













DATE

76/07/04

99/03/10

ORIGINAL SP415 SPECIFICATION

SPECIFICATION CONVERTED TO STANDARDIZED FORMAT

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(001)

EXTENT OF TWO FULL TURNS (720° REF) AT FULL THREAD DEPTH $ ightharpoonup$									
720° 6	30° 5	40° 4	50° 36	60° 27	0° 18	30° 9	0°	0° T	OF
	V								s
†		1							

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THREAD DEVELOPMENT	- A MINIMUM OF TWO FULL TURNS (720°) OF FULL DEPTH THREAD SHALL BE MAINTA	AINED
ANALYS DEVELOR MENT	- RIGHT HAND THREAD	

L STYLE GENERAL PURPOSE THREAD (Plastic or Metal Closures)										
THDS/IN	(a)	b	С	R1	R2					
6	2,39 [.094]	1,19 [.047]	1,02 [.040]	0,50 [.020]	0,50 [.020]					
8	2,13 [.084]	1,07 [.042]	0,91 [.036]	0,50 [.020]	0,50 [.020]					
12	1,14 [.045]	0,75 [.030]	0,28 [.011]	0,38 [.015]	0,13 [.005]					

M STYLE MODIFIED BUTTRESS THREAD (Plastic Closures)											
THDS/IN	IN (a) b		С	R1	R2	R3					
6	2,39 [.094]	1,19 [.047]	0,99 [.039]	0,25 [.010]	0,75 [.030]	0,75 [.030]					
8	2,13 [.084]	1,07 [.042]	0,89 [.035]	0,25 [.010]	0,75 [.030]	0,75 [.030]					
12	1,30 [.051]	0,75 [.030]	0,41 [.016]	0,25 [.010]	0,20 [.008]	0,50 [.020]					

- NOTES:

 1. DIMENSION **H** IS MEASURED FROM THE TOP OF FINISH [TOF] TO THE POINT WHERE DIAMETER **T**, EXTENDED PARALLEL TO THE CENTERLINE, INTERSECTS THE SHOULDER.
- 2. CONTOUR OF BEAD, UNDERCUT OR SHOULDER IS OPTIONAL. IF BEAD IS USED, BEAD DIA. AND L MIN MUST BE MAINTAINED
- 3. UNLESS OTHERWISE SPECIFIED, I MIN APPLIES TO THE FULL LENGTH OF THE OPENING.
- 4. CONCENTRICITY OF **I MIN** WITH RESPECT TO DIAMETERS **T** AND **E** IS NOT INCLUDED. **I MIN** IS SPECIFIED FOR FILLER TUBE ONLY.
- 5. **T** AND **E** DIMENSIONS ARE THE AVERAGE OF TWO MEASUREMENTS TAKEN 90° APART.
 THE LIMITS OF OVALITY WILL BE DETERMINED BY THE CONTAINER SUPPLIER AND CONTAINER CUSTOMER, AS NECESSARY.
- 6. CONSIDERATION MUST BE GIVEN TO THE TOP OF FINISH WIDTH FOR THE SEALING SYSTEM BEING USED.
- FINISH TO BE SPECIFIED AS FOLLOWS: THREAD STYLE, FINISH IDENTIFICATION AND DRAWING NUMBER. EXAMPLE: M28SP415
- 8. REFER TO DRAWING #1168216 FOR VOLUNTARY STANDARD PET FINISH DIMENSION NOMENCLATURE.

CONDITIONS OF USE AND LEGAL DISCLAIMER

THESE STANDARDS ARE VOLUNTARY, PRIOR TO USE, YOU SHOULD FIRST DETERMINE WHETHER THE USE OF THESE STANDARDS IS APPROPRIATE IN YOUR PARTICULAR APPLICATION. YOU, THE USER, ASSUME ALL RESPONSIBILITY FOR THE USE AND INTERPRETATION OF THESE STANDARDS ON GEPRESENTATIONS ARE MADE AS TO THE CURRENCY OF THESE STANDARDS OR THE CONFORMITY OF ANY PRODUCT TO THEM. YOU, THE USER, AGREE TO INDEMNIFY AND SAVE HARMLESS THE ISBT AND HUSKY INJECTION MOLDING SYSTEMS ID., THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS FROM ANY AND ALL LOSSES, CLAIMS, OR DAMAGES RESULTING FROM THEIR USE INCULDING INJURY OR DEATH OF ANY PERSON OR DAMAGE TO ANY PROPERTY OF WHATSOEVER NATURE.

