

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	1225	1125
3/4	SA-BSN-012-12	12	6 3/4	3/4	1034	921
1	SA-BSN-016-12	12	6 1/2	1	796	732
1 1/4	SA-BSN-020-12	12	6 1/4	1 1/4	600	552
1 1/2	SA-BSN-024-12	12	6 1/4	1 1/2	557	512
2	SA-BSN-032-12	12	5	2	562	524
2 1/2	SA-BSN-040-14	14	6	4	387	356
3	SA-BSN-048-14	14	6 3/4	5	316	291
4	SA-BSN-064-18	18	8 1/2	8 1/2	232	213



NOTE: Also available from 18", 24", 36" and 48" overall 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	8	1/2	706	607
3/4	SA-BRC-012-12	12	7 1/2	1	577	496
1	SA-BRC-016-12	12	6 3/4	1 1/4	470	404
1-1/4	SA-BRC-020-12	12	5 3/4	1 3/4	361	310
1-1/2	SA-BRC-024-12	12	5 3/4	2	329	282
2	SA-BRC-032-12	12	4 3/4	2 1/2	317	272



• 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	285	245
	SA-BSFS-048-18	18	13 5/8	22	285	245
4	SA-BSFS-064-12	12	7 3/8	28	232	204
	SA-BSFS-064-18	18	13 3/8	29	232	204
5	SA-BSFS-080-12	12	6 1/4	33	191	168
	SA-BSFS-080-18	18	12 1/4	36	191	168
6	SA-BSFS-096-12	12	6	41	165	145
	SA-BSFS-096-18	18	12	43	165	145
8	SA-BSFS-128-12	12	5 5/8	63	234	206
	SA-BSFS-128-18	18	11 5/8	66	234	206
10	SA-BSFS-160-18	18	11 1/4	90	230	202
12	SA-BSFS-192-18	18	10 3/4	135	161	142
14	SA-BSFS-224-18	18	10 5/8	190	119	105

Optional:

- Stainless Steel Flanges
- 300 Lb Flanges



TCS-R STAINLESS STEEL 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.

