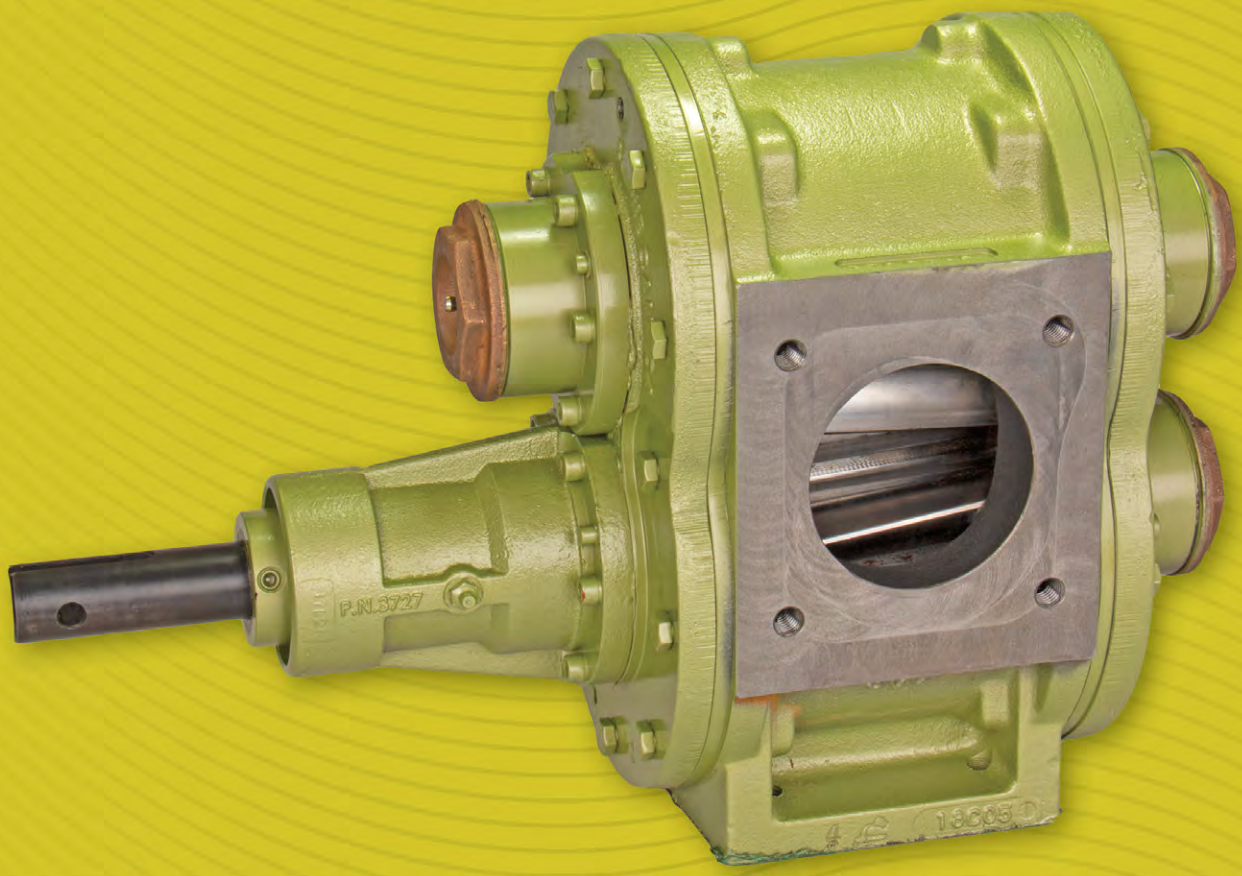
DURA-SEAL® SERIES
THE PERFECT BALANCE.



BOWIE'S ADVANCED COMBO-STYLE SEAL AND BEARING DESIGN PUMPS.

A superior heavy use combo-style pump from the leading name in rotary gear pumps. For those seeking top-end performance, durability and flow volume – without a premium price tag.



BOWIE PUMPS

OUTPERFORM. OUTLAST.

