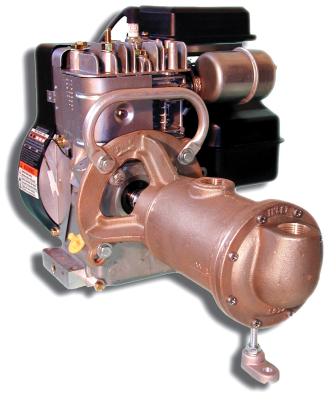
GEAR PUMPS

GEAR PUMPS SERIES 111



FEATURES

- Pipe size ¾
- All Bronze or Corrosion Resistant Aluminum Construction
- Carbon Face Mechanical Seal
- Quiet Running Pump
- Can Handle Contaminated Liquids
- Nitrile Stator and Stainless Steel Rotor
- Easily Mounted in Field to Standard Briggs & Stratton or Tecumseh Engines

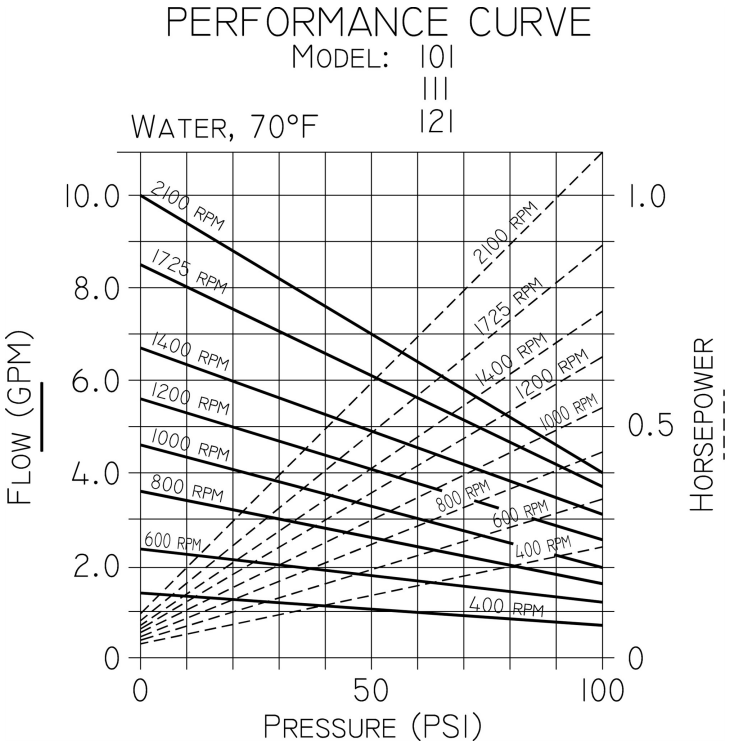
DRIVE

The turning of the helical shaped rotor within the stationary stator creates a progressing cavity similar to a moving piston. Liquid is thus displaced generating a pumping action. Unlike piston pumping, extremely high pressure cannot be created because the stator is made of Nitrile and is flexible. Because of this flexibility, contaminated liquids can be handled. High starting torque motors are recommended in order to overcome the high starting friction of the stator.

LIQUIDS AND TEMPERATURE

The corrosion resistant alloys used are compatible with common liquids including water, water solutions, oils and many commercial chemicals. Severe solvents are not compatible with the Nitrile and should not be pumped.

