



**MANUFACTURERS OF ALL KINDS OF EXPNSION JOINT &
FLEXIBLE HOSES, ASSEMBLIES & FITTINGS**

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Company Profile

Innovating the trends of designing **Industrial Hoses, Fittings & Joints**, we, **SRS Flex Industries**, laid the foundation stone of our Company in **2013**. Since then, owing to our client-centric approach, we have emerged as an **ISO 9001:2015 certified exporter**, manufacturer and supplier of a wide range including **Industrial Rubber Hoses, High Pressure Rubber Hose, Hydraulic High Pressure Rubber Hose, Rubber Expansion Joint / Metallic Expansion Joint, PTFE Hose, Hammer Union, Quick Release Coupling (QRC), Hydraulic Fittings and more**. Accepting the challenge of our esteemed patrons to deliver them product quality that surpasses their expectations, we make use of highest grade raw materials like rubber, metals, alloys and others. Additionally, we have installed Cutting-edge technologies in our high-tech machinery, tools and equipment that enable us to deliver precision engineered, durable and defect-free products that are widely suitable to adapt applications in sectors like automotive, gas, petrochemical, electricity and more. Understanding the exact requirements of our customers, we design and implement your needs into perfect solutions at pocket-friendly rates. Further, these are packed using tough materials that ensure flawless transits and our wide network of distribution enables timely deliveries within stipulated time frames.

Our Products

We are manufacturing and supplying a wide range of Industrial Hoses, Joints and Fittings which are enlisted below:

Hose

- Hydraulic High Pressure Rubber Hose
- Industrial Rubber Hoses
- SS Corrugated Flexible Hose
- Automotive Exhaust Flex Connectors
- PTFE Hose
- Composite Hose For Oil & Chemical Transfer

Expansion Joints

- Metallic Expansion Joint
- Rubber Expansion Joint
- Non-Metallic Expansion Joint

Fittings

- Hydraulic Fittings
- Hydraulic Flange
- Camlock Coupler
- Quick Release Coupling (QRC)
- Hammer Union
- Pipe Fitting

Quality Assurance

Being amongst the ISO 9001:2015 certified companies, our prime motto is to deliver only premium quality range of products to client destination. Hence, we strictly adhere to a set of quality management principles and ensure that all the manufacturing processes are Stringently monitored. Our entire range of products Conforms to international quality standards, which help us in growing our business activities. Further, our team of quality inspectors use advance testing facilities to examine the quality of our products right from the initial stage of procurement of raw material until the final stage of production. Their close check to entire process helps us in rectifying any defect left in the products. Also, our range is tested on the basis of well-defined parameters, such as

Operating Conditions

Suitability for use in electricity, gas, automotive and other sectors

Durability and wear & tear resistance

Free from defects & maintenance

Infrastructural Facility

We have setup a sprawling infrastructural base which is manned with all the requisite tools, equipment and high tech machinery which is sourced from renowned market brands. These are upgraded as per modern advancements which enhance the productivity at our Company. All these are used by our expert engineers, technicians and other skilled professionals who ensure streamlined processes for timely dispatch of bulk and urgent consignments.

Quality products

Large infrastructure

Lesser price

Lenient behavior with clients

Quick delivery

Our Vision

To build and consolidate its leadership position thorough successful collaboration, market intelligence and thorough Research and Development.

Certificate of Registration



Authorised Dealer of :



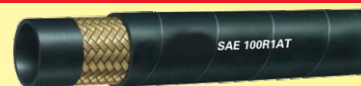
Other Brand Hoses Dealing



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HYDRAULIC HOSE SAE - 100 R1AT 1SN



ID		ID		OD		Max WP		Min BP		Min Bend Radius	
Mm	Inch	Dash	DN	MM	Inch	Mpa	PSI	Mpa	PSI	MM	Inch
4.8	3/16	-03	05	11.8	0.46	25	3630	100	14520	90	3.6
6.4	1/4	-04	06	13.4	0.53	22.5	3270	90	13080	100	4
7.9	5/16	-05	08	15.0	0.59	21.5	3120	86	12480	115	4.6
9.5	3/8	-06	10	17.4	0.69	18	2610	72	10440	130	5.2
12.7	1/2	-08	12	20.6	0.81	16	2320	64	9280	180	7.2
15.9	5/8	-10	16	23.7	0.93	13	1890	52	7560	200	8
19.0	3/4	-12	20	27.7	1.09	10.5	1530	42	6120	240	9.6
25.4	1	-16	25	36.6	1.40	8.8	1280	35.2	2120	300	12
31.8	1 1/4	-20	32	43.5	1.71	6.3	920	25.2	3680	420	16.8
38.1	1 1/2	-24	38	50.6	1.99	5	730	20	2920	500	20
50.8	2	-23	51	64.0	2.52	4	580	16	2320	630	25.2
63.5	2 1/2	-40	63	79.0	3.11	5	730	20	2920	760	30
76.2	3	-48	76	92.00	3.62	3.5	500	14	2000	900	35

Tube : Oil Resistant Synthetic rubber

Reinforcement : One high tensile steel wire braid

Cove : Abrasion, ozone and hydrocarbon resistant synthetic rubber

Application : High pressure hydraulic lines, fuel oil, antifreeze solution, air and water

Temperature Rang :

-40°C to + 100°C

Intermittent up to 121°C

HYDRAULIC HOSE SAE - 100 R2AT 2SN



ID		ID		OD		Max WP		Min BP		Min Bend Radius	
Mm	Inch	Dash	DN	MM	Inch	Mpa	PSI	Mpa	PSI	MM	Inch
4.8	3/16	-03	05	13.4	0.53	41.5	6000	168	24000	90	3.6
6.4	1/4	-04	06	15.0	0.59	40	5800	160	23200	100	4
7.9	5/16	-05	08	16.7	0.66	35	5000	140	20000	115	4.6
9.5	3/8	-06	10	19.1	0.75	33	4800	132	19200	130	5.2
12.7	1/2	-08	12	22.2	0.87	28	4000	112	16000	180	7.2
15.9	5/8	-10	16	25.4	1.00	25	3120	100	14520	200	8
19.0	3/4	-12	20	29.3	1.15	21.5	3630	86	12480	240	9.6
25.4	1	-16	25	38.1	1.50	16.5	2400	66	9600	300	12
31.8	1 1/4	-20	32	48.3	1.90	12.5	1820	50	7280	420	16.8
38.1	1 1/2	-24	38	54.6	2.15	9	1310	36	5240	500	20
50.8	2	-23	51	67.4	2.65	8	1160	32	4640	630	25.2

Tube : Oil Resistant Synthetic rubber

Reinforcement : Two high tensile steel wire braid

Cove : Abrasion, ozone and hydrocarbon resistant synthetic rubber

Application : High pressure hydraulic lines, fuel oil, antifreeze solution, air and water

Temperature Rang :

-40°C to + 100°C

High Pressure Hydraulic Hose 4SP



ID		ID		OD		Max WP		Min BP		Min Bend Radius	
Mm	Inch	Dash	DN	MM	Inch	Mpa	PSI	Mpa	PSI	MM	Inch
6.4	1/4	-04	06	17.9	0.70	45	6,550	180	26,200	150	6
9.5	1/4	-08	12	21.4	0.84	44.5	6,450	178	25,800	180	7.2
12.7	1/2	-08	12	24.6	0.97	41.5	6,000	166	24,000	230	9.2
15.9	5/8	-10	16	28.2	1.11	35	5,000	140	20,000	250	10
19.0	3/4	-12	20	32.2	1.27	35	5,000	140	20,000	300	12

Tube : Oil Resistant Synthetic rubber

Reinforcement : Four high tensile steel wire braid

Cove : Abrasion, ozone and hydrocarbon resistant synthetic rubber

Application : Very High pressure hydraulic lines, fuel oil, antifreeze solution, air and water

Temperature Rang :

-40°C to 100°C

Intermittent up to 121°C

Hydraulic Hose 4SH



ID		ID		OD		Max WP		Min BP		Min Bend Radius	
Mm	Inch	Dash	DN	MM	Inch	Mpa	PSI	Mpa	PSI	MM	Inch
19.0	3/4	-12	20	32.2	1.27	42	6,000	168	24,000	280	11.2
25.4	1	-16	25	38.7	1.52	38	5,500	152	22,000	340	13.6
31.8	1 1/4	-20	32	45.5	1.79	32.5	4,700	130	18,800	460	18.4
38.1	1 1/2	-24	38	53.5	2.11	29	4,200	116	16,800	560	22.4
50.8	2	-32	50	68.1	2.68	25	3,650	100	14,600	700	28

Tube : Oil Resistant Synthetic rubber

Reinforcement : Four high tensile steel wire braid

Cove : Abrasion, ozone and hydrocarbon resistant synthetic rubber

Application : Very High pressure hydraulic lines, fuel oil, antifreeze solution, air and water

Temperature Rang :

-40°C to + 100°C

Intermittent up to 121°C

TEFLON HOSE PLAIN



PTRF (TEFLON) HOSE (GPT) SMOOTH BORE - MEDIUM PRESSURE PTFE HOSE CONSTRUCTION:

Smooth innercore of extruded white teflon with stainless steel wire braid reinforcement.

