

# PRODUCT CARD

We offer superior customer service, competitive pricing, and lead times that exceed expectations. Since 1977, we remain the leading global manufacturer that provides standard and custom fabricated solutions to a diverse customer base.

- Custom and OEM fabricated products
- 40,000 square foot manufacturing facility
- In-house cleaning service for industrial gases
- Average production of 12,000 assemblies per month
- Extensive inventory of raw materials and stock products
- All products fabricated at our facility are 100% leak tested
- Knowledgeable and responsive customer service and sales team
- Third party verifications UL Classified, UL Listed, and CRN approved

## MANUFACTURING AND QUALITY CONTROL

By request, TCH can offer adherence to ASME B31.3 manufacturing specifications

ASME certified welders

MTR and Testing certificates

Manufacturing and quality control in accordance with ASME B31.3

MANUFACTURING IN ACCORDANCE WITH

# ASME B31.3

## PUMP CONNECTORS AND REDUCING METAL HOSE ASSEMBLIES



**In-Stock, Ready to Ship!**

**Sizes:** ¼" I.D. through 24" I.D.

**End Fittings:** Weld, Sweat, Flange, Groove, and Male NPT

**Material:** Stainless Steel Hose and Braid, or Bronze Hose and Braid

\* Custom sizes available

**BUY**   
**AMERICAN**  
**ACT COMPLIANT**

## SEISMIC V AND U CONNECTORS

**Sizes:** Standard ½" I.D. through 18" I.D.

**End Fittings:** Weld, Flange, Groove, Sweat, Male NPT

**Material:** Stainless Steel Hose and Braid, or Bronze Hose and Braid

\* Custom sizes and fittings available



Ports and hangers available



## RUBBER EXPANSION JOINTS

**Sizes:** ¾" I.D. through 30" I.D.

**Common Elastomers Include:**

Neoprene, EPDM, Nitrile and Chlorobutyl

- Temperatures 20°F to 250°F
- Molded and Spool Type

\* Custom sizes and materials available



## METAL EXPANSION JOINTS

**Sizes:** 2" I.D. through 36" I.D.

**End Fittings:** Weld, Floating Flanges, Specialty and Custom Flanges available

**Material:** 304, 321, and 316 Stainless Steel  
Liners and Covers are available

\* Custom sizes and materials available



# PRODUCT CARD

## INDUSTRIAL

### SOLUTIONS FOR:

- Seismic Movement
- Vibration Isolation
- High Temperature
- Corrosive Media
- Thermal Growth
- High Pressure

\* Custom sizes available



TCH has a complete line of standard and custom fabricated industrial products, which are designed to meet our customer's needs.



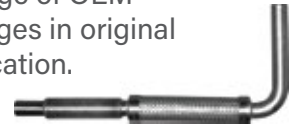
### TCH OFFERS A VARIETY OF HOSES:

- Steam Jacketed & Traced Hose
- Dry Bulk Conveying Hose
- Cryogenic and LPG Hose
- Unloading Hose
- Interlock Hose
- PTFE Hose



## OEM

We fabricate high quality flexible metal hose and expansion joint solutions for a wide range of OEM industries. Our team of experienced welders and representatives understand the challenges in original equipment manufacturing and our custom solutions are designed for your specific application.



## LPG / NH3

LPG assemblies are constructed of stainless steel corrugated metal hose and are double braided.

**Sizes:** 1/4" I.D. through 3" I.D.

### End Fittings:

3000# forged steel female NPT union  
Extra heavy seamless male NPT fitting



\* Shrink wrap cover available



**Each LPG assembly is tagged as:**

- LPG & NH3
- 350 WPSI 1750 BPSI
- Date of MFG

## CRYOGENIC / CNG / LNG / PTFE HOSE

**Sizes:** 1/4" I.D. through 4" I.D.

- All stainless steel construction
- Custom assemblies are available
- Full or partial armor guard is available
- A variety of end fittings are available to fit your application needs



In-house O2 Clean Room



**Sizes:** 1/4" I.D. through 2" I.D.

**End Fittings:** Male Pipe, Female JIC, SS Flange Retaining Insert

**Material:** PTFE Inner-Core Smooth Bore or Convolute with Stainless Steel Braid



## CUSTOM FABRICATION

TCH specializes in servicing customers who need custom fabricated products for their complicated projects. Fabricated support skids, manifolds, flexible metal hose and expansion joints are just a sampling of the types of products that we can build.

- Product cleaning is available
- Large inventory of materials
- Fabrications and welding completed at TCH
- All custom parts and products are 100% leak tested



## POWER GENERATION PRODUCTS

We can fabricate standard or custom exhaust assemblies. We also supply exhaust components for all major Gen-Set Manufacturers and re-packagers around the world.

