

## CUSTOM-DESIGNED SINGLE USE FILLING NEEDLES – FOR FINAL FILLING APPLICATIONS

GL Engineering’s custom-designed single use filling needles are a cost-effective and unique alternative to conventional re-usable filling needles. They are easily integrated into new or existing single-use filling lines where the fluid path is gamma irradiated or autoclaved.

GL Engineering’s single use filling needles consist of 316L stainless steel tubing and a custom-designed polycarbonate housing to fit the needle holder of any filling machine.

The innovative in-house manufacturing process uses no oils or adhesives in the manufacturing process. Needle straightness and overall concentricity are routinely inspected and critical dimensions are verified prior to lot-release.

The needle comes in a variety of sizes ranging from 0.8mm up to 5.0mm to facilitate a range of filling volumes. For use in a disposable sterile filling system, it may be either autoclaved or gamma irradiated.

### TECHNICAL SPECIFICATIONS

The Standard Housing design is for non-friction fit holders.

For friction-fit needle holders the Friction-Fit Housing design is recommended.

#### STANDARD HOUSING



#### Material of Construction:

- (A) Housing: Polycarbonate
- (B) Needle: 316L SS
- (C) O-ring: Silicone

#### Dimensions:

5.440in (138.2mm) Overall Length 4.925in (125.1mm)  
 3.465in (88.0mm) Shaft Length: 2.950in (74.9mm)

| (ID) <sup>(1)</sup> | 0.8mm | 2.1mm | 4.0mm |
|---------------------|-------|-------|-------|
|                     | 1.1mm | 2.5mm | 4.5mm |
|                     | 1.5mm | 3.0mm | 5.0mm |

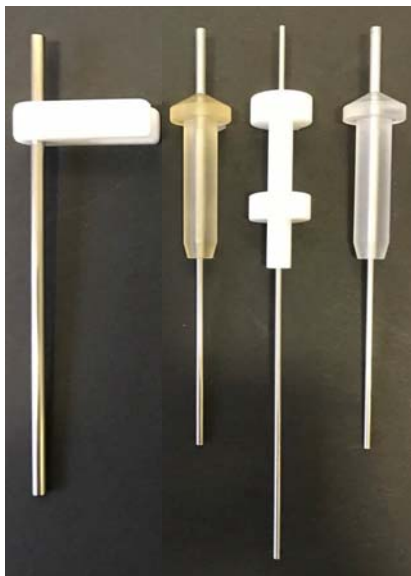
(1) Diameters outside of minimum / maximum values available upon request

#### FRICTION-FIT HOUSING



### BESPOKE DESIGNS

In addition to the ready-made options above, GL Engineering’s filling needles can be made to suit a variety of needle holders and filling machines:



### FILLING NEEDLE PROTECTION

The protection block and snap guard preserve the integrity of the filling needles during transport, handling and sterilization.

