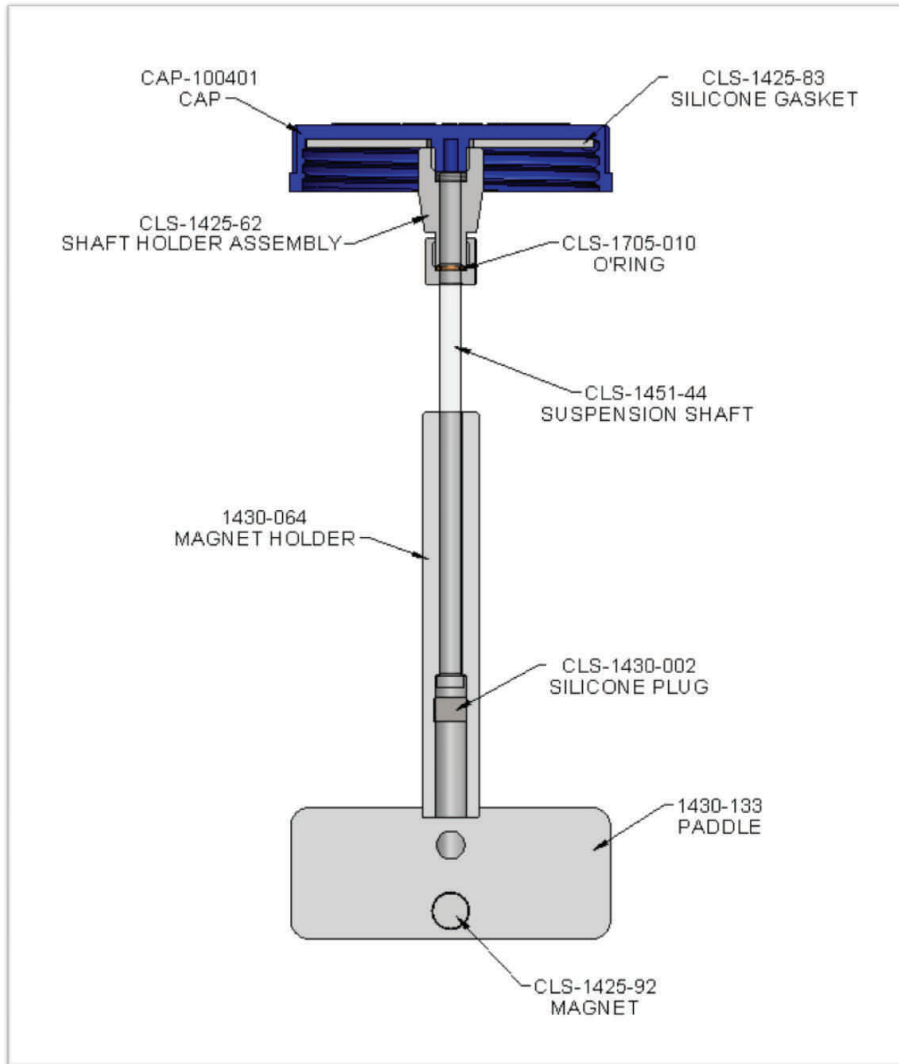


## 3L Spinners



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## CLS-1450 Series Spinner Flask Instruction Manual



## CLS-1450 Series Spinner Flask Instruction Manual

### Description

The Chemglass Life Sciences spinner systems are designed for long life, high efficiency and low maintenance. Spinners are the ideal environment for culturing a wide variety of cell cultures such as insect cells, hybridomas and many other suspension adapted cells.

### Features

Dimpled vessel up to 1L  
Heavy wall center port and side arms  
FDA approved materials

### Material Specifications

Spinner flasks are constructed of high quality components with the following specifications:

Vessels:	Borosilicate type 1 glass
Shafts:	Borosilicate glass, 7mm
Magnets:	PTFE encapsulated
Paddle:	PTFE
Cap:	Polypropylene
Compression fitting	Polypropylene
Liner	Silicone
O-ring	Silicone
Material certifications:	21 CFR 177.1550 21 CFR 177.2600 TSE\BSE Declarations ASTM E-438, USP Type 1, Class A glass

Material certificates are available upon request.

### Manual Symbols



The warning symbol indicates attention to an operation that could cause injury, equipment or process damage.

### Operating and Assembly Instructions

The cap and paddle assemblies are shipped partially assembled.

