A World of Difference...

IN CRITICAL PIPING CONNECTIONS

LISTED
UL
Tri-Flex Loop® for compressed and combustible gases 31NB

CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

FM
APPROVED
For Fire Protection Systems

NSF/ANSI 61, California low lead law and NSF/ANSI 372 third party listed by IAPMO R&T
Traditions Will Never Mean Limits.

We understand that no customer’s requirements are exactly the same. That our audience is targeted to engineers/designers and construction contractors whose responsibilities are to oversee costs and quality in the physical realm of installation of piping systems to existing and newly constructed buildings.

That's why Flex-Hose Co. pays so much attention to the details of your experience. Our employees will greet you in such a way that says we truly care and appreciate the opportunity to meet your performance expectation. Flex-Hose Co. personnel have the technical training and ability to provide solutions to the most demanding application. Our support also extends through specific job analysis services which recommends placement of product location in a piping system, perfectly integrating them into the overall theme of your project, saving you both time and money. This is the result of staying true to what is essentially right.

Anything Worth Doing is Worth Doing Right.

It’s not very hard to understand that people are influenced by innovation, long-term reliability, ease of installation, and extreme cost savings. It’s a no-brainer. This essence is built into the very fabric of our business and products since 1968.

Flex-Hose sets the standards for innovation and engineering brilliance with the Tri-Flex Loop®, quite literally the envy of the industry. Our renowned products are backed by the best warranties in the business that other manufacturers find easier to talk about than to duplicate.

Flex-Hose UL listed and labeled products are tested, listed, labeled and regularly inspected by Underwriters Laboratories to ensure they meet or exceed industry performance standards. Our products have also been inspected and tested by the Technical Standards & Safety Authority of Canada, and hold a CSA Standard B51 Certificate to meet the high quality standards of the Canadian market.

So enjoy years of service with our flexible piping connections. Flex-Hose Co. products give you that choice. Don’t compromise.

Phil Argersinger, President/Owner
Form Follows Function.

Many believe that all braided pump connectors are the same, until you go to pick up the Pumpsaver®. The Pumpsaver is manufactured with closed pitch hose making it an extraordinarily flexible connection. That construction saves valuable time on equipment installation, making it easy when it comes to equipment alignment.

Safety and performance has always been the heart of our product’s design. That is why Pumpsaver’s unique manufacturing process creates a smooth transition at the first convolution to the flange vs. the industry norm – a raw, jagged sharp edge.

PUMPSAVERS design and manufacturing utilizes state-of-the-art welding technology. Flex-Hose Co. has welders certified to ASME Section IX. Quality and safety is our passion at Flex-Hose Co. That is why we 100% pressure test every Pumpsaver connector to assure trouble-free installation and years of quality service and back our product with the industry’s only 3 year product replacement warranty.

Standard Sizes 1/2” to 24” I.D.
Other sizes and custom sizes available.
Please consult factory.

Flex-Hose Co.’s PUMPSAVER® connectors are metal flexible connectors available in stainless steel or bronze. They are used to prevent damage to pumps caused by piping stress. PUMPSAVER connectors also absorb vibration and noise found in pump installations. PUMPSAVER connectors are easily installed and reduce the possibility of pump failure.

They are designed to be pressure tested 15 times their maximum rated working pressure and manufactured with a 4:1 safety factor. Their compact design saves valuable space.

Working pressure of standard hose and braid up to 1325PSI or full vacuum and operating temperatures of 40°F to +150°F.

PUMPSAVERS are manufactured with 321 stainless steel or bronze annular corrugated close pitch metal flexible hose. Other stainless steel and corrosion-resistant alloys are available.

PUMPSAVERS are available with flanged ends, steel male NPT ends, grooved ends, weld ends, or copper tube female sweat ends and may include multiple braids for higher working pressures.

CSA standard B51 certified.
Inspected and tested by the Technical Standards and Safety Authority of Canada.

Why Metal Hose?

