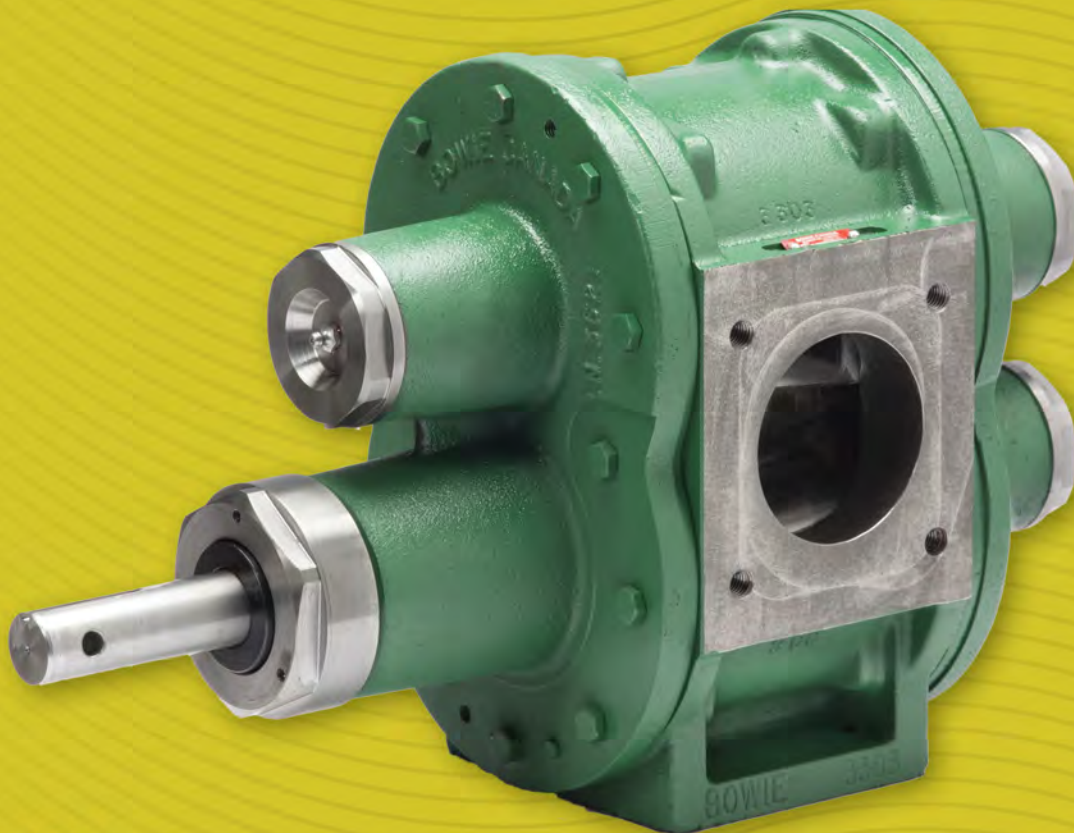


ULTRA-SEAL® SERIES BUILT FOR THE LONG HAUL.



BOWIE'S PREMIUM PERFORMANCE, LONGEST LASTING PUMPS.

Bowie's top of the line Ultra-Seal® pumps. These multi-sealed, all-bearing design pumps are the ultimate choice for longer pump life, maximum leak resistance, top flow volume and superior value.



OUTPERFORM. OUTLAST.

FOR THOSE WHO ONLY INVEST IN THE BEST.

Sometimes good is not good enough. Sometimes second best isn't up to the test.

Bowie's Ultra-Seal® series of rotary gear pumps incorporates our premium pump technology. Engineered for situations where other pumps just can't cut it.

