



SAPIT *flex*®

GIUNTI DI TRASMISSIONE DI POTENZA

POWER TRANSMISSION COUPLINGS



DISC COUPLING
TYPE HSS - 6 - 8 BOLTS
API 671



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HSS - 6 Bolts - 8 Bolts

Sapitflex disc couplings are manufactured to meet the stringent API 671 (ISO 10441) standards in 6-bolts - 8 bolts versions, for torques from 350 KNm and speeds up to 30000 rpm.

Disc couplings compliant with API 671 standards are designed and manufactured according to sizing, production and control criteria aimed at ensuring a high level of product quality, i.e., such that they can be used and appreciated for high performance in terms of power and torque transmitted, high rotational speed, reliability and mounting precision.

FEATURES

- Project design for each specific application, designed to optimise the weight/performance ratio, ease of assembly and replacement of components
- Reduced bending moment with centre of gravity close to the support bearings
- Complete crankcase flanges executed to protect the bolts in order to improve aerodynamics for high-speed rotations and thus eliminate turbulence and limit heat generation and noise
- Selection and control of materials with the highest quality to meet the expected stresses
- Accurate machining of individual components and in-phase dimensional control for adherence to expected tolerances;
- Assembly with particular attention to interference fits for correct assembly and subsequent reassembly
- Balancing of individual components and the assembly with precision balancing machines in accordance with API 671 (ISO 10441) method 1-method 2-method 3.
- Thus providing a quality product valued by customers and ideal for demanding applications such as Turbines, Compressors, Turbochargers, Process Pumps.

DESIGN

The coupling in the standard low-moment version consists of two assemblies at the ends made up of a hub-disc pack-spacer; the disc pack is fastened to these components with calibrated high-strength screws and self-locking nuts with metal inserts. A central spacer is installed between these assemblies. Shims for axial adjustment are supplied

with the coupling in the case of finished hubs with a tapered bore.

- The coupling in the standard version is also manufactured with flanges, or with adapters and standard or oversized hubs.

MATERIAL

- Disc packs: highly elastic and corrosion-resistant AISI 301 high spring steel.
- Hubs, Adapters and Spacer: alloy steel with heat treatment for hardening and tempering
- Bolts class 12.9, nuts class 12.

SURFACE PROTECTION

- Manganese Phosphating

OPTIONS

- Electrical insulation, limited axial clearance, axial adjustment shims
- ATEX 2014/34/U