Flex Hose Co. industrial metal hoses can be supplied up to 24” in diameter. Major applications include absorbing vibration, compensating for misalignment, and accommodating offset motion.

Our metal hose assemblies are widely used in mechanical and process piping systems for conveying high pressure and/or high temperature media as well as corrosive and non-corrosive media including gas.

If it can be welded… …we can build it, attach it or incorporate it into your industrial metal hose assembly. So don’t limit our ability to meet your requirements by what you see or don’t see in our published catalog.

Flex-Hose Co. personnel have the technical training and ability to provide solutions to the most demanding applications. Our support also extends through specific job analysis which recommends product placement within a piping system, perfectly integrating them into the overall theme of your project – saving you both time and money!

Available Alloys:
• 316 Stainless Steel • 321 Stainless Steel
• Bronze • Hastelloy® • Inconel® • Monel®

Industrial Metal Hose Selection Guide

Stainless Steel Hose and Braid

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Bronze Hose and Braid

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FLEX-HOSE 3-YEAR REPLACEMENT WARRANTY

NSF/ANSI 61, California low lead law and NSF/ANSI 372 third party listed by AMPEX B&I

ASME Section IX

ASME Section IX

www.flexhose.com • 1-877-tri-flex
The PurgAir Advantage – An Air Free System.

PURGAIR inline air separator saves valuable space and the internal diverter design is a cost-effective means for separation of air in a hydronic system. The PurgAir are fitted with air vent tapping and drain connection tapping. Purgairs rugged construction makes it suitable for pipe line mounting. Standard pressure ratings of 150 psi. Available with 150 lb. plate steel flanges, butt weld ends and groove ends. We 100% pressure test every PurgAir to assure trouble-free installation and years of quality service.

Standard Sizes 3” to 24” I.D.

Benefits
• Air-free water flow means enhanced systems operations and reduced costs
• Internal diverter effectively separates air from heating and cooling systems. The result: better performance and lower operating costs
• Permits quick venting of air at start-up
• Reduces service costs due to air-bound piping
• Extends the life of your system by reducing corrosion & erosion
• Improves heat transfer efficiency in boilers, fan coils, chillers, etc.
• Reduces the overall energy costs of your system
• Optimize pump performance

Applications
PurgAir Separators should be installed at the highest temperature and the lowest pressure points in the system. When this is not possible, the best location is at the point of highest temperature. Ideally, a separator should be located on the outlet side of the boiler, and the suction side of the pump.
**StopLink**

Simplifies any Rubber Connector or Expansion Joint Installation!

- Easy to install - factory designed and assembled with no loose parts or field adjustments. Simply bolt to mating flanges.
- Fraction of the weight of conventional control rod assemblies reducing shipping costs.
- Dampening properties of cable prevent transmission of vibration and noise from rotational equipment or media flow.
- No future maintenance required.

**Flexzorber**

Simply Like No Other.

There is an epic story to be told. Steel, rubber... bring them together to form the simple curves of the Flexzorber, simply like no other.

So don’t be fooled by others who may try to justify premium prices with fancy specs. That’s why mere words should never suffice. We put the industry’s first and only 2 year full replacement warranty and proudly mark each one with the Flexzorber brand signifying durability and reliability.

So unleash your profits and insist on Flexzorber style rubber connectors and expansions joints, the cost-effective solution to reducing thermal pipe growth and stress.

Flexzorber expansion joints are precision molded under high pressure to ensure product integrity. Flexzorber’s spherical arch design is ideal for solving motion problems in a piping system because the forces to deflect or move the joint are inherently low since the shape allows pressure to be exerted uniformly in all directions.

The ease of movement exhibited by Flexzorber joints provides an excellent choice for use with plastic piping systems. The molded spherical flowing arch is referred to as self-cleaning and is thus suited for slurries or applications with potential sediment build up or turbulence. The cord reinforcement is bonded within the elastomer to avoid exposure to atmosphere or media. The elastomeric cover provides excellent resistance to oils, sunlight, ozone, and heat aging. Flexzorber spherical connectors are manufactured with a neoprene or EPDM which provides resistance to a wide variety of media including glycol applications.

