

# BioDisc



## The world's leading shaft-mounted reducer solution for wastewater applications

The BioDisc reducer has been the most reliable, heavy-duty solution for the wastewater industry for more than 35 years.

Featuring corrosion-resistant paint, bushings, and tie rods along with harsh-duty breathers and seals, it offers unmatched performance and superior durability.

The BioDisc design is based on the original Dodge® Torque-Arm belt-driven speed reducer. An industry standard for more than 70 years, there are more than two million Torque-Arm gear reducers in service worldwide.

### Durable design

- American Gear Manufacturers Association (AGMA)-rated design
- Harsh-duty paint and seals are ideal for use in wastewater environments
- Hydra-lock breather system keeps moisture and contamination out of the gearbox
- Twin-tapered bushings and tie rod are corrosion-resistant
- Twin-tapered bushing system eliminates fretting corrosion and allows for trouble-free removal

### Proven performance

- Heavy-duty tapered roller bearings designed to last at least 100,000 hours
- Dual-power path offers superior torque
- High-efficiency, carburized, helical gearing for rugged operations

### Minimize operation cost

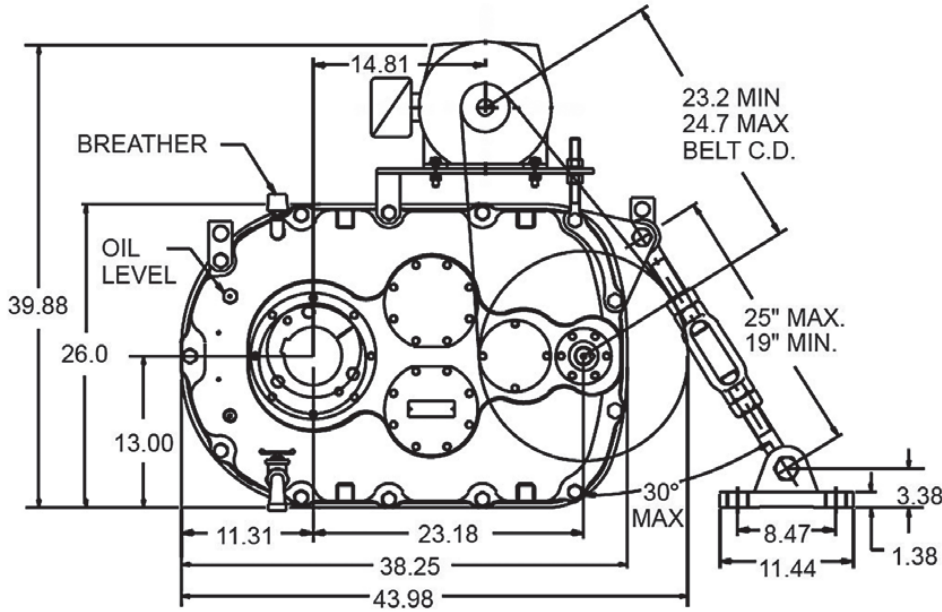
- Factory filled with premium lubricant
- Reduced maintenance requirements maximize uptime
- Predesigned drive packages eliminate the need for ordering individual sheaves, bushings, and belts
- Installation of the twin-tapered bushing system requires traditional hand tools only

### Application flexibility

- Operates as either a 5-horsepower, class two or 7.5-horsepower, class one offering 1.5 rpm output speed to run biological disc designs using 1,150 rpm motors
- Universal drive design can be left- or right-hand mounted to meet application needs

# Specialized solution with proven performance to maximize uptime and lower total cost of ownership

## Dimensions



## Fiberglass belt guard

- Molded to fit the V-belt drive profile
- Easier to assemble and maintain
- Heavy-duty, corrosion-resistant design
- Compact size for better fit in tight spaces



## Part numbers

259168	BioDisc drive gearbox and accessories*
BIO DR KIT	BioDisc V-drive kit**
963763	188D universal metal belt guard
966987	188D fiberglass belt guard assembly
ECP3768T	Class 2 motor – 5-horsepower, 1200 rpm***
ECP2276T	Class 1 motor – 7.5 horsepower, 1200 rpm***

\*includes gearbox, bushings, motor mount, tie rod, and breather

\*\*includes bushings for class 1 and class 2 motors in 210 and 250 Nema motor frames

\*\*\*Nema premium efficient, severe-duty XEX design



## Dodge Industrial, Inc.

1061 Holland Road, Simpsonville, SC 29681

+1 864 297 4800

[dodgeindustrial.com](http://dodgeindustrial.com)

Dodge Industrial, Inc. reserves all rights in this document and in the subject matter and illustrations contained therein. We reserve the right to modify contents without prior notice and do not accept responsibility for potential errors or possible lack of information in this document. Dodge Industrial, Inc. Terms and Conditions apply. Any reproduction, disclosure to third parties or utilization of its contents—in whole or in parts—is forbidden without prior written consent of Dodge Industrial, Inc.

© Copyright Dodge Industrial, Inc. All rights reserved. Specifications subject to change without notice.  
An RBC Bearings company.

FL2IH01-09.22