GAE offers a series of waveguide pressure/vacuum windows that deliver good performance at relatively high microwave power levels. The standard models in the series utilize a fused quartz silica window captured between silicone o-rings in an aluminum base. Matching irises located on both sides ensure low VSWR across the ISM band. An additional o-ring is provided for external pressure/vacuum sealing to the mating flange surface. Optional materials are available for higher temperature operation, as well as alternate designs for liquid cooling.

**General Specifications:**
- Frequency: 2450 MHz +/- 50 MHz
- Input Power: 3 kW continuous max. (into flat load)
- Waveguide: WR340 (RG112/U)
- Waveguide Flange: CPR340 (UG-1713/U) with tapped holes
- Input VSWR: 1.2 max.
- Insertion Loss: .15 dB max
- Pressure: 30 psig (207 kPa) max.
- Leak Rate: 10⁻⁷ Torr-lit/sec max. with SF₆ gas
- Operating Temp: -65 to +450 °F (-54 to +232 °C)
- Materials: Aluminum flanges; Fused quartz window; Silicone o-rings
- Finish: Chemical conversion coating

**Options:**
- Water cooling
- Perfluoroelastomer o-rings (up to 600 °F/316 °C)
- Alumina or sapphire window
- Brass flanges
- Clearance holes

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All dimensions are in inches [millimeters].

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