



# MIDSTREAM CRUDE OIL PIPELINE INJECTION PUMPS

EXPERIENCE

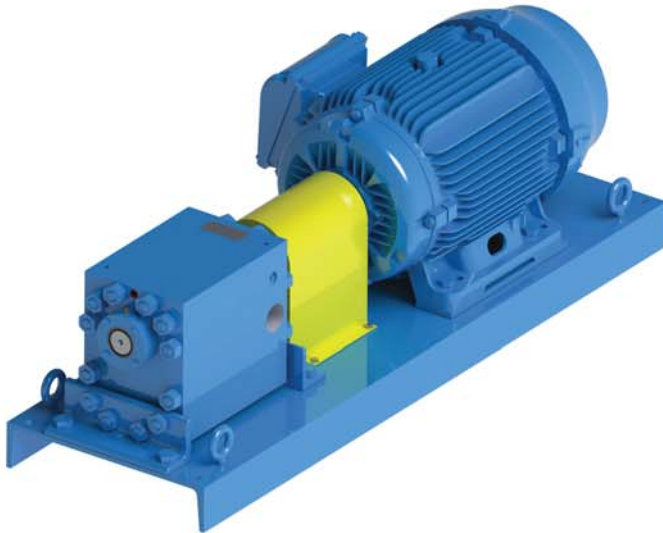
RELIABILITY

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 2000 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 do 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.



MIDSTREAM  
CRUDE OIL  
PIPELINE  
INJECTION  
PUMPS

HIGH PRESSURE  
DIFFERENTIAL

PULSE FREE  
FLOW

SMALL  
FOOTPRINT



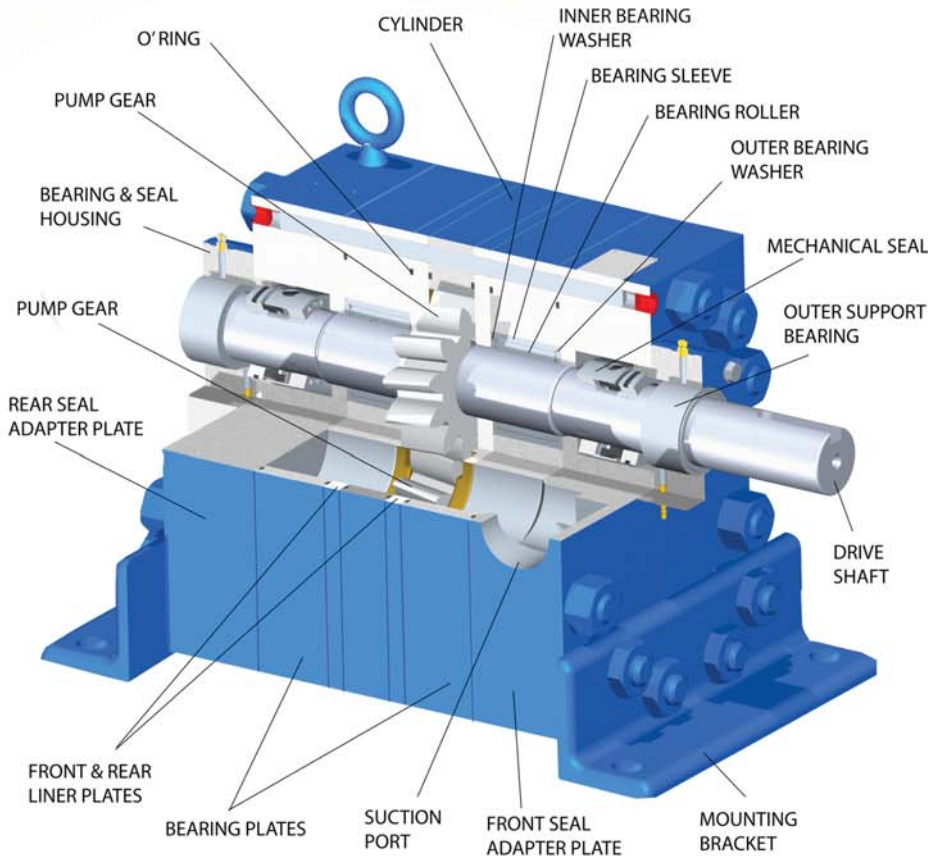
## Specifications:

Flow: Up to 193 GPM

Pressure: Up to 1440 PSI

Pressure Differential (psi)	Flow Rates (GPM)			
	4900-10	4900-15	4900-20	4900-30
200	62	95	128	193
400	57	89	121	184
600	52	83	114	-
800	47	77	107	-
1000	42	71	-	-

\*Flow calculations are at 1750 RPM, assuming 3 cP crude oil.



## Materials of Construction:

**Pump Body:** All steel housing

**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:** NPT or Flanged available.

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

*Contact us with your application today!*



ALL STEEL  
HOUSING

RUGGED  
DESIGN

PRECISION  
MANUFACTURING



Made in the USA



# NORTHERN PUMP

Manufacturing the Highest Quality Pumps for over 85 years



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