- Exhaust Manifolds
- Coolant Connectors
- Exhaust Connectors
- Exhaust Accessories
- Custom Tube Extensions
- Bulk Exhaust Hose and Flanges
- Exhaust Bellow and Expansion Joints



\* Custom sizes available



# PRODUCT CARD

## AIR COMPRESSOR CONNECTORS

**Sizes:** ½" I.D. through 3" I.D.  
**End Fittings:** Carbon Steel Male NPT, Hex Male NPT, Female Union, 150# Flange  
**Material:** Stainless Steel Hose and Braid  
 \* Custom sizes available



## METAL HEAT PUMP HOSE

**Sizes:** ½" I.D. through 2" I.D.  
**End Fittings:** Male NPT, Female Union, Hex Male NPT, Female JIC  
**Material:** Stainless Steel Hose and Braid with Carbon Steel or Stainless Steel End Fittings



## EXPANSION COMPENSATORS

**Sizes:** ¾" I.D. through 4" I.D.  
**End Fittings:** Groove, Weld, Male NPT, Flange, Sweat  
**Movement:** 1 ¾" Compression and ¼" Extension  
**Material:** Multi-ply Series 300 Stainless Steel Bellows Carbon Steel Shroud



## EXTERNALLY PRESSURIZED EXPANSION JOINTS

**Sizes:** 2" I.D. through 24" I.D.  
**End Fittings:** Groove, Weld, Flange  
**Movement:** 4" Compression and ¾" Extension (short) or 8" Compression and 1 ½" Extension (long)  
**Material:** Multi-ply T-304 Stainless Steel Bellows Carbon Steel Shroud  
 \* Dual and custom movements available



**Available Design Pressures:** 150# and 300#

## PIPE GUIDES / MULTI-PLY BELLOW PUMP CONNECTORS

**Sizes:** ½" I.D. through 24" I.D.  
**Movement:** Axial movement 4", 8" and 12"  
**Material:** Constructed of Carbon Steel and Coated with Shop Primer Protection  
**Types:** Spider, Insulated, PTFE Slide, Baseboard



**Sizes:** 2" I.D. through 16" I.D.  
**End Fittings:** 150# Carbon Steel Flanges  
**Material:** Constructed with Series 300 Stainless Steel Multi-Ply Bellows



## ACCESSORY ADAPTERS / PTFE EXPANSION JOINTS

**Sizes:** 2 ½" I.D. through 12" I.D.  
**End Fittings:** Flange, Male NPT, Weld, and Groove  
**Material:** Carbon Steel and Stainless Steel Straight and Reducing  
 \* Custom sizes and configurations available



**Sizes:** 1" I.D. through 12" I.D.  
**Styles:** 2, 3, and 5 Convolutions  
**Material:** Molded PTFE



# APPROVALS AND CERTIFICATIONS

## UL CLASSIFIED LEAD-FREE FLEX™

**Sizes:** ½" I.D. through 12" I.D.

**End Fittings:** Weld, Sweat, Flange, Groove, and Male NPT available in Carbon Steel, Stainless Steel and Copper

**Material:** Stainless Steel Hose and Braid, or Bronze Hose and Braid



**Movement Available:**  
2", 3", 4", and 6"



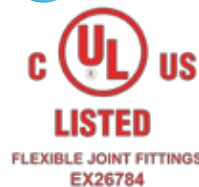
## UL LISTED FIRE SAFEFLEX™ CONNECTORS

**Seismic V and U Loop Sizes:**

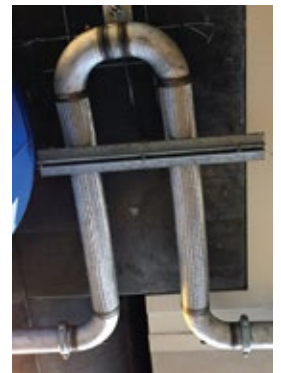
½" I.D. through 4" I.D. with Male NPT Fittings  
2" through 10" with Grooved or RFSO Flange Fittings

**Movement:** Up to 24" of Motion

**Material:** Stainless Steel Hose and Braid, Carbon Steel or Stainless Steel End Fittings



Ports and hangers available



## CRN (CANADA) PRODUCTS

**Sizes:** ¼" I.D. through 12" I.D.

**Movement:** Up to 10" of movement for V and U flex connectors

**End Fittings:** Weld, Sweat, RFSO Flange, and Male NPT

**OAL:** Straight assemblies any overall length

**Material:** Bronze Hose and Braid with Copper End Fittings or Stainless Steel Hose and Braid with Carbon Steel End Fittings



**CRN Approved for:**

Manitoba, Ontario, Alberta, British Columbia, Québec and Saskatchewan.

