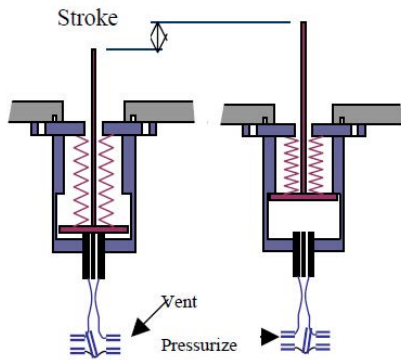


# PRIME MOVER™ ACTUATOR DESIGN DATA SHEET

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

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

<p><b>Process Environment Requirements:</b></p> <ul style="list-style-type: none"> <li>• Temperature           <ul style="list-style-type: none"> <li>o Min/Max Operating</li> <li>o Min/Max Non-Operating</li> </ul> </li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Min</th> <th style="text-align: left; border-bottom: 1px solid black;">Max</th> </tr> </thead> <tbody> <tr> <td>_____ °C</td> <td>_____ °C</td> </tr> <tr> <td>_____ °C</td> <td>_____ °C</td> </tr> </tbody> </table>	Min	Max	_____ °C	_____ °C	_____ °C	_____ °C	 <p>The diagram illustrates the actuator's operation. It shows two cross-sectional views of the bellows assembly. The left view shows the bellows in a retracted state with a spring. The right view shows the bellows extended. A double-headed arrow labeled 'Stroke' indicates the linear movement. Arrows at the bottom indicate 'Vent' (outward) and 'Pressurize' (inward) directions.</p>
Min	Max							
_____ °C	_____ °C							
_____ °C	_____ °C							
<p><b>Actuator Stroke Requirements:</b></p> <ul style="list-style-type: none"> <li>• Total Linear Motion</li> <li>• Down Position Pin Height</li> <li>• Actuation Time</li> <li>• Retraction Time</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>_____ mm ± _____ mm</td> </tr> <tr> <td>_____ mm ± _____ mm</td> </tr> <tr> <td>_____ seconds</td> </tr> <tr> <td>_____ seconds</td> </tr> </tbody> </table>	_____ mm ± _____ mm	_____ mm ± _____ mm	_____ seconds	_____ seconds			
_____ mm ± _____ mm								
_____ mm ± _____ mm								
_____ seconds								
_____ seconds								
<p><b>Actuator Envelope Dimensions:</b></p> <ul style="list-style-type: none"> <li>• Max Diameter</li> <li>• Max Length</li> <li>• Enveloped CAD Models Available?</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>_____ mm</td> </tr> <tr> <td>_____ mm</td> </tr> <tr> <td><input type="checkbox"/> NO <input type="checkbox"/> YES</td> </tr> </tbody> </table>	_____ mm	_____ mm	<input type="checkbox"/> NO <input type="checkbox"/> YES				
_____ mm								
_____ mm								
<input type="checkbox"/> NO <input type="checkbox"/> YES								
<p><b>Miscellaneous:</b></p> <ul style="list-style-type: none"> <li>• Min Lifting Force at Bottom of Stroke</li> <li>• Min Lifting Force at Top of Stroke</li> <li>• Life Requirement (Cycles)</li> <li>• RF Hot Environment (Y/N)</li> <li>• Minimum Available Air Pressure</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>_____ N</td> </tr> <tr> <td>_____ N</td> </tr> <tr> <td>_____ cycles</td> </tr> <tr> <td><input type="checkbox"/> NO <input type="checkbox"/> YES</td> </tr> <tr> <td>_____ bar</td> </tr> </tbody> </table>	_____ N	_____ N	_____ cycles	<input type="checkbox"/> NO <input type="checkbox"/> YES	_____ bar		
_____ N								
_____ N								
_____ cycles								
<input type="checkbox"/> NO <input type="checkbox"/> YES								
_____ bar								
<p><b>Preferred Materials:</b></p> <ul style="list-style-type: none"> <li>• Bellows (Exposed to vacuum)</li> <li>• Fittings (Exposed to vacuum)</li> <li>• Fittings (Not exposed to vacuum)</li> </ul>	<hr/> <hr/> <hr/>							
<p><b>Interface Requirements:</b></p> <ul style="list-style-type: none"> <li>• Mounting Flange Type</li> <li>• Air Fitting: Type and Size</li> </ul>	<hr/> <hr/>							
<p><b>Application Information</b></p> <ul style="list-style-type: none"> <li>• Process/Program</li> <li>• Prototype (Qty's, schedule)</li> <li>• Production (Qty's, schedule)</li> </ul>	<hr/> <hr/> <hr/>							