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YOUR SOURCE FOR PIPE FITTINGS & CUSTOM SOLUTIONS

FLANGES

Wide variety of standards:
ANSI, ASTM, AWWA, BS, DIN and JIS

A broad range of types, sizes, materials (100% Domestic, Buy America & Imported), and accessories, like gaskets and flange adapters.



CUSTOM SOLUTIONS

A diverse selection of custom parts and assemblies manufactured and stocked for OEM Manufacturers in the Agriculture, Exhaust, HVAC & Water Works markets.

ADDITIONAL PRODUCTS



FITTINGS & ACCESSORIES

Large inventory of grooved fittings (KLAMPz), threaded couplings, pipe nipples, elbows, pump motor brackets, rain caps and weld cones.



PUMP CONNECTORS

Flanged and threaded pump connectors.



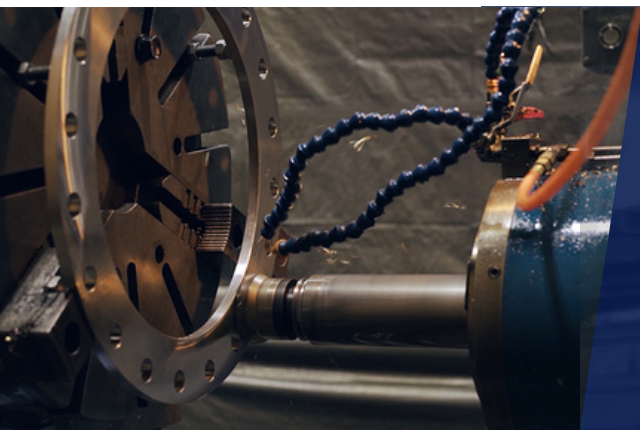
EXPANSION JOINTS

Multiple sizes of flanged and union expansion joints, along with accessories like control units and split retaining rings.



VALVES

Variety of gear and lever operated butterfly valves, and check valves, including accessories like valve extensions.



MACHINING & MANUFACTURING

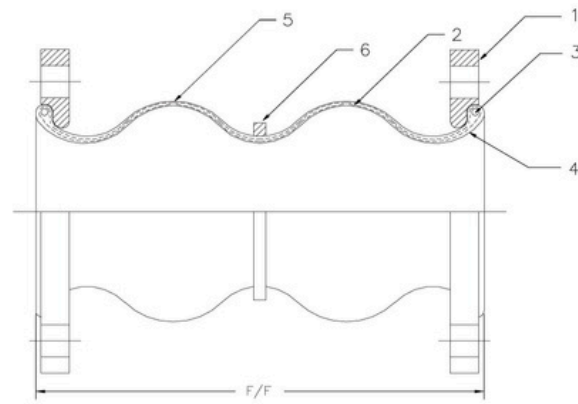
- Experience with a wide variety of products, sizes, materials and specifications utilizing Buy America, AIS or Import materials.
- Short lead times that allow you to get products to customers when they need them.
- Support fast turn modifications to stock items.
- Quality control technicians verify that all products meet customer requirements.

EXPANSION JOINTS

Suitable for suction and delivery applications, Twin-Sphere Molded Rubber Expansion Joints reduce noise and vibrations. These molded rubber expansion joints can absorb motion and reduce stress. They come with ANSI Class #150 drilled flanges and can be customized with ANSI Class #300 and DIN-rated flanges.

FEATURES

- Applicable for suction and delivery (discharge).
- Provides sound and vibration isolation.
- Gaskets and packing are not required. Floating flanges allow for easy installation.
- Prevents piping system and equipment breakdown by absorbing elongation and contraction caused by temperature variances.
- Absorbs water pulsation and minimizes water hammering.
- DIN drilled flanges available upon request (See DIN Flange section for dimensions).
- Working pressure ratings based on 4:1 safety margin (at 70°F).



API Part Number	Size	Face to Face Dimension	Allowable Motion Ratings**				Installation Tolerances			
			Compression	Elongation	Lateral	Angular	Compression	Elongation	Lateral	Angular
(S)AJT0100*	1	5.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0125*	1.25	7.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0150*	1.5	7.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0200*	2	7.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0250	2.5	7.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0300	3	7.00	2.00	1.00	1.75	35°	0.25	0.13	0.31	10°
(S)AJT0400	4	9.00	2.00	1.38	1.56	35°	0.25	0.13	0.31	10°
(S)AJT0500	5	9.00	2.00	1.38	1.56	30°	0.25	0.13	0.38	10°
(S)AJT0600	6	9.00	2.38	1.38	1.56	30°	0.25	0.13	0.38	10°
(S)AJT0800	8	13.00	2.38	1.50	1.38	30°	0.25	0.13	0.50	10°
(S)AJT1000	10	13.00	2.38	1.50	1.38	30°	0.25	0.13	0.50	10°
(S)AJT1200	12	13.00	2.38	1.50	1.38	20°	0.25	0.13	0.50	10°
(S)AJT1400	14	13.75	2.38	1.50	1.13	20°	0.25	0.13	0.31	10°
(S)AJT1600	16	13.75	2.38	1.50	1.13	20°	0.25	0.13	0.31	10°
(S)AJT1800	18	13.75	2.38	1.50	1.13	20°	0.25	0.13	0.31	10°
(S)AJT2000	20	13.75	2.38	1.50	1.13	20°	0.25	0.13	0.31	10°
(S)AJT2400	24	13.75	2.38	1.50	1.13	20°	0.25	0.13	0.31	10°

Warning: Do not elongate rubber expansion joints when installing for suction service. **-. Sizes ≤ 2" do not have root rings. ***-. Non Concurrent Ratings.

APPLICATIONS

- Pumps & air compressors in air conditioning system & sanitary equipment.
- Refrigeration systems and blowers in industrial plant equipment.
- Feed-water and drainage equipment in marine piping systems.
- Applicable for use in Power Generation, Chemical Plants, & Marine applications

OPERATING CONDITIONS

Size Range	1" - 12"	14" - 24"
Operating Pressure	225 psi (up to 160°F)	150 psi (up to 160°F)
Burst Pressure	900 psi (at 70°F)	600 psi (at 70°F)
Vacuum Rating	26 in/hg	15 in/hg
Operating Temp Range	14°F - 180°F (Neoprene) 14°F - 210°F (EPDM) 14°F - 180°F (Buna-N/Nitrile/NBR)	

PART NUMBER STRUCTURE

Part Number Selection	Options
Type	AJT = Twin Sphere (Steel) SAJT = Twin Sphere (Stainless Steel)
Size	XXXX = Size in inches going out 2 decimal places
Body Material	NE = Neoprene EP = EPDM BN = Buna-N/Nitrile/NBR
Flange Material	TL=Zinc Plated Steel 304L=304L Stainless Steel 316L=316L Stainless Steel
Class	150=150# Drilling / 300=300# Drilling / PXX=DIN PN16 Drilling
Example	AJT0200-NE-STL-150 = Twin Sphere Expansion Joint with Neoprene Body and Steel Flanges with 150# Drill Pattern

MATERIALS

Part	Part Description	Material
1	Flanges	Mild Steel - Plated or Stainless Steel
2	Reinforcing Wire	Mild Steel
3	Tube	Synthetic Rubber
4	Cover	Synthetic Rubber
5	Reinforcing Cord	Nylon

Notes:

- A. Pressure ratings listed in the above table are for temperatures up to 160°F. For temperature service above 160°F, please contact API Sales for actual working pressure ratings.
- B. Limit rods are required in systems that are unanchored and recommended in all other applications.
- C. Not for use in steam applications

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.