

UC9 ULTRA HIGH PURITY PRESSURE & VACUUM SWITCH SERIES

The UC9 Series incorporates Wasco's proprietary manufacturing method along with an Elgiloy® diaphragm. It provides ultra high purity and unmatch corrosion resistance. Its all-welded construction eliminates all leak paths.

This series is a perfect switch to handle corrosive media with high accuracy and tight tolerance.



UC9 HIGHLIGHTS

We've designed these switches for highly corrosive environments found in next generation semiconductor processing equipment. The UC9 series is rated for more than 2,000,000 95B2 application cycles. The UC9 series has materials options available that meet or exceed SEMI F20 UHP requirements. All switches are helium leak tested to $\leq 1 \times 10^{-9}$ std cc/sec per SEMI F1.

TYPICAL APPLICATIONS

Gas Boxes IGS Gas Panels Gas Distribution Systems Valve Manifold Boxes Etch & Deposition Systems

UC9 PERFORMANCE CHART

Model	Range of Activation Points*	Reset Band*	Activation Point Tolerance	Proof Pressure**	Burst Pressure**
UC9-A	20 to 200 Torr Absolute Pressure	10 Torr +6% of Activation Point (typical)	+/- 5 Torr +2% of Activation Point (typical)	100 PSIG	1000 PSIG Minimum
UC9-G	0.5 to 3.5 PSIG Gauge Pressure	0.2 PSI +6% of Activation Point (typical)	+/- 0.1 PSI +2% of Activation Point (typical)	100 PSIG	1000 PSIG Minimum

^{*} Other ranges available



^{**}Higher pressures available











MATERIAL SPECIFICATIONS

	Wetted Components
Process Port	316L SS* SEMI F20 UHP compliant
Diaphragm	Elgiloy®*
Interior Surface Finish	5 Ra

^{*} Other Materials Available

TECHNICAL SPECIFICATIONS

Expected	≥1,000,000 cycles 95B2	
Lifetime	(depending on application)	
Ingress	IP67	
Protection	(absolute configuration only)	
Leak	100% Helium Leak Tested	
Rate	to ≤ 1 x 10 ⁻⁹ std cc/sec	

TEMPERATURE SPECIFICATIONS

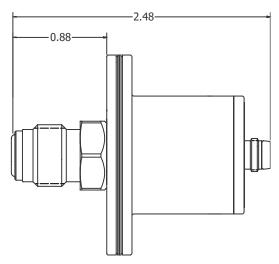
Operating	-20° to 60°C*	
Temperature	(-4° to 140°F)	
Non-Operating	-40° to 100°C	
Temperature	(-40° to 212°F)	

^{*}Higher temperature ratings available

ELECTRICAL SPECIFICATIONS

UL 508	E489633					
	Max Amp Rating	Volts AC/ DC	Contact Material			
Electrical	1	115/28	Gold			
Rating	3	250/28	Silver			

UC9 DIMENSIONS



Typical UC9 with 1/4" male face seal and M8 3-pin (other configurations available)

