



Challenge WEDGEROCK with your application...we haven't found a torque, thrust or environment we can't handle.



wedgerock.com | info@wedgerock.com



Cylindrical Worm Minimal Teeth in Contact



Double Enveloping WEDGEROCK Worm 2 to 3 Times More Teeth in Contact



Single Start Standard Efficiency Worm Gear Inherently Self-Locking Less Than 35% Efficient



Multi Start High Efficiency Worm Gear Self-Locking Using Patented PolyLock Clutch Greater Than 65% Efficient

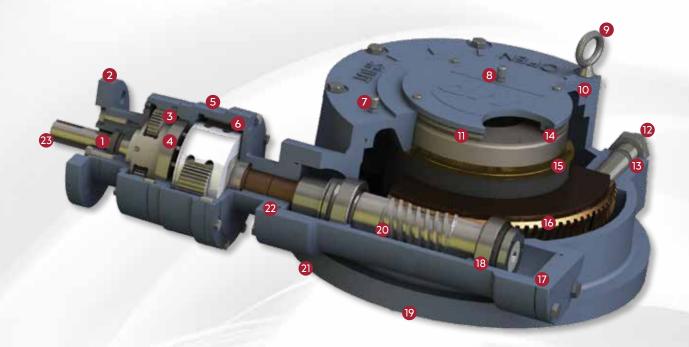
Performance Comparison to Standard Worm Gear

				Turns to Close		Reduction in Turns	
	Valve Size [in]	Torque w/ SF [in-Lbs.]	Handwheel Diameter [in]	Break Rim Pull [Lbs.]	Conventional Competitor	WEDGEROCK Worm Gear	WEDGEROCK Worm Gear
	24	180,000	36	⟨80	154	73	2.2 X
	30	325,000	36		226	79	2.9 X
	36	475,000	36		305	120	2.6 X



WEDGEROCK: Better Design

Better Materials



- 1. Redundant Dynamic Seals
- 2. Manual or Motorized
- 3. Seal
- 4. Self-Locking Mechanism
- 5. Auxiliary Planetary Spur
- 6. Seal
- 7. Pressure Relief Vent
- 8. Pressure Relief Vent
- 9. Lifting Eyes
- 10. Seal
- 11. Redundant Dynamic Seals
- 12. Adjustable Stops from 80° to 100°

- 13. Seal
- 14. Seal
- 15. Bronze Bearing
- 16. Bronze Worm Gear
- 17. Seal
- 18. Roller Bearing
- 19. Machined for Direct Mount
- 20. Worm
- 21. Ductile Iron Housing
- 22. Seal
- 23. Corrosion Resistant Input Shaft

WEDGEROCK Benefits

- · Standard Efficiency and High Efficiency
- · Extends Size and Class of Manual Valves
- · Fewer Turns to Close/Lower Input Torque
- · External Anti-Back Drive Configurable to Application
- Designed for Submerged Service Surpasses IP68
- · Nearly Zero Backlash for High Resolution Control

WEDGEROCK

When Performance and Quality Matter

OUR MISSION

WEDGEROCK provides performance engineered actuation solutions for demanding applications.

ABOUT WEDGEROCK

The WEDGEROCK name and logo symbolize the elegance of a simple and effective design and the grit, focus and determination required to make things happen – the work required to get big things moving. Pragmatism and hard work are central to our culture and reflected in everything we do.

Don't let our dirty hands and old school approach fool you. WEDGEROCK brings industry leading innovation to your engineered projects in standard lead times.

With a focused approach, WEDGEROCK provides solutions for the most demanding torque and thrust application. Whether you need to operate valves thousands of meters below the ocean surface, or a purpose designed gear operator for your valve line, give us a call or drop an email to get the partnership started.





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