Temperature : -65°F to 450° (-54°C to 232°C) for continuous service.

-100°F to 500°F (-73°C to 260°C) for intermittent service.

I.D. Inches	I.D. mm	O.D. mm	Operating Pressure PSI At Room Temp	Minimum Bend Radius
3/16	4.76	5.9	3000	50.8
1/4	6.35	7.9	3000	50.8
5/16	7.93	9.5	3000	76.2
3/8	9.52	11.3	2500	101.6
1/2	12.70	13.9	2000	132.1
5/8	15.87	16.5	1500	165.2
3/4	19.05	19.8	1200	195.6
1	25.04	26.2	1000	228.6

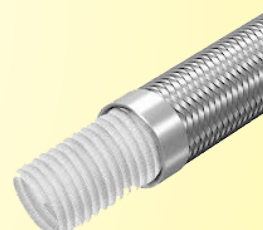
Advantages of Teflon For Flexible Hose

Teflon is ideal material for flexible hose, to which a wire over-braid is added for excellent pressure ratings. Such hose gives extremely long life because its inner core has outstanding resistance to steam, chemicals, solvent, heat, pressure impulses, flexing, vibration, and age.

Flexible : Hose of Teflon will stand up under severe conditions of continuous flexing.

Chemical and vibration without failure from flex fatigue, inert Teflon creates a resistant : nearly "Universal" hose, capable of handling the broadest range of applications. Except the molten alkali metals such as sodium and potassium, and flora chemicals such as chlorine trifluoride, oxygen deflowered and fluorine gas.

Temperature Resistant : Even handles 350° F Steam alternating with cold water//



TEFLON HOSE CORRUGATED

PTFE (TEFLON) CORRUGATED TRANSFER HOSE (GTC)

CONSTRUCTION :

Inner core of corrugated Teflon, externally reinforced with stainless steel wire braid.

Temperature : 65°F to 400°F (-54°C to 204°C)

I.D. Inches	I.D. mm	O.D. mm	Operating Pressure PSI At Room Temp	Minimum Bend Radius
1/2	12.7	20.0	1000	25.4
3/4	19.5	27.7	1000	50.8
1	25.4	33.0	1000	76.2
1 1/4	31.7	39.6	1000	158.8
1 1/2	38.1	45.5	750	190.5
2	50.8	59.2	500	266.7
3	76.2	93.5	250	393.7
4	101.6	123.2	150	622.3

APPLICATION :

Corrugated transfer hose, is the most broadly applied a general-purpose workhorse found in hundreds of chemicals transfer and food handling situations. Its present locations are as diverse as water purification systems, mercury transfer lines, and food processing equipment - delivering better to mixing kettles or sausage and other processed meats to packaging machines.

Nitrile food 150 Suction & Discharge Hose



Recommended for the food transfer application that demands both flexibility and ruggedness with a clean white FDA grade tube. The food grade nitrile tube is odorless and tasteless for those oily transfer applications.

Construction

Tube : FDA white nitrile e Reinforcement : Multiple plies of polyester tire cord with helix wire

• Cover : Grey PVC Nitrile | Temperature Range : -40°F to +210°F • Not for steam service

I.D.	O.D.	Piles	WP psi	MBR
3/4	1.25	2	150	4
1	1.50	2	150	5
1 1/2	2.00	2	150	6
2	2.50	2	150	7
3	3.52	2	150	9
4	4.52	2	150	12

Chemical Suction & Discharge Hose



A lightweight flexible chemical transfer hose designed for almost every common industrial chemical used in industry today. Nonstaining UHMW tube.

Construction:

- Tube: Clear Ultra High Molecular weight polyethylene.
- Reinforcement Multiple plies of high tensile textile with dual helix
- Cover: Green abrasion resistant green EPDM (Available in blue, yellow black and grey, white)
- Temperature Range: up to -40 F to +250 F.
- Consult chemical resistant chart.
- Not for steam service.
- Can be open end steam cleaned

I.D.	O.D.	Piles	WP psi	MBR	WP psi
3/4	1.19	2	3.5	29"	200
1	1.47	2	4	29"	200
1 1/4	1.80	2	4.5	29"	200
1 1/2	2.08	2	5	29"	200
2	2.58	2	8	29"	200
2 1/2	3.03	2	0	29"	200
3	3.61	2	16	29"	200
4	4.61	2	24	29"	200

Application : A very versatile hose used in processing plants, tank cars and storage


Construction Tube : Clear cross linked polyethylene.

Reinforcement : Polyester tire cord with wire helix.

Cover : Green EPDM rubber.

Temperature : Range : up to 180° F. Consult chemical resistant char.

Lengths : 100 ft.



ID	OD	MBR(in)	Plies	WOP psi	WT LBS/FT
3/4	1.18	8	2	150	0.50
1	1.43	8	2	150	0.62
1 1/4	1.65	10	2	150	0.77
1 1/2	1.94	12	2	150	0.9
2	2.48	15	2	150	1.16
2-1/2	3.03	18	2	150	1.41
3	3.53	24	2	150	1.81

S.S. Flexible Corrugated Hoses

■ Type A (annular) flexible hoses are made by corrugating thin-walled stainless steel pipes. They are high-quality flexible hoses exposed to complete solution heat treatment. The corrugations are formed like individual rings which are not twisted under high pressure.

■ The hoses are highly flexible and have excellent strength, corrosion resistance and pressure resistance.

■ Standard specifications

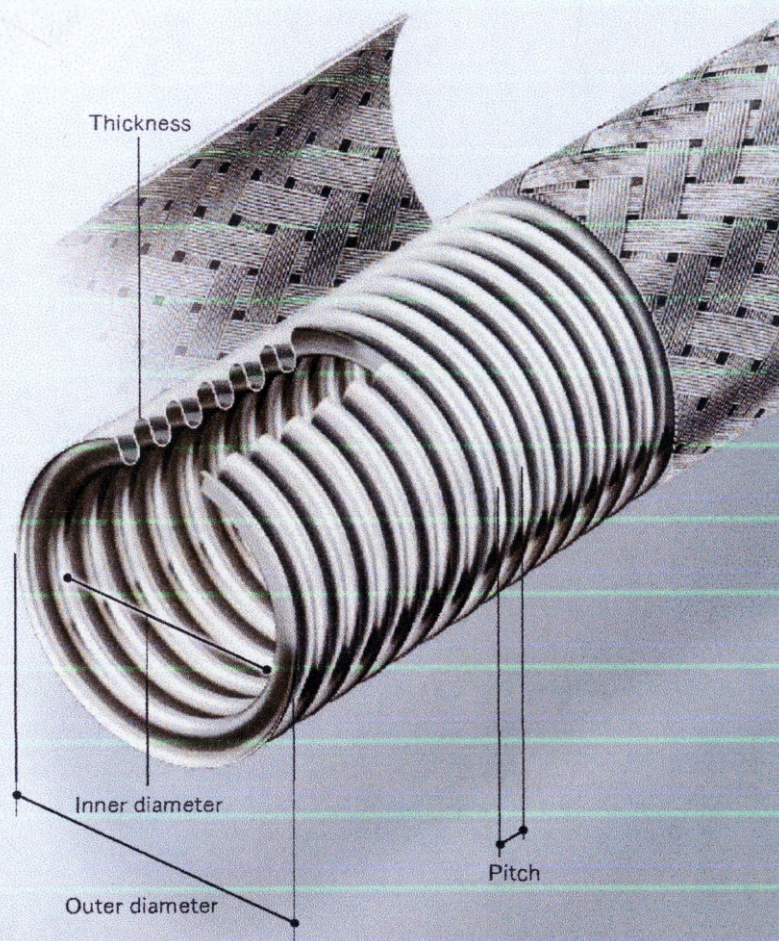
Flexible hose materials
SUS304, SUS316L

Braid material
SUS304

Wire braid: 250 A (10⁸) or less

Tape braid: 50 A (2⁸) or more

※For other materials, please consult us.



