## **Ameriflex**° Diaphragm Couplings



Series NC For High Performance Applications





# Amerifex®

## Diaphragm Couplings **NC Series**

Ameridrives International's reputation has been built on specialized designs for demanding applications. We are now pleased to offer the industry another diaphragm coupling for a wider range of applications.

Designed specifically for the rigorous demands of the turbomachinery industry, the Ameriflex multiple convoluted diaphragm coupling was introduced in 1971. Since then, continuous refinements have made Ameriflex the industry leader in reliability and design flexibility. The new NC Series Ameriflex was developed as a natural extension of our proven designs, using the latest engineering technologies.

Fewer parts combined with modern manufacturing techniques, result in a cost-effective coupling while maintaining the same quality and performance standards proven by over 25 years experience with thousands of Ameriflex operating trouble-free.

- Simplified, economical design (Figure 1)
- Meets API-671 requirements
- Diaphragms designed for infinite life using FEA verified by strain gage and dynamic testing (Figure 2) 15-5 PH integral filler diaphragms maintain
- flex area separation
- 1/4 degree misalignment
- Low axial and bending stiffness
- Piloted construction for low repeatable unbalance
- Maintenance free for years of dependable service

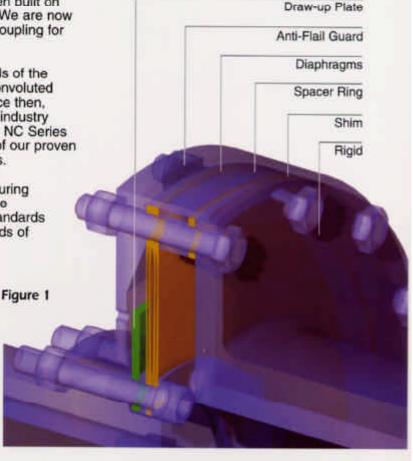


Figure 2





Member:

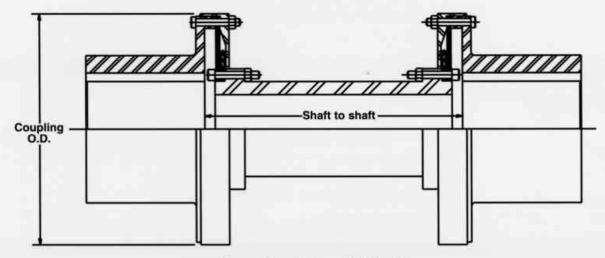
API

**AGMA** PTRA

PTDA

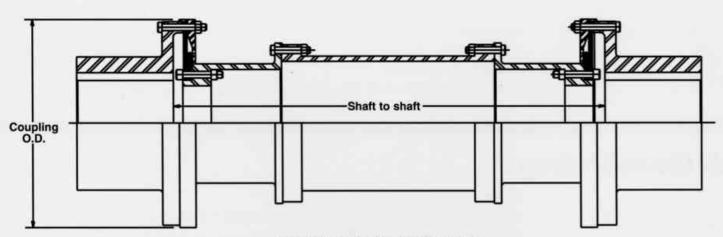
Caution: Rotating equipment is potentionally dangerous and could cause injury or damage if not properly protected. Follow applicable codes and regulations.





#### **Coupling Data - NC Series**

Coupling Size	Max. Cont. Torque (in lb.)	Peak Torque (in lb.)	Rated Speed (RPM)	Max. Axial Travel (in.)	Coupling O.D. (in.)	Shaft to Shaft Min. (in.)	Bore Diam. Max. (in.)
7	53,000	80,000	10,000	.050	7.12	5.06	4.00
9	120,000	180,000	10,000	.090	9.81	5.75	5.50
11	210,000	315,000	10,000	.120	11.75	5.94	6.50
13	333,000	500,000	8,000	.140	13.56	7.63	7.75
15	500,000	750,000	8,000	.160	15.56	7.81	9.00



#### Coupling Data - NCS Series

Coupling Size	Max. Cont. Torque (in lb.)	Peak Torque (in lb.)	Rated Speed (RPM)	Max. Axial Travel (in.)	Coupling O.D. (in.)	Shaft to Shaft Min. (in.)	Bore Diam. Max. (in.)
7	53,000	80,000	10,000	.050	7.12	12.88	4.00
9	120,000	180,000	10,000	.090	9.81	13.75	5.50
11	210,000	315,000	10,000	.120	11.75	14.63	6.50
13	333,000	500,000	8,000	.140	13.56	15.50	7.75
15	500,000	750,000	8,000	.160	15.56	16.38	9.00

\*Note: All torque ratings at .25° misalignment and maximum axial travel.

## Ameridrives' Couplings

PO Box 4000 Erie PA USA 16512 4000 Tel 814 480 5000 Fax 814 453 5891 www.ameridrives.com Ameriflex Diaphragm Couplings Amerigear Gear Couplings Amerigear Mill Spindles Americardan Universal Joints

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Custom Engineered Drives

Contact your nearest representative.

