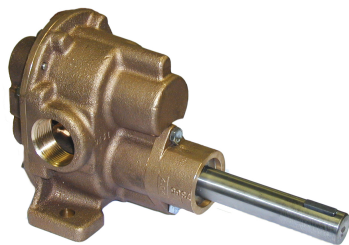


BRONZE PEDESTAL ROTARY GEAR PUMPS

GEAR PUMPS SERIES N11500



FEATURES

- Bronze Corrosion Resistant Castings
- Stainless Steel Shafts & Fasteners
- Self-Lubricating Carbon Bearings
- Acrylic Graphite Packing or Fluoroelastomer (S10) - Polytetrafluoroethylene (PTFE) (S11) Lip
- For Mechanical Seals, see Models N11HDM
- For Heavy Pulley loads, see Model N11HDP

DRIVE

Either direct drive with flexible coupling or pulley drive can be used. For pulley driven pumps, a pillow block bearing must be used at the drive shaft end to absorb the belt forces. The drive shaft is sufficiently long enough to accommodate a pillow block in addition to the pulley. Correct alignment is absolutely essential for satisfactory pump life. Recheck alignment after the piping has been connected to the pump.

LIQUIDS AND TEMPERATURE

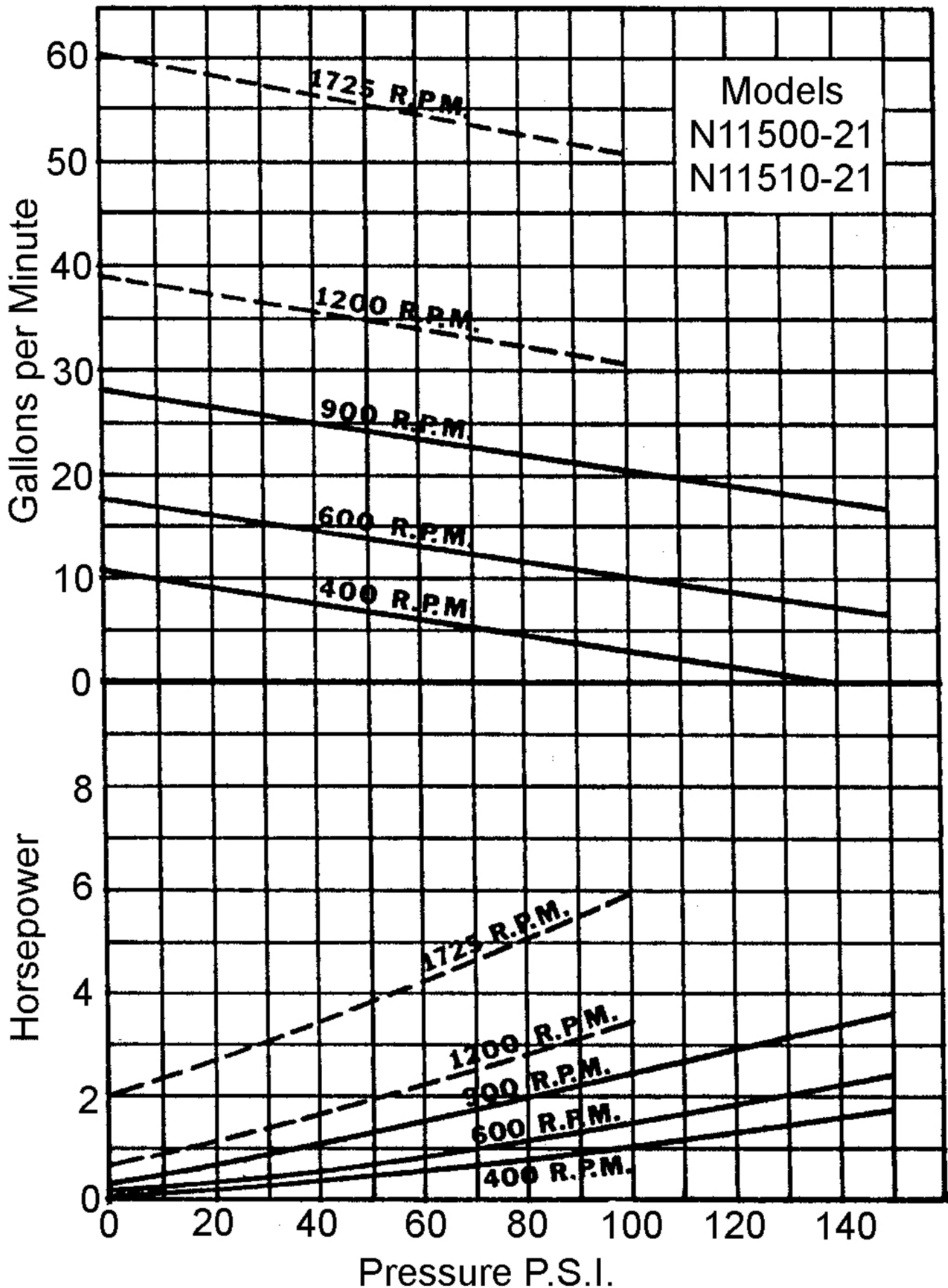
Service life will be increased substantially if the liquid pumped is clean and has a lubricity value. These pumps have extremely close tolerances. Fine abrasives like sand, silt, or powders in suspension will destroy pumping ability. Liquids compatible with bronze, stainless steel and the acrylic graphite packing can be pumped. Solvent resistant packings and Polytetrafluoroethylene (PTFE) packings are also available. See a chemical compatibility table or check factory. When possible, flush the pump with water after using. Temperature extremes are detrimental to service life and should be avoided. Basic metals of construction allow temperature range of -400F to 4000F. The acrylic graphite packing is rated to 5000F. Freezing liquid in the pump can deform or damage the pump.