Flexzorber spherical expansion joints have ANSI class 150 lb. steel floating flanges or female unions that are zinc-coated for corrosion protection and also allows simple installation. The Flexzorber flange face eliminates the need for a gasket.

Other styles, sizes and elastomers available. Please consult factory.

**Flexzorber**

- **Single Sphere Flanged**
  - Standard Sizes: 1\(\frac{1}{2}\)” to 20” I.D.

- **Double Sphere Flanged**
  - Standard Sizes: 2” to 12” I.D.

**StopLink**

- **Control Assembly**
  - Typical StopLink Control Assembly Installed with Flex-Hose Co. Inc.’s Flexzorber Rubber Expansion Joint

** CSA standard B51 certified.**

**Inspected and tested by the Technical Standards and Safety Authority of Canada.**

**Large Inventory for Immediate Shipment!**

www.flexhose.com • 1-877-tri-flex
Tri-Flex Loop

The Tri-Flex Loop design is the superior flexible pipe loop that absorbs and compensates movement in six degrees of freedom; three coordinate axis plus rotation about those axes simultaneously.

- Simplifies piping design and reduces system installation costs by eliminating mechanical pipe loops, expansion joints, pipe alignment guides and reducing anchors loads by 90%
- The multiplane movement design can reduce expansion devices in a piping system by up to 50%
- It is the safest and most reliable means of absorbing movement resulting from thermal changes and random seismic shift in a piping system
- Common applications for the Tri-Flex Loop include compressed and combustible gases, steam, condenser water, hot water, domestic hot water and chilled water

Standard Sizes

3⁄8” to 24” I.D.

Available in stainless steel and bronze.

Flanged, threaded, grooved, weld ends and copper sweat or press fit fittings available.

Also available in U and V shape loops. Please consult factory.
Expansion Joints

We can custom build expansion joints to fit your application or refurbish your current ones!

Custom Designed Expansion Joints

Flex-Hose Co.’s custom designed expansion joints can solve difficult performance problems which are not adaptable to standard designs. Field experience since 1968 has provided Flex-Hose Inc. personnel with the necessary expertise to incorporate design materials improving your overall performance and reliability.

Flex-Hose expansion joints are engineered and manufactured for a broad range of requirements. They have been used in some of the most demanding applications worldwide. They are capable of isolating critical mechanical equipment from a piping or duct work system, thermal growth, dampen vibration and reduce noise.

Let us assist you on your next custom expansion joint. We look forward to meeting your performance expectations.

UltraJoint
Safe & Cost Effective

Flex-Hose’s patented UltraJoint Expansion Joint Simplifies any Metal Bellows Expansion Joint Project

- Economical - eliminates 2 pipe guides for every expansion joint
- Easy to install & insulate
- Reduces over-travel, eliminates the potential of conventional pipe guide spider jump outside of shroud
- Shroud assembly provides safety element - encapsulated expansion joint eliminates media spray under extreme conditions

Standard Sizes
2" to 24" I.D.
Other alloys, styles, sizes and higher working pressures available. Please consult factory.

www.flexhose.com • 1-877-METAL EJ

CSA standard B-51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

Optional Multi-Ply Bellows
Multi-ply bellows provides flexibility and endurance. The reduced thickness of the individual bellows plies results in lower bending stresses due to axial motion increasing the life of the bellows.
A WORLD OF DIFFERENCE IN CRITICAL PIPING CONNECTIONS™

**Flexcomp™ Expansion Compensators**

**FLEXCOMP** expansion compensator’s compact design saves valuable space. It is a perfect way to absorb up to 2” of axial movement resulting from thermal growth in a domestic hot water, heating hot water, and chilled water piping system.