#### Glass Rod Installation (refer to figure 1)

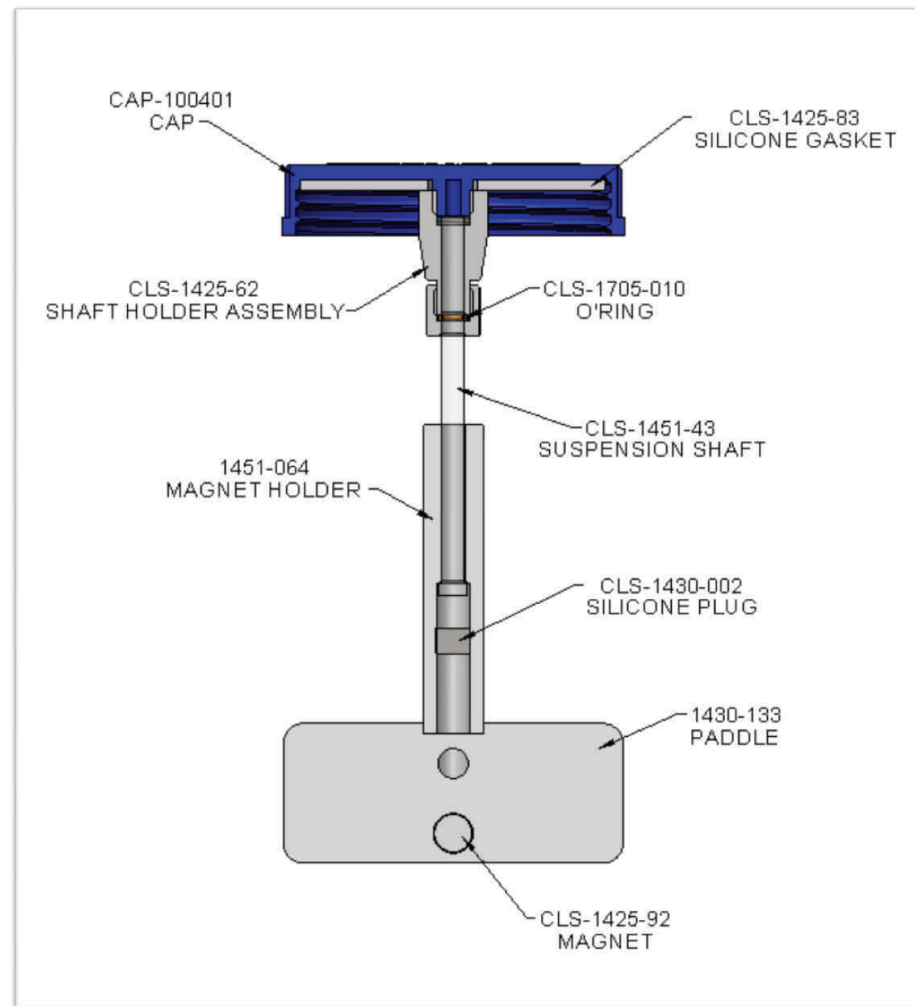
Remove the magnet from the magnet holder by pushing the magnet through the holder until free. Then remove the paddle by pulling it free of the magnet holder. Insert the glass rod into the hole of the bottom of the magnet then insert the silicone plug with the aid of a pencil or other rod and then replace the paddle and then install the magnet.

