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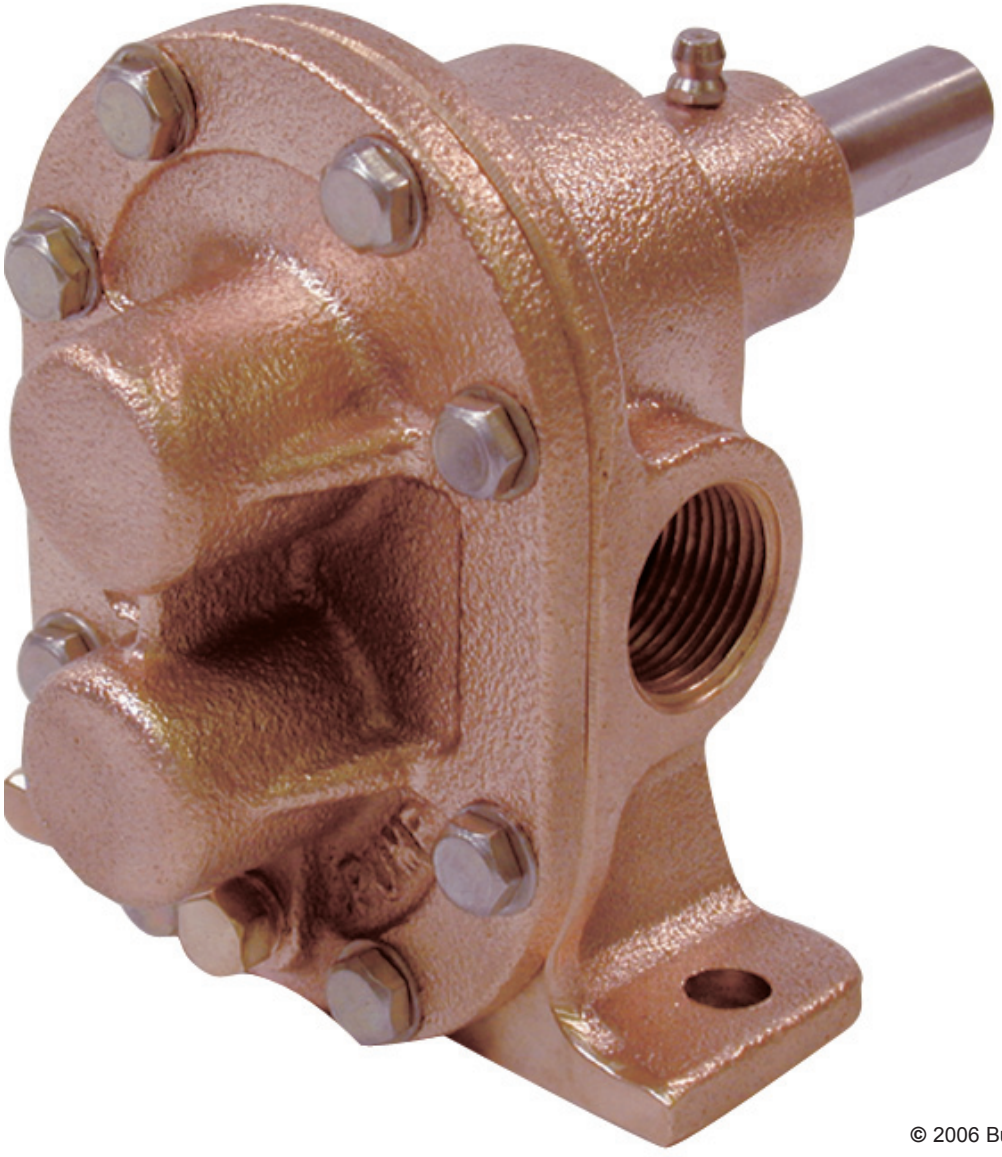
INSTALLATION INSTRUCTIONS

MODELS
700720
700721
700722

GEARS
PUMPS

Please read these instructions carefully. **Failure** to comply to instructions and **designed** operation of this system, may **void** the warranty.

Your pump has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling. **Carefully inspect your pump** for damages that could cause failures. Report any damage to your carrier or your point of purchase.



Congratulations, you heve just purchased a quality Brass Gear Pump, designed to give you years of trouble free operation when operated from a power source, witin the design of the pump. (*See recommended operating RPM's and horsepowers*).

SAFETY INSTRUCTIONS:

This fine pump that you have just purchased is designed from the latest in material and workmanship.
Before installation and operation, we recommend the following procedures:

A CHECK WITH YOUR LOCAL ELECTRICAL AND PLUMBING CODES TO ENSURE YOU COMPLY WITH THE REGULATIONS. THESE CODES HAVE BEEN DESIGNED WITH YOUR SAFETY IN MIND. BE SURE YOU COMPLY WITH THEM.

