> <b>00 00 876</b>	
<b>3/4" 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.	
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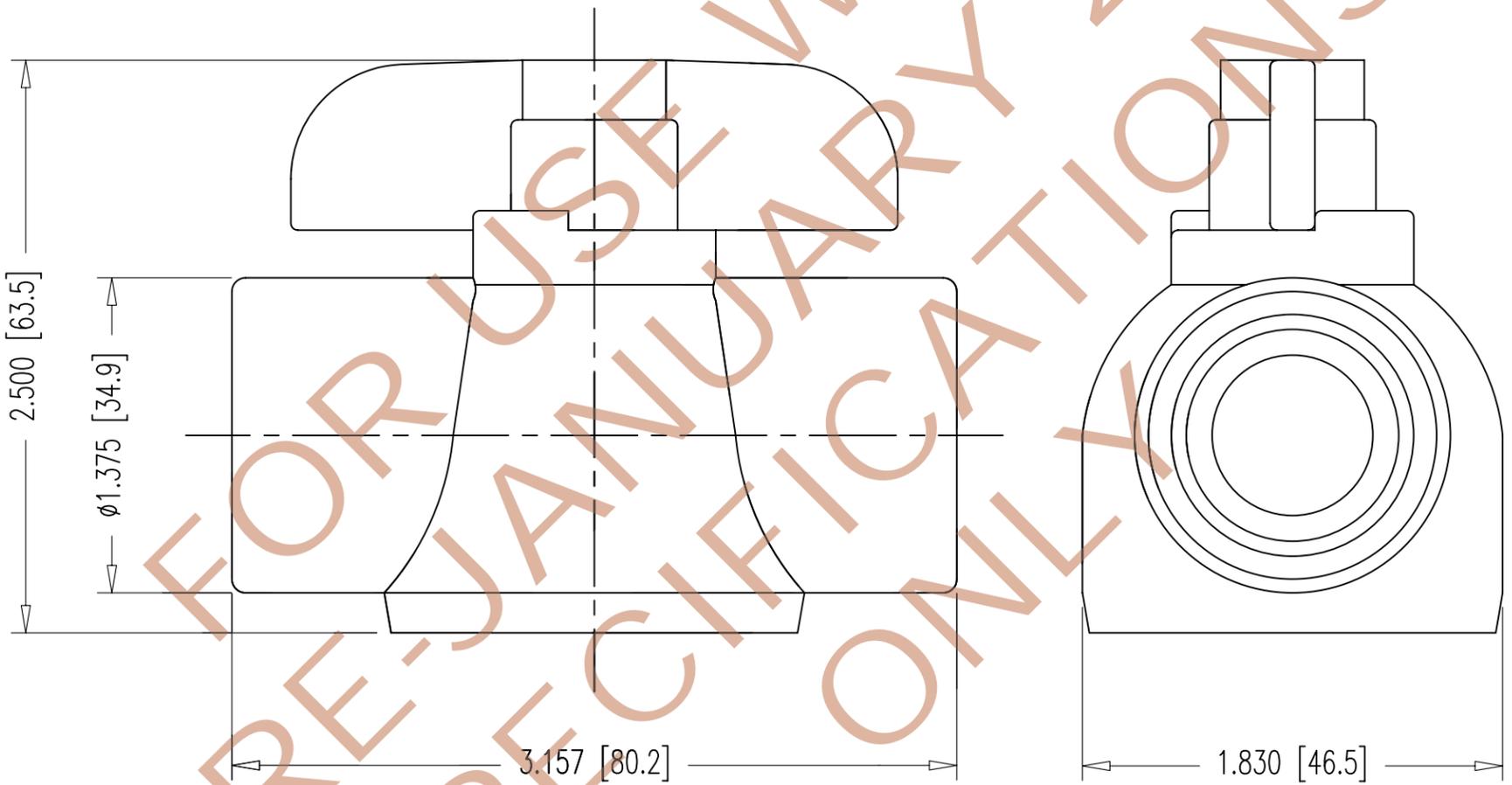
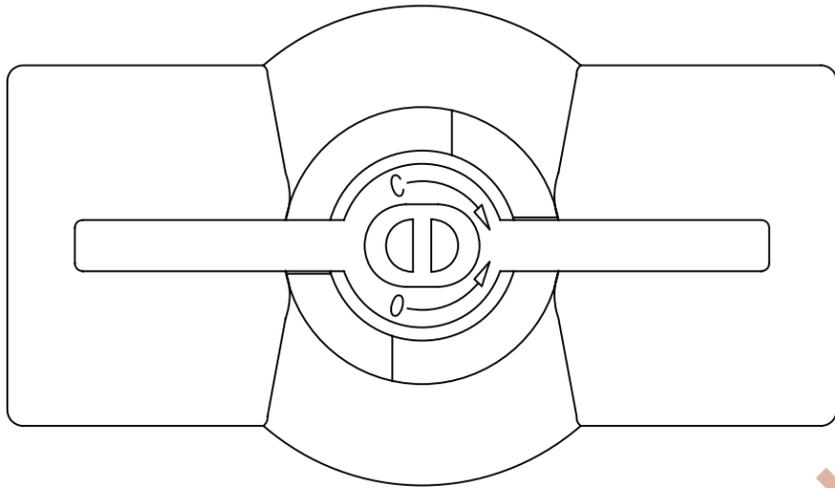


