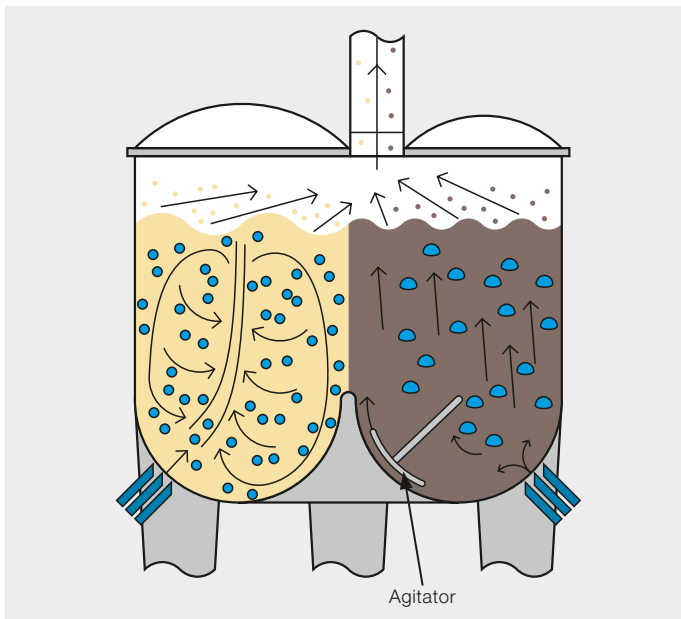


## Mechanical power transmission products for bottom injection chillers

Fast and efficient chilling is critical in many food production applications. In bottom injection chilling, liquid nitrogen or liquid carbon dioxide is injected from below to cool the product, and eventually evaporates out of the top as it warms. An agitator is used to mix or blend the coolant with the food product in order to increase the speed, uniformity and efficiency of the chilling process.

Harsh washdown requirements in food processing areas mean difficult operating conditions for equipment like the speed reducer that drives the agitator. There are often reliability issues with reducers that are not specifically designed for this environment.



### Dodge® Tigear-2 E-Z Klean® Reducers

ABB has supplied Dodge® Tigear-2 E-Z Klean reducers to replace OEM reducers that have proven unreliable. These single-reduction, right-angle worm speed reducers offer maximum washdown protection. The totally enclosed ventless sealing system contains a factory filled synthetic lubricant, providing cooler running and eliminating the need for routine oil changes.

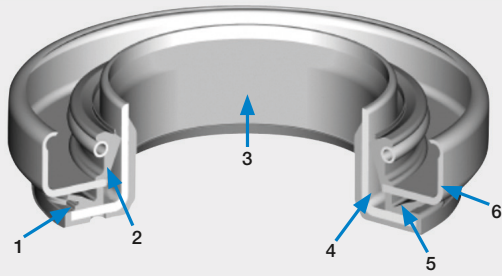
A 13-step coating system gives Dodge® Tigear-2 E-Z Klean reducers excellent corrosion resistance.

### Main specifications

- Offered in sizes 13 through 35.
- Both Quill and 3-Piece Coupled input, solid or hollow output configurations.
- Ratios from 5:1 to 60:1.
- 13-step coating system.
- Two-piece harsh duty output seals.
- Factory filled H1 food grade synthetic lubricant.

### Key benefits

- Coating system provides high corrosion resistance – three times better than standard epoxy painted units.
- Special output seals protect against high pressure sprays and sanitizing solutions.
- No need for routine oil changes - 'install and forget'.
- Available with stainless color top coat or white finish.



- 1 – Axial sealing lip for superior water and contamination exclusion
- 2 – Wave Seal with optimized contact pressure for reduced heat generation and wear
- 3 – Rubber ID sleeve for ease of installation and corrosion protection
- 4 – Axial bumper to insure proper loading on axial lip
- 5 – Grease packed for extended life
- 6 – Stainless outer diameter seal case

Dodge® Tigear-2 E-Z Kleen reducers feature harsh duty seals for maximum ingress protection and long life.

## Full range of products for food processing applications

ABB's offering for the food and beverage industry ranges from high performance servo motors and drives to washdown duty motors and power transmission products. These products are corrosion-resistant and designed for easy cleaning and maintenance.

All ABB products for the food processing sector are backed by industry-focused engineers trained to analyze and solve customers' problems. By taking a Total Cost of Ownership approach and working with the customer, ABB's team enables customers to maximize efficiency, identify and eliminate waste, reduce unplanned downtime, and increase overall productivity.

For more information please contact:

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