

W117G

Ultra Pure Stainless Steel Pressure Switch

OVERVIEW

The Whitman Controls W117G Ultra Pure Stainless Steel Pressure Switches have all welded stainless steel interiors which are Helium leak checked to pass 4 x 10⁻⁹ Std CC/Sec. These switches are used in silicon wafer ovens, numerous medical devices and other applications where even the slightest impurities are not tolerated. There are a number of fitting options available featuring the 1/4" VCR Male and many interface options to fit any application.

KEY FEATURES

- High purity
- Welded stainless steel body and interiors, helium leak checked
- Set point options: Factory set, field adjustable, or a combination
- Extensive operating temperature range
- Wide range of electrical interfaces available
- SPDT or SPST availability

SPECIFICATIONS

- **Set Point Range:** 0.80 to 500 PSIG
- **Proof Pressure:** 150% of sensor capacity
- **Temperature Range:** -65°F to +225°F (-54°C to +107°C)
- **Amps:** 5 Amps Max
- **Sensor Element:** Electric beam welded, helium leak tested
- **Weight:** 3.0 oz (approx.)
- **Cycling:** 3H/5H – Not to exceed 60 CPM, 10H/25H/50H – Not to exceed 20 CPM
- **Wetted Parts:**
Capsule: 17-7 PH, electron beam welded
Fitting: 303 Stainless steel
Standard Thread: 1/8-27 NPT male
Optional Threads: 1/4 VCR male, 1/4-18 NPT male



SENSOR CODE AND PERFORMANCE CHARACTERISTICS

Table A			Table B	
SENSOR CODE	MAXIMUM SYSTEM PRESSURE*	SET POINT REPEATABILITY	SET POINT RANGE	
	PSIG	PSIG	DECREASING	INCREASING
3H	30	± 0.6	0.8 - 28.5	1.6 - 30.0
5H	50	± 1.0	2.0 - 48.0	3.0 - 50.0
10H	100	± 2.0	3.0 - 96.5	4.5 - 100.0
25H	250	± 5.0	7.5 - 242.5	9.7 - 250.0
50H	500	± 10.0	15.0 - 485.0	20.0 - 500.0

*Exceeding sensor capacity may cause shift in set point

CAUTION: Customer Media and environment must be compatible with construction materials as outlined above