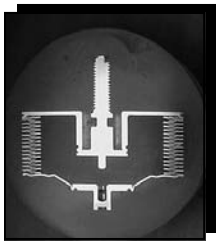


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EDGE-WELDED BELLOWS



MARKETS & APPLICATIONS

Duraflex™, Inc. EDGE-WELDED BELLOWS are used in a wide variety of applications and in virtually every market from Aerospace exploration to Zirconium processing. Some of the more popular markets and applications are shown below. Samples can be provided from each product type upon request.

INDUSTRIES & USERS

- AEROSPACE
- AGRICULTURE
- AUTOMOTIVE
- CHEMICAL
- COMMUNICATIONS
- CRYOGENIC
- DEEP WELL
- DISPENSING
- ELECTRICAL
- FOOD PRESERVATION
- GAS DELIVERY
- GOVERNMENT
- HVAC
- INDUSTRIAL
- INSTRUMENTATION
- MACHINE DESIGN
- MARINE / OCEANOGRAPHIC
- MEDICAL
- METAL REFINING
- MILITARY
- NATIONAL LABORATORY
- OPTICAL
- PETROCHEMICAL
- PHARMACEUTICAL
- PAPER
- PROCESS
- RESEARCH and DEVELOPMENT
- SEMICONDUCTOR
- ULTRA HIGH VACUUM
- UNIVERSITY RESEARCH
- VACUUM
- VALVE

PRODUCT NAMES & TYPES

- ACCUMULATORS
- ADAPTORS
- ANEROIDS
- ACTUATORS
- BEAM LINE COMPONENTS
- BELLOWS
- COMPENSATORS:
 - Volume
 - Motion
 - Pressure
- CONNECTORS
- COUPLERS
- CONTROLLERS
- EXPANSION JOINTS
- FEEDTHROUGHS
- MANIPULATORS
- MECHANICAL FACE SEALS
- MEDIA CONVEYANCE ASSEMBLIES
- METERING DEVICES
- ORIENTING DEVICES
- PRESSURE VESSELS
- PUMPS
- RESERVOIRS
- ROBOTIC INTERFACES
- SEALS
- SENSORS
- SHIELDS
- SHOCK ABSORBERS
- SWITCHES
- VIBRATION DAMPNERS
- WAFER LIFTERS
- WATER HAMMER ARRESTORS
- WOBBLE STICK



CAPABILITIES

QUALITY

Our quality is measured in our ability to meet our customers' requirements;
from design to in - service performance!

LEAD TIMES

Our lead times for tooling, prototypes and bellows are the shortest and most reliable

TESTING

- Nesting configuration check of individual diaphragms.
- Metallurgical cross-sections of welds during Production.
- Helium mass spectrometer leak testing of sub-assemblies.
- Helium mass spectrometer leak testing of final assembly to customer specification.

MATERIALS

- | | |
|--------------------|-----------------|
| ■ Stainless Steels | ■ Inconel |
| ○ T- 347 | ○ 625 / 625 LCF |
| ○ T-304 (L) | ○ 600 |
| ○ T- 316 (L) | ○ 718 |
| ○ T-321 (L) | ○ X-750 |
- Titanium: Grades 1 - 4, ASTM B-265
 - AM 350
 - Haynes: 242 / 230
 - Monel: 400
 - Hastelloy: C-276
 - Diaphragm Thickness starts at .001"

SERVICES

- Design & Engineering
- Prototyping
- Bellows Production
- Flange / Fitting Production
- Assembly – Welding or Joining
- Leak Testing
- Performance Testing
- Specialized Cleaning
- Specialized Packaging

DESIGN

Duraflex™ , Inc. specializes in the most demanding and difficult edge-welded bellows applications.

We feel we have the best engineering personnel in the edge-welded bellows industry which enables us to perform all of the necessary design and engineering required for both bellows and assemblies.

TOOLING

The tooling we use is uniquely different than what's produced or purchased by other edge-welded bellows companies.

Duraflex™ , Inc. tooling is designed to produce a PROPRIETARY bellows diaphragm configuration that establishes the highest level of repeatability in production and in use – resulting in consistent and precise spring rates and reliable loads at lengths.

TOOL SIZES & TYPES

Duraflex™ , Inc. has a wide range of tool sizes and types for each application and market listed.

We are able to produce round, oval or complex configuration bellows to fit each unique application. Tooling can be designed to produce both single or multi-ply bellows.

We always try to minimize our customers' investment by utilizing existing diaphragm and bellows tooling . Most of the time we are able to maintain the same end fittings or flanges, but adjust to a pre-existing tool size.

Current ID bellows tooling ranges from .1/8" to 26", with both short and wide span OD's.

SPECIALIZE / FOCUS

Duraflex, Inc.™ produces all of our edge-welded bellows, including the tooling, in one facility - separate from our other product lines. This is our most precise and technical product and we feel the focus should be on just this product alone.

Duraflex, Inc.™ specializes in mechanical face seals. We do not believe any other edge-welded bellows company has our ability to produce a comparable high cycle life, precise, and highly repeatable - mechanical face seal.

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