GNB Company
Introduction
Quick Facts

• Located in Elk Grove, CA
• Founded in 1968
• Approx. 75 employees
• Production of Vacuum Valves and Vacuum Chambers
• Specialized in welding and machining of steel and aluminum
• Onsite Engineering
• ISO9001 certified
Timeline

1968 - Gary N. Burnett starts GNB Corporation

1972 - GNB becomes well known for big valves

1980 - GNB launches vacuum chamber line

1990 - GNB bought by Sierra Concepts Corporation

2005 - GNB expands Elk Grove facility

2008 - GNB develops pendulum valves

2008 - California prospect or award

2010 - GNB develops space saver gate valve

2011 - GNB builds LIGO project

2015 - GNB buys pump line

2016 - GNB bought by KL Group

www.advantorr.com
www.gnbvac.com
GNB’s Production Facility

- 70,000 square foot (7000 square meter) facility
- 5 Axis Waterjet 12’x8’ (3.6m x 2.4m)
- TIG and MIG welding of Aluminum, Steel
- Automated welding for spool pieces
- ASME CWI (certified welding inspectors) on site
- Non-destructive testing (ultrasonic and Dye penetrant inspection)
- CNC machining up to 168” sq. (4267mm sq.) / turning 108” (2743mm)
- Bead blasting and plate graining in house
Built for Vacuum Production

• Helium Leak test is Standard for all components
• Bakeout and RGA available
• Cleaning equipment for vacuum components
• Partnership with local suppliers for chemical cleaning and electro polishing
• Class 10,000 clean room available
GNB Engineering

• 7 full time design engineers
• Solid Works 2020 CAD software
• FEM stress and deflection calculations
• Design of ASME pressure vessels (U-Stamp)
• Thermal Calculations
• Specialized in water cooling for high temp. valves and chambers
• Flow calculations
• Experts in value engineering to reduce costs of vacuum components
GNB Vacuum Valves

• Gate, Angle and Slit Valves
• Standard sizes from 4” (ISO100) to 72” (1.8m) available
• Custom valves up to 4meter diameter
• Stainless, Mild Steel and Aluminum construction
• Sealing technology from rough vacuum to UHV
• Water cooling features for high temperature processes
• Unique designs for harsh environments
• Pneumatic, Electric, Hydraulic and Manual actuators
GNB Chambers

• Small to very large chambers
• Built to print or completely engineered to specification
• Sealing surfaces are machined after welding
• Steel or Aluminum construction
• Water cooling options. (tracing, double wall)
• Different surface finishes (mill finish, blasted, grained, e-polish,..)
• Can be cleaned for UHV service
GNB Baffles and Cryo Products

• Multi Coolant Baffles
• Liquid Nitrogen traps
• Cold Traps
• Heat Shields
• Meissner Coils
Questions?

Thank you very much for your attention!