

WP0339

Dodge® Grid-Lign Coupling: Beyond Catalog Interchangeability

Dodge Application Engineering

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Quickly locating and attaining a replacement coupling represents a logistical hurdle during unplanned downtime. In order to maximize Dodge’s service and inventory availability, Dodge Grid-Lign couplings are interchangeable with Rexnord Falk Steelflex couplings. While abundant Tier One couplings showcase catalog interchangeability, Dodge addresses interchangeability on a component level and has validated the performance through life testing.

To ensure interchangeability in the harshest applications, both Dodge and Rexnord couplings have been verified at elevated torque and maximum combined angular as well as parallel misalignment. As a result of extensive testing across the product line, Figure 1 through Figure 7 illustrate compatibility. The blue highlighted regions are interchangeable assemblies with non-highlighted regions.

For close coupled grid couplings, sizes 1020 – 1200, the elements and hubs are functionally interchangeable. Figure 1 illustrates interchanging the hubs and Figure 2 illustrates interchanging the element.

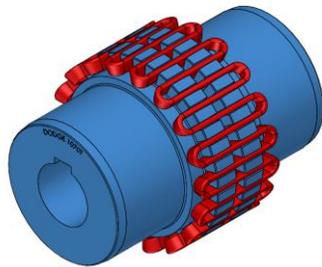


Figure 1: Interchanging Hubs

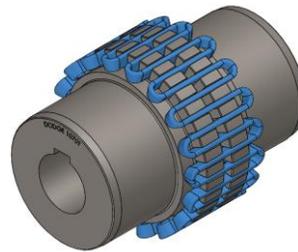


Figure 2: Interchanging the Element

For close coupled and spacer grid couplings, sizes 1020 – 1200, the cover assemblies are functionally interchangeable. Figure 3 illustrates the interchangeability of the cover assemblies. The cover assembly includes: gaskets, seals, cover halves, and hardware. To maximize sealing in extreme misalignment, the Grid-Lign’s quad ring seals are not interchangeable alone. Therefore all components within the cover assembly should be from the same manufacturer.

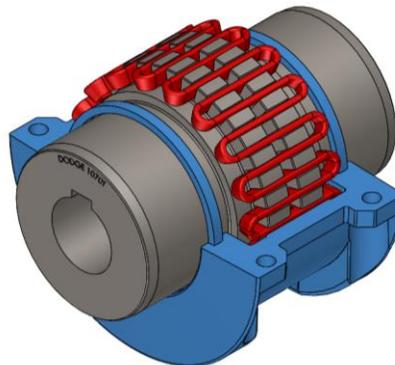


Figure 3: 1020 - 1200 Cover Assembly Interchangeability

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For T31 and T35 spacer grid couplings, sizes 1020 – 1200, the hub assemblies, elements, and cover assemblies are functionally interchangeable. Figure 4 and Figure 5 illustrate T31 spacer interchangeability. Figure 6 and Figure 7 illustrate T35 spacer interchangeability. Due to the high precision of spacer flange retention and balance features, T31 and T35 shaft hubs and spacer flanges are not interchangeable alone. Therefore when interchanging hubs, both shaft hubs and spacer flanges should be from the same manufacturer.

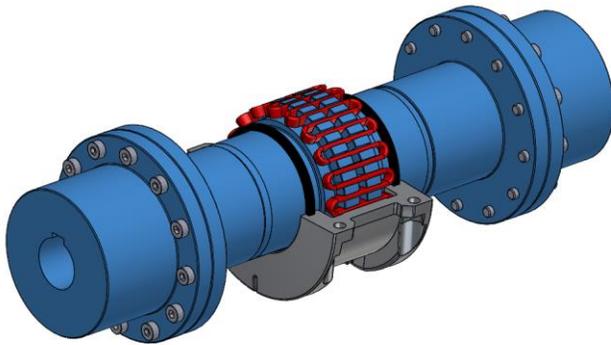


Figure 4: Interchanging T31 Hubs

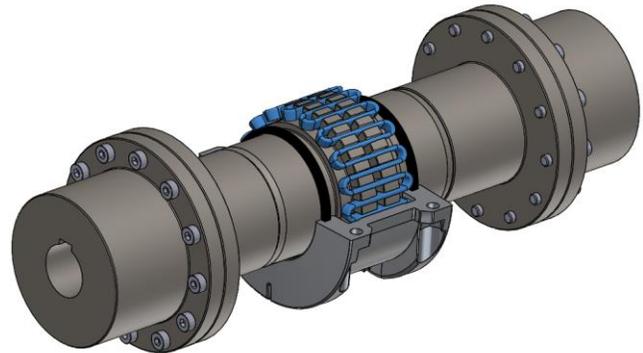


Figure 5: Interchanging the T31 Element

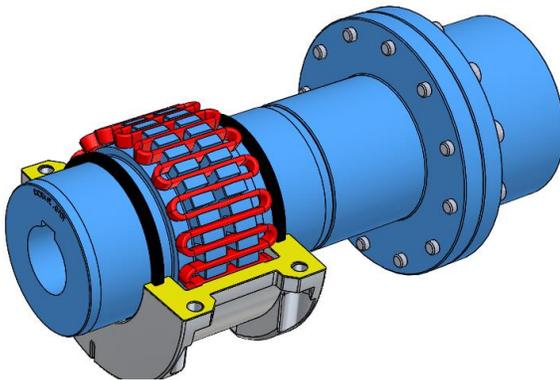


Figure 6: Interchanging T35 Hubs

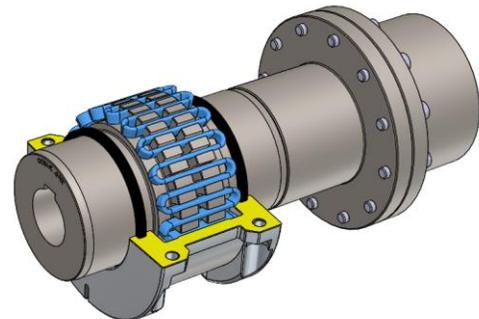


Figure 7: Interchanging the T35 Element

By validating interchangeability through performance, Dodge can support quick installations through Dodge certified distribution inventories and highly responsive customer service. For additional information or questions related to the interchangeability of the Dodge Grid-Lign coupling, please contact Dodge Application Engineering.

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