What differentiates the Ultra-Seal® Series is a **multi-sealed all-bearing design. No bushings. No packing seals. No compromise.**

ULTRA-SEAL® PUMPS – IN A CLASS OF THEIR OWN

Pump Design	Sealing Components			Bearing Components		Pump Life	Leak Resistance	Flow Volume	Overall Value
	Packing	Lip Seal	Mechanical Seal	Bushing	Bearing				
Multi-Sealed, All-Bearing Design	X	✓	✓	X	✓	●●●●	●●●●	●●●●	●●●●

● Average ●● Above Average ●●● Exceptional

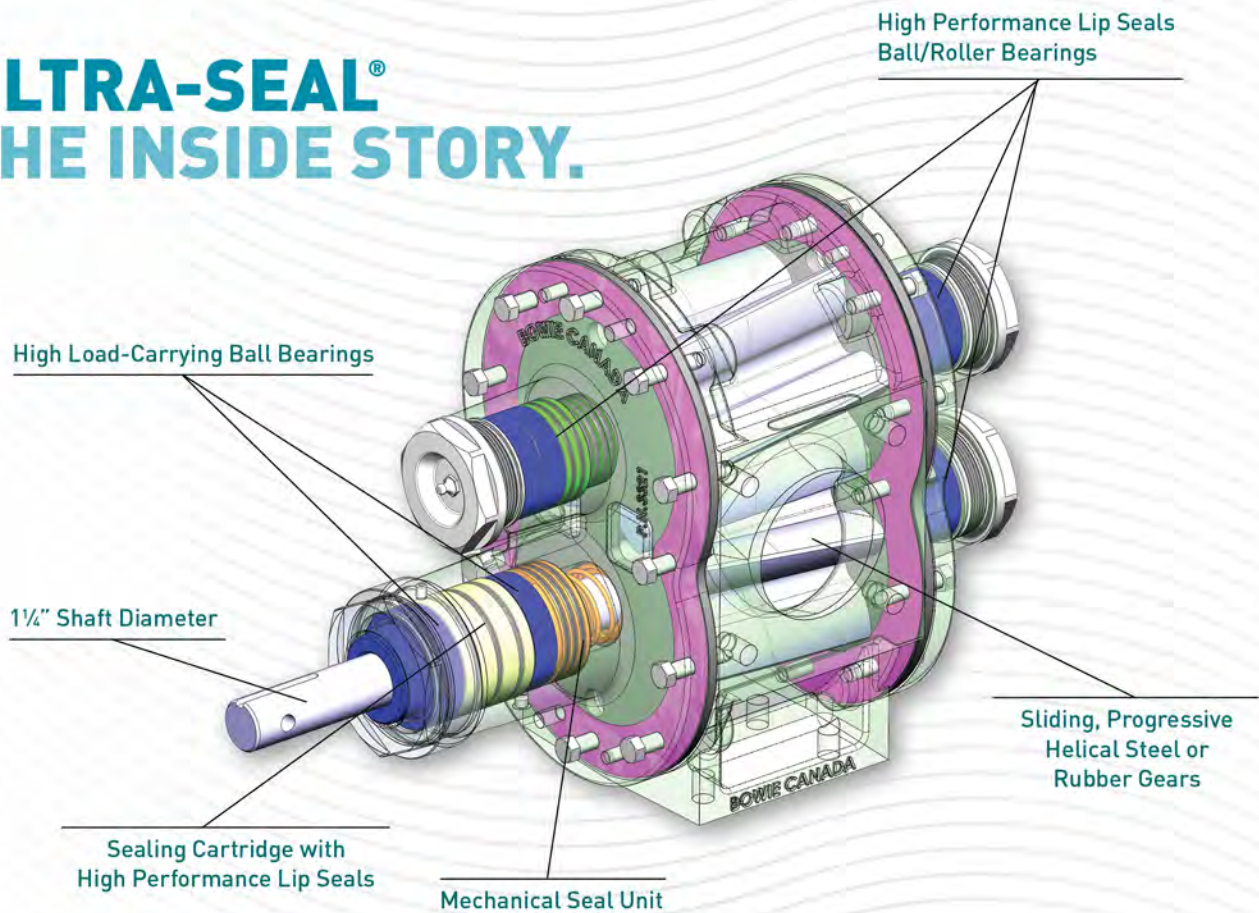
THE ULTRA-SEAL® ADVANTAGE.

