

# Metal Bellows



**IBS Inc.**

## Pump/Compressor Design Data Sheet

International Business Div.  
 Minamishinmachi Excel Bldg.2F,  
 1-3-10, Minamishinmachi, Chuo-ku,  
 Osaka, Japan 540-0024  
 Phone: +81-6-6944-1313  
 Fax: +81-6-6944-1323  
 E-mail: [Info@ask-ibs.jp](mailto:Info@ask-ibs.jp)

Technical Contact: \_\_\_\_\_ Company: \_\_\_\_\_

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

<b>Envelope Drawing:</b> <b>Compressor Flow Rate:</b> <i>(Required)</i> <b>Compressor Pressure Requirements:</b> <ul style="list-style-type: none"> <li>• <b>Inlet Pressure</b> <i>(Required)</i></li> <li>• <b>Outlet Pressure</b> <i>(Required)</i></li> <li>• <b>Max. Startup Pressure, Inlet</b></li> <li>• <b>Max. Startup Pressure, Outlet</b></li> <li>• <b>Proof Pressure</b></li> <li>• <b>Burst Pressure</b></li> </ul>	_____ _____ <input type="checkbox"/> SCFM <input type="checkbox"/> ACFM <input type="checkbox"/> SLPM _____ _____ <input type="checkbox"/> PSIG <input type="checkbox"/> PSIA _____ <input type="checkbox"/> PSIG <input type="checkbox"/> PSIA _____ <input type="checkbox"/> PSIG <input type="checkbox"/> PSIA _____ <input type="checkbox"/> PSIG <input type="checkbox"/> PSIA _____ PSIG _____ PSIG
<b>Compressor Temperature Requirements:</b> <ul style="list-style-type: none"> <li>• <b>Max. Gas Temperature</b></li> <li>• <b>Ambient Temperature</b></li> </ul>	_____ <input type="checkbox"/> °F <input type="checkbox"/> °C _____ <input type="checkbox"/> °F <input type="checkbox"/> °C
<b>Compressor Media Information:</b> <ul style="list-style-type: none"> <li>• <b>Media Gas</b> <i>(Required)</i></li> <li>• <b>Gas Temperature</b></li> <li>• <b>Relative Humidity</b></li> </ul>	_____ _____ <input type="checkbox"/> °F <input type="checkbox"/> °C _____ %
<b>Compressor Electrical Requirements:</b> <i>(Required)</i> <ul style="list-style-type: none"> <li>• <b>A/C Voltage</b></li> <li>• <b>Frequency</b></li> <li>• <b>Phase</b>   ~ OR ~</li> <li>• <b>Dc Voltage</b></li> </ul>	<input type="checkbox"/> 115 <input type="checkbox"/> 208 <input type="checkbox"/> 230 <input type="checkbox"/> 380 <input type="checkbox"/> 460 <input type="checkbox"/> 575 <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz <input type="checkbox"/> 50/60 Hz <input type="checkbox"/> 400 Hz <input type="checkbox"/> Single <input type="checkbox"/> Three <input type="checkbox"/> 12 <input type="checkbox"/> 24 <input type="checkbox"/> 90 <input type="checkbox"/> 180
<b>Compressor Valve Gasket Material:</b>	<input type="checkbox"/> Teflon <input type="checkbox"/> Viton (Fluorocarbon) <input type="checkbox"/> Aluminum O-Ring <input type="checkbox"/> Other: _____
<b>Miscellaneous:</b> <ul style="list-style-type: none"> <li>• <b>Motor Enclosure</b></li> <li>• <b>Motor Speed</b></li> </ul>	<input type="checkbox"/> Open Dip Proof <input type="checkbox"/> TEFC <input type="checkbox"/> TENV <input type="checkbox"/> XP Group C,D,E F,G <input type="checkbox"/> 1750 Rpm <input type="checkbox"/> 3450 Rpm <input type="checkbox"/> Variable Speed
<b>Design:</b>	<input type="checkbox"/> Integral Mount (motor to pump) <input type="checkbox"/> Pedestal Mount <input type="checkbox"/> Pedestal Mount with a common base plate