■ Standard dimensions

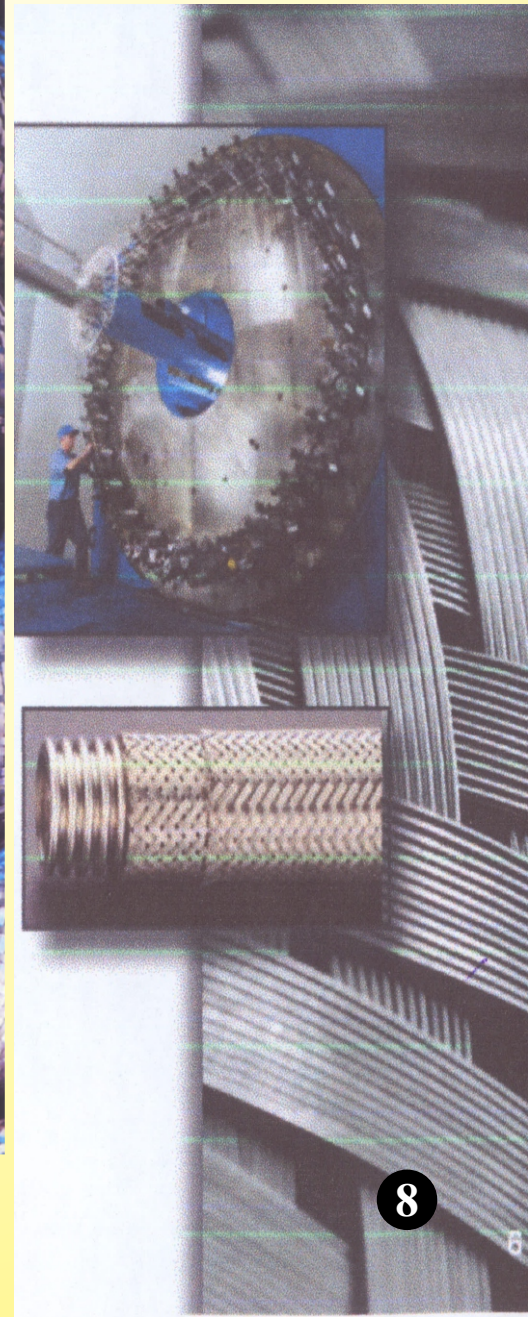
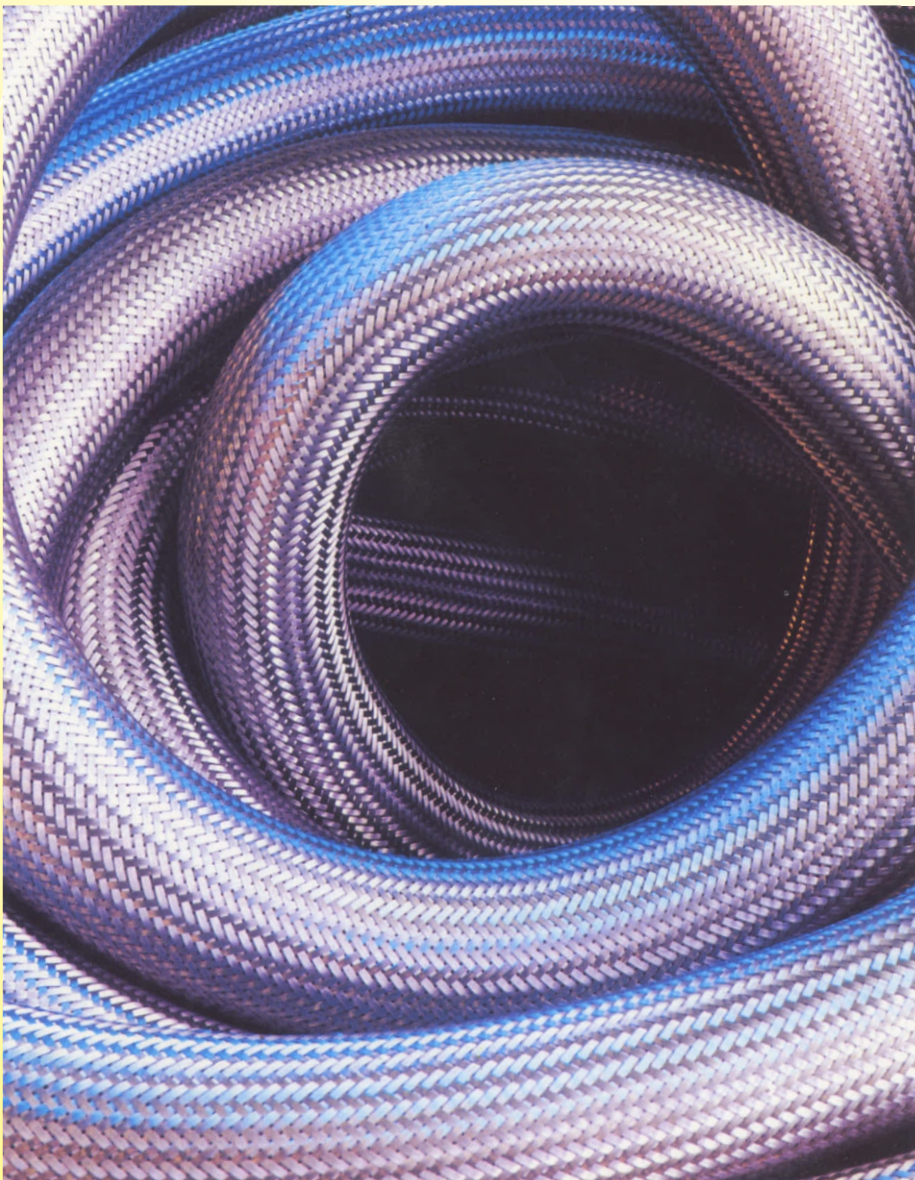
Nominal diameter		Inner diameter (mm)	Thickness (mm)	Pitch (mm)	Outer diameter (mm)		Min. bending radius (mm)		Max. working pressure (MPa)		Weight(kg/m)	
A	B				No braid	Single braid	Constant bending	Repeated bending	Single braid	Double braid	No braid	Single braid
8	1/4	7.2	0.26	2.5	12.2	13.5	45	165	9.4	14.9	0.15	0.27
10	3/8	10.0	0.26	3.0	16.0	17.5	50	180	7.4	13.0	0.21	0.36
15	1/2	12.0	0.26	3.3	17.5	19.0	65	245	6.6	13.0	0.21	0.38
20	3/4	19.0	0.30	4.2	26.0	27.5	95	335	3.7	7.4	0.36	0.61
25	1	25.5	0.30	4.5	34.0	35.5	100	340	2.6	5.2	0.53	0.84
32	1-1/4	32.0	0.35	5.0	42.0	44.0	130	405	3.1	6.0	0.80	1.33
40	1-1/2	39.0	0.35	5.5	49.0	51.0	200	505	2.8	4.5	0.88	1.48
50	2	50.0	0.40	6.0	62.0	64.0	240	580	2.0	3.6	1.38	2.18
65	2-1/2	65.0	0.60	10.0	86.0	88.0	320	665	2.0	3.5	2.93	3.95
80	3	77.0	1.00	10.5	104.0	107.0	400	920	1.8	2.6	6.79	8.12
100	4	100.0	1.00	15.0	135.0	137.5	450	980	1.4	1.5	8.25	10.3
125	5	126.0	1.20	15.0	162.0	164.5	520	1400	1.2	2.0	13.0	14.6
150	6	150.0	1.20	18.0	190.0	192.5	540	1550	1.0	1.6	13.8	16.7
200	8	197.0	1.50	18.0	247.0	250.0	720	1800	0.9	1.6	26.9	31.0
250	10	245.0	2.00	22.5	305.0	308.0	960	2500	0.6	1.2	42.6	48.6
300	12	294.0	2.00	30.0	364.0	368.0	1000	2750	0.6	1.3	46.1	54.0

Braiding Process

To give corrugated hose the ability to withstand pressure, stainless steel wire is braided over the hose. Hoses may be single braided (one layer of braid) or double braided (two layers of braid) to achieve even greater working pressures. Braided braid is used on large-diameter hose.

