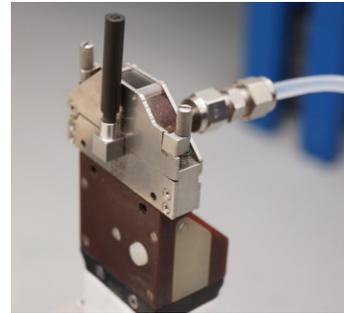


## ARGON PURGE RESTRICTORS

*CSI Designed Innovation for Ease of Use, Improved Quality, and increased Productivity in Orbital Welding*

- Enables a 50% to 80% reduction in Argon Purge gas used in high purity orbital welding
- Easy to use. Simply insert into the end of the tube or fitting opposite the purge gas inlet.
- Made out of non-volatile polyimide. No outgassing or dimensional change at high temperatures
- Cool to the touch during welding. No more burned fingers from hot fittings!
- Improves weld quality by reducing variables in purge rates resulting in fewer convex, concave, or blown welds.
- Utilize as purge blocks on Tees and Crosses to eliminate contamination of the open end of the fitting with clean room tape residue.



**Orbital Welding Innovations**

### Typical differential pressures for UHP Orbital Welding:

1/4" Tubing & Fittings:	2.8" WC
3/8" Tubing & Fittings	1.5" WC
1/2" Tubing & Fittings	1.0" WC

### 7X Reduction in Argon Gas with CSI's Purge Restrictor From 22 SCFH to 3SCFH\*

\* Flow Rate (Q) = Velocity (V) X Area (A) Assuming Velocity (V) is constant, a reduction in Area (A) will reduce the Flow Rate

A test using 1/4" Tubing in CSI's Lab showed a 1/4" weld to a 6" spool piece took 22 SCFH to achieve the required 2.8" WC. With the Purge Restrictor installed, the same weld condition took just 3 SCFH.

UHP Argon costs approx. \$0.40/cu. ft. **The Argon cost/hour under these conditions went from \$8.84 to \$1.20.**

### Pricing Information

1/4" Purge Restrictor (APR-4)	\$35.00 ea
3/8" Purge Restrictor (APR-6)	\$35.00 ea
1/2" Purge Restrictor (APR-8)	\$35.00 ea
Technician's 3 Pack (APR-TP)	\$79.95 ea
(3 pack includes 1/4", 3/8" and	

**Since 2000, Critical Systems, Inc. (CSI) has been supporting the breakthrough technologies of our customers with practical, cost effective solutions that "surround the process tool".**

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