

## Use and Care of Phenolic Caps

Corning phenolic style screw caps are designed for autoclaving, with heat-steam resistant resin. They are available with Teflon® or white rubber liners. Disposable phenolic caps are available in bulk case pack quantities.

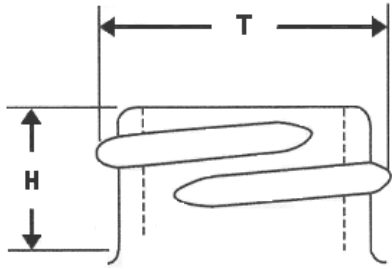
In order to minimize the likelihood of the liners coming out of caps, it is recommended that:

- a) They should be cleaned with hot water only because detergents can attack the special nontoxic adhesive that holds them to the phenolic.
- b) They not be dry heat sterilized which can destroy the liners; only steam autoclaving should be used and then not above 121°C.
- c) When autoclaving the bottles with caps in place the cap must be very loosely attached to the bottle because a vacuum forms inside as the bottle cools and may pull the liner into the bottle.
- d) Caps should not be tightened on to a hot bottle because a vacuum can form inside as the bottle and contents cool and may pull the liner into the bottle.

All caps should be closed “finger tight”, gently compressing the inner liner for a leak resistant fit. DO NOT over tighten, the glass threads on your applicable container may break if over torqued.

Corning phenolic cap threads comply with the current G.P.I. industry standard. G.P.I. refers to the “Glass Packaging Institute”, which is responsible for maintaining current standards and issuing new uniform glass finishing standards to the market.

**Table 1. Dimensions of Phenolic Style Caps** (All dimensions are approximate.)

	“T” Dimension (mm)	“H” Measurements (mm)			
		400 <sup>§</sup>	410 <sup>§</sup>	415 <sup>§</sup>	430 <sup>§</sup>
	13			11.20	
	15			13.90	
	18	9.00	13.00	15.40	
	20	9.50	13.80	18.50	
	24	10.25	16.15	24.00	
	28	10.25	17.75	27.20	
	33	9.85			
	38	9.85			
	*38				22.0
	40	10.25			

<sup>§</sup>Cap Style \*Modified

**Using the table:** 38-400 means that the diameter across the threads of the vessel (T dimension) is approximately 38 millimeters. The second number, 400 in this case, denotes cap style.

For additional product or technical information, please visit our web site at [www.corning.com/lifesciences](http://www.corning.com/lifesciences) or call at 1.800.492.1110. International customers can call at 978.635.2200.

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