FOR USE ONLY WITH 2016 PRE-JANUARY SPECIFICATIONS

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>	
1/2" NPT BALL VALVE		MATERIAL: PVC	SCALE 1:1					DRAWING NUMBER: <b>00 00 634</b>	
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.						
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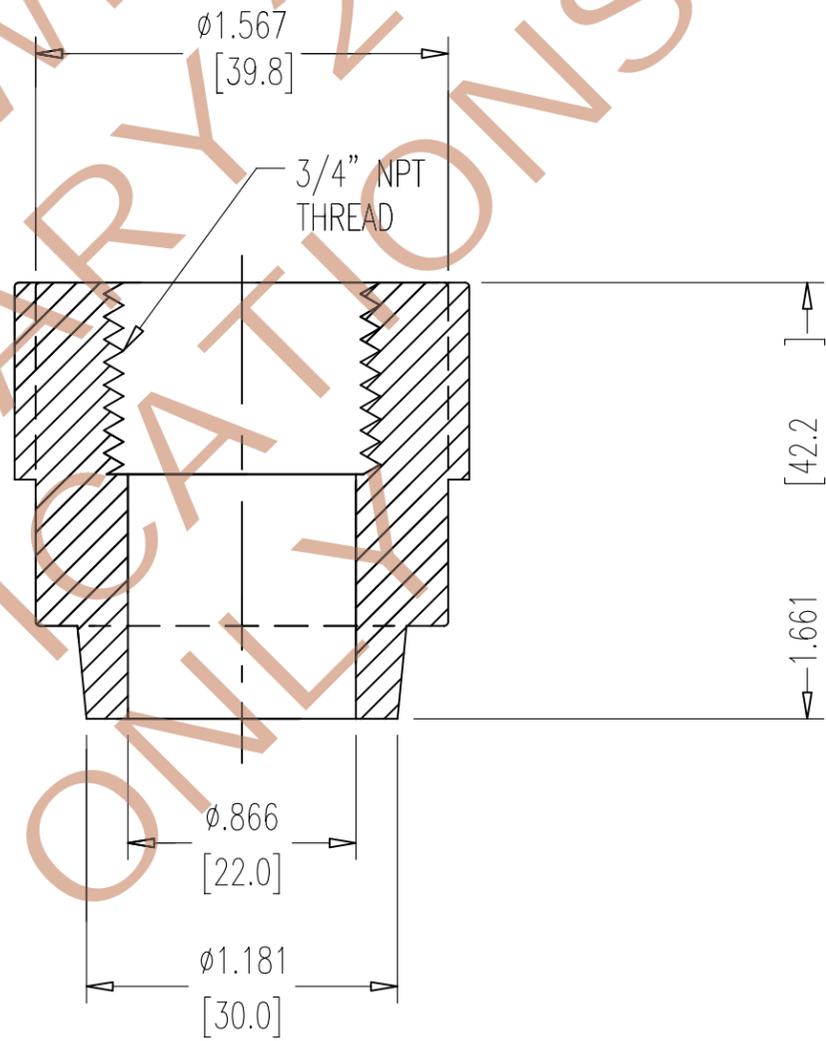
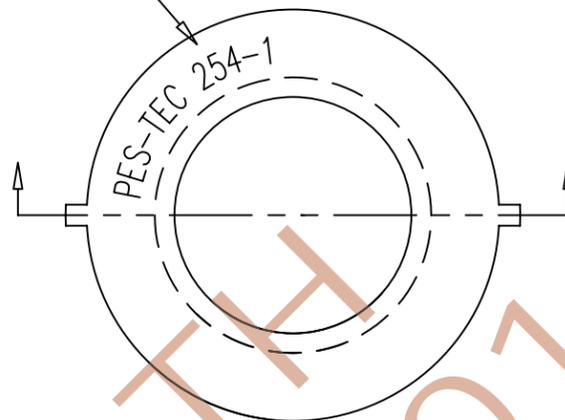
NOTE:  
ALL DIMENSION MEASURED.

