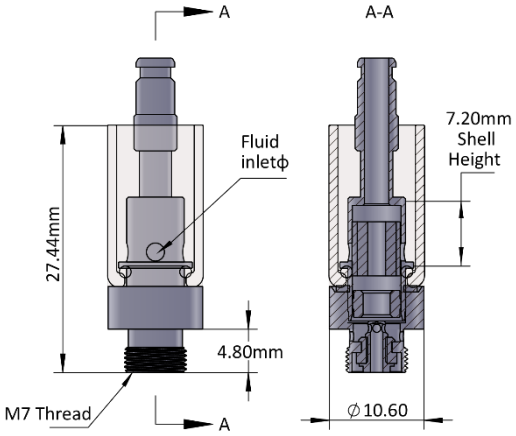
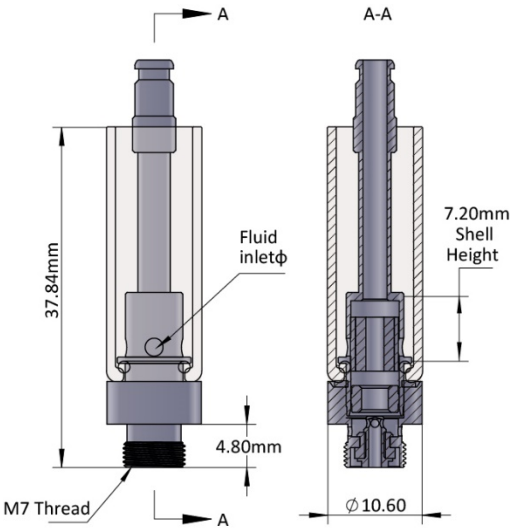
Technical Specification Sheet

PRL® Industrial Series Glass Cartridges		VER:	2.0
DOCUMENT NO:	DOC-OCCUP-01	**DATE:**	13-MAR-2023
AVEO® SKU:	05OCCUP, 10OCCUP		PAGE 1 OF 3

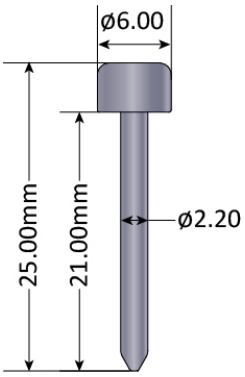
0.5mL Cartridge



1.0mL Cartridge



Unlocking Pin



Unlocking pin requirements: Diameter: 2.2mm, the pin should not go deeper than 21mm.

Description:

Top fill vaporizer cartridge. Designed for rapid high-end, high-production filling and capping. Patent-pending low force, tamper proof, easy snap-on locking and removable mouthpiece system. No arbor press required.

Features:

- AVEO® Technology atomizer
- Top loading, compatible with most filling machines
- Capable for mass filling and mass capping
- Tamper-proof
- Locking press-fit and patent-pending unlocking mouthpiece
- 510 connection with M7 thread size
- 2.0mm aperture for various oil viscosities
- 0.5mL and 1.0mL capacity
- Opening space allows down to 15 gauge (Φ1.65mm)

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Specifications		
Capacity	0.5 mL	1.0 mL
Gross volume	0.55 mL	1.05 mL
Max. fill volume	0.5 mL	1.0 mL
Weight, empty	6.40 ±0.2 g	7.60 ± 0.2 g

Power @ 3.5V (± 0.5W)	Standard power is 9W	
Fluid Inlet Diameter (± 0.5mm)	2.0mm	
Fluid Inlet qty	4 inlet holes	
Viscosity Range	1,000-110,000cps depending on aperture and configuration	
Materials	Heating Base, Coil Head, Anode	Plated Lead-free Brass
	Glass Tube	High borosilicate glass (Food grade)
	Heating Core	FeCrAl, Ceramic
	Seals	Eco-friendly Silicone
	Mouthpiece (multiple materials available)	Resin, Ceramic, Metal, Hemp Plastic

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Filling Instructions

Failure to follow these instructions may result in cartridge leakage, damage, or poor performance.

- To fill, insert a blunt tip needle into the space between the center airway tube and the inner wall of the cartridge. The recommended oil temperature range at time of filling is 90°F-130°F or 32°C-55°C. (1.83mm is the maximum needle width allowed. An 15 gauge needle is 1.65mm wide.)
- For glass cartridges, make sure there is no fluid in the top 3mm of the glass tank. Caution: do not allow oil to enter the center airway tube. Do not overfill. If the cartridge is overfilled, fluid will be forced through the atomizer and leak out of the bottom of the cartridge when the mouthpiece is capped. Make sure the inner surface of the cartridge close to the top opening is free of fluid. Fluid on this surface may act as a lubricant reducing retention of the mouthpiece.
- Be aware that the silicone end cap can be punctured when too much pressure is applied during capping.
- Immediately after filling, cap the cartridge with the mouthpiece until it is fully seated. Do not wait more than 3 minutes to cap. Shorter time is recommended for thinner oils. Failure to cap within the appropriate amount of time can lead to leakage and clogging.
- Cartridges should be allowed to stand for at least 30 minutes before use. During this time, fluid is priming the atomizer. The rate that the atomizer saturates is dependent upon the viscosity of the fluid. More viscous fluids will require more time. The appropriate aperture setting must be used according to the viscosity of the fluid.

PRL® Glass Cartridge Capping

- After filling, insert the mouthpiece, pressing lightly to align it on the center post. After making sure the mouthpiece is properly aligned and straight, press the mouthpiece down vertically (not at an angle) using level, even pressure until you hear a click that indicates it is fully seated.
- It is possible to seat the mouthpiece by hand, but a light-duty arbor press and jig is recommended. Do not use a hammer or mallet. About 3-4kgF of force is needed to cap a single cartridge.
- A misaligned mouthpiece, off-center arbor press, or pressing at an angle can cause the mouthpiece hooks to not engage onto the center post. This can lead to damage, improper seal, leakage, and cracking of the glass tank.
- Once the mouthpiece is fully seated, it cannot be removed unless you use the unlocking tool provided or suggested by AVEO®.
- Caution: Do not twist or rotate the mouthpiece while it is being inserted. Do not press down even at a slight angle.
- Reuse of the mouthpieces is not recommended.