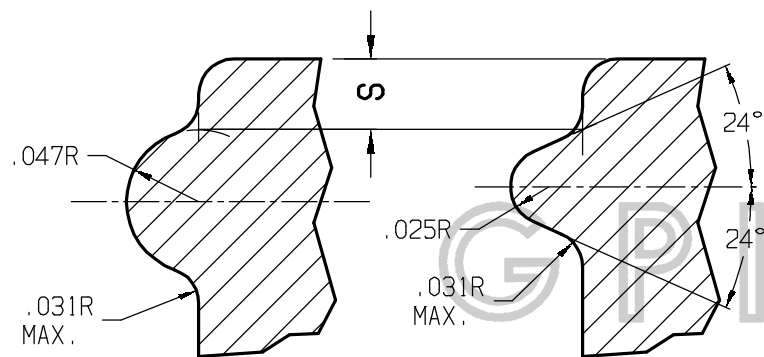


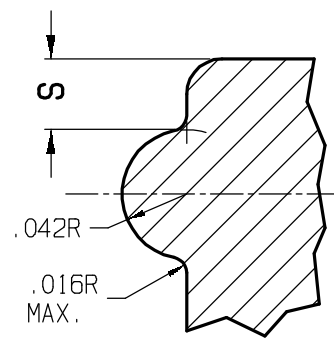
START AND FINISH OF  
THREAD TO CONFORM  
TO CUTTER RADIUS  
**SECTION X-X**

SIZE	T	E	H SEE NOTE 1	I MIN.	S	L MIN.	W APPROX.	B	CUT. DIA.	THREAD TURNS MIN.	T.P.I.
18	0.694 ±.010	0.610 ±.010	0.513 <sup>+.013</sup> / <sub>-.012</sub>	0.325	0.034 <sup>+.013</sup> / <sub>-.012</sub>	0.345	0.078	3° 30'	0.375	1.5	8
20	0.773 ±.010	0.689 ±.010	0.544 <sup>+.013</sup> / <sub>-.012</sub>	0.404	0.034 <sup>+.013</sup> / <sub>-.012</sub>	0.345	0.078	3° 7'	0.375	1.5	8
22	0.852 ±.010	0.768 ±.010	0.575 <sup>+.013</sup> / <sub>-.012</sub>	0.483	0.034 <sup>+.013</sup> / <sub>-.012</sub>	0.360	0.078	2° 49'	0.375	1.5	8
24	0.930 ±.010	0.846 ±.010	0.636 <sup>+.013</sup> / <sub>-.012</sub>	0.516	0.046 <sup>+.016</sup> / <sub>-.015</sub>	0.421	0.078	2° 34'	0.375	2.0	8
28	1.076 <sup>+.012</sup> / <sub>-.013</sub>	0.982 <sup>+.012</sup> / <sub>-.013</sub>	0.698 <sup>+.013</sup> / <sub>-.012</sub>	0.640	0.046 <sup>+.016</sup> / <sub>-.015</sub>	0.405	0.094	2° 57'	0.375	1.25	6

- 'H' DIMENSION REPRESENTS DISTANCE FROM TOP OF FINISH DOWN TO POINT WHERE LINE TANGENT TO 'T' INTERSECTS TOP OF SHOULDER. WHEN SHOULDER IS FORMED IN THE BLOW MOLD 'H' DIMENSION PLUS TOLERANCE IS INCREASED BY .015".
- B = HELIX ANGLE OR ANGLE OF FIXTURE TO CUTTER.
- TANGENT  $B = \frac{\text{PITCH}}{\pi (\text{MEAN BETWEEN MEAN 'T' AND MEAN 'E'})}$
- NUMBER OF TURNS OF THREAD INDICATED IN CHART SHOULD BE MAINTAINED; WITH FULL PROJECTION EXCEPT WHEN DEPRESSED OR INTERRUPTED AT MOLD SEAMS. REFER TO GLASS FINISH NO. 405 FOR DEPRESSED THREAD DETAIL.
- CONTOUR OF BEAD IS OPTIONAL PROVIDED THE DIAMETER AND 'W' ARE ADHERED TO.
- 'I' DIMENSION IS MEASURED THROUGH FULL LENGTH OF FINISH.
- FOR ALL SPECIAL APPLICATIONS, THE END USER SHOULD OBTAIN SPECIFICATIONS FROM THE SPECIFIC CLOSURE MANUFACTURER.



TYPE A (OPTIONAL TYPES) TYPE B  
**6 T.P.I.**



**8 T.P.I.**

**THREAD CROSS SECTIONS**

THIS OFFICIAL GLASS PACKAGING INSTITUTE PRINT CONSTITUTES ONE IN A SERIES OF VOLUNTARY STANDARDS INTENDED TO PROVIDE A BASIS FOR ACHIEVING COMPATIBILITY AND INTERCHANGEABILITY BETWEEN MANUFACTURERS AND USERS OF GLASS CONTAINERS AND CLOSURES THEREFOR. THE USER SHOULD BE AWARE THAT OTHER CONTAINER AND CLOSURE DESIGNS MAY DIFFER FROM THIS VOLUNTARY STANDARD, AND IT IS THE USER'S RESPONSIBILITY TO MAKE THE FINAL DETERMINATION AS TO DESIGN AND COMPATIBILITY. GPI ASSUMES NO RESPONSIBILITY FOR EITHER THE USE OF OR INTERPRETATION OF THE STANDARD, FOR IT BEING CURRENT, OR FOR THE DETERMINATION WHETHER ANY PARTICULAR MANUFACTURER'S PRODUCT CONFORMS TO THE STANDARD. THIS DRAWING CONTAINS INFORMATION TAKEN FROM ONE OR MORE PRINTS OF THE GLASS PACKAGING INSTITUTE (GPI). GPI OWNS ALL RIGHT, TITLE AND INTEREST IN THE COPYRIGHTS TO THIS DRAWING AND TO THESE PRINTS. GPI REQUIRES THAT YOU NOT REPRODUCE THIS DRAWING FOR OR DISTRIBUTE THIS DRAWING TO ANY THIRD PARTY WITHOUT GPI'S WRITTEN CONSENT. ANY INQUIRIES OR SUGGESTIONS CONCERNING THIS STANDARD CAN BE ADDRESSED TO THE GLASS PACKAGING INSTITUTE, WASHINGTON D.C. AT [WWW.GPI.ORG](http://WWW.GPI.ORG).

COPYRIGHT © GPI 1995, 1999, 2001

Edward Grant CHAIRMAN	PRINTED AND DISTRIBUTED AS A VOLUNTARY STANDARD BY <b>GLASS PACKAGING INSTITUTE</b> COMMITTEE ON DESIGN AND SPECIFICATIONS	APPROVED FOR PUBLICATION 6-21-01	SUPERSEDES DWG. NO. 4116
GLASS FINISH NUMBER <b>410</b>		GPI DWG. NO.	
MEDIUM CONTINUOUS THREAD CONCEALED BEAD FINISH		<b>4117</b>	