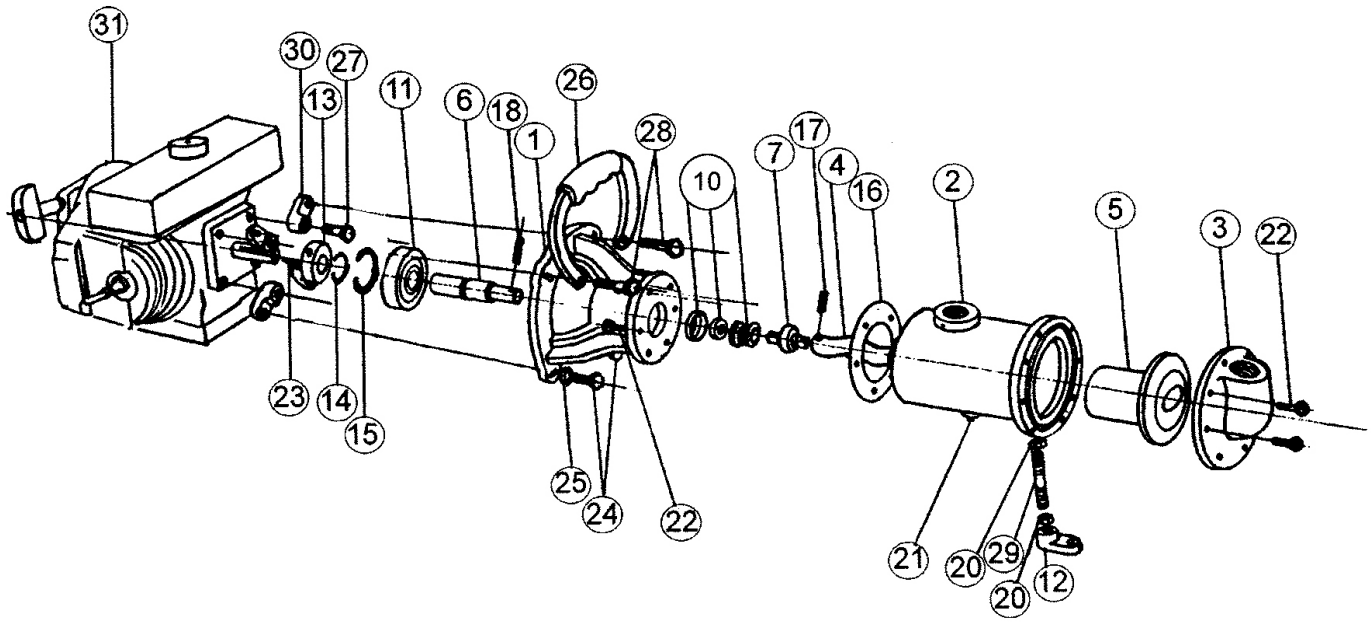
PERFORMANCE



SUCTION LIFT

Close fit of the rotor within the stator permits lifting of liquid on the suction side as high as 20 ft. High starting torque motors are recommended in order to overcome the high starting friction of the stator.

EXPLODED VIEW AND PARTS LIST



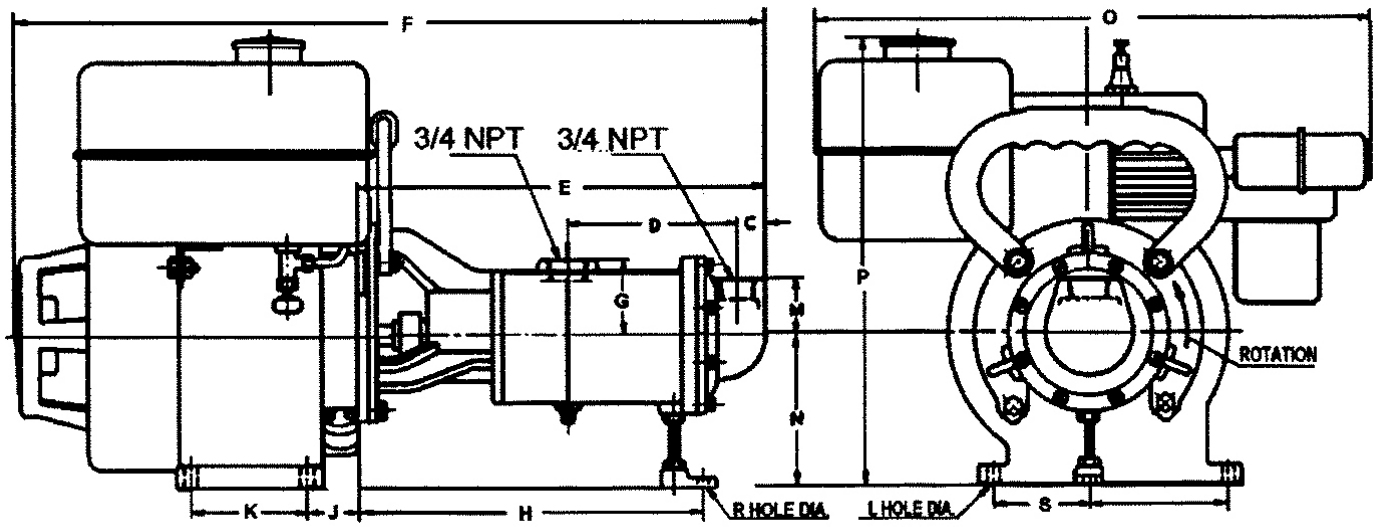
Pump No.	1	2	3	4[1]	5[1]	6	7
	Adapter Bracket	Body	Cover	Rotor	Stator	Drive Shaft	Universal Joint
	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd
111 UGY	5871	5873	5872	5890	5891	5875	5874
111B UGY	7213	6897	6896	5890	5891	5875	5874

[1] Repair Kit No. 10737 include these parts and compression plate tool for seal removal

18[1]	19	20	21	22	23	24
Pin	Nut	Plug	Screw	Key	Screw	Washer
1 Reqd	1 Reqd	2 Reqd	14 Reqd	1 Reqd	2 Reqd	4 Reqd
5889	5597	5908	5897	5912	5916	5915
5889	5597	5395	5897	5912	5916	5915

* For Tecumseh Engine ** For Briggs & Stratton Engines

DIMENSIONS



ROTATION

This helical rotor design demands a single rotation - clockwise when facing the pump drive shaft. Pump rotation and “in” and “out” ports are indicated on the dimension diagrams.