#### Internal Cap Assembly (refer to figure 2)

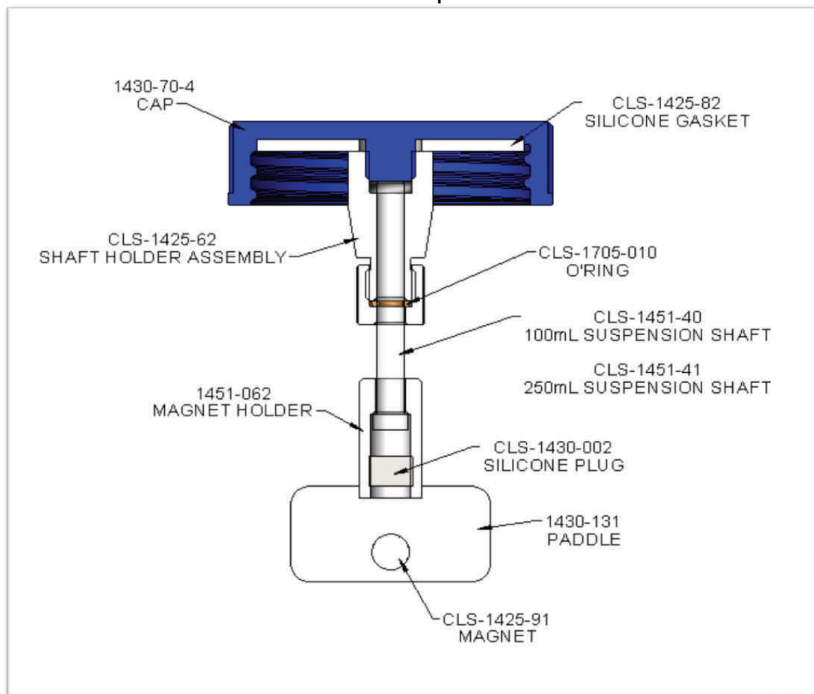
Place the white silicone gasket in the inside of the center screw cap and thread the compression fitting body on to the cap stud. Next locate the paddle assembly and cap nut and insert the end of the glass shaft in the cap nut and slide the top O-ring over the shaft, now attached the nut with o-ring and glass shaft with attached paddle assembly to the compression fitting body. Do not hand tighten until the paddle assembly is adjusted to be about 1/4" to 1/2" from the bottom of the flask then hand tighten.

**WARNING:** Be careful when handling the glass shaft as accidental breakage can cause injury.

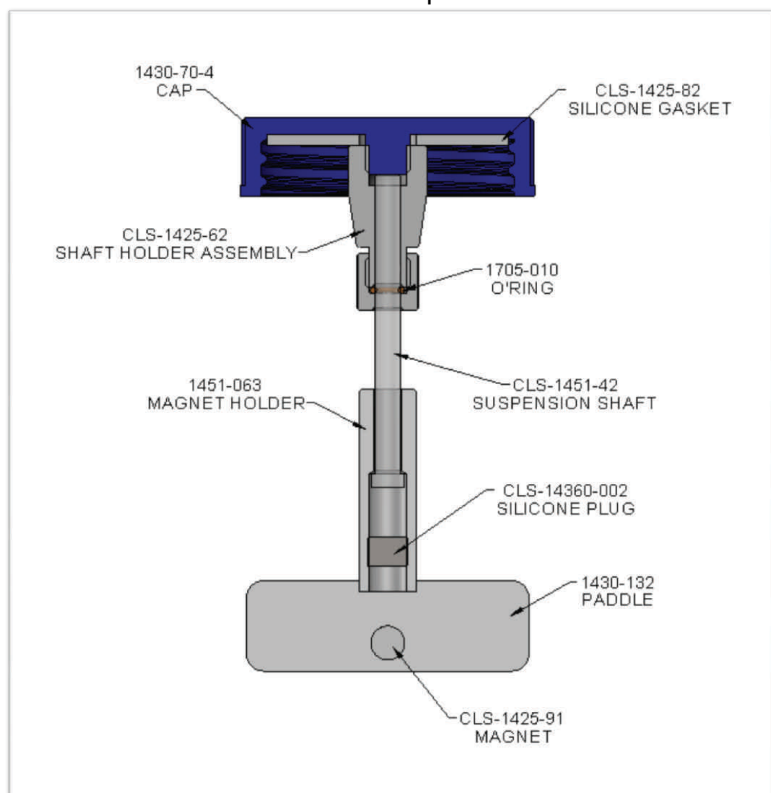
## 1L Spinners



## 100 & 250mL Spinners



## 500mL Spinners



### Cleaning Glass

Use a commercial cleanser approved for glass.

Rinse all glassware as soon as possible after use.

To decontaminate ware, autoclave contaminated items in water containing cleanser. Disassemble spinner assemblies, compression fittings and paddle assemblies for cleaning and to avoid the trapping of disinfectants and cleansers. Failure to do so may result in the release of these compounds during use with possible detrimental effects to cultures or assays.

Thoroughly rinse items in tap water then distilled or deionized water. Even the smallest products. Rigorously follow your rinsing protocol.

**Do not use glassware that is scratched, chipped or cracked for centrifugation, pressure, vacuum, heating or freezing. Breakage may result.**

### Sterilizing

To prevent warping of the top cap and magnet holder, it is recommended that the flask be autoclaved in the standing position only. In large vessels, place a few ml of distilled water in the flask to generate additional steam in the vessel.

