

MERCER SLEEVE TYPE EXPANSION JOINTS

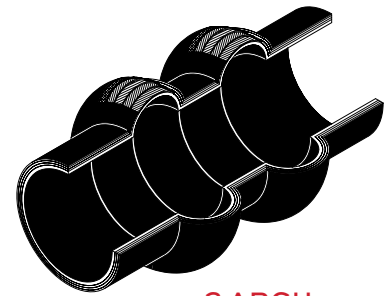
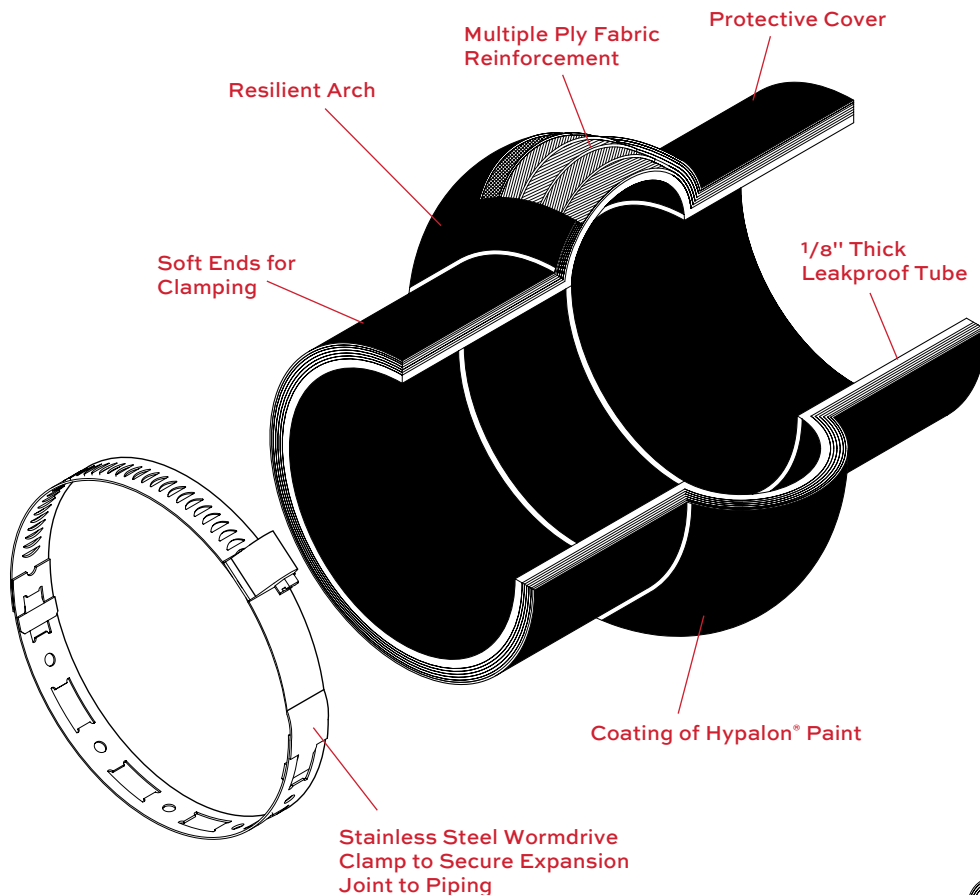
Series
300 & 310