Designing the proper braid for each type of corrugated hose requires sophisticated engineering to maintain the proper balance between the braid strength and the hose's flexibility. Hose Master's braid packages offer several advantages:

1. **High Percentage Braid Coverage** - Hose Master flexible hose has the highest percentage of braid coverage, yielding better cycle life and protection against damage to the hose.
2. **Machine Braided Hose** - Hose Master weaves the braid directly onto the hose, ensuring that the braid fits tightly against the hose, preventing potential hose deformation or squirm. Machine braided hose also offers repeatable performance and longer cycle life.



METAL HOSE Fitting And Assembly

MALE NIPPLE (MN)

Size	"A"	"B"
1/4	1-1/2	2
3/8	1-1/2	2
1/2	1-1/2	2
3/4	1-1/2	2
1	2	2-1/2
1-1/4	2	2-1/2
1-1/2	2	2-1/2
2	2-1/2	3-1/2
2-1/2	3	4
3	3	4
4	3	4

WELD NIPPLE (W)

Size	"A"	"B"
3/4	2-1/2	3
1	2-1/2	3
1-1/4	2-1/2	3
1-1/2	3	4
2	3	4
2-1/2	3	4
3	4	5
4	4	5
5	4	5
6	6	7
8	6	7

HEX MALE (HM)

Size	"A"	"B"
1/4	1	1-1/2
3/8	1	1-1/2
1/2	1	1-1/2
3/4	1-1/4	1-3/4
1	1-1/2	2
1-1/4	2	2-1/2
1-1/2	2-1/4	2-3/4

FEMALE COUPLING (C)

Size	"A"	"B"
1/4	11/16	1-1/16
3/8	3/4	1-1/8
1/2	3/4	1-1/8
3/4	3/4	1-1/8
1	1	1-3/4
1-1/4	1	1-3/4
1-1/2	1	1-3/4
2	1-1/4	2
2-1/2	1-7/16	2-7/16
3	1-5/8	2-5/8
4	1-7/8	2-7/8

MALE UNION (MU)

Size	"A"	"B"
1/4	2-1/4	2-5/8
3/8	2-1/2	3
1/2	2-3/4	3-1/4
3/4	3-1/8	3-7/8
1	3-3/8	4-3/8
1-1/4	3-3/4	4-3/4
1-1/2	4	5-1/4

FEMALE UNION (FU)

Size	"A"	"B"
1/4	1-7/16	2-1/16
3/8	1-5/8	2-1/8
1/2	1-13/16	2-3/16
3/4	2	2-1/2
1	3-3/16	3-3/16
1-1/4	3-7/16	3-7/16
1-1/2	3-5/8	3-5/8
2	4	4
2-1/2	4-1/4	4-1/4
3	4-1/2	4-1/2

FIXED FLANGE (F)

Size	"A"	"B"
1	2	2-5/8
1-1/4	2	2-3/4
1-1/2	2	2-3/4
2	2-1/2	3-3/8
2-1/2	2-1/2	3-3/8
3	2-1/2	3-3/8
4	3	3-3/4
5	3	3-3/4
6	3-1/2	4-1/2
8	4	5

FLOATING FLANGE (V)

Size	"A"	"B"
1	2	2-5/8
1-1/4	2	2-3/4
1-1/2	2	2-3/4
2	2-1/2	3-1/2
2-1/2	2-1/2	3-1/2
3	2-1/2	3-1/2
4	3	3-3/4
5	3	3-3/4
6	3-1/2	4-1/2
8	4	5

The variety of fittings available for weld attachment to metal hose is nearly unlimited. If the required end fitting is not shown above, please specify what your system requires. Our standard fittings are carbon steel, but stainless steel is readily available. Simply add the prefix "S" to any of the designations for 304 stainless steel.

Refer to installation, precautions, use and technical pages

INSTALLATION, USE AND PRECAUTIONS

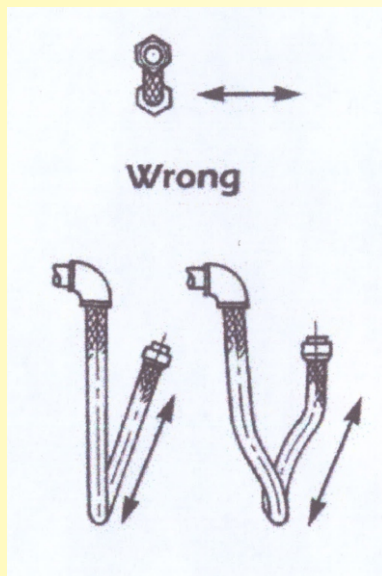
SRSFLEX® Matchless Metal Hose will render maximum service life when properly installed. The following precautions should be observed when installing flexible metal hose.

AVOID TORQUE

Torque or twisting is harmful to hose and substantially reduces service life. Installation torque can be avoided by using a floating flange or union at one end of an assembly in place of a rigid connection. Always install hose so that flexing takes place in one plane.

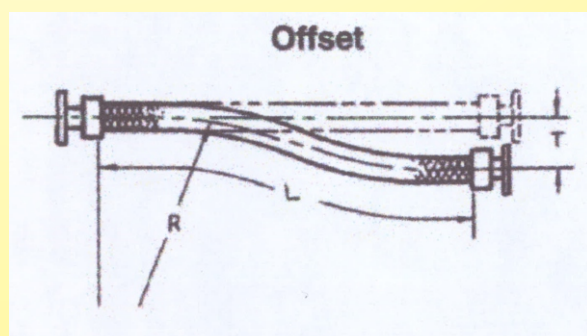
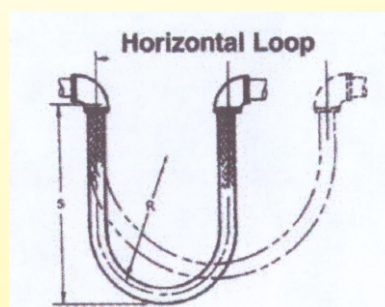
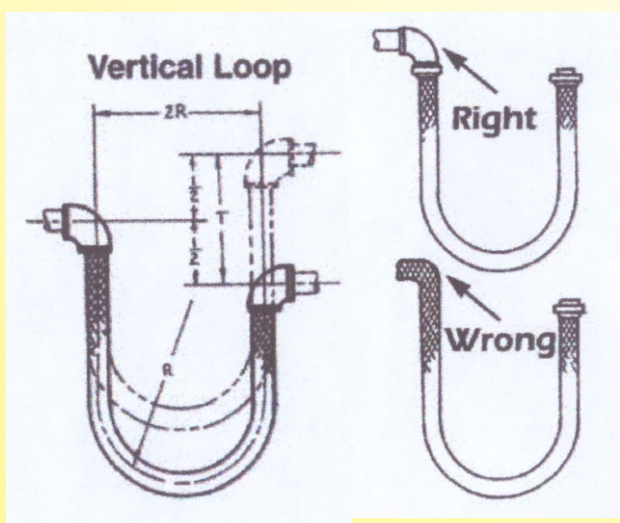
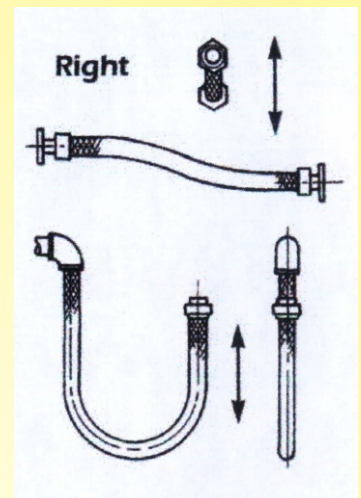
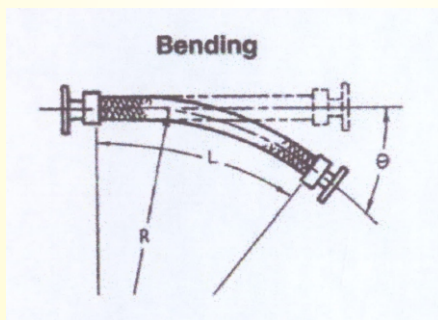
AVOID OVERBENDING

If metal hose is bent below the minimum recommended bend radius, fatigue and premature failure can result. This bending often occurs at end connections and can be avoided by installing an interlock guard or elbow.