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				
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"PES-TEC" & "254-1"  
MARKINGS



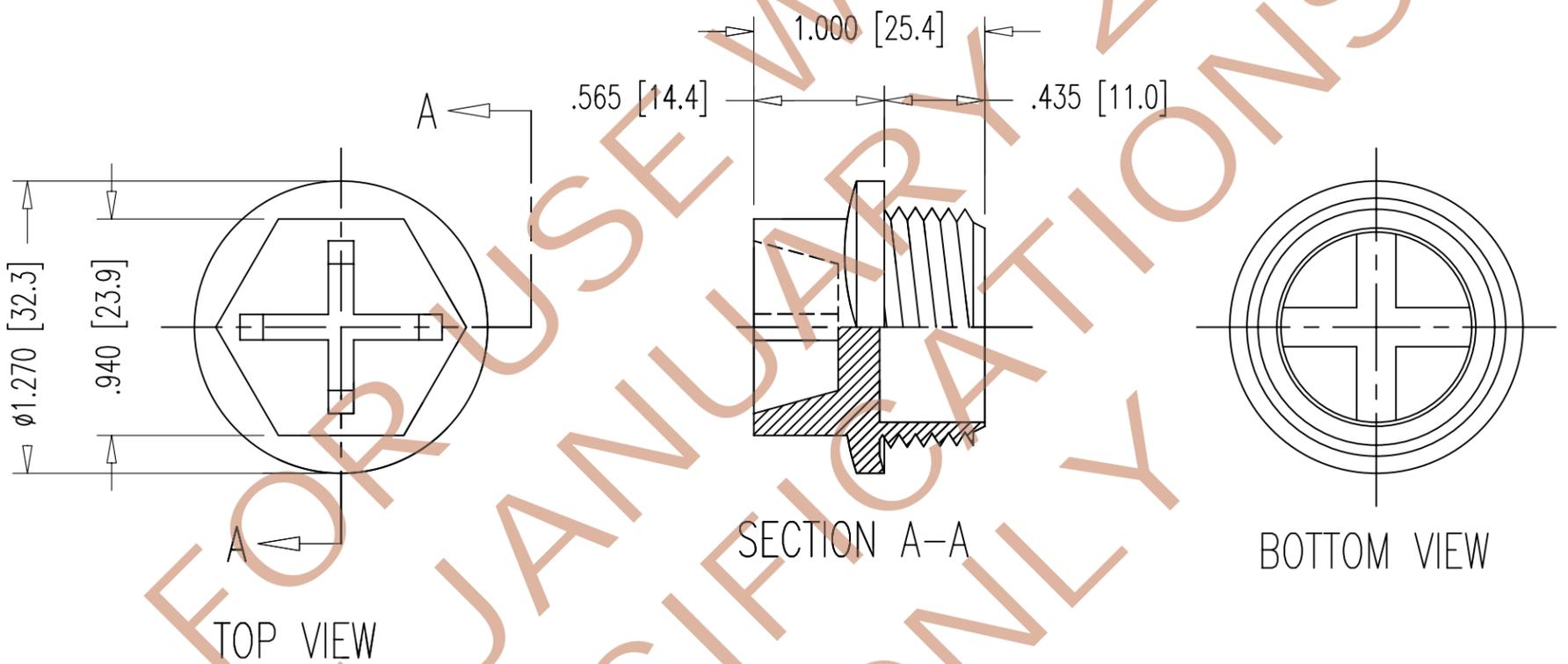
WELDING OPERATIONS:  
 DRILL A HOLE USING SPECIFIED CONE DRILL TOOL  
 WHEREVER NEEDED IN COMMON HDPE DUCTS OF  
 ALL BRANDS. HEAT UP HDPE GROUT PORT AND  
 THE HOLE IN DUCT FOR ABOUT 10 SECONDS.  
 USING PES-TEC WELDING EQUIPMENT. RELEASE THE  
 GROUT PORT AND PRESS INTO THE HOLE IN DUCT  
 BY HAND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

MANUFACTURER: PES-TEC.  
 MANUFACTURER PART NUMBER: 254-1.