300 – STANDARD PRESSURE, LOW VACUUM

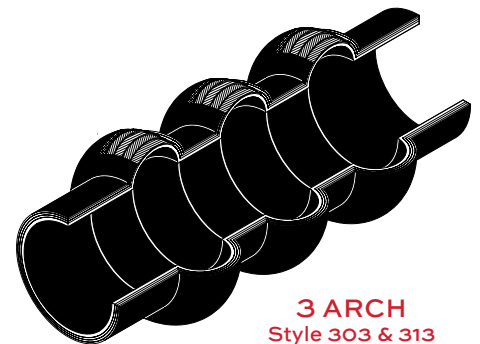
310 – HIGH PRESSURE, HIGH VACUUM

1 ARCH

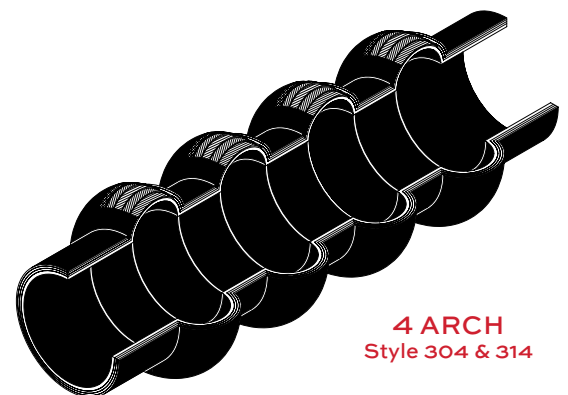
Style 301 & 311 Expansion Joints



2 ARCH
Style 302 & 312



3 ARCH
Style 303 & 313



4 ARCH
Style 304 & 314

SERIES 300 & 310

MATERIAL AVAILABILITY
& OPERATING TEMPERATURES

Series 300 & 310	Standard Materials		Max. Oper. Temp.
	Tube	Cover	
B	Butyl	Butyl	250°F
E	EPDM	EPDM	250°F
H	Hypalon®	Hypalon®	225°F
HN	Hypalon®	Neoprene	225°F
N	Neoprene	Neoprene	225°F
NH	Neoprene	Hypalon®	225°F
Ni	Nitrile	Nitrile	210°F
NiN	Nitrile	Neoprene	210°F
NR	Neoprene	Natural	225°F
R	Natural	Natural	180°F
RN	Natural	Neoprene	180°F
V	Viton®	Viton®	250°F

Food Grade Rubber Available.

See next page for Dimensions, Allowable Movements and Pressures.

IMPORTANT

Since sleeve type expansion joints cannot be readily protected with control rods, it is **imperative** that piping be axially aligned, properly guided and **properly anchored**.

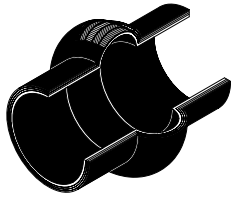
Periodic tightening of clamps may be necessary.

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1 ARCH

Style 301 & 311



STYLE 301 & 311 DIMENSIONS

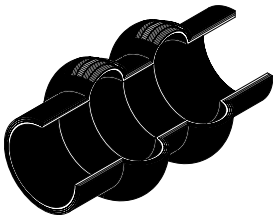
ALLOWABLE MOVEMENTS & OPERATING PRESSURES

Mercer Size*	Face to Face (in)	Allowable Movements			Rated Working Pressure (psi)		Vacuum Rating (in Hg)	
		Axial Compression (in)	Axial Extension (in)	Lateral Deflection (in)	301	311	301	311
1 1/2	6	13/4	7/8	1	90	140	15	30
2	6	13/4	7/8	1	90	140	15	30
2 1/2	6	13/4	7/8	1	90	140	15	30
3	6	13/4	7/8	1	90	140	15	30
4	6	13/4	7/8	1	90	140	15	30
5	6	13/4	7/8	1	50	125	15	30
6	6	13/4	7/8	1	50	125	15	30
8	6	13/4	7/8	1	25	125	15	30
10	6	13/4	7/8	1	25	125	15	30
12	6	13/4	7/8	1	25	125	15	30
14	8	2 1/8	1	1 1/4	20	90	15	30
16	8	2 1/8	1	1 1/4	20	90	15	30
18	8	2 1/8	1	1 1/4	15	90	15	30
20	8	2 1/8	1	1 1/4	15	70	15	30
22	10	2 5/8	1 1/4	1 1/2	15	70	15	30
24	10	2 5/8	1 1/4	1 1/2	15	70	15	30

*Fits over nominal pipe sizes and tubing listed

2 ARCH

Style 302 & 312



STYLE 302 & 312 DIMENSIONS

ALLOWABLE MOVEMENTS & OPERATING PRESSURES

Mercer Size*	Face to Face (in)	Allowable Movements			Rated Working Pressure (psi)		Vacuum Rating (in Hg)	
		Axial Compression (in)	Axial Extension (in)	Lateral Deflection (in)	302	312	302	312
1 1/2	10	3 1/2	1 3/4	2	50	105	15	30
2	10	3 1/2	1 3/4	2	50	105	15	30
2 1/2	10	3 1/2	1 3/4	2	50	105	15	30
3	10	3 1/2	1 3/4	2	50	105	15	30
4	10	3 1/2	1 3/4	2	50	105	15	30
5	10	3 1/2	1 3/4	2	35	90	15	30
6	10	3 1/2	1 3/4	2	35	90	15	30
8	10	3 1/2	1 3/4	2	20	90	15	30
10	10	3 1/2	1 3/4	2	20	90	10	30
12	10	3 1/2	1 3/4	2	20	90	10	30
14	12	4 1/4	2	2 1/2	15	70	10	30
16	12	4 1/4	2	2 1/2	15	70	5	30
18	12	4 1/4	2	2 1/2	10	70	5	30
20	12	4 1/4	2	2 1/2	10	55	5	30
22	14	5 1/4	2 1/2	3	10	55	5	30
24	14	5 1/4	2 1/2	3	10	55	5	30

