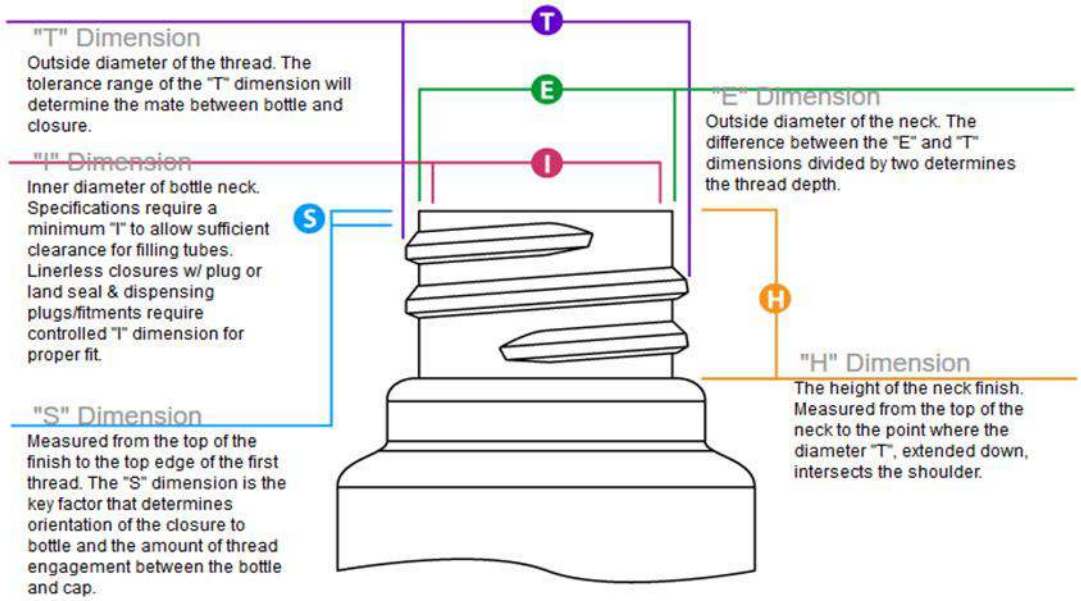
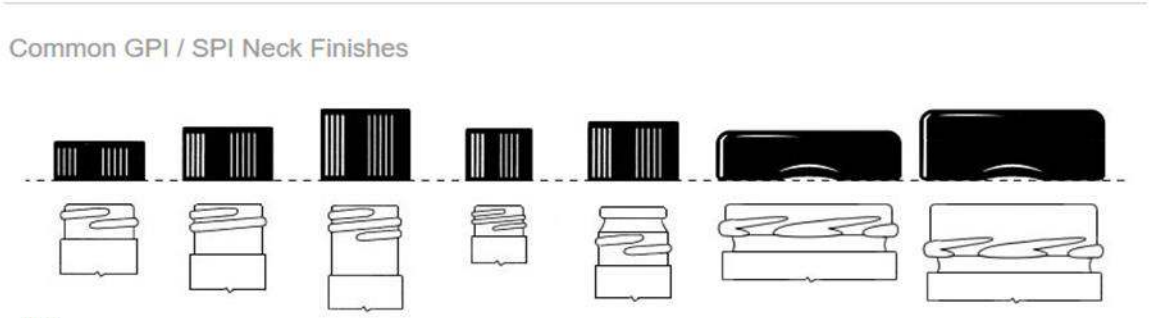
Bottle Cap and Neck Finishes

Every bottle's neck has a finish that holds the cap (or twistable top) with a protruding thread pattern. A bottle and its corresponding cap must have a matching finish to be compatible. For example, a bottle with a 24/400 threading pattern will only be compatible with 24/400 bottle caps.

Understanding Threading Sizes

Threading sizes are denoted with two numbers separated by a forward slash, such as 24/400. The first number indicates the opening diameter, which is either measured across the inside of the cap's opening, or the outside of the bottle's protruding threads. **Refer to the diagram below for a clear illustration of these measurements.** The second number refers to the threading style, with either a "GPI" (Glass Packaging Institute) or "SPI" (Society of the Plastics Industry) finish. The GPI and SPI are responsible for establishing uniform standards for glass and plastic container neck finishes.



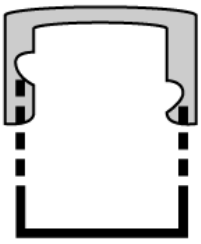


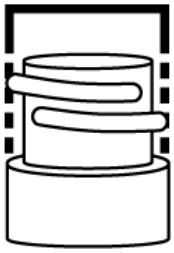
- 400
- 410
- 415
- 425
- 430
- 2030
- 2035

- 400: 1 thread turn
- 410: 1.5 thread turns
- 415: 2 thread turns, narrow threads
- 425: Buttress Finish - thick threads & top bead (better seal, more application torque)
- 2030: Lug Finish - Non-continuous threads
- 2035: Lug Finish - Non-continuous threads, tall "H" dimension

How to Measure a Neck Finish

To find a cap's diameter, measure from one side of the inner wall to the opposite side. Calculate a bottle's neck finish by measuring the diameter of the outermost threads. The resulting millimeter measurement will be the "T" dimension.





Then, see how many times the threads pass one another to determine the finish.
(ex. 24 mm "T" dimension with 1.5 thread turns = 24/410 neck finish)

Please note that not all manufacturers abide the same closure standards. Consequently, it is recommended that you purchase bottles and corresponding caps from the same manufacturer.