AVOID IMPROPER HANDLING

Always lift hose-do not drag. Do not permit hose to be stored in an area where it is subject to spills, corrosive sprays, etc.



COMPOSITE HOSES



Petroleum Transfer Hose

Inner Wire	: Galvanized Steel (G),
Inner Liner	: Polypropylene fabric
Hose Wall	: Multiple layers of fabric/film/tubes
Cover	: Blue PVC-covered polyester
Outer Wire	: Galvanized Steel (G)
Temp Range	: -40° F to +212°F (-40°C to +100°C)
Industry Standards	: Complies with AS1869 Class E & En13766 class A Type 1
Applications	: Marine, plant processing, rail car, ship-to-shore, tank truck NOTE : Not for dry material service.
Vacuun	: Full

ID(in)	ID(mm)	Approx Wt (lbs/ft)	Min Bend Rad (in)	Max Rec WP (psi)
1	25.4	0.8	5.0	250
1-1/2	38.1	1.0	6.0	250
2	50.8	1.2	6.5	250
2-1/2	63.5	1.6	8.0	250
3	76.2	2.0	9.5	250
4	101.6	4.4	16.0	250
6	152.4	7.0	20.0	250
8	203.2	10.0	29.0	250
10	254.0	23.0	40.0	150



Composite - (Chemical Transfer Hose)

Inner Wire	: Polypropylene - coated steel (P)
Inner Liner	: Polypropylene fabric
Hose Wall	: Multiple layers of fabric/film/tubes
Cover	: Black PVC coated polyester
Outer Wire	: Galvanized Steel (G)
Temp Range	: -40° F to +212°F (-40°C to +100°C)
Industry Standards	: Complies with En13765
Applications	: Chemicals, inks, paints, plant processing, rail cars, tank trucks NOTE : Not for dry material service.
Vacuun	: Full

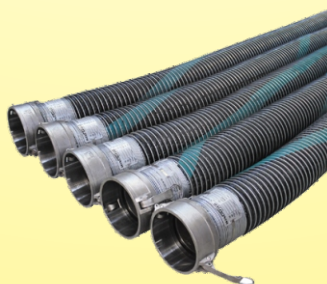
ID(in)	ID(mm)	Approx Wt (lbs/ft)	Min Bend Rad (in)	Max Rec WP (psi)
1	25.4	0.8	5.0	250
1-1/2	38.1	1.0	6.0	250
2	50.8	1.2	6.5	250
2-1/2	63.5	1.6	8.0	250
3	76.2	2.0	9.5	250
4	101.6	4.4	16.0	250
6	152.4	7.0	20.0	250
8	203.2	10.0	29.0	250



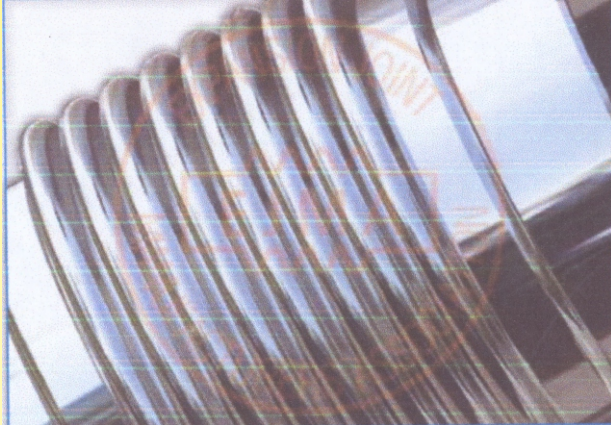
PTEF Chemical Transfer Hose

Inner Wire	: Stainless Steel (S)
Inner Liner	: Polypropylene fabric (PTFF)
Hose Wall	: Multiple layers of fabric Inn/tubes
Cover	: Red PVC coated polyester
Outer Wire	: Stainless Steel (S)
Temp Range	: -40° F to +212°F (-40°C to +100°C)
Working Pressure	: 250 PSI
Industry Standards	: Complies with EN13765
Applications	: Chemicals, inks, paints, pharmaceuticals, plant processing, rail cars, tank trucks NOTE : Not for dry material service.
Vacuun	: Full

ID(in)	ID(mm)	Approx Wt (lbs/ft)	Min Bend Rad (in)	Max Rec WP (psi)
1	25.4	0.8	5.0	250
1-1/2	38.1	1.0	6.0	250
2	50.8	1.2	6.5	250
2-1/2	63.5	1.6	8.0	250
3	76.2	2.0	9.5	250
4	101.6	4.4	16.0	250
6	152.4	7.0	20.0	250
8	203.2	10.0	29.0	250

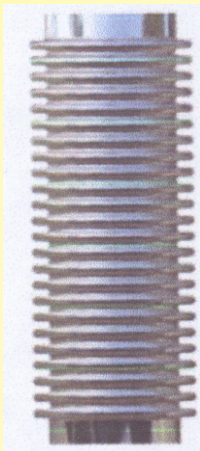


METAL BELLOWS EXPANSION JOINTS GENERAL EXPLANATIONS

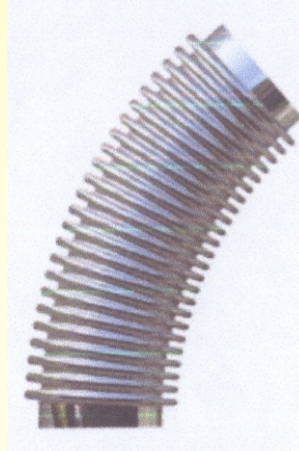


Expansion Joints are bellows flexible connection accessories used for absorbing thermal motions caused by ambient or transferring fluid temperature, angular motions originated from seismic events or land Subsidence and any vibrations occurs in installations.

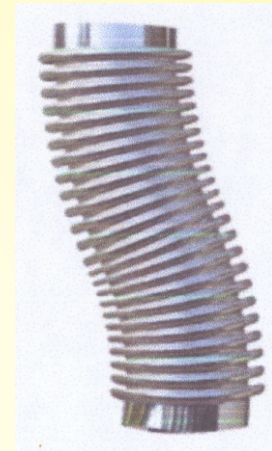
Expansion Joints have stainless steel bellows (undulation) formed hydraulically as a main part and are used in many applications such as industry and buildings with addition of limit rods, cranks and liners.



AXIAL MOVEMENT



ANGULAR MOVEMENT

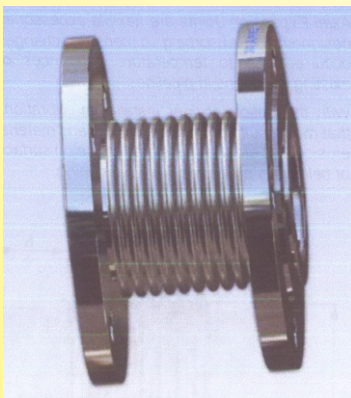


LATERAL MOVEMENT

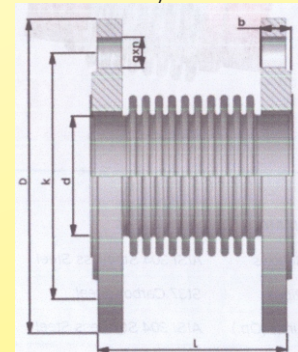
Metal Bellows Expansion Joint Product Specifications

Bellows and Liner Materials	AISI 304 Stainless Steel (Optional : 316L, 316Ti, 309)
Connections	Carbon Steel (Optional: Stainless Steel)
Nominal Diameter	DN50 (2") - DN4500
Operating Pressure	As Per Design or Client Requirement
Operating Temperature	As Per Design or Client Requirement
Connection Types	Floating Flanged, Fixed Flanged, Welding Neck
Design	According to the EJMA Standards