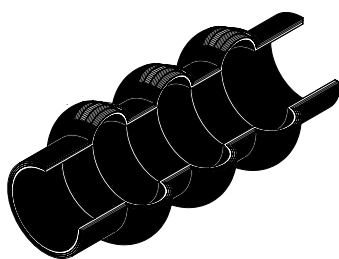
*Fits over nominal pipe sizes and tubing listed

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3 ARCH

Style 303 & 313



STYLE 303 & 313 DIMENSIONS

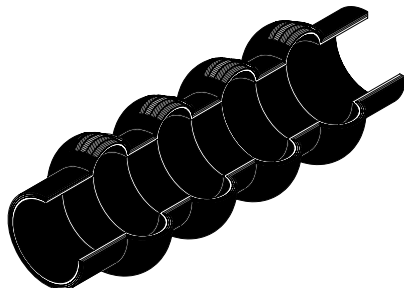
ALLOWABLE MOVEMENTS & OPERATING PRESSURES

Mercer Size*	Face to Face (in)	Allowable Movements			Rated Working Pressure (psi)		Vacuum Rating (in Hg)	
		Axial Compression (in)	Axial Extension (in)	Lateral Deflection (in)	303	313	303	313
1 1/2	14	5 1/4	2 5/8	3	25	75	10	30
2	14	5 1/4	2 5/8	3	25	75	10	30
2 1/2	14	5 1/4	2 5/8	3	25	75	10	30
3	14	5 1/4	2 5/8	3	25	75	10	30
4	14	5 1/4	2 5/8	3	25	75	10	30
5	14	5 1/4	2 5/8	3	25	65	10	30
6	14	5 1/4	2 5/8	3	25	65	10	30
8	14	5 1/4	2 5/8	3	25	65	10	30
10	14	5 1/4	2 5/8	3	25	65	5	30
12	14	5 1/4	2 5/8	3	25	65	5	30
14	16	6 3/8	3	3 3/4	10	50	5	30
16	16	6 3/8	3	3 3/4	10	50	5	30
18	16	6 3/8	3	3 3/4	10	50	5	30
20	16	6 3/8	3	3 3/4	10	40	5	30
22	18	7 7/8	3 3/4	4 1/2	10	40	5	30
24	18	7 7/8	3 3/4	4 1/2	10	40	5	30

*Fits over nominal pipe sizes and tubing listed

4 ARCH

Style 304 & 314



STYLE 304 & 314 DIMENSIONS

ALLOWABLE MOVEMENTS & OPERATING PRESSURES

Mercer Size*	Face to Face (in)	Allowable Movements			Rated Working Pressure (psi)		Vacuum Rating (in Hg)	
		Axial Compression (in)	Axial Extension (in)	Lateral Deflection (in)	304	314	304	314
1 1/2	18	7	3 1/2	4	15	55	10	30
2	18	7	3 1/2	4	15	55	10	30
2 1/2	18	7	3 1/2	4	15	55	10	30
3	18	7	3 1/2	4	15	55	10	30
4	18	7	3 1/2	4	15	55	10	30
5	18	7	3 1/2	4	15	40	10	30
6	18	7	3 1/2	4	15	40	10	30
8	18	7	3 1/2	4	15	40	10	30
10	18	7	3 1/2	4	15	40	5	30
12	18	7	3 1/2	4	15	40	5	30
14	20	8 1/2	4	5	5	30	5	30
16	20	8 1/2	4	5	5	30	5	30
18	20	8 1/2	4	5	5	30	5	30
20	20	8 1/2	4	5	5	30	5	30
22	22	10 1/2	5	6	5	30	5	30
24	22	10 1/2	5	6	5	30	5	30

*Fits over nominal pipe sizes and tubing listed

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