

Disc coupling pdf

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For many ades engineers have • Shrink disc hub connection Alloy steel materials ATEX II 2GD c T6 Design Features include: Available instandard sizes and,, andbolt designs to deliver optimal Missing: pdfA disc coupling exists at least of hubs and disc pack and bolt kit. with a spacer, the amount of Rexnord® Thomas® Flexible Disc Couplings Overview A flexible coupling is a device used to connect the ends of two shafts, transmit torque, and at the same time, accommodate Missing: pdf INDUSTRIAL DISC PACK COUPLINGS. Vertical kits and vertical spacer kits might also be needed. Maintenance-free and torsionally stiff connecting elements for smooth stable running. Sizes (4 bolt holes) Sizes (6 bolt holes) Sizes (8 bolt holes) Torque is transmitted in tension through the driving chords designed to meet industry standard lengths, and two unitized disc packs. Some of the applications in which Flexible Disc couplings can be used are For details refer to table Table Disc coupling series designation Type Description Bolt Bolt Bolt Single disc Standard W4 – – XTSR Disc Packs All XTSR couplings feature unitized disc packs in,, orbolt variety (depending on size) and scalloped profile for optimal torque transmission. A disc coupling transmits torque through a stack of steel laminates. These laminates act as rigid discs in the torque transmission plane but flex like a k of Disc coupling misalignment For the single configuration disc couplings, parallel offset is not permissible. In order to make a disc coupling with a low restoring force, ideally the disc laminate stack should be very thin. The number of required disc pack and bolt kits depend on coupling type. However, in order to transmit torque and have a stable bolted joint, the disc laminate Flexible Disc couplings can be used in a wide variety of applications from general industrial equipment to high speed precision machines. The coupling is available in and bolt designs and bore sizes up to inches (mm) on the largest size Here are some competing factors in designing a disc coupling and how manufacturers can address those challenges Total disc stack thickness. When using double disc pack, i.e. The coupling has two flex planes, one at each disc pack, allowing this coupling to accommodate parallel, angular, and axial misalignment with specified limits. They are one of the most versatile coupling designs and can be customized to meet the de-mands of almost every application.

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