

# SG2600, SG2800 Series

## Ultra High Purity Regulators with Face Seal Welded Connections

VCR® and VCR® compatible (vacuum face seal) fittings are becoming more and more popular in ultra high purity, welded gas handling systems, such as those found in semiconductor manufacturing facilities.

State-of-the-art, Automatic Tube Welding (ATW) equipment allows Advanced to offer a selection of stainless steel regulators equipped with butt welded vacuum face seal connections. Additionally, Advanced offers a complete line of stainless steel gauges, inlet CGA nipples, diaphragm seal valves and filters with mating vacuum face seal connections. These accessories enable Advanced to custom configure many regulator assemblies without using pipe threads or compression fittings to join components.



SG2600 Regulator

### SG2600 Series

Single-Stage, Ultra-High Purity Pressure Reducing Regulators with welded vacuum face seal connections: 1/4" female swivel inlet and outlet ports, 1/4" male swivel gauges port(s) with installed 1/4" female swivel gauge(s). Contact your Advanced Representative for information on additional specifications and options available.

### SG2800 Series

Tied Seat (Positive Seal), Single-Stage, Ultra-High Purity Pressure Reducing Regulators with welded vacuum face seal connections: 1/4" female swivel inlet and outlet ports, 1/4" male swivel gauges port(s) with installed 1/4" female swivel gauge(s). Contact your Advanced Representative for information on additional specifications and options available.

### Standard Features

- VCR® Configuration requires zero axial clearance which provides for ease of component installation and removal.
- Gasket/Face-Seal Design provides a metal to metal seal with no entrapment zones
- No Threads in Flow Path eliminate generation of unwanted metal particles.
- VCR® Versatility permits use in both vacuum and positive pressure applications.

### Optional Features

- Positionable Captured Vent Bonnet allows for 360° rotation of bonnet vent port without changing regulator position.
- High Purity Internal Connections (H.P.I.C.) machined inside the regulator body and designed to be compatible with VCR (or equivalent) male swivel vacuum face seal connections provide economical alternative to welded fittings.

### VCR Compatible Accessories



SG6114 Filter



SG6651-(CGA)VM Connection



SG6960 with Gasket

### VCR Compatible Accessories

Equipment	Model No.	Page
0.01 Micron Membrane Filters (1/4" MVCR x 1/4" MVCR)	AG7101	145
2 Micron High Pressure Filters (1/4" MVCR x 1/4" MVCR)	SG6114	143
Check Valves (1/4" MVCR x 1/4" MVCR)	CV5674, CV5675	141
Diaphragm Seal Valves (1/4" MVCR x 1/4" MVCR)	SG5482V, SG5492V	137
Pressure Gauges (1/4" FVCR)	SG63XX-FVCR	161
CGA x 1/4" Male Vacuum (VCR) Cylinder Connections	SG6651-(CGA)VM	156
Male Connector (1/4" NPTM x 1/4" MVCR)	SG6960	
Gasket, Nickel, 1/4" Vacuum (VCR)	02025161	