MATERIAL: POLYETHYLENE  
 COLOR: BLACK (UV PROTECTED)  
 USAGE: FOR SMOOTH HDPE EXTERNAL PIPES.

APPROVED BY FDOT 12-12-07

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 00 856</b>
<b>3/4" NPT PE GROUT VENT PORT</b>				MATERIAL: BLACK POLYETHYLENE (UV PROTECTED)	SCALE 1:1				DRAWING NUMBER: <b>00 00 856</b>
				DATE: 04-02-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405	
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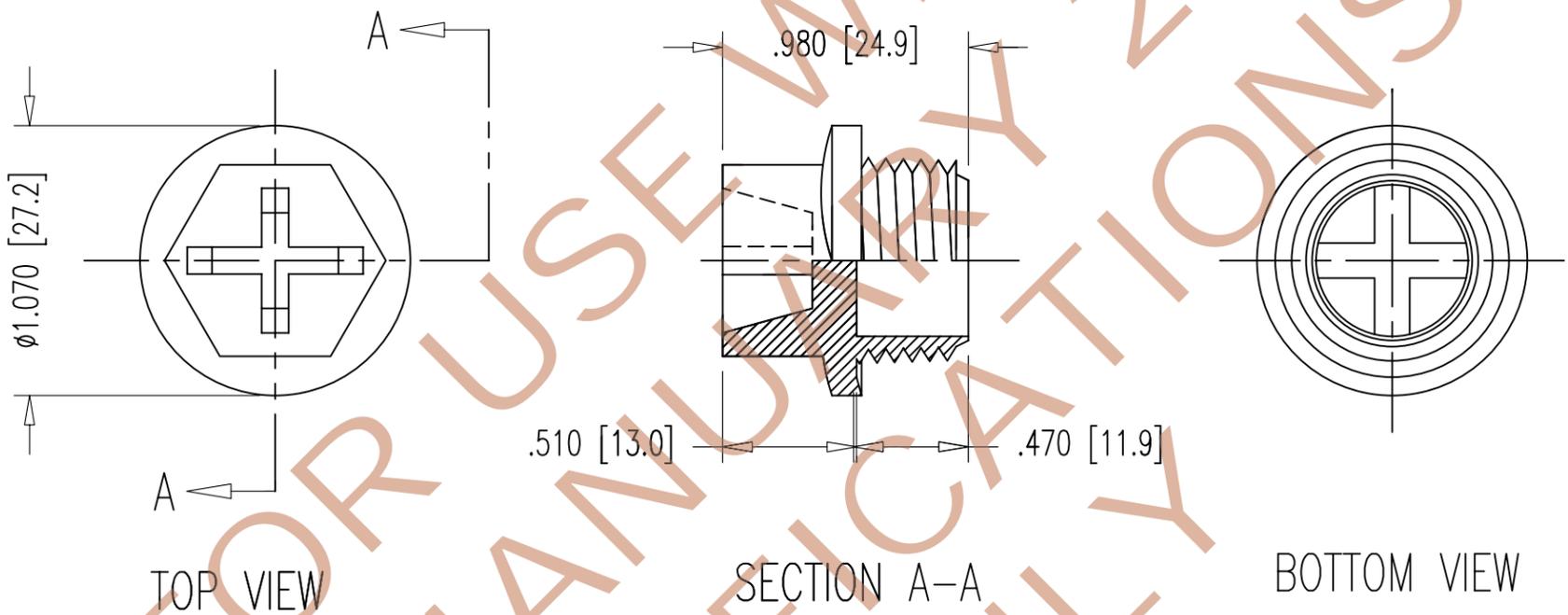


NOTE:  
 ALL DIMENSIONS MEASURED.  
 SPECIAL ORDER: NO STAMPED PART NUMBER.

