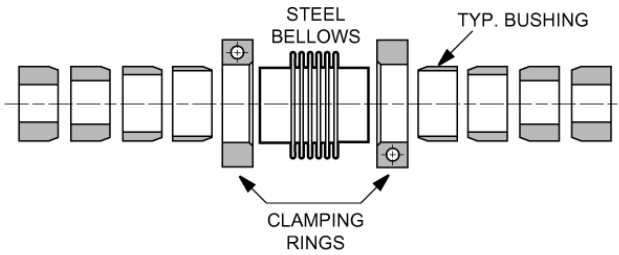
Modular Bellows Couplings

FEATURES

- Various shaft diameters are accommodated via prebored hub bushings
- Permits complete couplings to be quickly and easily assembled from stock components
- Time-saving installation with fast and easy shaft attachment
- Modular components provide immediate availability
- Low-restoring forces protects shaft bearings



COUPLING SELECTION

Operating Torque:

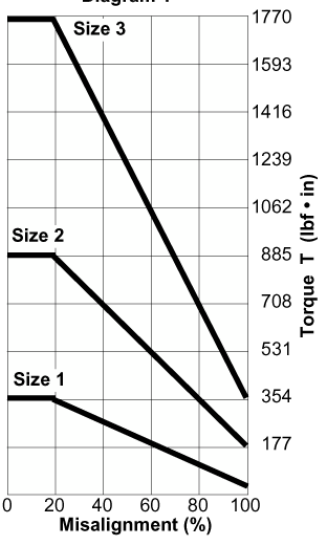
- Establish the Maximum Operating Torque
- If the Maximum Operating Temperature will exceed 122°F, multiply the Maximum Operating Torque by the Temperature Factor, as shown below:

Temperature °F	122	212	302	392	482
Temperature Factor	1	1.075	1.1	1.225	1.3

Misalignment:

- Determine the various shaft misalignments possible (axial, angular and radial) as a percentage of "permissible shaft missalignments" as shown in the technical data table for the preselected coupling size. Add each of the percentage values noting that the sum must be smaller than 100%. For example, .008" of axial misalignment corresponds to 25% of the permissible value of .032" for a Size 2 coupling.
  Locate both the values for maximum operating torque in lbf•in and misalignment in % as ascertained above, on the corresponding axes of Diagram 1. The intersection of these two values must be below the characteristic curve of the preselected coupling size.

Diagram 1



Temperature Resistance:

- Up to 482°F

Shaft/Hub Tolerances:

- H7 Tolerance for bores of bushings
- h6 Tolerance recommended for shafts

Important Installation Notes:

- Bores must be cleaned and any corrosion prohibitive removed by washing with a suitable solvent
- Bores and shafts must not be oiled and greased in any way

Technical Data

SIZE	Max. Torque T lbf • in	Max. Speed rpm	Torsional Rigidity in • lbf/rad	Axial Rigidity lbf/in	Permissible Misalignments			Tight. Torque of Clamp Screw lbf • in	Inertia lbf • in²
					Radial in	Axial in	Angular deg		
1	354	8000	80 x 10^3	400	.016	.024	3	124	.30
2	885	6000	195 x 10^3	514	.020	.032	3	150	.90
3	1770	4000	443 x 10^3	685	.020	.032	3	363	3.89