

# Operating Instructions

## Semi Prep 10mm Guard Cartridge

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The Semi Prep 10mm Guard Holder was designed for our 30x10mm cartridge columns. Cartridges in this format are available as preparative guards as well as cartridges to address the high speed and high throughput requirements of combinatorial chemistry and semipreparative chromatographic applications.

### **Cartridge Installation:**

To insert a cartridge column, unscrew one of the cartridge Holder ends from the metal body. With a twisting motion, press a new cartridge into the Holder end that was just removed.

**Note: Wet the end of the cartridge with water or mobile phase to reduce seal wear and make cartridge insertion easier.**

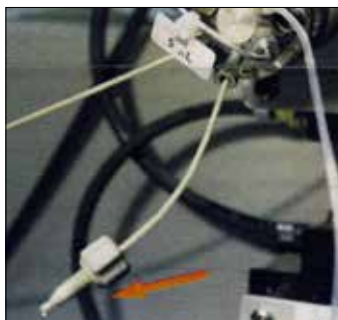


Moisten the free end of the cartridge and reassemble the Holder. Tighten the Holder Ends by hand until they are snug. **Do Not Use Wrenches or Pliers!** The PEEK cartridge end pieces are interchangeable. The knurled end of the aluminum body facilitates opening and closing the Holder and can be used as a flow direction reference after a cartridge is placed in the Holder.

### **Plumbing the Holder to an HPLC Instrument:**

Replace the stainless steel outlet tubing from your sample injector with the PEEK tubing, ferrule, and special long bushing provided in the Holder Kit as pictures to the right. This provides finger-tight convenience and will prevent possible damage to the Holder.

**Do not connect stainless steel bushings and ferrules to the Holder's female end fittings. Do not use wrenches or other hand tools to tighten the fittings.**



### **Cartridge Removal:**

Unscrew the plastic bushing from the holder then unscrew the Holder's end piece. If the cartridge remains in the end piece that is still attached to the metal body, unscrew the metal Body and pull the cartridge from the assembly.

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## Parts and Accessories:

Part No.	Description
ADV10-Hold30	Semi Prep 10mm Guard Cartridge Kit for a 30x10mm Cartridge. <i>Includes 2 ea. PEEK tubing, bushings and ferrules.</i>



## Specifications:

**Materials:** Semi Prep 10mm Guard Cartridge Holders are made of PEEK (polyetherether ketone) and aluminum.

**Solvents:** The components of the Holder that come into contact with the mobile phases have very good chemical resistance to most commonly used HPLC solvents and buffer systems. DMSO, Me<sub>2</sub>Cl<sub>2</sub>, and THF can cause PEEK to swell over a period of time, so they are not recommended for routine use. The Holder's seal is compatible with all common chromatographic solvents except hexane.

**Pressure:** The maximum suggested operating pressure is 3,200PSI (220Bar).

## Warranty:

Analytical Sales & Services products are manufactured and quality-controlled to the highest standards and are warranted to be free of manufacturing defects. A customer feeling that a product does not measure up to performance expectations must request a returned goods authorization from the place of purchase within 30 days of the invoice date. Analytical Sales & Services products are not intended for use in clinical or diagnostic applications. Specifications are subject to change without notice.



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