SUPPLIER:  
 NIAGARA PLASTICS  
 SUPPLIER PART # : BT 0750

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

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000040P		TOLERANCES: $\pm .010$ UNLESS NOTED	WEIGHT LBS.	REV.	DATE	NAME	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.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405						
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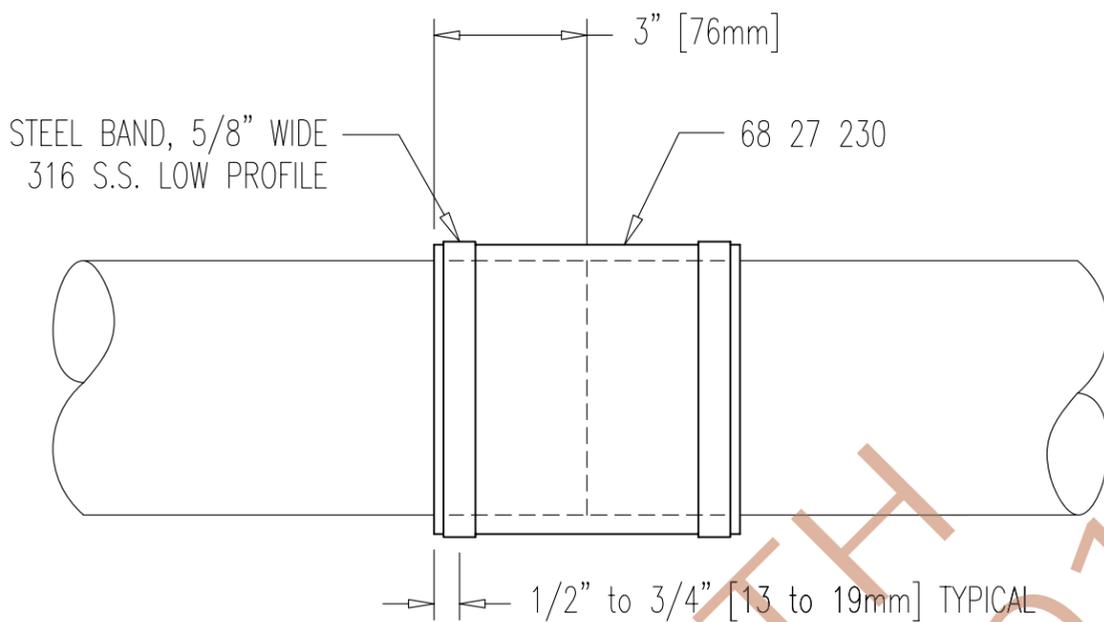


NOTE:  
 ALL DIMENSIONS MEASURED.  
 SPECIAL ORDER: NO STAMPED PART NUMBER.

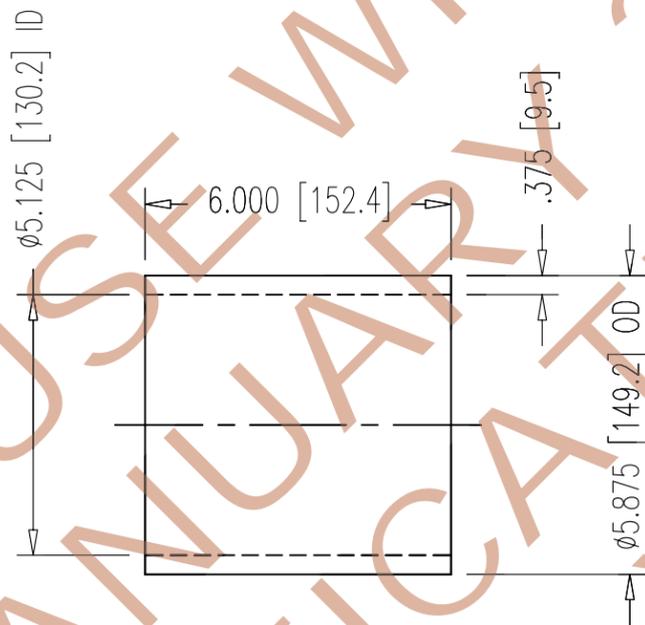
SUPPLIER:  
 NIAGARA PLASTICS  
 SUPPLIER PART # : BT 0500

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

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000040P		TOLERANCES: ±.010 UNLESS NOTED	WEIGHT LBS.	REV.	DATE	NAME	PART NUMBER: <b>00 00 848</b>
<b>BT 0500 (1/2") NPT NYLON PLUG</b>				MATERIAL: NYLON 6 COLOR: BLACK	SCALE 1:1				DRAWING NUMBER: <b>00 00 848</b>
DATE: 05-31-07	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					



ASSEMBLY



Ensure all connections between steel pipe embedded in concrete and plastic duct are made by using a mechanical coupler or a circular sleeve made of Ethylene Propylene Diene Monomer (EPDM), having a minimum pressure rating (working pressure) of 100 psi [0.69 MPa]. Use EPDM materials having 100% quality retention as defined by ASTM D 1171 Ozone Chamber Exposure Method B. Use EPDM sleeves having a minimum wall thickness of 3/8 inch [10mm] and be reinforced with a minimum of four ply polyester reinforcement.

