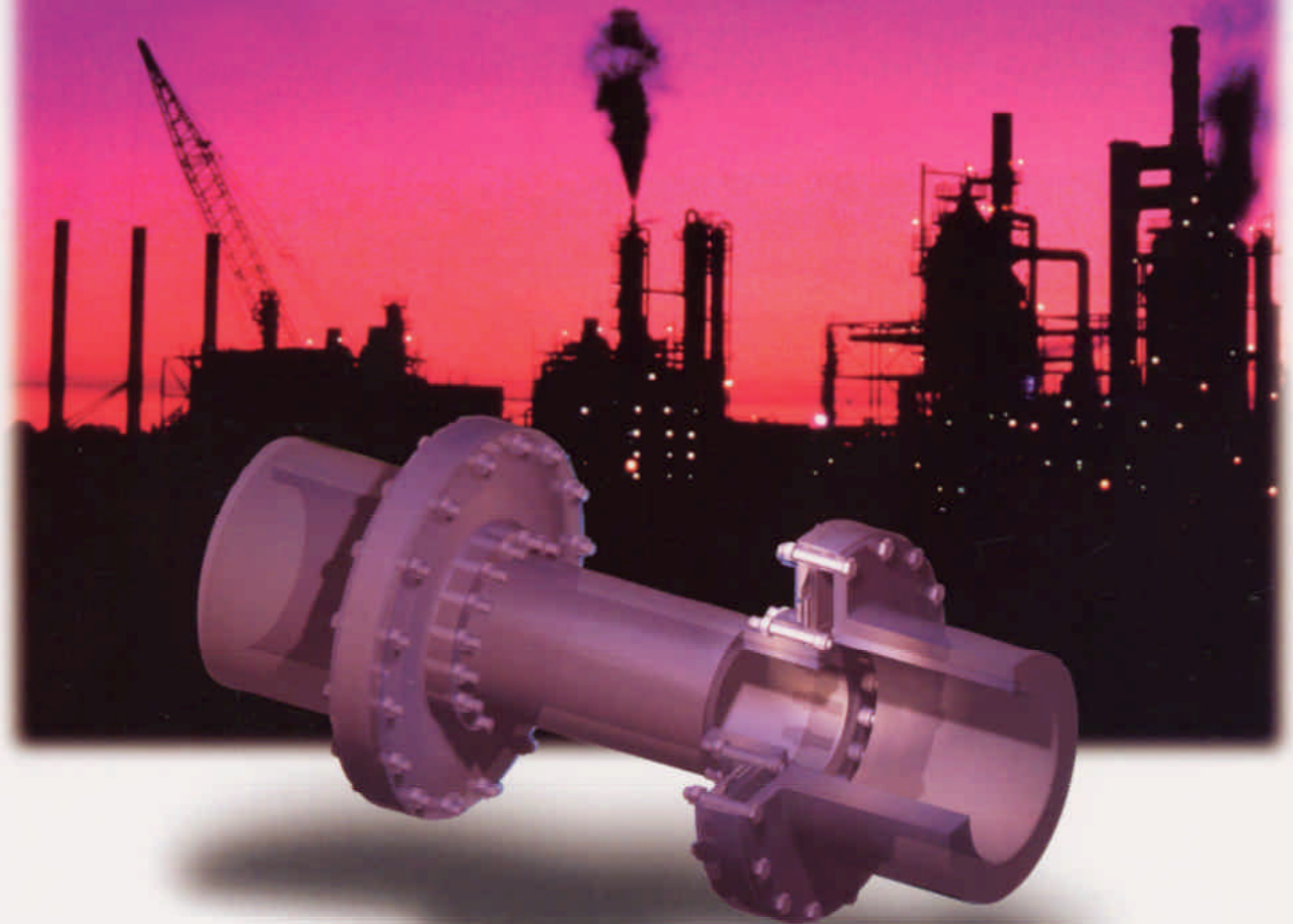


Ameriflex[®] Diaphragm Couplings



Series NC
For High Performance Applications

Ameridrives[®] Couplings

Boston

Ameriflex®

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 1

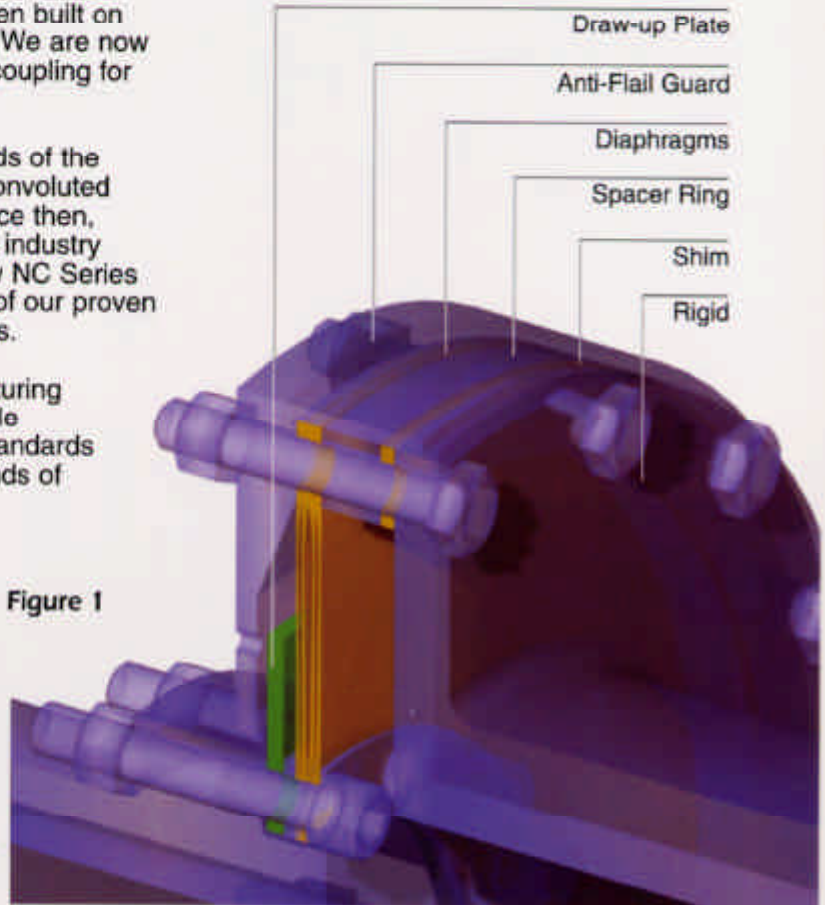


Figure 2

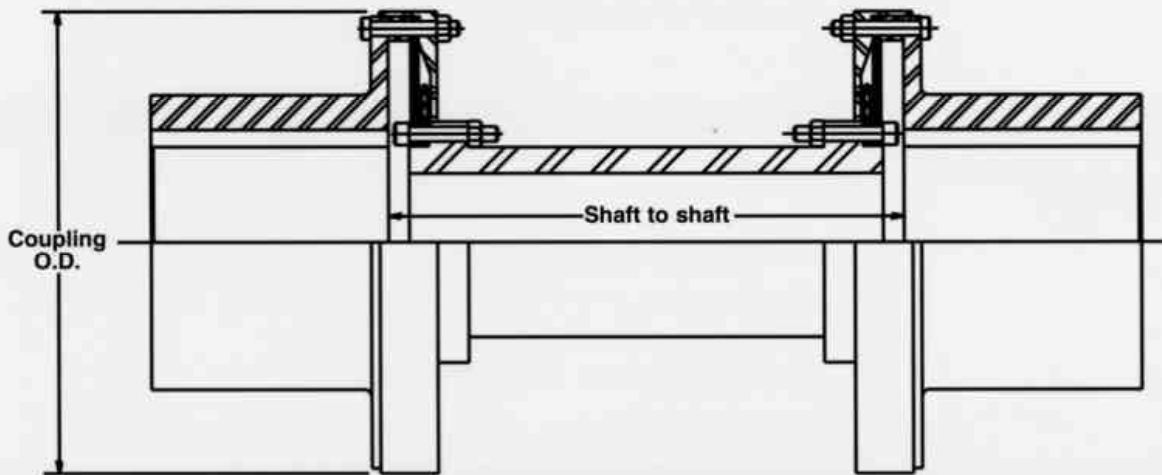


Ameridrives International
Coupling Products



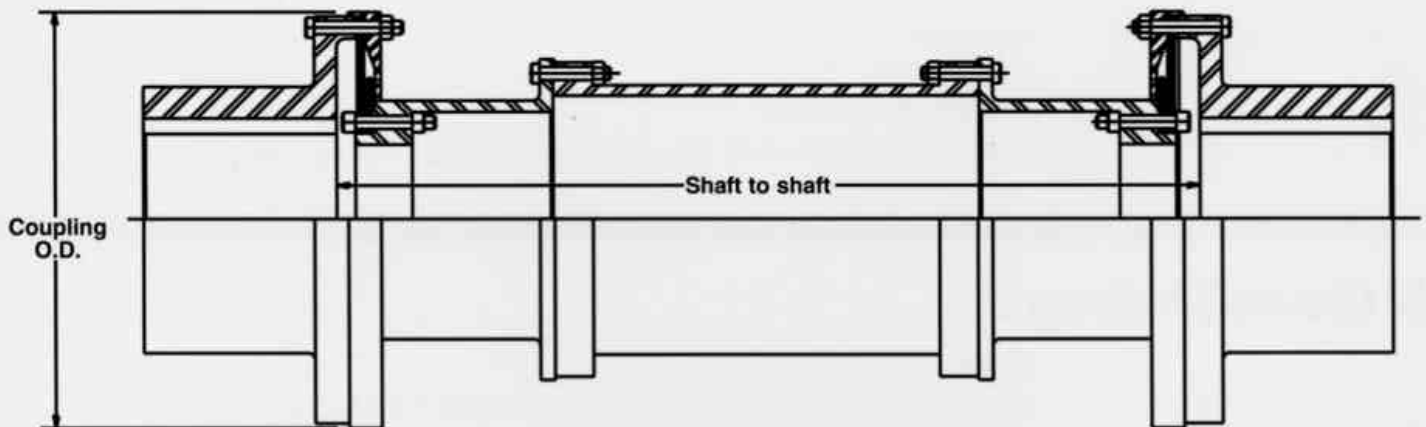
Member: API
AGMA
PTRA
PTDA

Caution: Rotating equipment is potentially 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 International recommends a 1.0 service factor for constant torque applications, 1.5 for motor driven applications, and 2.0 for moderate torque fluctuations. API-671 recommends a 1.5 service factor for flexible element couplings.

Ameridrives® Couplings

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