# Metal Bellows



## Pump/Compressor Design Data Sheet

International Business Div.  
 Minamishinmachi Excel Bldg.2F,  
 1-3-10, Minamishinmachi, Chuo-ku,  
 Osaka, Japan 540-0024  
 Phone: +81-6-6944-1313  
 Fax: +81-6-6944-1323  
 E-mail: [Info@ask-ibs.jp](mailto:Info@ask-ibs.jp)

<b>Design:</b>	<input type="checkbox"/> Single Containment	<input type="checkbox"/> Double Containment
	<input type="checkbox"/> Series Plumbing	<input type="checkbox"/> Parallel Plumbing
<b>Inlet/Outlet Ports:</b>	<input type="checkbox"/> NPT <input type="checkbox"/> Cajon (Metal Seal Style)	<input type="checkbox"/> Tube <input type="checkbox"/> Weld Socket
	<input type="checkbox"/> Other: _____	
	Port Specification: _____ Port Size: _____	

<b>Special Testing or Requirements:</b>	<ul style="list-style-type: none"> <li>▪ <input type="checkbox"/> NR007</li> <li>▪ <input type="checkbox"/> NR008</li> <li>▪ <input type="checkbox"/> NR036</li> <li>▪ <input type="checkbox"/> NR020</li> <li>▪ <input type="checkbox"/> NR035</li> <li>▪ <input type="checkbox"/> NR023</li> <li>▪ <input type="checkbox"/> NR024</li> <li>▪ <input type="checkbox"/> NR025</li> <li>▪ <input type="checkbox"/> Other</li> </ul>	<p>LEAK TEST AND CERTIFICATION 1 X 10<sup>-7</sup> SCC/SEC HELIUM</p> <p>RAW MATERIAL CERTIFICATION. STATING MATERIAL TYPE ON ALL WETTED SURFACES.</p> <p>STATIC PRESSURE TEST AND CERTIFICATION OF PRESSURE (1.5X MAX. OPERATION PRESSURE) WITH AIR FOR 30 MINUTES PER UNIT</p> <p>VISUAL AND DIMENSIONAL INSPECTION REPORT PER PUMP DRAWING.</p> <p>PERFORMANCE TEST; RUNNING CERTIFICATION AT 60 HZ FOR MAX. AIR FLOW, MAX. VACUUM AND MAX. OPERATING PRESSURE, PER UNIT.</p> <p>MOTOR CURRENT TESTING CERITIFICATION, PER UNIT.</p> <p>STANDARD INSPECTION EVIDENCE.</p> <p>ES-1150 CLEANING CERTIFICATION.</p> <p>IBS SOURCE INSPECTION PRIOR TO SHIPMENT</p>
---	--	--

<b>Environmental or Qualification Requirements:</b>	_____
	_____
	_____

<b>Special Quality Provisions:</b>	_____
	_____
	_____

<b>Application Information:</b>	_____
	_____
	_____

<b>Senior Aerospace Metal Bellows and IBS Engineering Driven Section:</b>						<i>(To be completed by IBS Engineer)</i>
<input type="checkbox"/> MB-601	<input type="checkbox"/> MB-602	<input type="checkbox"/> MB-302	<input type="checkbox"/> MB-111	<input type="checkbox"/> MB-151	<input type="checkbox"/> MB-158	
<input type="checkbox"/> MB-118	<input type="checkbox"/> MB-41	<input type="checkbox"/> MB-21	<input type="checkbox"/> MB-601HT	<input type="checkbox"/> MB-302HT	<input type="checkbox"/> MB-158HT	
<input type="checkbox"/> MB-118HT	<input type="checkbox"/> MB-41HT	<input type="checkbox"/> MB-21HT	<input type="checkbox"/> MB-601DC	<input type="checkbox"/> MB-302DC	<input type="checkbox"/> MB-151DC	
<b>Final Compressor Description:</b> MB-_____ with _____ Valves _____ and _____ Fittings _____						