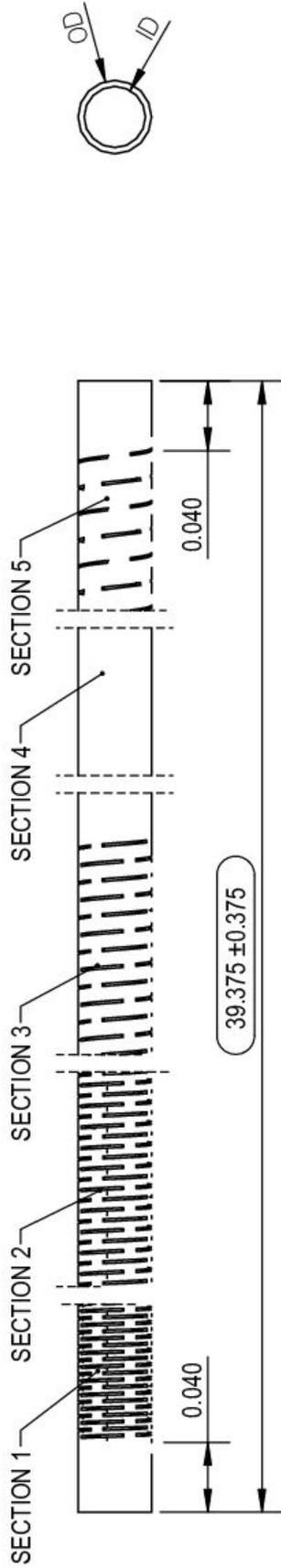


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SIZES			
PN	SIZE (FRENCH)	OD	ID
230-08771-04-SPD	4	0.042	0.035
230-08771-05-SPD	5	0.058	0.050
230-08771-06-SPD	6	0.065	0.055
230-08771-07-SPD	7	0.083	0.072
230-08771-08-SPD	8	0.095	0.085
230-08771-09-SPD	9	0.109	0.097
230-08771-10-SPD	10	0.120	0.106
230-08771-12-SPD	12	0.148	0.135

SECTION TABLE			
SECTION	START	END	PITCH
1	.040	4	0.004 - 0.006
2	4.00	10.00	0.006 - 0.010
3	10.00	27.00	0.010
4	27.00	33.00	0.010 - 0.0125
5	33.00	39.24	0.0125 - 0.015



NOTES:

- SEE SY-023380 FROM SYMMETRY FOR LASER CUT PATTERN
- MATERIAL: 304 SS
- KERF WIDTH: 0.0015"
- SECTIONS 1-4 CUT / UNCUT PATTERN: 80°/22°
- SECTION 5 CUT / UNCUT PATTERN: 80°/22° - 65°/37°
- CPR: 3.529
- ID AND OD ARE INSPECTION PARAMETERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
INCHES
X ± 0.02
XX ± 0.01
XXX ± 0.005
[MM]
X ± 0.5
XX ± 0.25
XXX ± 0.127
ANGLES: ± 2°
MATERIAL: ASME Y14.5M
SEE NOTES

FINISH: SEE NOTES

DO NOT SCALE DRAWING

SCALE: 10:1

SIZE DWG. NO. 230-08771-XX-SPD

REV. A

SHEET 1 OF 1



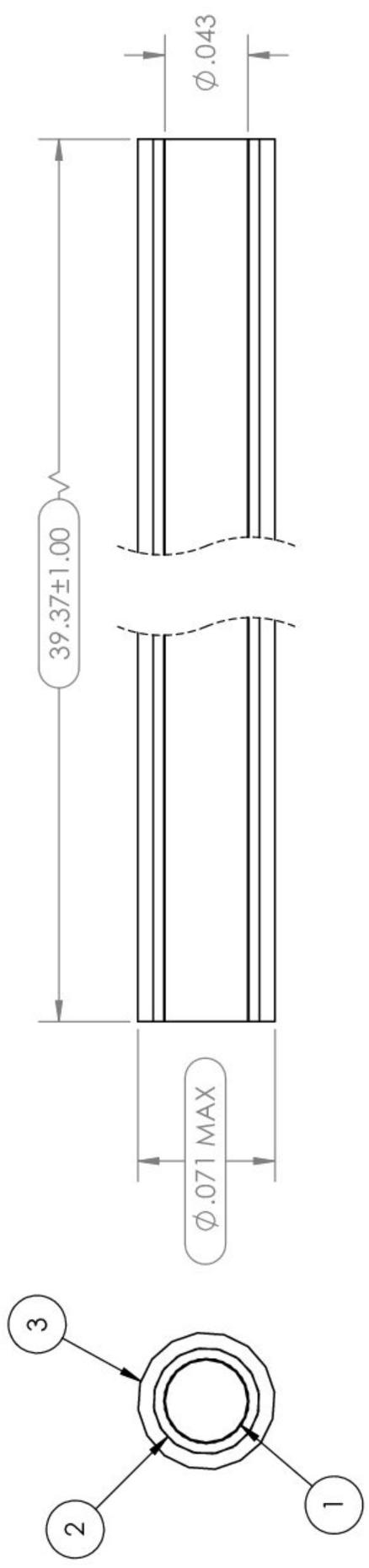
LASERCUT HYPOTUBE

REVISIONS	
REV.	DCO #
A	952

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	230-09148-SPD	ETCHED PTFE 0.043" ID LINER	1
2	230-08771-05-SPD	SYMMETRY SY-034850 HYPOTUBE FR 5	1
3	230-09146-SPD	PEBAX 0.06"ID EXTRUSION	1

