

FLEXIBLE METAL PUMP CONNECTORS

WHY USE SENIOR FLEXONICS PUMP CONNECTORS?

The basic function of pump connectors is to provide piping systems with the flexibility needed to absorb noise and vibration, compensate for thermal growth, or permit motion of other piping elements.

Senior Flexonics pump connectors are a perfect match of style, wall thickness and design to minimize the forces and stress within piping systems. These pump connectors are factory engineered, manufactured and tested to effectively minimize the stress on pump and compressor housings and to isolate vibrations transmitted by mechanical equipment. Senior Flexonics can help you comply with noise level requirements by reducing pipe vibration throughout a structure.

FEATURES:

- **ABSORBS THERMAL GROWTH MOTION**
Excellent protection to adjacent piping and equipment.
- **COMPENSATES FOR MISALIGNMENT**
Reduces stresses.
- **CONTROLS VIBRATION**
Normal mechanical equipment vibrations are reduced at the connector.
- **REDUCES NOISE**
High pipe vibration noise is greatly reduced . . . often eliminated.
- **ALL METAL CONSTRUCTION**
Eliminates shelf life problems and allows operation at elevated temperature.

BSN STAINLESS STEEL CONNECTORS

Pipe Size (in)	Model Number	Overall Length (in)	Live Length (in)	Design Data		
				Approx. Wt. (lb.)	Working Pressure	
					@ 70°F.	@ 250°F.
1/2	SA-BSN-008-12	12	8	3/8	1048	964
3/4	SA-BSN-012-12	12	6 3/4	3/4	900	828
1	SA-BSN-016-12	12	6 1/2	1	711	654
1 1/4	SA-BSN-020-12	12	6 1/4	1 1/4	563	518
1 1/2	SA-BSN-024-12	12	6 1/4	1 1/2	427	393
2	SA-BSN-032-12	12	5	2	398	366
2 1/2	SA-BSN-040-14	14	6 3/4	4	341	314
3	SA-BSN-048-14	14	6 3/4	5	256	236
4	SA-BSN-064-18	18	8 1/2	8 1/2	270	248



NOTE: Also available from stock 18" & 24" overall length in sizes 1/2" - 2"
Optional • SCH 80 fittings • Stainless Steel Fittings
• HEX Male Nipples • Double Braid for higher pressure

BRC BRONZE CONNECTORS

Pipe Size (in)	Model Number	Overall Length (in)	Live Length (in)	Design Data		
				Approx. Wt. (lb.)	Working Pressure	
					@ 70°F.	@ 250°F.
1/2	SA-BRC-008-12	12	9 3/8	0	487	0
3/4	SA-BRC-012-12	12	8 3/8	0	572	0
1	SA-BRC-016-12	12	7 5/8	0	267	0
1-1/4	SA-BRC-020-12	12	7 1/8	0	243	0
1-1/2	SA-BRC-024-12	12	6 1/8	0	251	0
2	SA-BRC-032-12	12	5 1/8	0	167	0



• For use in copper piping systems

FLEXIBLE METAL PUMP CONNECTORS

DESIGN CHARACTERISTICS

BSN Connectors: Stainless Steel hose and braid, SCH 40 carbon steel NPT nipples.

BRC Connectors: Bronze hose and braid, copper female sweat ends. For use in copper piping systems.

BSFS Connectors: Stainless Steel hose and braid, 150lb. raised face forged steel Slip On flanges.

TCS-R Connectors: Multi-Ply Stainless Steel bellows, carbon steel 150lb. flat faced flanges.

BSFS STAINLESS STEEL CONNECTORS

Pipe Size (in)	Model Number	Overall Length (in)	Live Length (in)	Design Data		
				Approx. Wt. (lb.)	Working Pressure	
					@ 70°F.	@ 250°F.
2	SA-BSFS-032-12	12	8	11	285	245
2 1/2	SA-BSFS-040-12	12	7 3/4	15	285	245
3	SA-BSFS-048-12	12	7 5/8	21	256	235
	SA-BSFS-048-18	18	13 5/8	22	256	235
4	SA-BSFS-064-12	12	7 3/8	28	250	230
	SA-BSFS-064-18	18	13 3/8	29	250	230
5	SA-BSFS-080-12	12	6 1/4	33	200	184
	SA-BSFS-080-18	18	12 1/4	36	200	184
6	SA-BSFS-096-12	12	6	41	170	156
	SA-BSFS-096-18	18	12	43	170	156
8	SA-BSFS-128-12	12	5 5/8	63	212	195
	SA-BSFS-128-18	18	11 5/8	66	212	195
10	SA-BSFS-160-18	18	11 1/4	90	175	161
12	SA-BSFS-192-18	18	10 3/4	135	160	147
14	SA-BSFS-224-18	18	10 5/8	190	150	138



- Optional:**
- Stainless Steel Flanges
 - 300 Lb Flanges

TCS-R STAINLESS STEEL PUMP CONNECTORS

Pipe Size (in)	Style	Overall Length (in)	Live Length (in)	Fitting Length (in)	Design Data			Effective Area (in. ²)
					Approx. Wt. (lb.)	Working Pressure		
						@ 70°F.	@ 250°F.	
2	TCS-R-200	6	4 3/4	5/8	20 1/2	225	210	6.9
2 1/2	TCS-R-250	6	4 3/4	5/8	24	225	210	6.9
3	TCS-R-300	6	4 3/4	5/8	25	225	210	8.8
4	TCS-R-400	6	4 1/2	3/4	35	225	210	15.1
5	TCS-R-500	6	4 1/2	3/4	38	225	210	23.5
6	TCS-R-600	6	4 1/2	3/4	41 1/2	225	210	33.2
8	TCS-R-800	6	4	1	68	225	210	59.3
10	TCS-R-1000	8	6	1	118	225	210	93.5
12	TCS-R-1200	8	6	1	147	225	210	134.0
14	TCS-R-1400	8	5 1/2	1 1/4	205	225	210	171.0



- NOTE**
- Model TCS-R rated for 1" compression, 3/8" extension, 1/8" -5/16" lateral and pump vibration. (Depending on size)
 - Movements shown are non-concurrent
 - Larger sizes available upon request.