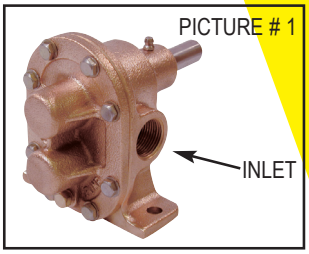
B WE RECOMMEND THAT A SEPARATE CIRCUIT BE LEAD FROM THE HOME ELECTRICAL DISTRIBUTION PANEL PROPERLY PROTECTED WITH A FUSE OR A CIRCUIT BREAKER. WE ALSO RECOMMEND THAT A GROUND FAULT CIRCUIT BE USED. CONSULT A LICENSED ELECTRICIAN FOR ALL WIRING.

C THE GROUND TERMINAL ON THE THREE PRONG PLUGS SHOULD NEVER BE REMOVED. THEY ARE SUPPLIED AND DESIGNED FOR YOUR PROTECTION.

D NEVER MAKE ADJUSTMENTS TO ANY ELECTRICAL APPLIANCE OR PRODUCT WITH THE POWER CONNECTED. DO NOT ONLY UNSCREW THE FUSE OR TRIP THE BREAKER, REMOVE THE POWER PLUG FROM THE RECEPTACLE.

APPLICATION

This GEAR PUMP is designed to operate in either a clokcwise or counter clockwise rotation from its power source. Looking at the pump from front, (*see picture #1)* the **inlet** (suction) will be located on the right side of the pump body. For counter clockwise rotation the **inlet** and **outlet** will be reversed.



When the pump is properly installed, it will lift water 20-22 feet, unprimed. As the pump gears wear with time, its ability to lift water gradually be reduced. A FOOT VALVE is recommended on the end of the SUCTION LINE to maintain prime at the pump level.

CONSTRUCTION FEATURES AND CAUTIONS

BURKE Gear Pumps are equipped with self lubricating bearings. These bearings are replaceable should wear be caused by pumpimg abrasives. These bearings require no lubrification other than from the liquid being pumped caution : Do not pump dry for longer than normally required to prime the pump. do not restrict the pump on its suction side. use 1/2" or larger suction line for model 700720. Use a 314" or larger suction line for model 700721. avoid all unnecessary kinks, bends, elbows in the suction line. Make sure all connections on suction line do not leak.

These Gear Pumps are designed to operate up to 1800 RPM when pumping water or equally thin liquids. When pumping heabier liquids, pump speed should be reduced. maximum liquid temperature 130º F.

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INSTALLATION STEPS

STEP 1

This pump may be mounted direct to tractor PTO shaft with solid coupling or flexible coupling, or belt driven for operation with gasoline engines or electric motors. Pump may also be driven direct to an electric motor using solid coupling, providing the motor and the pump shaft line up properly and secured to a common base. **When belt driven, shafts must be parrallel and the pûlleys in line with one another.**

Be sure to avoid pressing coupling or pulley against pump body to avoid wear.

Avoid excessive rough handling and pounding on pum housing or drive shaft when mounting or removing pulleys or couplings, other wise serious damage to the pump will result.