DIMENSIONS SHOWN ARE FINISHED PLASTIC SIZES	DE	ESCRIPTI	ION		THIS DRAWING IS MAINTAINED		
	S 1 3	I			CONTACT FOR	HREADSPECS.COM SUPPORT: DS@HUSKY.ON.CA 905-951-5000 EXT. 3552	
X, XX ±0, 13 L. XXX ±0	0.0051				FINISH No	SP415	
X°X' ±0°15'	DW	N J.MAY	DATE	99/03/10	DRAWING No	1165381-1	

SP-415 FINISH FOR PLASTIC BOTTLES

mm	T (NOTE 4 & 5)	E (NOTE 4 & 5)	(NOTE 3 & 4)	# ± 0,38 [±.015] (NOTE 1)	± 0,38	([±.0 5]	Р	S ± 0,38 [±.015]	(NOTE 2)	W (NOTE 2)	GAUGE PT	HELIX ANGLE B	CUTTER Ø	THD'S PER INCH
	MEAN	MEAN	MIN	MEAN	L STYLE	M STYLE	MEAN	MEAN	MIN	MAX		'-		
13	12,90 ± 0,15 [.508 ±.006]		5,54 [.218]	11,48 [.452]	1,85 [.073]	2,16 [.085]	2,11 [.083]	0,94 [.037]	7,77 [.306]	1,14 [.045]	0,38 [.015]	3° 11′	9,53 [.375]	12
15		13,08 ± 0,15 [.515 ±.006]	6,55 [.258]	14,15 [.557]	1,85 [.073]	2,16 [.085]	2,11 [.083]	0,94 [.037]	8,84 [.348]	1,14 [.045]	0,38 [.015]	2° 48 ′	9,53 [.375]	12
18	17,68 ± 0,20 [.696 ±.008]	15,54 ± 0,20 [.612 ±.008]	8,26 [.325]	15,67 [.617]	2,74 [.108]	2,97 [.117]	3,18 [.125]	0,94 [.037]	10,90 [.429]	2,13 [.084]	0,50 [.020]	3° 30 ′	9,53 [.375]	8
20	19,69 ± 0,20 [.775 ±.008]	17,55 ± 0,20 [.691 ±.008]	10,26 [.404]	18,85 [.742]	2,74 [.108]	2,97 [.117]	3,18 [.125]	0,94 [.037]	11,58 [.456]	2,13 [.084]	0,50 [.020]	3° 07′	9,53 [.375]	8
22	21,69 ± 0,20 [.854 ±.008]	19,56 ± 0,20 [.770 ±.008]	12,27 [.483]	21,26 [.837]	2,74 [.108]	2,97 [.117]	3,18 [.125]	0,94 [.037]	13,87 [.546]	2,13 [.084]	0,50 [.020]	2° 49 ′	9,53 [.375]	8
24	23,67 ± 0,20 [.932 ±.008]	21,54 ± 0,20 [.848 ±.008]	13,11 [.516]	24,31 [.957]	2,97 [.117]	3,20 [.126]	3,18 [.125]	1,17 [.046]	14,25 [.561]	2,13 [.084]	0,50 [.020]	2° 34′	9,53 [.375]	8
28	27,38 ± 0,25 [1.078 ±.010]	24,99 ± 0,25 [.984 ±.010]	15,60 [.614]	27,48 [1.082]	3,23 [.127]	3,45 [.136]	4,24 [.167]	1,17 [.046]	16,64 [.655]	2,39 [.094]	0,60 [.024]	2° 57′	12,70 [.500]	6
33	31,83 ± 0,30 [1.253 ±.012]	29,44 ± 0,30 [1.159 ±.012]	20,09 [.791]	32,36 [1.274]	3,23 [.127]	3,45 [.136]	4,24 [.167]	1,17 [.046]	19,61 [.772]	2,39 [.094]	0,60 [.024]	2°31′	12,70 [.500]	6