Flexcomp’s externally pressurized, rugged construction fully encases the stainless steel bellows with an external cover, assuring safety and reliability. Standard pressure ratings up to 200 psi. Flexcomps are available standard with female copper tube ends and steel male NPT ends.

**Standard Sizes**

- ¾” to 4” I.D.

**2 Year Product Replacement Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

**Flexpress™ Externally Pressurized Guided Expansion Joints**

FLEXPRESS externally pressurized guided expansion joint provides a reliable means of absorbing high axial motions up to 16”. Flexpress offers a totally enclosed, externally pressurized stainless steel bellows that is protected from external damage by an external cover. The rugged construction of the external cover is also designed for the working pressure. The Flexpress carbon steel pipe integral liner is designed to prevent bellows impingement or fatigue due to flow induced vibration. Standard pressure ratings up to 300 PSI. Available with flanged or beveled weld end fittings. Flexpress has a short face-to-face dimension for compact installations. It is ideal in applications for vibration control and noise reduction as well as strain relief, misalignment, and less than .5” movement of thermal growth.

**Sizes**

- 2” to 24” I.D.

**5 Year Product Replacement Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

**Bellowsflex™ Metal Bellows Expansion Joints**

BELLOWSFLEX metal bellows type expansion joints are designed for a wide range of service conditions. The standard bellows element is manufactured with 321 stainless steel. Other stainless steel or heat resistant alloys are available. Standard pressure ratings up to 300 PSI. Available with flanged or beveled weld end fittings. Bellowsflex can also be supplied with accessories such as tie rods, flow liners, and protective external covers/shrouds.

**Standard Sizes**

- 2” to 60” I.D.

**2 Year Product Replacement Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

**Pumpflex™ Bellows Pump Connectors/Expansion Joints**

PUMPFLEX bellows pump connector features a 304 series stainless steel bellows construction. Pumpflex has a short face-to-face dimension for compact installations. It is ideal in applications for vibration control and noise reduction as well as strain relief, misalignment, and less than .5” movement of thermal growth. Pumpflex features tie rod restraints to prevent elongation, and compression sleeves to prevent over compression. Standard pressure ratings of 225 PSI. Available with 150 lb. flat face flanges. Additional alloys and styles available. Please consult factory.

**Sizes**

- 2” to 24” I.D.

**Standard Sizes**

- 2” to 48” I.D.

**2 Year Product Replacement Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

**High Performance Expansion Joints with Corrosion Resistant Coating**

HIGH PERFORMANCE Expansion Joints with corrosion resistant, thick film, protective coatings and safety metal bellows are made with ETFE - Ethylene Tetrafluoroethylene™ and are the answer to high temperature corrosive attack. They are FDA conforming and suitable for food contact applications. Their relative chemical inertness make them ideal for applications where maintaining product purity is critical. They are available in a wide variety of ranges – abrasion resistance or corrosion resistant, thick film, protective coatings and safety metal bellows.

**Sizes**

- 2” to 60” I.D.

**Standard Sizes**

- 4” to 48” I.D.

**Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

**BellowsXhaust™ Exhaust Type Expansion Joints**

BELLOWSHAUST expansion joints are designed to absorb pipe expansion, reduce noise, and dampen vibration. They are ideal for low pressure (50 psi) and high temperature (1200°F) applications. The assembly weights have been reduced to permit use in thin wall flue duct systems. Most common applications are exhaust connections on diesel, gasoline or gas turbine engine installations, and ducting conveying corrosive gases. To simplify selection, standard designs have been developed with a 321 stainless steel bellows element. BellowsXhaust are available with flanged ends, weld ends and optional vanstone flanges with axial travel up to 3.5 inches.

**Sizes**

- 2” to 60” I.D.

**Standard Sizes**

- 2” to 48” I.D.

**Warranty Exceeds Industry Standards**

- CSA standard B51 certified. Inspected and tested by the Technical Standards and Safety Authority of Canada.

- Large Inventory for Immediate Shipment!
Visit our website for more information on our broad range of products.