

## MATCH SERIES™ | BELLOWS & TUBING

Our Duraflex Match Series™ | Bellows & Tubing are engineered to expand or reduce to an exact match up or sized to dimensionally to meet required flange or end connections. As a perk of working with Duraflex, we offer this benefit at No Additional Charge to our valued customers!



### MATCH

**It's FREE!**

Just use Promo Code **MATCH** when ordering & provide matching dimensions!\*

- USAGE**
- Avoids Dimensional Mismatches
    - Reduces to Eliminates Leaks
    - Reduces to Eliminates Corrosion Pockets
    - Eliminates Flow Restrictions
  - Promotes Precision Alignment
  - Increases Strength
  - Improves Weld Penetration
  - Adds HAZ Protection (heat protected zones)
  - Enhanced Cosmetics

- COMPLIANCE**
- Industry Codes*
- AWS
  - ABS
  - USCG
  - NAVSEA
  - ISO / AS9100C

**\*It's EASY & FREE to accomplish!**

Simply mention Promo Code "**MATCH**" with your P.O. & state the matching dimensions required.

- SERVICES**
- Drawings
  - Engineering Design
  - Prototyping
  - Laser Marking
  - 3D Printing
  - FEA / CFD
  - Vibration Testing
  - Cycle Testing

- APPLICATIONS**
- Commercial
  - Engines
  - Generators
  - Heat Barriers
  - Heat Sources
  - Industrial
  - Motors
  - Piping
  - Refrigeration
  - Safety Covers

- INDUSTRIES**
- Aerospace
  - Agriculture
  - Marine
  - Military
  - Off Highway
  - Performance Vehicles
  - Power Distribution
  - Process / Machinery

## ADVANTAGES

- No Onsite Prep Required
- All Components "Ready to Weld"
- No dimensional mismatch
- Ease of Use
- Cost Competitive...always!
- Engineered Design...*2D & 3D Models*
- No Minimums
- Professional Appearance
- Short Lead Times
- American Made



# MATCH SERIES™ | BELLOWS & TUBING

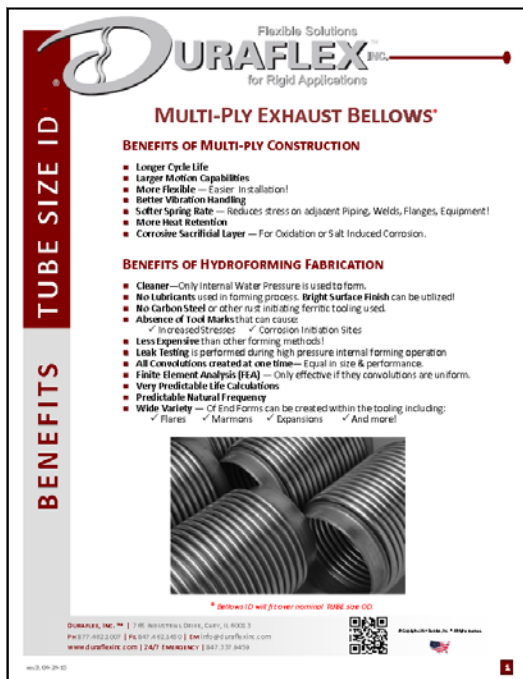
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## PRODUCTS AVAILABLE

Duraflex, Inc. can provide Pipe & Tubing “matched” for the required end configurations. Just **CLICK** to link & download our **Bellows Pipe or Tubing Brochures** for more product information.



Standard Multi-Ply Exhaust Bellows - Tube Size



**Flexible Solutions DURAFLEX INC. for Rigid Applications**

### MULTI-PLY EXHAUST BELLOWS\*

**BENEFITS OF MULTI-PLY CONSTRUCTION**

- Longer Cycle Life
- Larger Motion Capabilities
- More Flexible — Easier Installation!
- Better Vibration Handling
- Softer Spring Rate — Reduces stress on adjacent Piping, Welds, Flanges, Equipment!
- More Heat Retention
- Corrosive Sacrificial Layer — For Oxidation or Salt Induced Corrosion.