REVISIONS	
REV.	DCO #
A	952



- NOTES:
- LAMINATED CATHETER WITH A PTFE LINER, LASER CUT HYPOTUBE, AND PEBAX JACKET
 - OVERHANG PAST 39.370" LENGTH NOT TO EXCEED 0.25" ON EITHER SIDE
 - INSPECTION DIMENSIONS INDICATED BY (X.X)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 INCHES [MM]
 X ± 0.02 X ± 0.5
 XX ± 0.01 XX ± 0.25
 XXX ± 0.005 XXX ± 0.127
 ANGLES: ± 0.5°
 ANSI/ASME Y14.5M

MATERIAL: SEE NOTES
 FINISH: SEE NOTES
 DO NOT SCALE DRAWING

SCALE: 12:1

sage

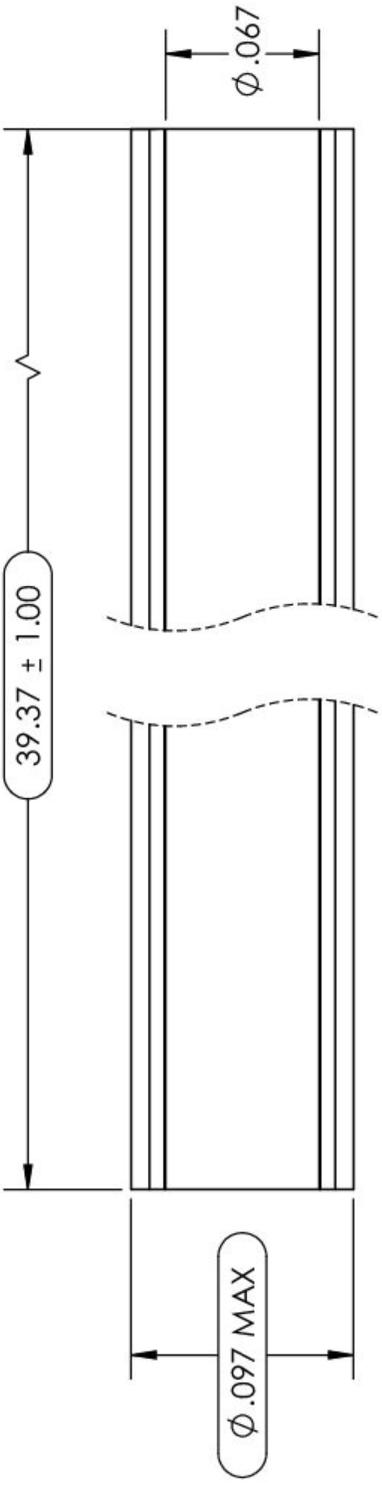
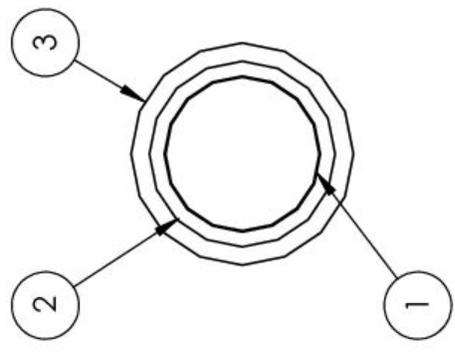
LAMINATED CATHETER 5FR

SIZE DWG. NO. 260-09139-05-SPD
 REV. A
 SHEET 1 OF 1

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	230-09155-SPD	ETCHED PTFE 0067" ID LINER	1
2	230-08771-7-SPD	SYMMETRY SY-034850 HYPOTUBE FR 7	1
3	230-09152-SPD	PEBAX 0.086" ID EXTRUSION	1

REVISIONS	
REV.	DCO #
A	952



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XX ± 0.01 XX ± 0.25
XXX ± 0.005 XXX ± 0.127
ANGLES: ± 0.5°
ANSI/ASME Y14.5M

