

High Flow CRUDE OIL PIPELINE INJECTION PUMPS

HEAVY DUTY TWIN GEAR PUMP

EXPERIENCE

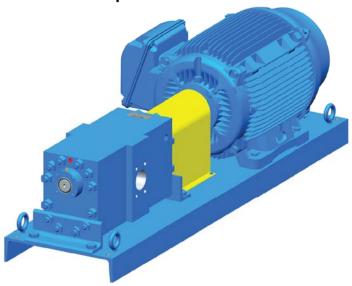
RELIABILITY

SAFETY



FEATURES & BENEFITS

- Discharge pressures up to 1440 PSI
- · Very smooth pulse free flow
- · Easily varied flow output
- · No elastomers or stators
- Competitively priced
- · Short lead times
- Small Footprint



For over 85 years Northern has been manufacturing the most reliable gear pump in industry. We pride ourselves on regularly accomplishing for our customers what no other pump company can achieve. Northern's ability to produce discharge pressures up to 1440 PSI and a broad turn-down ratio has made it the ideal pump for crude oil injection for pipeline applications. Whether the application is discharging from a LACT unit or providing boost for systems that have become inadequate due to increasing line pressures, Northern has performed flawlessly.

At approximately 30% of the size of a progressive cavity pump, Northern is so much more user friendly and there are no elastomer stators to swell or seize.



HIGH FLOW
CRUDE OIL
PIPELINE
INJECTION
PUMPS

EXPERIENCE RELIABILITY SAFETY

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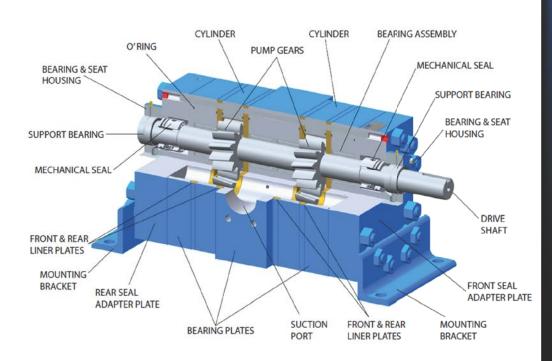
340 W Benson Aveune Grantsburg WI 54840

Specifications:

Flow: Up to 390 GPM / 13371 BPD Pressure: Up to 1440 PSI

Pressure	Flow Rates													
Differential	4902-10			4902-15			4902-20			4902-25			4902-30	
PSI	GPM	BPD		GPM	BPD		GPM	BPD		GPM	BPD		GPM	BPD
200	127	4354		193	6617		259	8880		324	11109		390	13371
400	120	4114		184	6309		248	8503		313	10731		377	12926
600	112	3840		175	6000		238	8160		301	10320			
800	105	3600		166	5691		228	7817		-	-		- 4	÷
1000	97	3326		157	5383		-	-		-	-		-	10
Max Δ Pressure	1440 PSI			1165 PSI			875 PSI			700 PSI			580 PSI	

^{*}Flow calculations are at 1750 RPM, assuming 4 cP crude oil.



Materials of Construction:

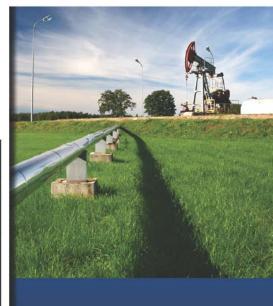
Gears: Hardened and Ground 8620 Alloy Steel **Shafts:** Hardened and Ground 8620 Alloy Steel

Bearings: AISI 52100 Roller Bearings

Shaft Seal: Type 8B-1 or 8-1 Mechanical Seal **Inlet/Outlet Connections:** SAE J518 Code 61 NPT, Flanged or Other adapters available

Northern is 100% US manufactured which provides for quick deliveries and easy serviceability.

Contact us with your application today!



HIGH PRESSURE DIFFERENTIAL

RUGGED DESIGN

PRECISION MANUFACTURING



Made in the USA



Manufacturing the Highest Quality Pumps for over 85 years



Phone: 800 - 366 - 1410

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