

# UC8 SERIES ULTRA HIGH PURITY PRESSURE & VACUUM SWITCH

The UC8 Series incorporates Wasco's proprietary manufacturing method along with an Elgiloy® diaphragm. It provides ultra high purity and unmatched 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.



#### **UC8 HIGHLIGHTS**

We've designed the UC8 Series for highly corrosive environments found in next-generation semiconductor processing equipment. The UC8 series is rated for more than 2,000,000 95B2 application cycles. The UC8 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

#### **UC8 PERFORMANCE CHART**

Model	Range of Activation Points*	Reset Band*	Activation Point Tolerance	Proof Pressure**	Burst Pressure**
UC8-A	50 to 1500 Torr Absolute Pressure	40 Torr +6% of activation point (typical)	±15 Torr +2% of activation point (typical)	100 PSIG	1000 PSIG minimum
UC8-G	2 to 20 PSIG Gauge Pressure	1.0 PSIG +6% of activation point (typical)	±1.0 PSI +2% of activation point (typical)	300 PSIG	1000 PSIG minimum

<sup>\*</sup> Other ranges available



<sup>\*\*</sup> Higher pressures available



COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001









#### **MATERIAL SPECIFICATIONS**

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

<sup>\*</sup> Other materials available

#### **TECHNICAL SPECIFICATIONS**

Expected	≥2,000,000 cycles 95B2	
Lifetime	(depending on application)	
Ingress	IP67	
Protection	(absolute configuration only)	
Leak	100% Helium Leak Tested	
Rate	to ≤ 1 x 10 <sup>-9</sup> std cc/sec	

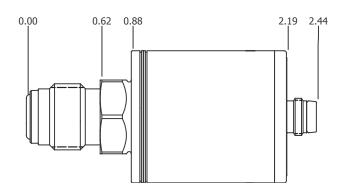
## **ELECTRICAL SPECIFICATIONS**

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

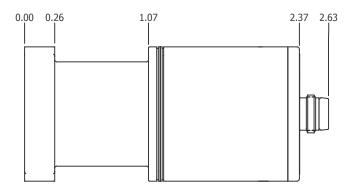
#### **TEMPERATURE SPECIFICATIONS**

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

### **UC8 DIMENSIONS**



Typical UC8 with 1/4" Male Face Seal



Typical UC8 with 1.125" C-Seal Surface Mount

We understand how difficult the specifying process is, but we believe it shouldn't be so confusing. Wasco has specified over 6000 unique pressure sensors for thousands of customers since 1963.

## Find your solution today by filling out our worksheet.