MATERIAL: SEE NOTES
FINISH: SEE NOTES
DO NOT SCALE DRAWING

SCALE: 12:1

sage

LAMINATED CATHETER 7FR

SIZE DWG. NO. 260-09139-07-SPD

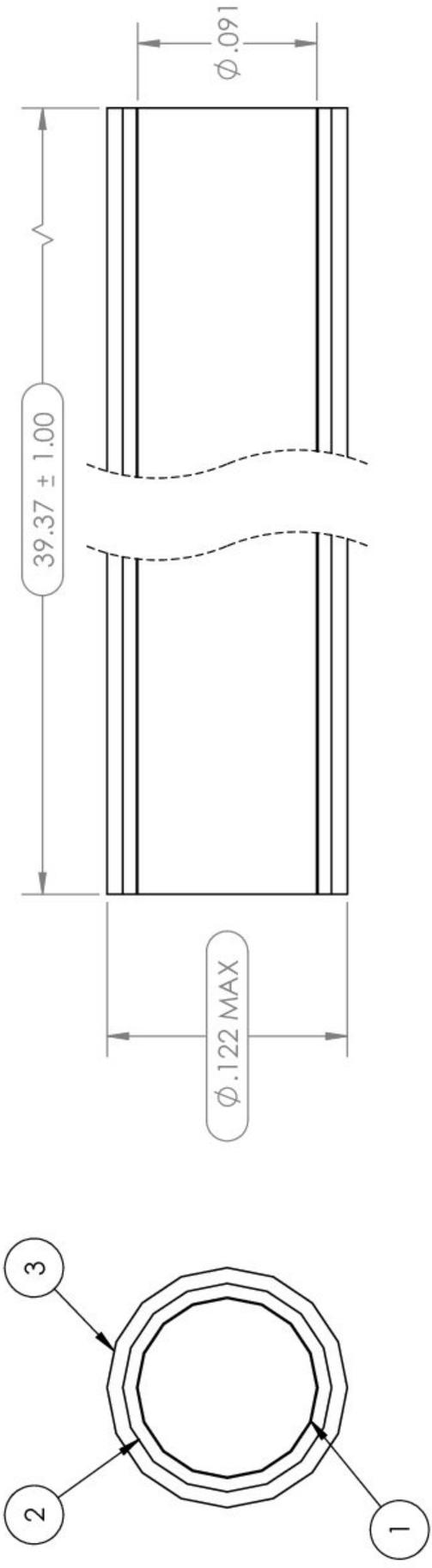
REV. A

SHEET 1 OF 1

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	230-09161-SPD	ETCHED PTFE 0.091" ID LINER	1
2	230-08771-09-SPD	SYMMETRY SY-034850 HYPOTUBE FR 9	1
3	230-09159-SPD	PEBAX 0.112" ID EXTRUSION	1

REVISIONS	
REV.	DCO #
A	952



- NOTES:
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 - INSPECTION DIMENSIONS INDICATED BY (X.X)

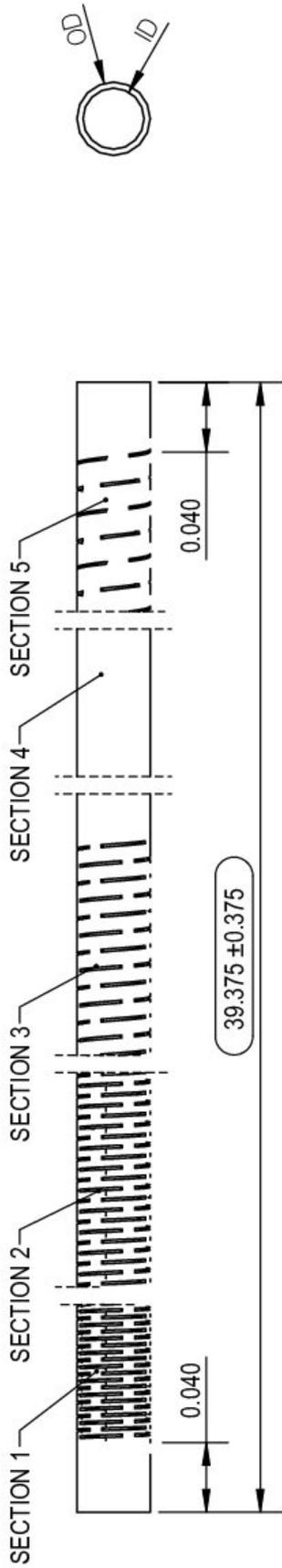
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: INCHES X ± 0.02 XX ± 0.01 XXX ± 0.005 ANGLES: ± 0.5° ANSI/ASME Y14.5M	SEE NOTES
MATERIAL	SEE NOTES
FINISH:	SEE NOTES
DO NOT SCALE DRAWING	

LAMINATED CATHETER 9FR	
SIZE DWG. NO.	REV
A	A
SCALE: 12:1	SHEET 1 OF 1

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REVISIONS	
REV.	DCO #
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ANGLES: ± 2°
ASME Y14.5M

MATERIAL: SEE NOTES
FINISH: SEE NOTES

DO NOT SCALE DRAWING

sage

LASERCUT HYPOTUBE

SIZE DWG. NO. **A** 230-08771-XX-SPD

REV **A**

SCALE: 10:1

SHEET 1 OF 1