

## High Performance in High-Torque Situations

### The Valley, Heavy-Duty Gearbox



Without the gearbox, your irrigation machine can't move, and the original Valley<sub>®</sub> Gearbox lasts three times longer than competitor gearboxes. The Valley Heavy-Duty Gearbox is even better.

The differences between the Valley gearbox and our Heavy-Duty Gearbox may not be ones you can easily see, but the bronze bull gear and high-strength steel worm gear give it greater load capacity. So you'll experience the difference with peace of mind in the heat of growing season, when your irrigation machines run when they're supposed to, regardless of terrain or torque.

#### **Recommended for**

- Rough terrain
- Linear carts (comes standard) \*
- Corner machines (comes standard)
- High-torque/increased-load situations

\* except for Rainger Carts (comes with Heavy-Duty Extended Neck Gearbox)

#### Features:

- Increased load capacity The Valley Heavy-Duty Gearbox will handle 30% more load. Extra load capacity is important with larger tires. More torque is required with linear carts and corners, especially corners with steerable drive units.
- Bronze bull gear 2.7x stronger than standard cast iron
- High-strength steel worm gear The recommended choice for bronze bull gears, a steel/bronze gear combination provides longer life in high-torque situations.
- Life span The Valley Gearbox last three times longer than competitors. Our Heavy-Duty Gearbox lasts SEVEN times longer.

**Optimize Yield** 

Save Time





# **High Performance in High-Torque Situations**

# On the outside, our Heavy-Duty Gearbox looks the same, but the difference is on the inside:

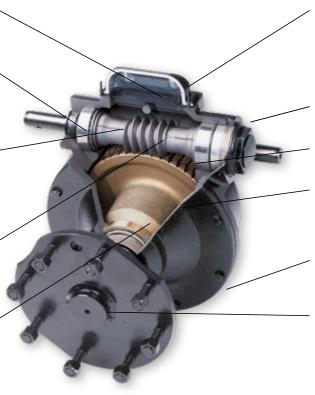
Large-capacity rubber diaphragm — Expands with heat and pressure to minimize water condensation

Input and output bearings — American made and case hardened to provide the highest quality and load rating available in the industry

Worm gear — The Valley Heavy-Duty Gearbox comes with a high-strength steel worm gear, the recommended choice to go with bronze bull gears, for longer life and greater load capacity.

**Tooth design** — Industry-exclusive 25° tooth angle provides 40% longer life and better reliability in tough conditions compared to normal 14½° tooth designs

Largest bull gear neck and keyway — For strength in critical load-bearing area



Expansion chamber — Cap made of corrosion resistant cast aluminum; rubber diaphragm allows oil to expand and contract during operation. Vented cap prevents pressure buildup, prevents seal from leaking.

**Threaded endcap** — Allows accurate bearing preload to increase bearing life

**52:1 gear ratio** — Full recessed tooth design keeps oil between engaged gears.

**Bull gear** — The Valley Heavy-Duty Gearbox is constructed with a bronze bull gear, even stronger than cast iron for high-torque conditions.

Multi-viscosity gearbox oil — Exceeds 85w140 GL5 oil for long gear wear under extreme load conditions.

Longest output shaft (steel) — Exclusive to Valley gearboxes. Provides extra clearance between the gearbox and wheel flange, reducing mud buildup, resulting in reduced seal damage and extended gearbox life. Special offset rims position the tire back close to the gearbox to minimize bearing loads ... another Valley exclusive.

**Heavy Duty** 

### The Valley Heavy-Duty Gearbox: It's even better than the best.

The ultimate durability of the Valley Heavy-Duty Gearbox has not been determined ... **because it exceeds our test limits.** 

Contact your Valley Dealer today to learn more about the Valley Heavy-Duty Gearbox, the gearbox that lasts seven times longer than any non-Valley gearbox available.

