

## **Dynaflex Elastomeric Flexible Couplings**

# For Low Frequency Vibration Isolation and Misalignment Accommodation

Compact, one-piece flexible couplings economically constructed to isolate lowfrequency vibration and accommodate multidirectional misalignment.

#### **Typical applications:**

Shear-type flexible couplings are useful in many small equipment driveline applications.

Multi-directional misalignment capabilities make them ideally suited for fractional horsepower drivelines demanding noise reduction, vibration isolation and maintenance-free operation.

## Typical applications include:

Information Systems – Motor drive, printer rollers, indexing devices, linear actuator, drives and card sorters.

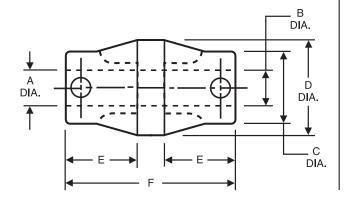
Hospital Bed – Actuator drive

Dynamometer – Driveline

Tachometer – Driveline

Pumps, Blowers, Compressors – Driveline

# **Dynaflex Shear Type Couplings**



#### **Standard Bore Tolerances**

Bore Sizes	Tolerance
from .000 to .499	+ .001000
from .500 to .749	+ .00150000
from .750 to 1.499	+ .002000

Part	Standard Bore Diameters		C in	D in	E in	F in	HP at 1750 rpm	Torque Rating	Static Torsional Stiffness	Set Screw
Number	A - in	B - in		Ref.	Ref.		Ref.	lbs-in	$\begin{array}{c} \text{lb-in/deg} \\ \pm  \text{20\%} \end{array}$	Size
SK-1947-6	.125	.125								
SK-1947-14	.125	.187								
SK-1947-52	.125	.250	.44	.56	.36	.81	1/50	0.8	0.53	5/40
SK-1947	.187	.187								
SK-1947-19	.187	.250								
SK-1947-29	.250	.250								

Part		rd Bore leters	C in	D in	E in	F in	HP at 1750 rpm	Torque Rating	Static Torsional Stiffness	Set Screw
Number	A - in	B - in		Ref.	Ref.		Ref.	lbs-in	$\begin{array}{c} \text{lb-in/deg} \\ \pm  \text{20\%} \end{array}$	Size
J-1211-1-2	.187	.187								
J-1211-1-31	.187	.250								
J-1211-1-1	.250	.250	.63	.81	.56	1.38	1/16	2.50	.17	10/24
J-1211-1-9	.250	.312								
J-1211-1-5	.312	.312								
J-1211-2-2	.250	.250								
J-1211-2-11	.250	.312								
J-1211-2-6	.250	.375	.75	1.00	.72	1.75	1/8	5	.33	10/24
J-1211-2-3	.312	.312								
J-1211-2-12	.312	.375								
J-1211-2-1	.375	.375								
J-1211-3-4	.312	.312								
J-1211-3-14	.312	.375								
J-1211-3-12	.312	.500	.88	1.25	.88	2.13	1/4	10	.66	1/4-20
J-1211-3-2	.375	.375								
J-1211-3-8	.375	.500								
J-1211-3-1	.500	.500								
J-1211-4-2	.375	.375								
J-1211-4-35	.375	.500								
J-1211-4-11	.375	.625	1.00	1.38	.91	2.25	1/3	13	.87	1/4-20
J-1211-4-14	.500	.500								
J-1211-4-4	.500	.625								
J-1211-4-1	.625	.625								
J-1211-5-3	.500	.500								
J-1211-5-8	.500	.625								
J-1211-5-4	.500	.750	1.13	1.63	1.00	2.50	1/2	20	1.33	1/4-20
J-1211-5-2	.625	.625								
J-1211-5-1	.750	.750								
J-1211-6-12	.500	.500								
J-1211-6-10	.500	.750								
J-1211-6-18	.625	.625	1.38	1.81	1.05	2.69	3/4	30	2.00	5/16-18
J-1211-6-14	.625	.750								
J-1211-6-1	.750	.750								
J-1211-7-16	.500	.750								
J-1211-7-9	.625	.625								
J-1211-7-4	.625	.750	1.50	2.00	1.11	2.88	1	40	2.66	5/16-18
J-1211-7-1	.750	.750								
J-1211-7-21	.750	.875								
J-1211-7-3	1.00	1.00								

<sup>•</sup> Intrusion should not exceed "E" bore length dimensions

<sup>•</sup> Standard Construction: Hubs – steel, Bores – as listed, Set Screws – one per hub furnished but not installed, Flexing Element – neoprene.

<sup>•</sup> Notes: Maximum recommended misalignment – 1/32 in. parallel. 2° angular

# **COUPLINGS**

# **Coupling Requirements**

Primary Function	on:								
Shaft Misalignmer	nt	Specific Requirements							
Axia		Inches							
Angu	ılar		Degrees	Degrees					
Paral	lel		Inches						
Torsid	onal Vibration Isolation		% Isolation @	RPM					
Torsio	onal Shock Loads		Maximum Amplitude						
Noise	e Attenuation								
Parameters:									
* System Operation	ng Temperature: Normal	°F, Ma	ximum°F, Minim	um°F					
		Oi	Oil Splash						
		Mi	Spec						
* Space Envelope	: Maximum Length	Mo	Maximum Diameter						
* Attachments:			Driven  Spline  Keyways						
* Shaft Diameters:	Driving	Driven							
Fail-Safe Feature	e Required: 🔲 Yes	☐ No							
Maximum Allow	able Weight:								
* Minimum Hours	Life Required:								
Please attach the f	following:								

- 1. A layout of the available space envelope and other pertinent drawings showing connecting driveline components.
- 2. A system mass-elastic diagram including all rotational mass moments of inertia and torsional stiffnesses.

<sup>\*</sup> Required Data