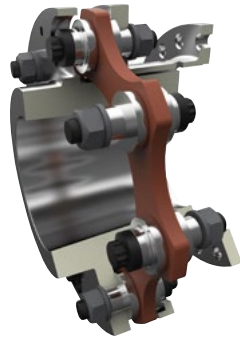


HIGH PERFORMANCE DISC COUPLING 2.0

FOR THE OIL & GAS INDUSTRY

INTRODUCING HPD2.0

Kop-Flex® high performance couplings have been supplied to the global oil and gas industry for over 30 years and have amassed over 1 billion hours of reliable operation in API 671 applications. Leveraging this experience, the next generation of disc coupling was developed to enable continued improvements in the turbomachinery equipment. Gas turbines and compressors are being designed for increased efficiency by leveraging smaller form factors and higher speeds, creating rotordynamic challenges. To achieve the best weight and power density possible, a more compact coupling was designed and optimized for the torque requirements of the application. Building on our foundation of reliability, safety and exceptional performance, the Kop-Flex High Performance Disc Coupling 2.0 was created for your highly engineered equipment.



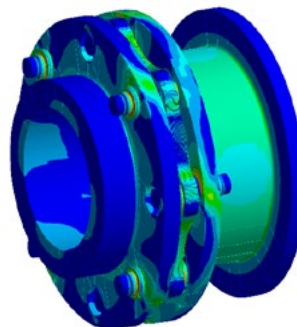
ADVANTAGES

- Optimized disc geometry improves stress distribution and reduces reaction loads
- 15-30% weight reduction compared to our previous generation coupling
- Lowest overhung moment available
- Reduced coupling diameter decreases windage effects
- 22 sizes available to align with common inch and metric shafts
- Weight reduction decreases imbalance forces on equipment

The next generation Kop-Flex disc coupling is an evolutionary design developed using cutting edge analysis tools and techniques, including:

- Advanced finite element analysis
- In-house static and dynamic testing
- Fatigue life testing

Development leveraged our in-house R&D facility, which includes state-of-the-art test stands and precision instrumentation specifically designed for the development of next generation coupling products. Analysis and testing complexity ranged from individual components to complete couplings to determine the product ratings met requirements. These improved analysis techniques enable technical details and in-depth analysis of application specific designs to be delivered quickly and confidently.

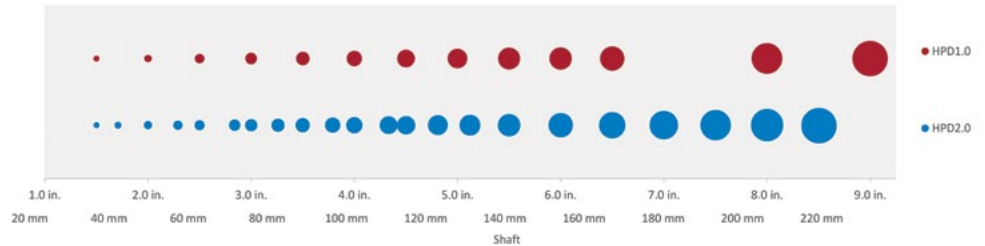


HIGH PERFORMANCE DISC COUPLING 2.0.

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OPTIMIZED COUPLING SELECTION



Shaft diameter drives the selection of reduced moment couplings for most high speed equipment. The product line was designed with 22 sizes to match the most common inch and metric shafts, providing an optimized coupling selection for each application. The Kop-Flex High Performance Disc Coupling 2.0 is designed to be the lightest coupling available on the market, enabling the highest performance in critical applications.

SELECTION EXAMPLE

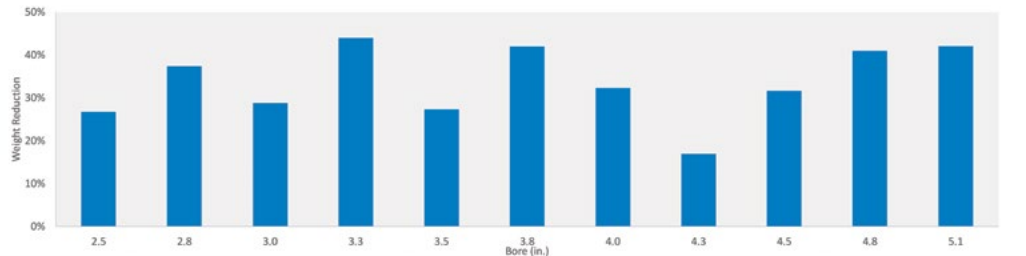
Compressor train for top oil and gas producer's offshore project:

Application Info		
Equipment	Gearbox to Compressor	
Driver Rated Torque - lb-in (Nm)	28,000 (3,164)	
Max Continuous Speed (RPM)	13,000	
Coupling Details	Previous Generation	Disc Coupling 2.0
Spacer Material	Titanium	Alloy Steel
Max OD - in. (mm)	6.56 (166)	5.86 (149)
Driving Half Weight - lb (kg)	17.1 (7.76)	14.6 (6.62)
Driven Half Weight - lb (kg)	17.1 (7.76)	14.6 (6.62)

The Kop-Flex High Performance Disc Coupling 2.0 selection enabled the customer to use a more cost-effective alloy steel spacer while still achieving a 15% weight reduction and meeting all application requirements.

LIGHTEST WEIGHT COUPLING

Average weight reduction of over 30% compared to the previous generation.



KOP-FLEX®

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APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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