

MTW Performance Envelope

Spherical Target Chamber Vacuum Performance and Pump-down Curves

*Data recorded on 01/20/2024

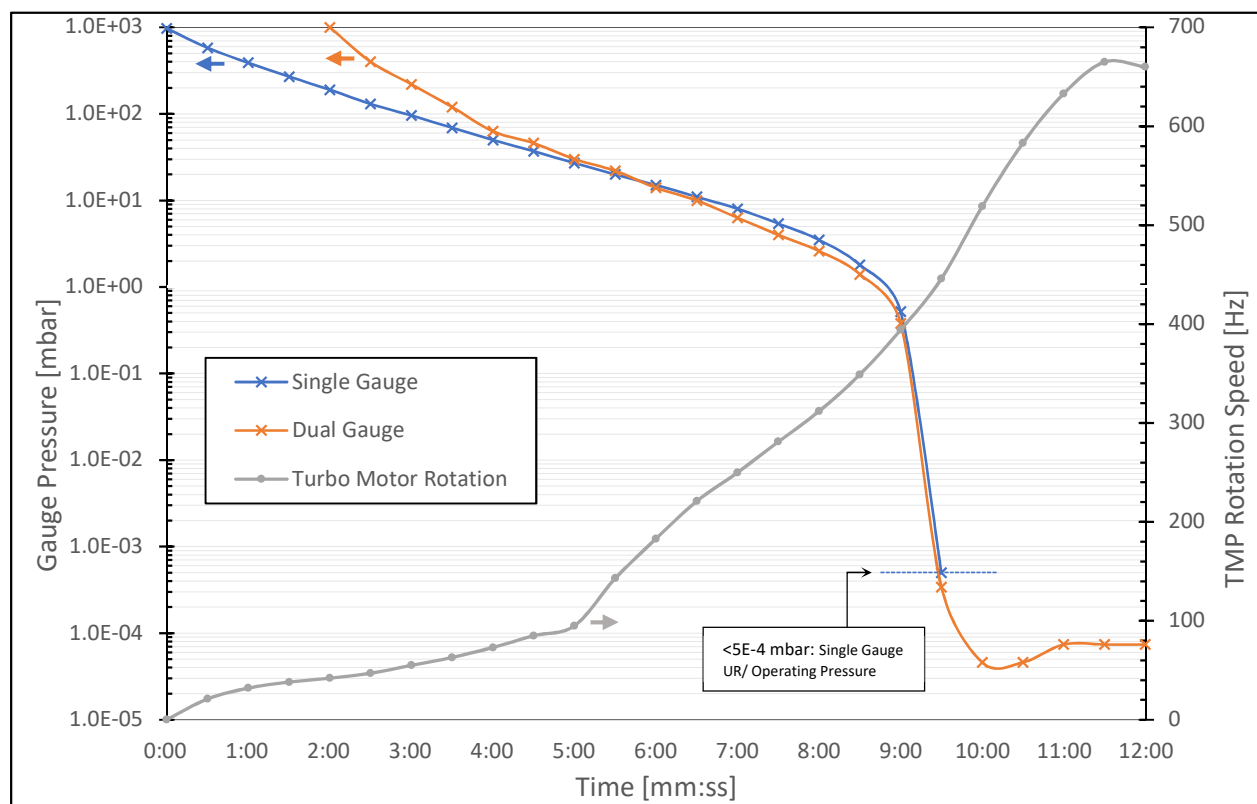
All Diagnostic Ports blanked off except: Ports 1 (Hexapod), 6 (XTAL), 7, 10 (TPS Cams), 14, 21 (TPS Flashers), and 4 (Pinhole Cam)

Gauges used:

Single Gauge: Pfeiffer D-35614 Asslar

Dual Gauge: Pfeiffer Compact Full Range Gauge, PKR-251

Full Pump Pressure Test – Backing Pump and TMP motor ON



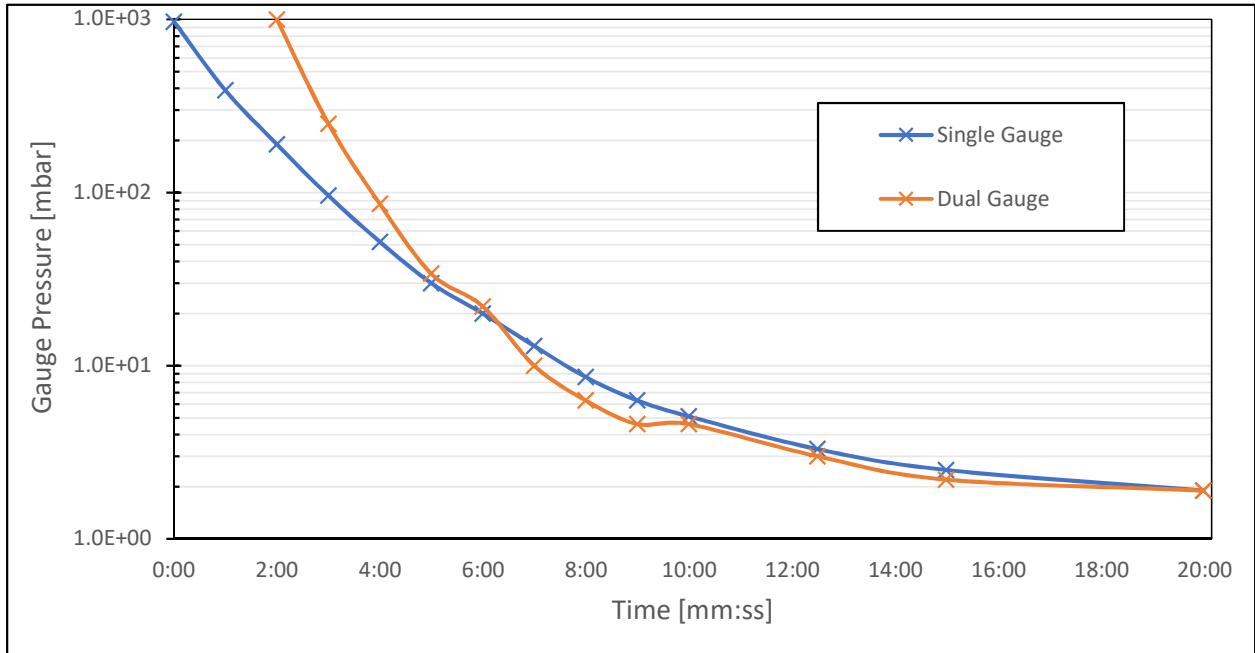
Chamber Base Pressure: **7.4 E-5 mbar** (Dual Gauge)

Pumping Time to Base Pressure: **11:00 min**

Chamber Operating Pressure: **< 5 E-4 mbar** (Single Gauge)

Pumping Time to Operating Pressure: **9:30 min**

Backing Pump Pressure Test – TMP Motor OFF



Backing Pump Base Pressure: **1.9 mbar** (Single and Dual Gauge)

Pumping Time to Base Pressure: **20 min**