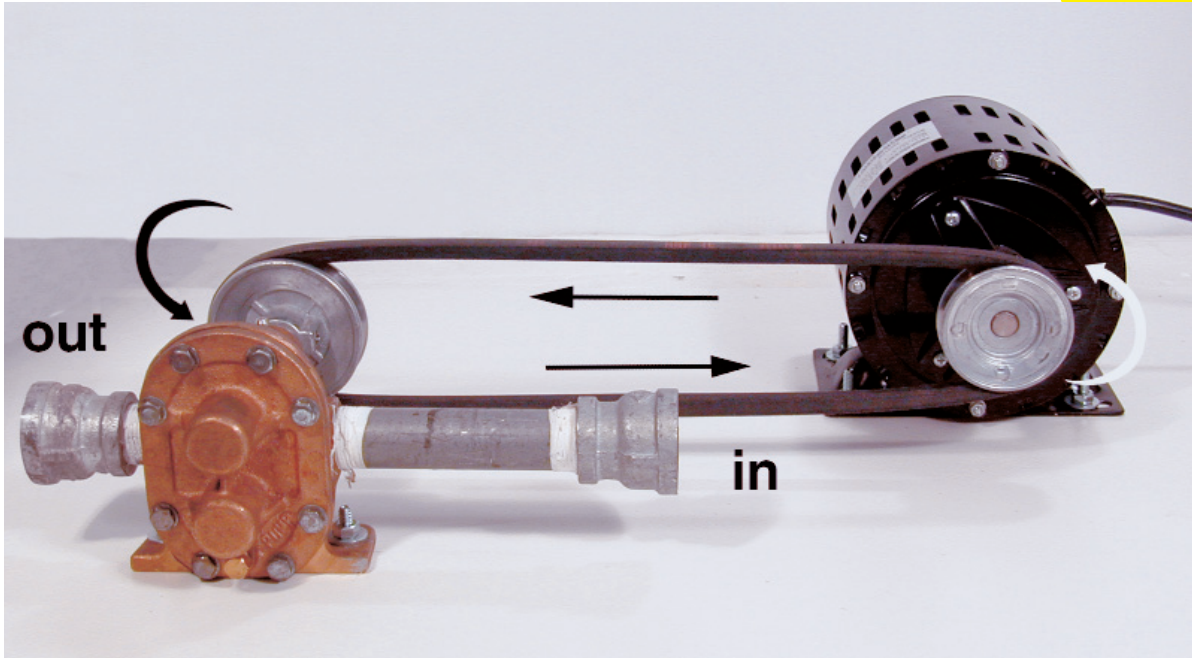
STEP 2

Caution regarding abrasives ;

The company, (burke water systems manufacturing inc.) cannot extend any guarrantee whatsoever as to the life expectancy of each pump because of the varying factors, or combinations of factors, such as types of liquid pumped under varying operating conditions. abrasive spraying material, sand, dirt, grit, silt, etc., will shorten the life expectancy. user should take every precaution to avoid such applications as will subject the pump to heavy abrasive wear. An efficent filter or strainer should be fitted to the end of the suction line, to ythe pump's inlet. Wrapping a piece of flannelette around the screen on the foot valve or4 strainer sa as to reduce abrasive material to a minimum, will make an efficient filter.

WARRANTY 30 DAYS FROM PURCHASE ON DEFECTS IN MATERIAL OR WORKMANSHIP.

TYPICAL INSTALLATION



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PERFORMANCES CHART

	HEAD/PSI	0’		57’/25		115’/50		173’/75		231’/100	
	RPM	HP	US GPH	HP	US GPH	HP	US GPH	HP	US GPH	HP	US GPH
700720	***1800***	1/3	600	1/3	580	1/2	480	3/4	420	1.0	330
	1200	1/3	360	1/3	330	1/2	300	3/4	275	3/4	215
	900	1/3	300	1/3	280	1/3	240	1/2	210	3/4	160
700721	***1800***	1/3	840	1/2	720	3/4	660	1.0	630	1.5	600
	1200	1/3	540	1/3	500	1/2	480	3/4	440	1.0	400
	900	1/3	420	1/3	375	1/3	360	1/2	330	3/4	300
700722	***1800***	1/2	960	1.0	870	1.0	780	1.5	720	2.0	630
	1200	1/2	720	3/4	580	3/4	520	1.0	480	1.5	430
	900	1/3	480	1/2	435	1/2	390	3/4	360	1.0	320

PULLEY RATIO CALCULATION:

$$\frac{\text{MOTOR RPM} \times \text{MOTOR PULLEY DIAM.}}{\text{PUMP RPM}} = \textit{PUMP PULLEY DIAM.}$$

OR

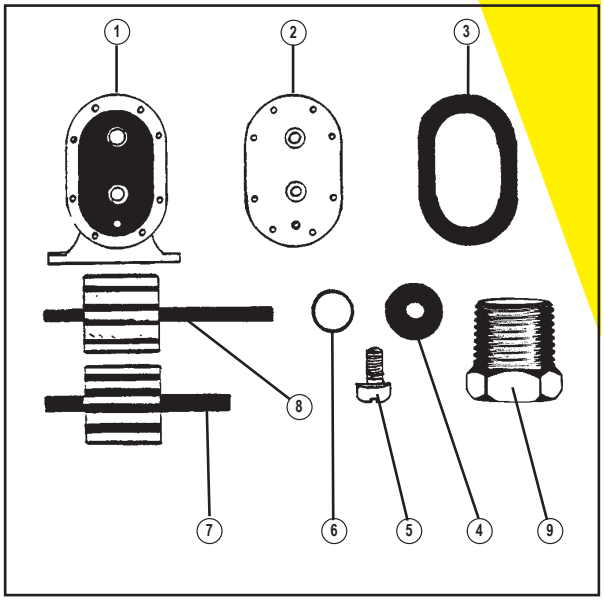
$$\frac{\text{PUMP RPM} \times \text{PUMP PULLEY DIAM.}}{\text{MOTOR RPM}} = \textit{MOTOR PULLEY DIAM.}$$

FRICTION LOSS IN PIPE NOT INCLUDED

REPAIR PARTS

REF	PIECE	DESCRIPTION
1	700691	Body / bearing / seal (700720, 700721)
1	700679	Body / bearing / seal (700722)
2	700692	Cover plug
3	700697	Pump body gasket
4	700696	Rubber seal
5	700698	Brass body screws
6	700693	Bearing
7	700694	Short shaft gear
8	700695	Long shaft gear
9	700689	Brass reducer 3/4”-1/2” (2)

Model 700720 only. .



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