Place approx. 20 ml of water (or PBS buffer) for each 10 liter of flask volume and autoclave @ 121C for 15 to 30 minutes.

**Make sure that the vessel is vented so that pressure or vacuum will not build up and cause vessel to explode or implode.**

### Chemglass Life Sciences Warranty and Limitation of Liability

#### Guarantee

Chemglass Life Sciences, herein known as "CGLS", warrants the equipment to be free from all defects and guarantees acceptable performance assuming the equipment has been installed in accordance with the instructions provided by CGLS, and has been used for the specific design purpose, and has been maintained according to the maintenance instructions accompanying the equipment or other CGLS published documents. The warranty period runs for one full year from the date of sale. If the unit is determined to have a defect in materials or workmanship, then it will be repaired or replaced at no charge.

#### Return Authorization

**CGLS must authorize any return of material. The purchaser is responsible for all packaging and shipping to CGLS. If the equipment or material came in contact or was proximate to any biological organism, toxic or corrosive material, or any agent reasonably deemed to be potentially harmful, it must be cleaned and decontaminated prior to receipt by CGLS. The purchaser is obligated to disclose fully in writing, the cleaning and decontamination method. We reserve the right not to accept any unauthorized or potentially harmful shipment.**

#### Correspondence:

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FIGURE: 1

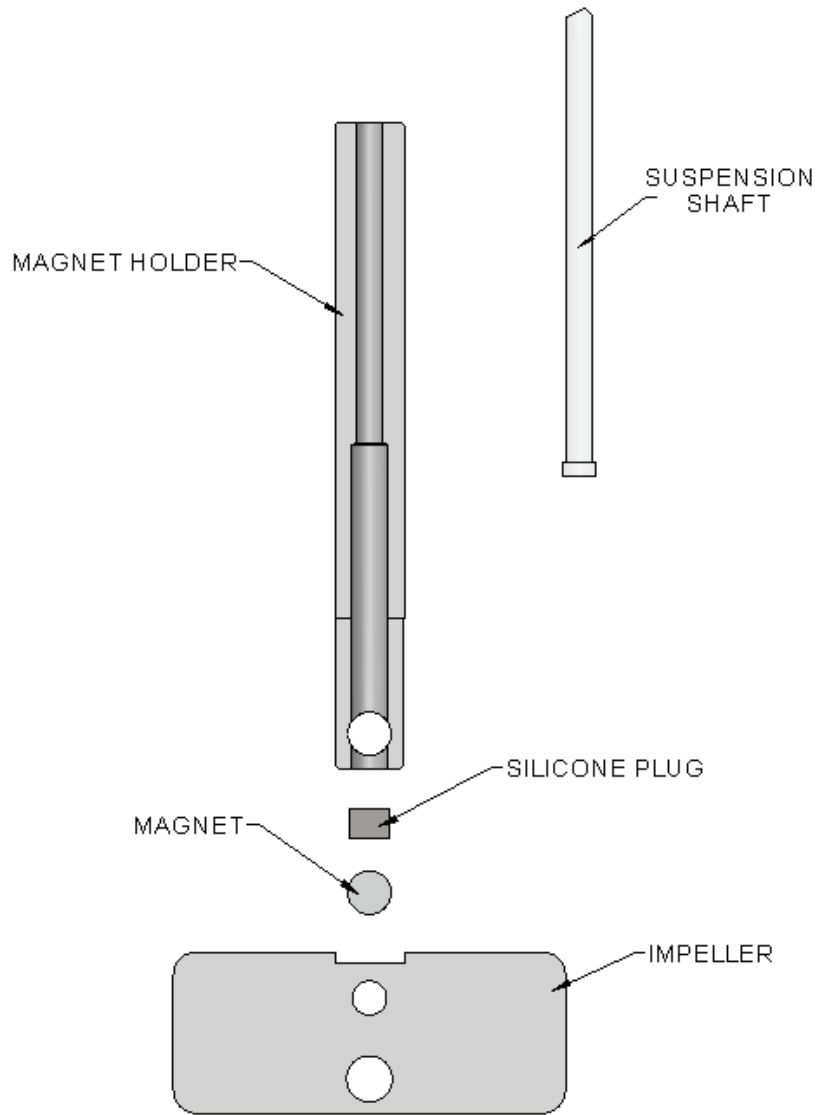


FIGURE: 2