- Maximum pump life:** This multi-sealed, all-bearing (ball/roller) pump is designed to outlive any combo-style pump.
 - Advanced engineered bearings, distributed in a balanced configuration, to reduce friction and wear.
 - Larger diameter, shorter shafts handle greater loads with superior resistance to deflection and breaking.
 - High performance seals last longer under tougher operating conditions.
- Unmatched protection against leakage:** The Ultra-Seal® offers **the ultimate in leak resistant performance**, critical on **environmentally sensitive job sites** with zero tolerance to leakage.
- Top rated flow volume:** In side by side tests, a 4" Ultra-Seal® with progressive helical steel gears provided approximately **30% greater flow volume** than the competitor's 4 1/2" combo-style pump*. The Ultra-Seal® put out **615 gallons per minute at 700 RPM** compared to only 470 gallons per minute for the combo-style pump.
- Serviceability:** The sliding gear design drastically improves the ease of maintenance in both field and shop conditions.
- Superior value for the long haul:** The initial purchase price of a pump is a small part of its total life cycle cost.

Ultra-Seal® pumps are built with superior components and advanced engineering to ensure dramatically longer life, lower operating costs and minimal maintenance. As a result, the Ultra-Seal® represents tremendous value over the lifetime of the pump.

* Based on tests performed at Bowie Pumps of Canada Ltd. Data on file.

ULTRA-SEAL[®] THE INSIDE STORY.



TECHNOLOGY	KEY COMPONENTS	BENEFIT
Sealing Technology	Mechanical Seal on the front of the drive shaft.	The most advanced seal technology offering long life, minimal wear on drive shaft, minimal friction and power loss, no periodic maintenance and the highest leak resistance. Environmental and operator safety.
	High Performance Teflon [®] and Viton [®] Lip Seals placed in strategic locations on both the drive and idler shafts.	Multiple lip seals designed to offer the best combination of leak resistance for various conditions related to pressure, temperature, rotation speed and fluid materials. Environmental and operator safety.
Bearing Technology	Advanced engineered ball and roller bearings placed in a balanced configuration on both the drive and idler shafts.	Reduced rotational friction and superior balanced support reduces wear on the housing and gears for the longest possible pump life. Also offers additional sealing protection.
Shaft Design	Shorter and larger diameter shafts (1 1/4") compared to the industry standard diameter (1 1/8").	Thicker shafts allow for increased load without breaking. Shorter shafts results in decreased deflection of the shaft and longer seal and pump life.
Floating Gear Design	Drive and idler gears are sliding on their respective shafts for a more accurate and effective assembly.	Serviceability – ease of maintenance in both field and shop conditions; lower total cost of ownership.

WHAT YOU NEED TO KNOW ABOUT GEARS:



Ultra-Seal® Series pumps are available in two gear configurations:

1. Buna-N Synthetic Rubber Gears:

Our proprietary Buna-N rubber gears are the **longest lasting high strength rubber gears** on the market. They're everything you need for most applications.

2. Progressive Helical Steel Gears:

The unique twist angle of the helix and the innovative parabolic tooth profile make Bowie's progressive helical steel gears the top choice when you require longer pump life and maximum flow volumes.

These gears are recommended:

- Wherever **rubber is not compatible** or tends to break down prematurely (eg. concentrated acids, halogenated solvents/hydrocarbons).
- **High temperature, high pressure** operating conditions.
- **High volume output at higher RPMs.**

WHICH ULTRA-SEAL® SERIES PUMP IS RIGHT FOR YOU?

Requirements	2600	3600	4600
Maximum Flow Volume	●	●●	●●●
Buna-N Rubber or Progressive Helical Steel Gears	Yes	Yes	Yes
Gallons Per Minute Rubber Gears*	185	275	420
Gallons Per Minute Steel Gears**	290	440	660
Port Size	2"	3"	4"
● Average ●● Above Average ●●● Exceptional			

* Bowie's Buna-N Rubber Gears operating at 500 RPM.

** Bowie's Progressive Helical Steel Gears operating at 750 RPM.

Operating Criteria	Buna-N Rubber Gears	Progressive Helical Steel Gears
Max. Operating Temperature	70°C	160°C
Max. Rotation Speed	500 RPM	750 RPM
Max. Working Pressure	125 PSI	150 PSI

Major Component Options:

- **Bi-directional Pressure Relief Plate** for added protection of both equipment and operator.
- **Hydraulic Motor Drive Kit** for ease of installation and operator safety.

Additional Component Options:

- **Drive on Top or Drive on Bottom** configuration (on all models).
- **90° and 180° Configurations** (on all 3" and 4" pumps).

Bowie Pumps of Canada Ltd.

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Engineered and Manufactured in Canada!