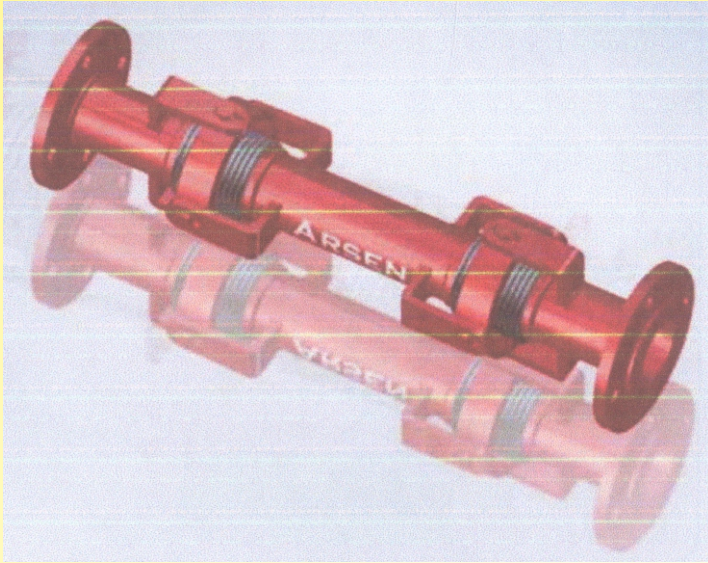
METAL BELLOWS EXPANSION JOINTS GENERAL EXPLANATIONS



Axial Expansion Joints are flexible accessories designed for absorbing dimension changes occurred due to temperature differences or existing vibrations in pipelines. With the option of liner installation, vibrations that may result from high fluid flows and material erosion that erosive fluids may cause on surface of bellows is prevented from happening.

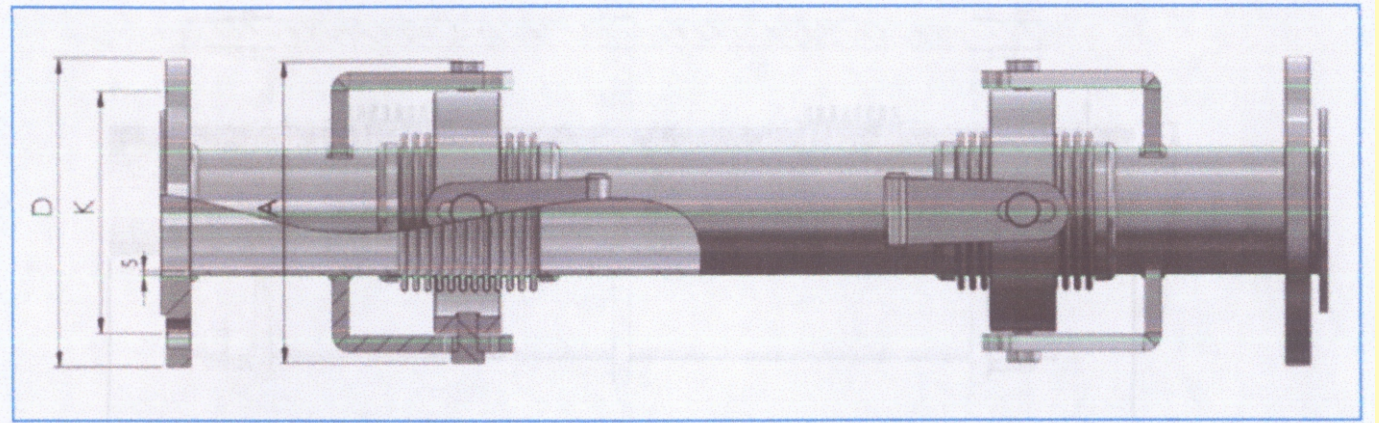


GIMBAL TYPE (SEISMIC) EXPANSION

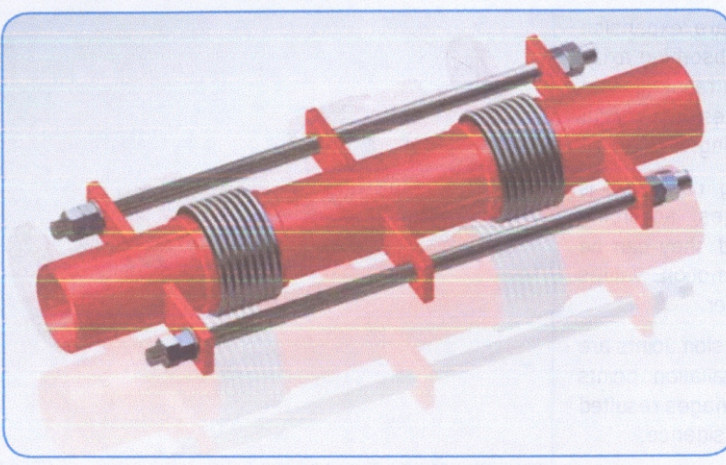


Seismic Expansion Joints are expansion joints with cranks used for absorbing axial, lateral and angular motions resulted from seismic motions (earthquakes) that occur in points with a risk of breaking.

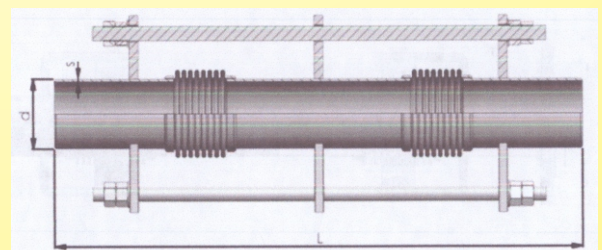
When requested absorbing capability is higher than standard values, according to application they are used, they can be designed specifically for motion values calculated by project engineer. Gimbal Type Seismic Expansion Joints are for protecting pipeline installation points and prevents them from damages resulted from seismic motions or subsidence.



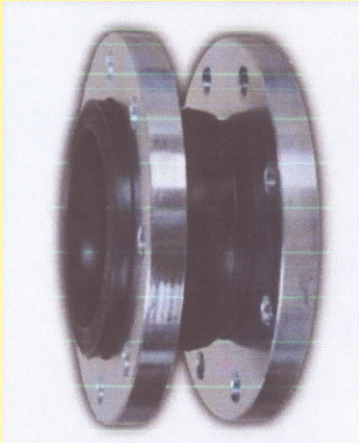
UNIVERSAL TIED EXPANSION JOINTS WITH WELDING NECKS



Universal Tied Expansion Joints are used in buildings with different construction foundations. They are installation accessories in order to absorb large lateral motions resulted from subsidence and ground motion. Thus, pipelines are prevented from damage after possible motions.

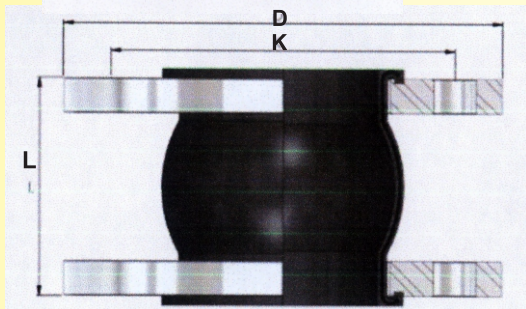


RUBBER EXPANSION JOINTS



Rubber Expansion Joints are installation accessories that can absorb axial, lateral and angular motions. Rubber Expansion Joints are consist of rubber main body, steel wire and nylon cord reinforced special synthetic rubber.

Main advantages are easiness of installation with floating flanges, vibration and sound absorption, installation without additional need for seals.



