

Ameridrives High Performance Couplings





AMERIDRIVES COUPLINGS

Ameriflex Diaphragm Coupling

Since its introduction in 1971, the Ameriflex multiple convoluted diaphragm coupling has continued to set new standards for life and reliability in high performance machinery applications. Today, by using the latest design and manufacturing technology, Ameridrive Couplings is able to offer increased diaphragm coupling performance without compromising this outstanding reliability.

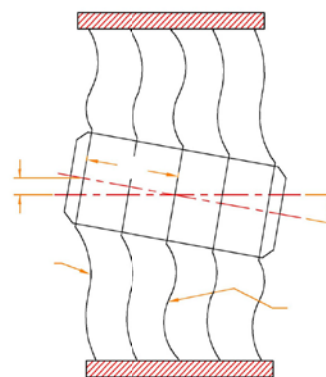
Advanced analysis and manufacturing processes have produced increased ratings without reducing safety factors. The use of the latest finite element analysis methods verified by strain gage and dynamic testing has allowed for a more precise calculation of the Ameriflex diaphragm stresses.

Features

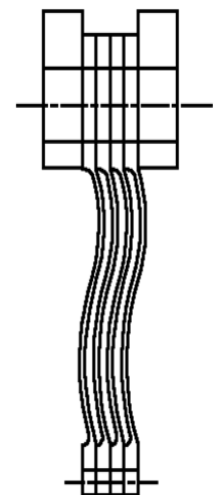
- High torque to weight and diameter ratio.
- Flex element sub-assemblies are field replaceable.
- Diaphragms are 15-5 PH stainless steel.
- Diaphragms are designed for infinite life using FEA verified testing.
- Customized designs are available for unique applications.
- Multiple separated diaphragms provide a built-in, fail-safe feature.
- Diaphragms are shot-peened for improved fatigue strength and stress corrosion resistance.
- Diaphragms capable of operating in extreme environments without protective coatings.
- All Ameriflex couplings are manufactured to API-671 requirements.
- Maintenance free for years of dependable performance.
- Black oxidized, heat treated, alloy steel torque transmitting components are standard.
- Low bending moment and axial force while maintaining high torque capacity, resulting in lower bearing loads.

Typical Applications

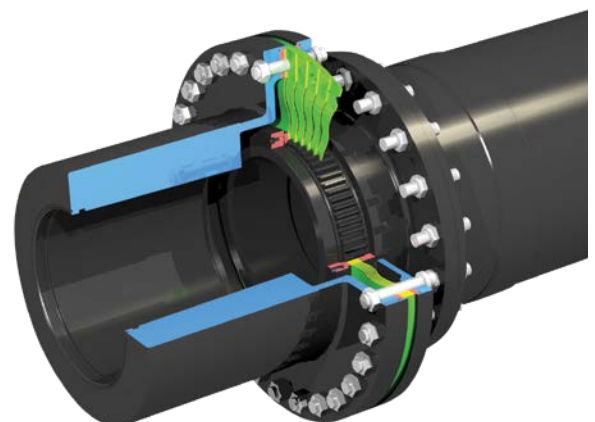
- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platform
- Pipelines



**Thin Convoluted
Diaphragm**



**15-5 PH Stainless
Diaphragm Pack**





AMERIDRIVES COUPLINGS

Ameridisc High Performance Disc Coupling

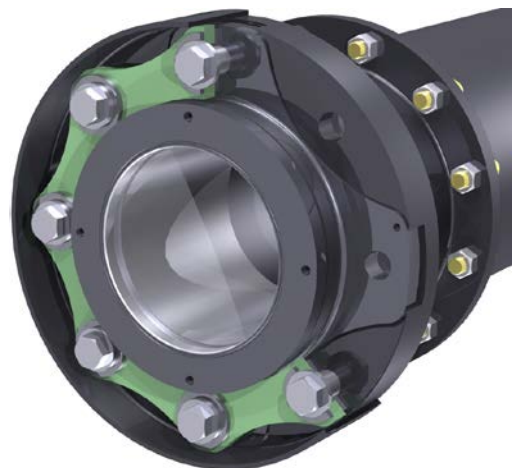
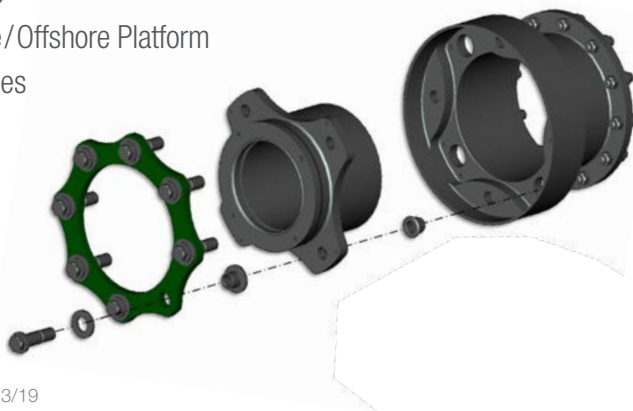
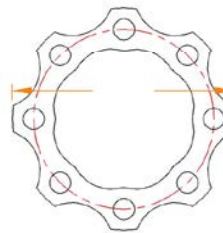
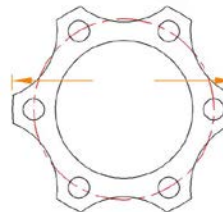
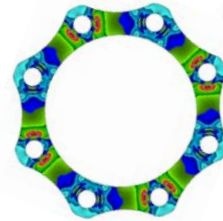
Introduced in 2005, the Ameridisc coupling was developed using advanced FEA with strain gage verification. Considered the most technically advanced disc coupling offered, it provides reliable performance for critical turbomachinery applications. It is particularly suited for high speed, turbocompressor trains where a lightweight, reduced moment design is required to meet rotor dynamic issues.

Features

- Multi-scalloped, optimized disc profile results in even stress distribution.
- Proprietary disc coating to prevent fretting and corrosion.
- Custom pack fasteners allow for an optimized bolted connection.
- Finite Element Analysis (FEA) on all components including discs.
- Complete static and dynamic strain gage verification of FEA Ameridrives Research & Development Laboratory.
- Designed for API-671 & ISO 10441 compliance.
- No lubrication for maintenance free operation.
- Discs available in Inconel and 301 Stainless Steel.
- Improved dynamic balance.
- Low bending and axial reaction loads.
- Designed to operate at full ratings simultaneously.
- Industry leader in power density and bore capacity.

Typical Applications

- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platform
- Pipelines



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