Viscous liquids such as molasses or oils require a lower pumping speed, in extreme cases as low as 200 R.P.M. Consult factory for recommended speeds and increased horsepower requirements. Large suction lines are required to prevent cavitation, which can cause pump destruction.

Liquids with specific gravities heavier than water such as dry cleaning fluids require an increase in motor horsepower directly proportional to the increase in specific gravity over water.

PERFORMANCE

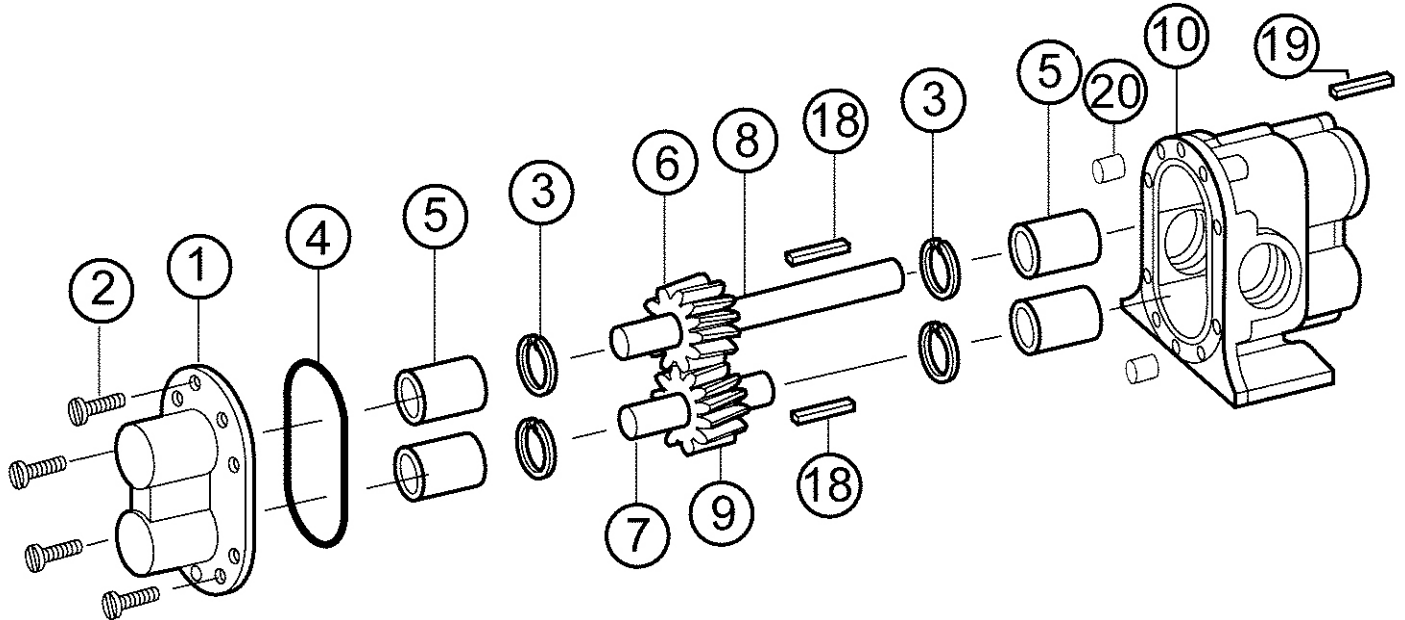
CAPACITY Water 60°F



SUCTION LIFT

A rotary gear pump is capable of lifting water on the suction side as high as 20 feet. Though gear pumps are self-priming, a foot valve is recommended. For pumping water directly from streams or ponds, a wire mesh strainer must be used at the beginning of the suction line to prevent stones from entering the pump. Strainer and foot valve are commercially available as combination units.