**BENEFITS OF HYDROFORMING FABRICATION**

- Cleaner—Only Internal Water Pressure is used to form.
- No Lubricants used in forming process. **Bright Surface Finish** can be utilized!
- No Carbon Steel or other rust inhibiting ferritic tooling used.
- Absence of Tool Marks that can cause:
  - Increased Stresses
  - Corrosion Initiation Sites
- Less Expensive than other forming methods!
- Leak Testing is performed during high pressure internal forming operation
- All Conditions created at one time—Equal in size & performance.
- Finite Element Analysis (FEA) — Only effective if they convolutions are uniform.
- Very Predictable Life Calculations
- Predictable Natural Frequency
- Wide Variety — Of End Forms can be created within the tooling including:
  - Flares
  - Marmans
  - Expansions
  - And more!

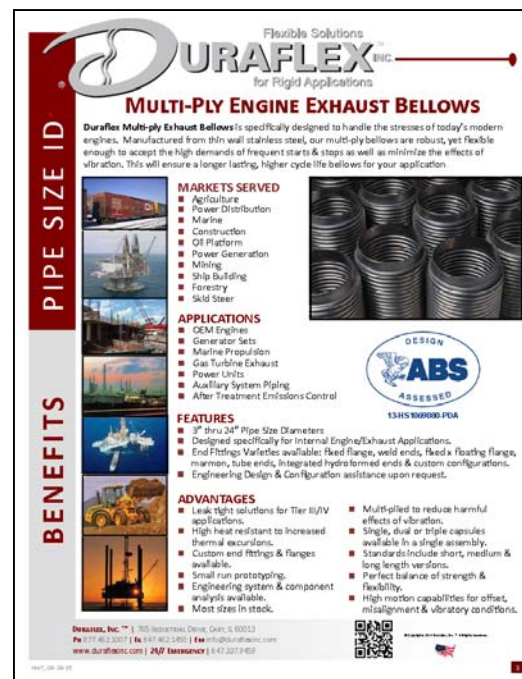
**TUBE SIZE ID**

**BENEFITS**

\* Bellows ID will cover nominal 1/8" (3.18 mm) OD

DURAFLEX, INC.™ | 765 INDUSTRIAL DRIVE, CARY, IL 60013  
PH 877.462.1007 | 847.337.9459 | info@duraflexinc.com  
www.duraflexinc.com | 24/7 EMERGENCY | 847.337.9459

Standard Multi-Ply Exhaust Bellows - Pipe Size



**Flexible Solutions DURAFLEX INC. for Rigid Applications**

### MULTI-PLY ENGINE EXHAUST BELLOWS

Duraflex Multi-Ply Exhaust Bellows is specifically designed to handle the stresses of today's modern engines. Manufactured from thin wall stainless steel, our multi-ply bellows are robust, yet flexible enough to accept the high demands of frequent starts & stops as well as minimize the effects of vibration. This will ensure a longer lasting, higher cycle life bellows for your application.

**MARKETS SERVED**

- Agriculture
- Power Distribution
- Marine
- Construction
- Power Generation
- Mining
- Ship Building
- Forestry
- Skid Steer

**APPLICATIONS**

- OEM Engines
- Generator Sets
- Marine Propulsion
- Gas Turbine Exhaust
- Power Units
- Auxiliary System Piping
- After Treatment Emissions Control

**DESIGN ABS ASSESSED 134HS 000008-FOA**

**FEATURES**

- 3" thru 24" Pipe Size Diameters
- Designed specifically for Internal Engine/Exhaust Applications.
- End Fittings: Varities available: Flared Flange, weld ends, Flared x Flanging Flange, marmans, tube ends, integrated hydroformed ends & custom configurations.
- Engineering Design & Configuration assistance upon request.

**ADVANTAGES**

- Leak tight solutions for Tier II/IV applications.
- High heat resistant to increased thermal excursions.
- Custom end fittings & flanges available.
- Small run prototyping.
- Engineering system & component analysis available.
- Most sizes in stock.
- Multipled to reduce harmful effects of vibration.
- Single, dual or triple capsules available in a single assembly.
- Standards include short, medium & long length versions.
- Perfect balance of strength & flexibility.
- High motion capabilities for offset, misalignment & vibratory conditions.

**PIPE SIZE ID**

**BENEFITS**

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