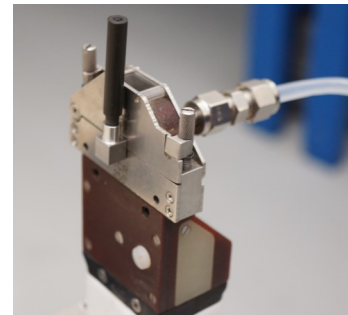


ARGON PURGE RESTRICTORS

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.

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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