EXPLODED VIEW AND PARTS LIST

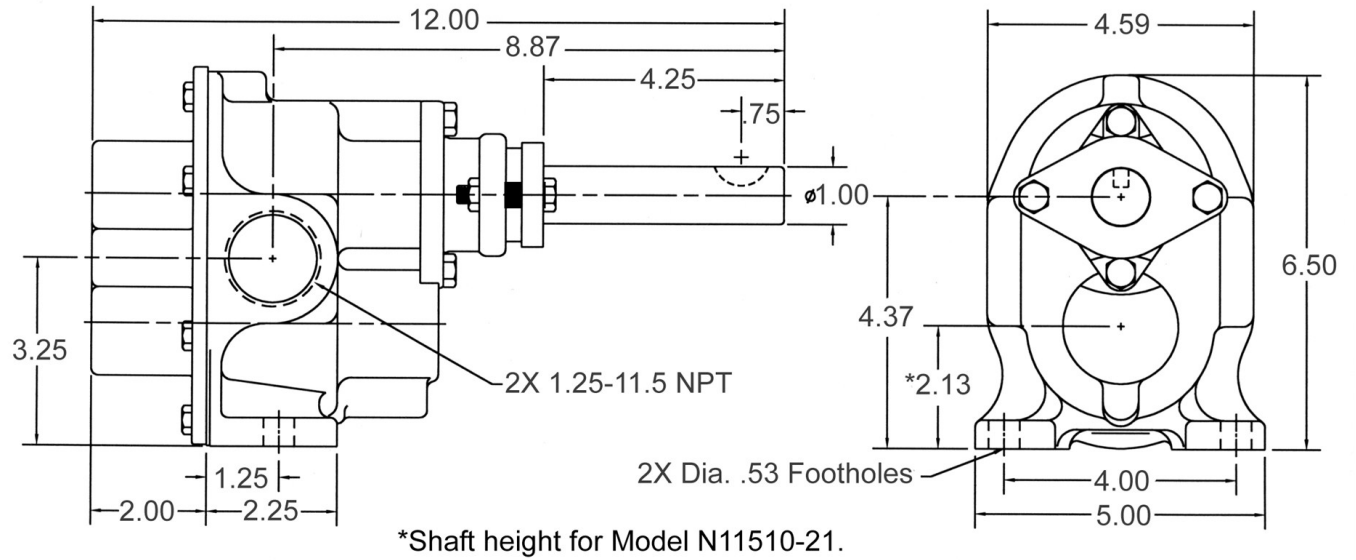


Pump No.	Configuration	1	2	3*	4*	5*	6*	7*	8*	9*	10	11
		Cover 1 Req'd	Screw 8 Req'd	Ret. Ring 4 Req'd	O-Ring 1 Req'd	Bearing 4 Req'd	Drive Gear 1 Req'd	Idle Shaft 1 Req'd	Drive Shaft 1 Req'd	Idle Gear 1 Req'd	Body 1 Req'd	O-Ring 1 Req'd
N11500-21	Packing/Upper	9333NN5N	5393	7651	9797-158	5108	9833	7652	5685	9834	9331NG7N	6515
N11510-21	Packing/Lower	9333NN5N	5393	7651	9797-158	5108	9833	7652	5685	9834	9331NG8N	6515
N11500S5	Lip/Upper	9333NN5N	5393	7651	9797-158	5108	9833	7652	5685	9834	9331NG7N	9797-224
N11510S5	Lip/Lower	9333NN5N	5393	7651	9797-158	5108	9833	7652	5685	9834	9331NG8N	9797-224

Pump No.	Configuration	12*	13	14	15	16	17	18*	19	20	Repair
		Packing or Lip Seal 3 or 1 Req'd	Screw 2 Req'd	Nut 2 Req'd	Gland/Seal Hsg 1 Req'd	Screw 2 Req'd	Seal Adapter 1 Req'd	Key 2 Req'd	Key 1 Req'd	Dowel Pin 2 Req'd	Kit *
N11500-21	Packing/Upper	7624	5916	8395	7451	9905	9904	6518	5576	8597	10642
N11510-21	Packing/Lower	7624	5916	8395	7451	9905	9904	6518	5576	8597	10642
N11500S5	Lip/Upper	7262	5916	---	9853	---	---	6518	5576	8597	11048
N11510S5	Lip/Lower	7262	5916	---	9853	---	---	6518	5576	8597	11048

* Complete Repair kit includes these items (and body gasket for older models)
For shaft and gear subassemblies only - refer to kit 12015

DIMENSIONS



ROTATION