THE ONLY PUMP YOU NEED.

Bowie's Dura-Seal® pumps have been created for those who want it all. Durability day-in and day-out. High output, worry-free performance. An anti-drip design. All at a reasonable upfront price.

The Dura-Seal® is Bowie's most versatile all-purpose pump. It's the best bang for your Bowie!

With an optimal combination of lip seals, bearings and bushings, the Dura-Seal® series is up to almost any challenge you can throw at it:

- As a heavy use, leak-resistant, everyday pump for **upstream oil & gas** and **bulk fluid transport.**
- In standard and **high pressure, high temperature and high speed** operating conditions.

DURA-SEAL®: TAKING COMBO-STYLE PUMPS TO THE NEXT LEVEL.

Pump Design	Sealing Components		Bearing Components		Pump Life	Flow Volume	Leak Resistance	Ease of Repair	Overall Value
	Packing	Viton® Lip Seals	Bronze Bushings	Ball/Roller Bearings					
Combo-style Seal and Bearing	None	✔	✔	✔	●●◐	●●●	●●◐	●●●	●●◐

● Average ●● Above Average ●●● Exceptional

THE DURA-SEAL® DIFFERENCE.

Dura-Seal® OUTPERFORMS:

Superior Flow Volume:

- Industry leading flow volume. Up to a whopping 660 gallons per minute.
- Unique progressive helical steel gear design for more flow.
- Precise manufacturing for tighter tolerances and maximum efficiency.

Enhanced Leak Resistance:

- Superior Viton® sealing components.
- Two 'internal' drive shaft seals encased in an independent seal cartridge for enhanced leak resistance.
- Mechanically balanced seal and bearing design reduces pressure and wear on the seals.
- No packing seal/nut to eliminate a point of potential leakage.

Overall Value:

- Mid-range purchase price.
- Low operating, maintenance and repair costs.
- Less money lost due to downtime.
- Tremendous value over the lifetime of the pump.

Dura-Seal® OUTLASTS:

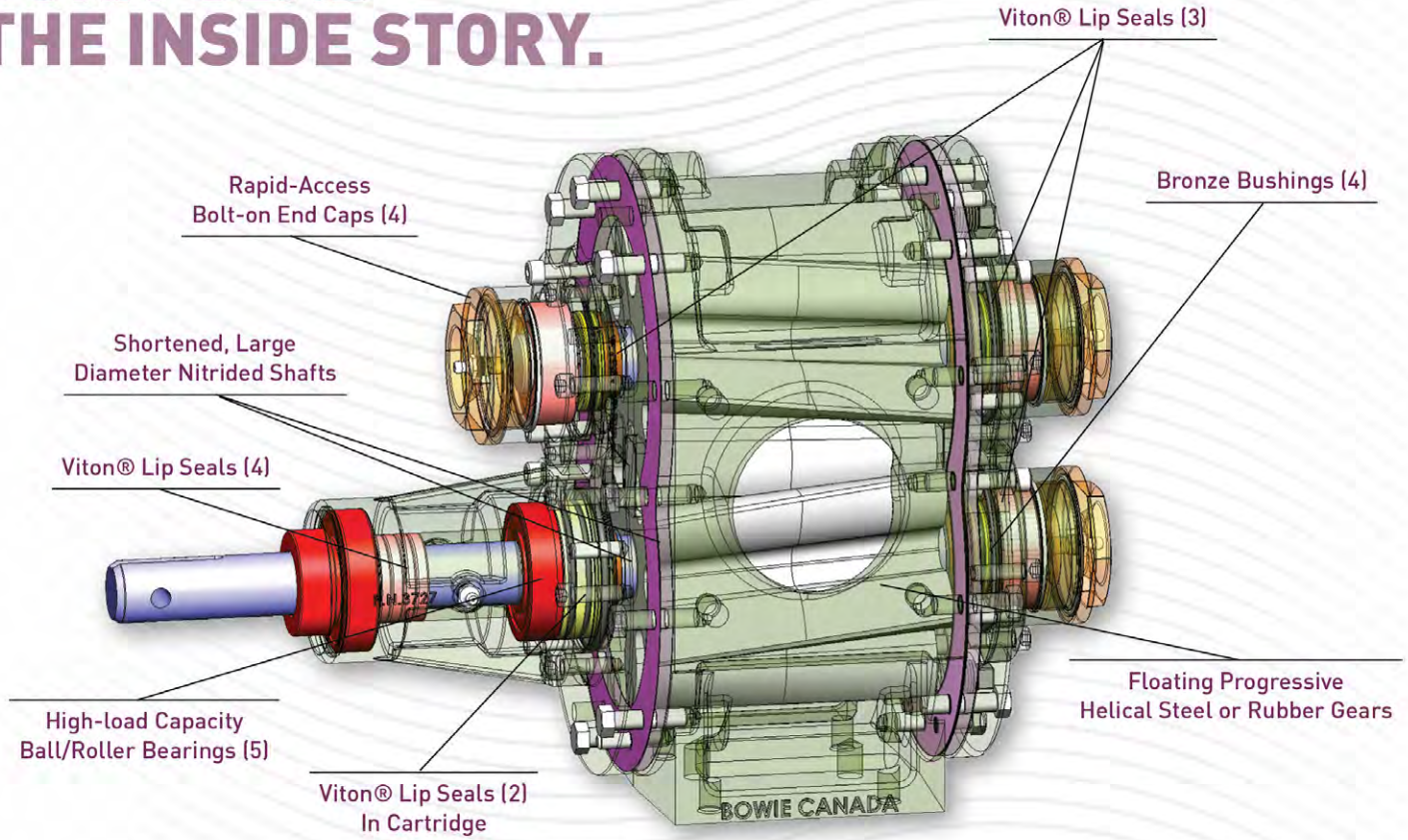
Longer, More Reliable Pump Life:

- High load capacity roller and ball bearings for superior durability and reliabilty.
- Shortened, large diameter nitrided steel idler and drive shafts to reduce run-out and shaft bending to handle hugher stress loads.
- Simple and balanced design.
- Superior manufacturing and machining.

Easy Do-It-Yourself Repair and Maintenance:

- Three shortened, bolt-on end caps for easier and more cost-effective replacement of internal components.
- Simple, straightforward combination seal and bearing design.
- Sliding gear design drastically improves the ease of maintenance in both field and shop conditions.

DURA-SEAL®
THE INSIDE STORY.



THE IMPORTANCE OF BALANCE

In order to achieve the highest standards of performance, lifespan and safety, pumps should be designed with symmetrically balanced gears, shafts and bearings or bushings. Particularly in pumps with helical gears where loads are quickly re-distributed when the pump rotation is changed.

Utilizing the latest in functional and stress analysis testing, Bowie engineers have re-defined combo-style pumps by devising a very simple and exceptionally symmetrically balanced bushing and bearing design pump. With fewer components!

The result: Longer pump life. Enhanced leak resistance. Fewer potential problems. Easier and less expensive repairs.

SERIOUS FLOW VOLUME

You live and die by your pump. Dura-Seal® pumps deliver industry-leading flow volume.
Up to a whopping 660 gallons per minute

Maximum Flow Volume (GPM)		
Pump Model	Progressive Helical Steel Gears*	Buna-N Rubber Gears**
4700	660	420
3700	430	290
2700	280	190

* Operating at 750 RPM.

** Operating at 500 RPM.

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

Requirements	2700	3700	4700
Maximum Flow Volume	●	●●	●●●
GPM Floating Helical Steel Gears@750 RPM	290	440	660
GPM Floating Buna-N Rubber Gears @500 RPM	185	275	420
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.

WHAT YOU NEED TO KNOW ABOUT GEARS:





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

1. **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.

2. **Buna-N Synthetic Rubber Gears:**
   Our proprietary Buna-N rubber gears are the longest lasting high strength rubber gears on the market. They are everything you need for most applications.

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

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).

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Engineered and Manufactured in Canada!

BOWIE PUMPS
bowiepumps.com