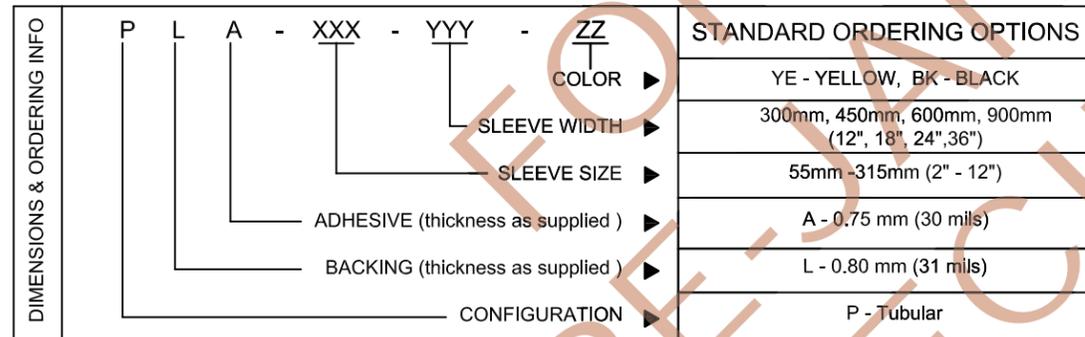
SPECIAL ORDER: NO STAMPED PART NUMBER

APPROVED BY FDOT 12-12-07

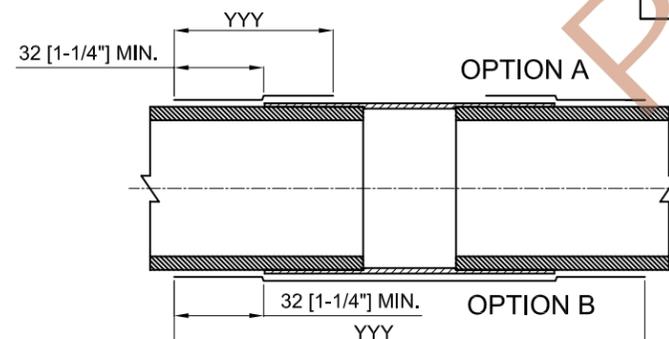
DYWIDAG POST-TENSIONING SYSTEMS				DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		Q.A.	QUALITY PLAN NUMBER:			PART NUMBER 68 27 230
EPDM BOOT FOR 27-0.6" EXTERNAL PIPE CONNECTION				TOLERANCES: ±.030 UNLESS NOTED		WEIGHT	REV.	DATE	NAME	
DATE: 06-19-06   DWG: G. MALECKI   CHK: E.A.   APP: K.S.				MATERIAL: EPDM		LBS.				
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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 										

## HEAT SHRINK SLEEVES - PLA TYPE UNO

		 23 mm x 38 mm DUCT	 21 mm x 72 mm DUCT	 25 mm x 76 mm DUCT	 23 mm DUCT	 59 mm DUCT	 76 mm DUCT	 85 mm DUCT	 100 mm DUCT	 115 mm DUCT	 130 mm DUCT
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:**

1. ORDER DIRECT FROM CANUSA  
 TEL. 281 367 - 8866  
 FAX. 281 367 - 4304
2. ABOVE TABLE APPLIES TO INTERNAL USE ONLY.
3. SELECT ORDER LENGTH AS A MULTIPLE OF THE ACTUAL LENGTH. SEE OPTION A OR B.
4. \*NO CONNECTION DETAILS DEVELOPED.
5. OTHER COLORS SLEEVE MAY BE AVAILABLE UPON REQUEST.
6. OD<sub>1</sub> IS MAX. OD W/ RIBS AND OD<sub>2</sub> IS MAX. OD W/O RIBS
7. N/A MEANS NOT AVAILABLE OR NOT ASSIGNED YET.
8. 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		REV. DATE NAME		PART NUMBERS:	
<b>HEAT SHRINK SLEEVE SIZES FOR INTERNAL APPLICATIONS</b>				SEE TABLE ABOVE	
DATE: 05-31-07	DWG: I.TIRA	CHK: E.A.	APP: K.S.	DRAWING NUMBER: <b>PLA-0-0-0</b>	
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