



## Hastelloy Bellows

### OVERVIEW

Hastelloy® is a special alloy with superior chemical compatibility. With the capability of manufacturing bellows from Hastelloy, applications with highly specialized and corrosive media can now benefit from bellows. Pharmaceutical, process and chemical equipment requiring high vacuum or positive pressure use edge welded bellows to ensure high accuracy and repeatable results.

Edge welded bellows offer high stroke capability in comparison to other bellows. This can reduce the size of the required bellows as well as the cost. Bellows made from Hastelloy can be designed as a mechanical seal, expansion joint, volume compensator, or actuator.

With the flexibility to customize, BellowsTech can manufacture and weld custom fittings, flanges, and weld rings to its bellows to make customer installations easy and seamless.

\*Hastelloy® is a registered trademark of Haynes International, Inc.



### TYPICAL INDUSTRIES

Process Equipment

Pharmaceutical Valves

Chemical Processing

### BENEFITS

Excellent Corrosion Resistance

High Temperature Capability

High Strength

### SPECIFICATIONS

<b>Material</b>	Alloy 276 (Hastelloy 276C); Haynes 242 also available
<b>Thickness</b>	0.003" and up every 0.001"
<b>Standard Leak Rate</b>	<1x10 <sup>-5</sup> std CC He/sec
<b>Size Ranges:</b>	
Outside Diameter	0.358" (9.0932mm) to 22.205" (564mm)*
Inside Diameter	0.198" (5.029mm) to 19.921" (505.99mm)*
<b>Shapes</b>	Round; Non-Round Avail. Contact factory
<b>Length</b>	Up to 96" (244 cm)

### Why Choose Edge Welded Bellows?

Of the three major metal bellows technologies, edge welded metal bellows have the highest stroke length, reaching 90% of its free length. This flexibility allows for increased expansion and contraction of the bellows. Edge welded bellows can be exposed to extreme temperatures and media with a wide selection of materials. Both the inside and outside of the bellows can be exposed liquids and gases. Edge welded metal bellows also have a high cycle life to produce repeatable results and round or square shapes.