Material Specifications

Bellows	EPDM (Optional: NBR, NR, Viton)
Flanges	Carbon Steel (Optional: Stainless Steel)
Diameter	DN32 / DN1000
Temperature	100°C

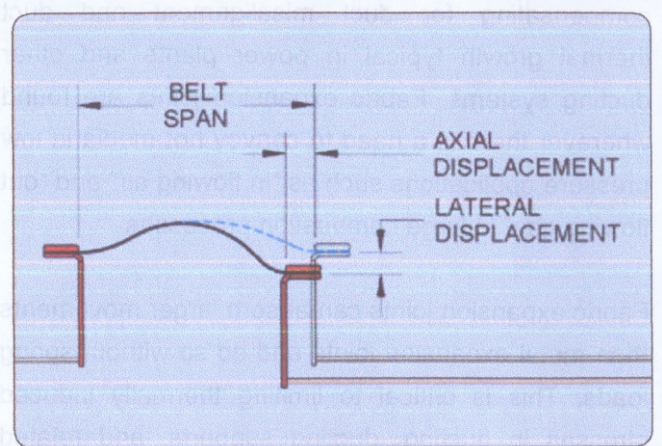
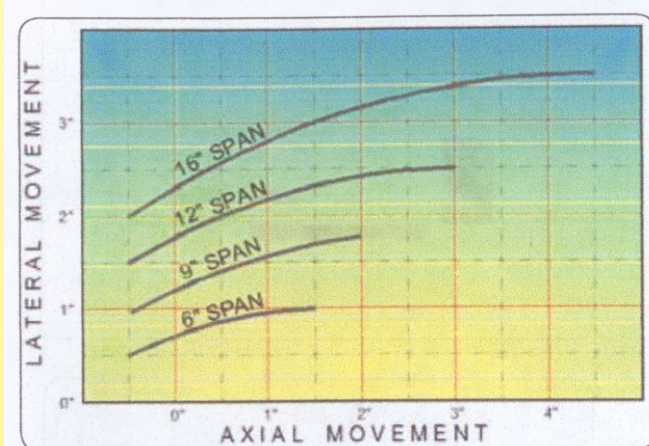
FABRIC EXPANSION JOINT

WHAT IS A FABRIC EXPANSION JOINT ?

Fabric expansion joints perform a function of compensating for duct misalignment and duct thermal growth typical in power plants and other ducting systems. Fabric expansion joints are found wherever there is a need to convey hot media in low pressure applications such as "in flowing air" and "out flowing gas" in large combustion processes.

Fabric expansion joints can absorb larger movements than metal expansion joints and do so without spring loads. This is critical to limiting thermally induced stresses in ducting, ducting supports, and related equipment.

FABRIC EXPANSION JOINT MOVEMENT CHART



The chart shown above depicts the relationship of belt span, maximum compression and concurrent lateral movements. The maximum compression is a percentage of the available belt span (shown at the right end of the plot line). The wider the span, the more capacity for compression. The lateral capacity is a function of the belt slack created with concurrent compression

As the compression increases, more belt material is available to safely allow movement without overstressing the fabric material. In situations with large lateral movement and little compression, the joint can be installed pre-compressed to have more lateral capacity.

When in doubt, allow experienced U.S. Bellows engineers to help select the correct span for each particular application.



81" L x 18" W x 16" Face-to-Face Rectangular Expansion Joint Designed for High Air Circulation Flow for an Air Cooling Loop Duct in a Power Plant



Rectangular Fabric Expansion Joint Measuring 13" L x 54" W x 12" Face-to-Face for an Exhaust Duct in a Power Plant

METAL HOSE (FITTING)



Swivel Fitting
Alloys - T304 Stainless Steel
Sizes - 1/4" thru 2"



Female Union (Threaded/Socket Weld)
- Alloys - T304 and T316 Stainless Steel, Carbon Steel, Malleable Iron, Brass
- Sizes - 1/4" thru 4"
- Class - 125#, 150#, 3000# (Carbon Steel Only)



Female Half Coupling (Threaded/Socket Weld)
- Alloys - T304 and T316 Stainless Steel, Carbon Steel, Malleable Iron, Brass
- Sizes - 1/4" thru 4"
- Class - 150#, 3000#



1,2 of 3 Piece SAE (JIC)
- Alloys - T316 and Stainless Steel, Brass (nut Only)
- Sizes - 1/4" thru 2"



45 and 90 SAE (JIC)
- Alloys - Stainless Steel
- Sizes - 1/4" thru 2"



Slip - on Flange
Alloys - T304 and T316 Stainless Steel, Carbon Steel
Sizes - 1 1/2" thru 12"
Class - 150#, 300#



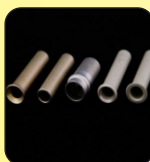
Plate Flange
Alloys - T304 and T316 Stainless Steel, Carbon Steel
Sizes - 1 1/2" thru 14"
Class - 150#



C Stub with Floating Flange
Alloys - T304 and T316 Stainless Steel
Sizes - 1 1/2" thru 10"
Schedule - 10



Hammer Union
Alloys - Stainless Steel, Carbon Steel
Sizes - 1 1/2" thru 8" (Fig - 100 to Fig - 2202)



Tube End
Alloys - T304 and T316 Stainless Steel, Carbon Steel, Aluminum
Sizes - 1 1/2" thru 8"
Wall Thickness - Various

CAMLOCK COUPLINGS / QUICK RELEASE COUPLINGS

SRSflex Quick and camlock couplings conserve energy and are easy to connect or disconnect without the use of hand tools, for various purpose where products are transferred by pipe or hoses, like Brewing, Chemical, Fertilizer, Mining, Petroleum, Steel Plants, Atomic Energy, Power Plant, Cement Plant and Offshore

