

FLEXIBLE PUMP CONNECTOR

Kurbo flexible pump connectors are primarily used to absorb noise and vibration transmitted by mechanical equipments like pumps and compressors. The flexible metal pump connectors are of all steel construction, thus they permit high pressure and high temperature service while isolating mechanical vibration and reducing system noise to provide perfect pump vibration isolation.

Kurbo flexible metal pump connectors are available in two (2) types: Braided pump connector (known as flexible joint) and Bellows type pump connector.

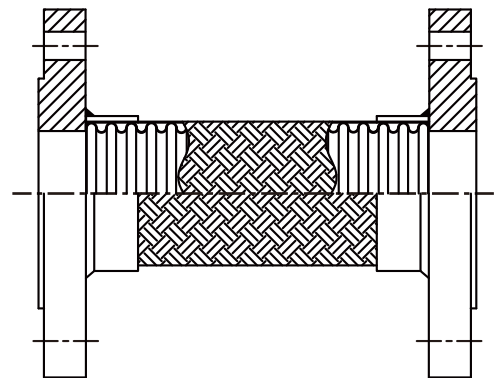
Braided Pump Connector

Construction

Constructed of stainless steel hose and braid, carbon steel flat faced plate flanges as a standard.

Features

- Absorbs mechanical equipment vibrations in the connected piping
- Noise associated with the vibration is eliminated
- Lowers overall operating costs
- Compensates for minor misalignment, resulting in less stresses
- Allows operation at elevated temperature.



Nominal Size		Length (L)	Braid	Max. Working Pressure(bar)		Approx. Weight(kg)
DN	Inch			Single Braided	Double Braided	
25	1	200	WIRE	24	45	4
32	1 1/4	200	WIRE	20	35	5
40	1 1/2	230	WIRE	20	35	5
50	2	230	WIRE	20	35	6
65	2 1/2	230	WIRE	15	25	8
80	3	230	WIRE	15	25	9
100	4	230	WIRE	15	25	13
125	5	280	WIRE	10	20	16
150	6	280	WIRE	10	20	20
200	8	300	RIBON	10	20	30
250	10	300	RIBON	10	20	50
300	12	300	RIBON	10	20	70

1. Can be manufactured in different lengths

Bellows Type Pump Connector

In addition to the benefit and advantage of the braided pump connector, the bellows pump connectors provide the ultimate flexibility combined with low spring rate and internal dampening of vibration which results in pump vibration isolation and high service life without compromising pressure resistance strength.

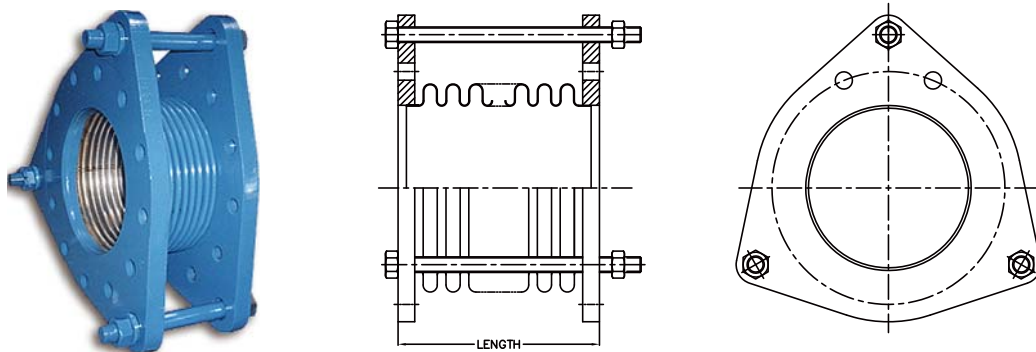
This type offers ideal solution to vibration and motion isolation when space is at a premium

Construction

Constructed of multiple layers of stainless steel bellows, carbon steel flat faced flanges. Isolation of the carbon steel flanges from the flow media can be achieved by the use of vanstone flanges. Tie rods are designed to absorb the full pressure thrust load generated by the internal pressure.

Features

- Absorbs thermal growth motion
- Absorbs mechanical equipment vibrations in the connected piping
- Eliminates noise associated with the vibration
- Provides high flexibility and longer service life due to multiply construction of bellows
- Compensates for minor misalignment, resulting in less stresses
- Allows operation at elevated temperature.



Nominal Size		Overall Length (mm)		Maximum Movement (mm)			Approx. Weight	
DN	Inch	KS / JIS 10K	KS / JIS 20K	Axial Comp.	Axial Ext.	Lateral	KS / JIS 10K	KS / JIS 20K
25	1	100	110	12	5	5	3.3	3.9
32	1.25	100	110	12	5	5	4.2	4.5
40	1.5	100	110	12	5	5	4.4	4.7
50	2	120	130	12	5	5	5.7	5.9
65	2.5	120	130	12	5	5	7.3	7.5
80	3	120	130	12	5	5	7.5	10.5
100	4	120	130	12	5	5	8.6	13.1
125	5	130	140	12	5	5	12.5	20.9
150	6	140	150	12	5	5	16.1	26.2
200	8	200	220	12	5	5	20.1	34.1
250	10	200	220	12	5	5	33.9	58.0
300	12	200	230	12	5	5	38.0	67.5
350	14	200	230	12	5	5	47.6	94.1
400	16	200	240	12	5	5	63.1	126.2
450	18	200	240	12	5	5	79.0	163.5
500	20	200	240	12	5	5	81.6	214.4

1. Can be manufactured in different lengths and different flange
2. Movement are non concurrent movements