



# PUMP / COMPRESSOR DESIGN DATA SHEET

Senior Operations, LLC  
Senior Metal Bellows  
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Technical contact: \_\_\_\_\_ Company: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Industry: \_\_\_\_\_ Application: \_\_\_\_\_

### Pump / Compressor Requirements:

(see page 2 for additional requirements)

- Compressor Flow Rate
- Inlet Pressure
- Outlet Pressure
- Helium Leak Rate
- Max. Startup Pressure
- Proof Pressure
- Burst Pressure

\_\_\_\_\_ Quantity of Pumps Required  
 \_\_\_\_\_  SCFM  ACFM  SLPM  
 \_\_\_\_\_ Units: \_\_\_\_\_  
 \_\_\_\_\_ Units: \_\_\_\_\_  
 \_\_\_\_\_ Units: \_\_\_\_\_  
 \_\_\_\_\_ Units: \_\_\_\_\_  
 \_\_\_\_\_ Units: \_\_\_\_\_

### Temperature & Media Requirements

- Ambient Temperature
- Media Gas
- Max. Gas Temperature
- Min. Gas Temperature
- Relative Humidity

\_\_\_\_\_  °F  °C  
 \_\_\_\_\_  
 \_\_\_\_\_  °F  °C  
 \_\_\_\_\_  °F  °C  
 \_\_\_\_\_ %

### Electrical Requirements:

(select all that apply)

- AC Voltage
- Frequency
- Phase ~OR~
- DC Voltage
- DC Motor

115  208  230  380  460  575  
 50 Hz  60 Hz  50/60 Hz  400 Hz  
 Single  Three  
 12  24  28  Other: \_\_\_\_\_  
 Brushed  Brushless

### Compressor Valve Gasket Material:

Teflon  Viton (Fluorocarbon)  
 Aluminum O-Ring  Other: \_\_\_\_\_

### Miscellaneous

- Motor Enclosure
- Motor Speed

ODP  TEFC  TENV  XP-Div \_\_\_\_ Group(s): \_\_\_\_  
 Single Speed  Variable Speed

### Design: (select all that apply)

Integral Mount (motor to pump)  Pedestal Mount  
 Pedestal Mount with a common base plate  
 Single Containment  Double Containment  
 Included Plumbing (if applicable)

### Inlet / Outlet Ports:

NPT  Cajon (Metal Seal Style)  
 Other: \_\_\_\_\_  
 Port Specification: \_\_\_\_\_ Port Size: \_\_\_\_\_



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**Special Testing or Requirements:**

- NR007
- NR008
  
- NR036
  
- NR020
- NR035
  
- NR023
- NR024
- NR025
- Other

LEAK TEST AND CERTIFICATION 1X10<sup>-7</sup> SCC/SEC HELIUM.  
RAW MATERIAL CERTIFICATION. STATING MATERIAL TYPE ON ALL WETTED SURFACES.  
STATIC PRESSURE TEST AND CERTIFICATION OF PRESSURE (1.5X MAX OPERATION PRESSURE) WITH AIR FOR 30 MINUTES PER UNIT.  
VISUAL AND DIMENSIONAL INSPECTION REPORT PER PUMP DRAWING.  
LEAK TEST, VACUUM TEST, AND RUN-IN CERTIFICATION. (RUN-IN NOT APPLICABLE FOR PUMP MODELS MB-21 AND MB-41).  
MOTOR CURRENT TESTING CERTIFICATION, PER UNIT.  
SENIOR METAL BELLOWS STANDARD INSPECTION EVIDENCE.  
SENIOR METAL BELLOWS STANDARD CLEANING CERTIFICATION.

**Environmental or Qualification Requirements:**

**Special Quality Provisions:**

**Application Information and Comments:**