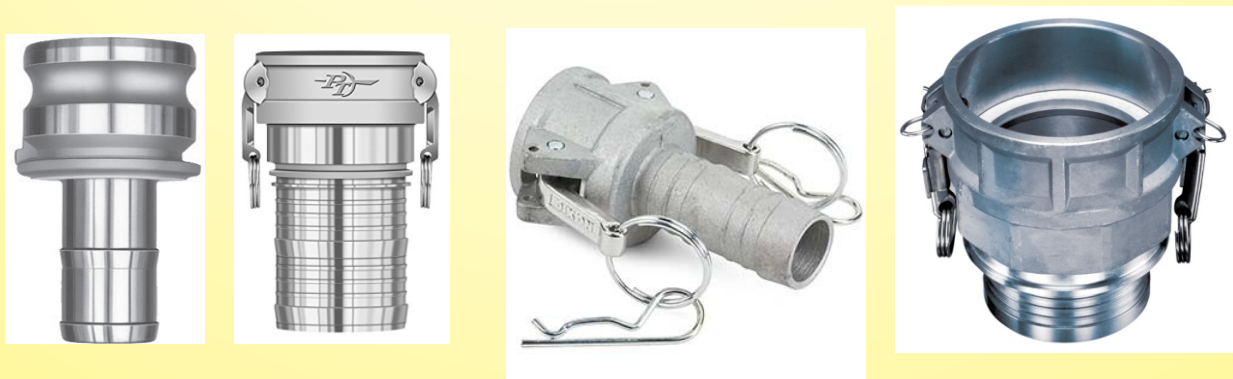
Camlock Female Coupler & Adaptor



Quick Release Couplings



Coupler Hose Shank



OUR RANGE OF OTHER PRODUCTS

Type A



Female Adaptor

Type B



Male Coupler

Type C



Hose Tail Coupler

Type D



Female Coupler

Type E



Hose Tail Adaptor

Type F



Male Adaptor

Type DC



Dust Cap
Dust Caps available with
Cross over locking levers

Type DP



Dust Plug

BUTT WELDING FITTINGS TO ANSI B16.9



90° Elbow



45° Elbow



U Bend



Cap



Long Stubend



Tee



Con. Reducer



Ecc. Reducer



Short Stubend

FORGED / SOCKET / SCREWED FITTINGS TO ANSI B16.11



90° Elbow



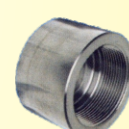
Tee



45° Elbow



Cross Tee



half/Full Coupling BSP/NPT



Union



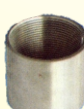
Plug Nipple



Barrel Nipple



Hose Nipple



Coupling



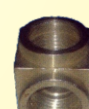
Hex Nipple



Bushing



Patta Tee



Patta Elbow



BSP Bend



Weldneck Flange



Collar Flange



Blind Flange



SORF Flange



Weldolet



Weldolet Olet

S. S. FERRULE FITTINGS



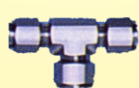
Union Elbow



Male Elbow



Female Elbow



Union Tee



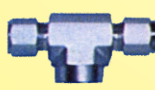
Male Run Tee



Male Branch Tee



Female Run Tee



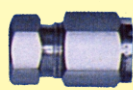
Female Branch Tee



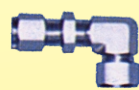
Union Cross



45 Deg. Elbow



Tube end Closure



Bulk Head Elbow



Positionable Male Elbow



Butt Weld Pipe Elbow



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



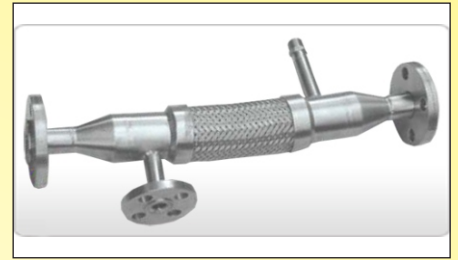
Male Adaptor



Female Adaptor

Corrosion Resistance Guide

Acetic Acid	70°	A	A	B	Chromic Acid (10%)	Boil	C	B	B	Paraffin	Hot	A	A	A
Acetic Anhydride	Boil	A	A	B	Cider	70°	A	A	A	Phosph. Acid (20%)	Boil	C	B	B
Acetone	Boil	A	A	A	Citric Acid (15%)	Boil	B	A	B	Potass. Carbonate	Hot	A	A	A
Acetylene	70°	A	A	A	Coffee	Boil	A	A	A	Potass. Chlor. (5%)	Boil	B	B	B
Alcohols	Boil	B	A	A	Copper Chloride (5%)	70°	C	C	A	Potas. Chrom. (25%)	Boil	A	A	B
Aluminum Chloride	70°	C	C	A	Copper Nitrate	Hot	A	A	C	Potas. Cyanide	70°	A	A	A
Aluminum Hydrox.	70°	A	A	B	Copper Sulfate	Boil	A	A	B	Potas. Hydrox. (50%)	Boil	B	A	A
Aluminum Sulfate	Boil	B	A	B	Corn Oil	70°	A	A	A	Potas. Sulfate (5%)	Hot	B	A	B
Ammonia-Dry	Hot	A	A	A	Cottonseed Oil	70°	A	A	A	Propane	70°	A	A	A
Ammonia-Moist	Boil	A	A	C	Creosote	Hot	A	A	A	Rosin	Molten	A	A	A
Ammonium Hydrox.	70°	A	A	A	Crude Oil	Hot	B	A	A	Sea Water	70°	B	B	B
Ammonium Chlor.	Boil	B	A	A	Ethers	70°	A	A	A	Sewage	70°	A	A	A
Ammonium Nitrate	70°	A	A	C	Ethyl Acetate (conct)	70°	A	A	B	Soap Solutions	70°	A	A	A
Ammonium Sulfate	Boil	B	A	B	Ethyl Chloride	70°	A	A	B	Sodium Bicarb. (5%)	150°	A	A	A
Amyl Ace. (conct)	70°	A	A	A	Ethylene Glycol	70°	A	A	A	Sodium Bisulfite	70°	A	A	B
Amyl Alcohol	70°	A	A	A	Ferric Chloride	70°	C	C	B	Sodium Carb. (50%)	Boil	A	A	A
Aniline (conct)	70°	A	A	A	Ferric Sulfate (10%)	Boil	B	A	C	Sodium Chlor. (5%)	150°	C	B	B
Aniline Hydrochlor.	70°	C	C	A	Ferrous Sulfate	Boil	B	A	B	Sodium Cyanide	70°	A	A	B
Asphalt	Hot	A	A	A	Formaldehyde (40%)	70°	B	B	A	Sodium Hydroxide	Boil	A	A	A
Atmosphere, Indust.	70°	A	A	A	Formic Acid (50%)	50°	B	A	B	Sodium Hyp. (5%)	70°	C	B	B
Barium Carbonate	70°	A	A	B	Freon	70°	A	A	A	Sodium Nitrate	70°	A	A	A
Barium Chloride	Hot	B	A	A	Fruit Juices	70°	A	A	A	Sodium Perox. (10%)	150°	A	A	B
Barium Hydroxide	Hot	A	A	B	Furfural	70°	A	A	A	Sodium Phosphate	70°	A	A	A
Barium Sulfate	70°	A	A	B	Gasoline	70°	A	A	A	Sodium Sulf. (10%)	150°	B	A	A
Barium Sulfide	70°	A	A	C	Gelatine	70°	A	A	A	Sodium Thiosulfate	70°	A	A	A
Beer	70°	A	A	A	Glue (Acid Solution)	70°	B	A	A	Steam	200°	A	A	A
Benzine	Hot	A	A	A	Glycerine	70°	A	A	A	Stearic Acid	70°	B	A	B
Benzoic Acid	70°	A	A	B	Hydrobromic Acid	70°	C	C	C	Sugar Solutions	70°	A	A	A
Benzol	Hot	A	A	A	Hydrochloric Acid	70°	C	C	B	Sulfur, Dry	350°	A	A	A
Black Liquor	Hot	B	B	A	Hydrocyanic Acid	70°	A	A	B	Sulfur, Molten	200°	C	B	B
Bleaching Pow., wet	70°	C	C	B	Hydrofluoric Acid	70°	C	C	B	Sulfur Chloride, Dry	Hot	C	C	A
Borax (5%)	Hot	A	A	A	Hydrogen Peroxide	70°	A	A	B	Sulfur Dioxide, Dry	70°	A	A	B
Boric Acid	Boil	A	A	B	Hydrogen Sulfide, Dry	70°	A	A	A	Sulfur Dioxide, Mo.	70°	C	B	C
Bromine, Dry	70°	C	C	A	Hydrogen Sulfide, Mo.	70°	B	A	B	Sulfur Trioxide, Dry	70°	A	A	A
Bromine, Moist	70°	C	C	B	Kerosene	70°	A	A	A	Sulfur. Ac. (95-100%)	70°	A	A	B
Butate	70°	A	A	A	Lacquers	70°	A	A	A	Sulfur. Ac. (80-95%)	70°	B	B	B
Buttermilk	70°	A	A	A	Lacquer Solvents	70°	A	A	A	Sulfur Ac. (40-80%)	Boil	C	C	C
Butyl Alcohol	70°	A	A	A	Lactic Acid (5%)		B	A	B	Sulfur Ac. (40%)	300°	C	C	C
Butyric Acid (5%)	Boil	A	A	B	Lime	70°	A	A	A	Tannic Acid	70°	A	A	B
Calcium Chloride	70°	B	A	B	Lime-Sulfur	70°	B	B	B	Tar	70°	A	A	A
Calcium Hydr. (20%)	Boil	A	A	B	Linseed Oil	70°	A	A	A	Tartaric Acid (10%)	70°	B	A	B
Calcium Hyp. (20%)	70°	C	B	B	Magnesium Chl. (5%)	Hot	C	B	B	Toluene	70°	A	A	A
Cane Sugar Syrups	Hot	A	A	A	Magnesium Sulfate	Hot	B	A	A	Trichloroacetic Acid	70°	C	C	B
Carbolic Acid (Phe.)	Boil	A	A	B	Mercury	70°	A	A	B	Trichlorethylene, Dry	70°	A	A	A
Carbon Dioxide, Dry	Hot	A	A	A	Mercury Salts	70°	C	C	A	Trichlorethylene, Mo.	70°	C	B	B
Carbon Dioxide, M	Hot	A	A	A	Methyl Chloride, Dry	70°	A	A	A	Turpentine	70°	A	A	A
Carbonated Water	70°	A	A	A	Milk	Hot	A	A	A	Varnish	70°	A	A	A
Carbonated Bevera.	70°	A	A	A	Mine Water	70°	A	A	B	Vinegar	70°	A	A	B
Carbon Tetra., Dry	Boil	A	A	A	Natural Gas	70°	A	A	A	Water	70°	A	A	A
Carbon Tetra., Moist	Boil	C	C	B	Nitric Acid (contc)	Boil	A	A	C	Zinc Chloride	Boil	C	C	B
Chlorine, Dry	70°	C	B	A	Nitrogen	70°	A	A	A	Zinc Sulfate	Boil	B	A	B
Chlorine, Moist	70°	C	C	B	Oleic Acid	Boil	B	A	A					
Chlorinated Water	70°	C	C	A	Oxalic Acid (10%)	Boil	C	B	B					
Chloroform, Dry	70°	A	A	A	Oxygen	70°	A	A	A					



Factory Work Add:

Sector No. 2, Vasai Industrial, MIDC Gaurai Pada, Vasai Dist. Palghar

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