# E1P Series

***Stationary Working Electrode Product Guide***

***Part # Style: AFE1PMMZZZ***

(ZZZ = overall length (050 to 150), MM = disk electrode material, e.g. AU = gold, PT = platinum, GC = glassy carbon, etc.))

## Warnings

**Caution:**

**Do not attempt to use this electrode as a rotating disk electrode.**

**Thermal Stability:**

**Use electrode from $10°C$ to $25°C$. Extreme temperatures damage electrode seals.**

**Chemical Compatibility:**

**The electrode shroud material is made of polytetrafluoroethylene (PTFE) which is resistant to most chemicals.**

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## Description

The E1P Series disk electrode is small, easy-to-use, and designed for use as the working electrode in a routine three electrode (e.g. voltammetry) experiment. The E1P Series disk electrode is intended for use in general applications.

The shaft is protected by a shroud made from polytetrafluoroethylene (PTFE). This fluoropolymer is resistant to most of the electrolyte solutions commonly used in routine voltammetry experiments.

The electrode is available in various lengths; however, the most common length (85 mm) is compatible with the Low Volume Cell Cap Kit system offered by Pine Research. The electrode is shipped with a rubber O-ring around the shaft for easy cell height adjustment. This O-ring must be removed if used with the Low Volume Cell Cap Kit system.

## Leak Testing

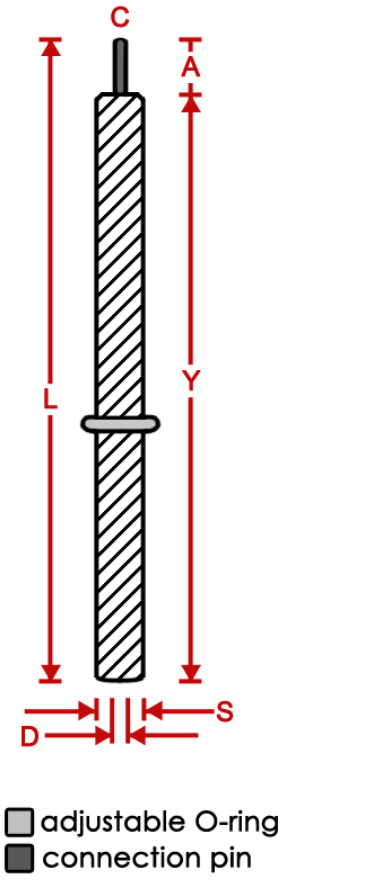
The shroud is tightly sealed around the circumference of the working electrode material. The electrode is guaranteed to be leak-free at the time of shipment. The electrode should only be used at temperatures from $10°C$ to $25°C$. Exposing the electrode to temperatures outside this range may create a leak between the electrode material and the shroud.

## Photograph

## Maintenance

After using the electrode, clean it with distilled water and replace the protective cover to prevent the electrode surface from being scratched. Periodically, the electrode surface will need to be polished. An electrode polishing kit with various alumina slurries and polishing pads is available (sold separately).

## Diagram




| | |
|---|---|
| **Disk Diameter (D):** | $3.0\ mm$ |
| **Shroud Diameter (S):** | $6.35\ mm$ |
| **Overall Length (L):** | $85\ or\ 150\ mm$ |
| **Contact Pin Length (A):** | $8.5\ mm$ |