

# Bronze Pedestal Rotary Gear Pumps

## N2000L • N2000LR Series

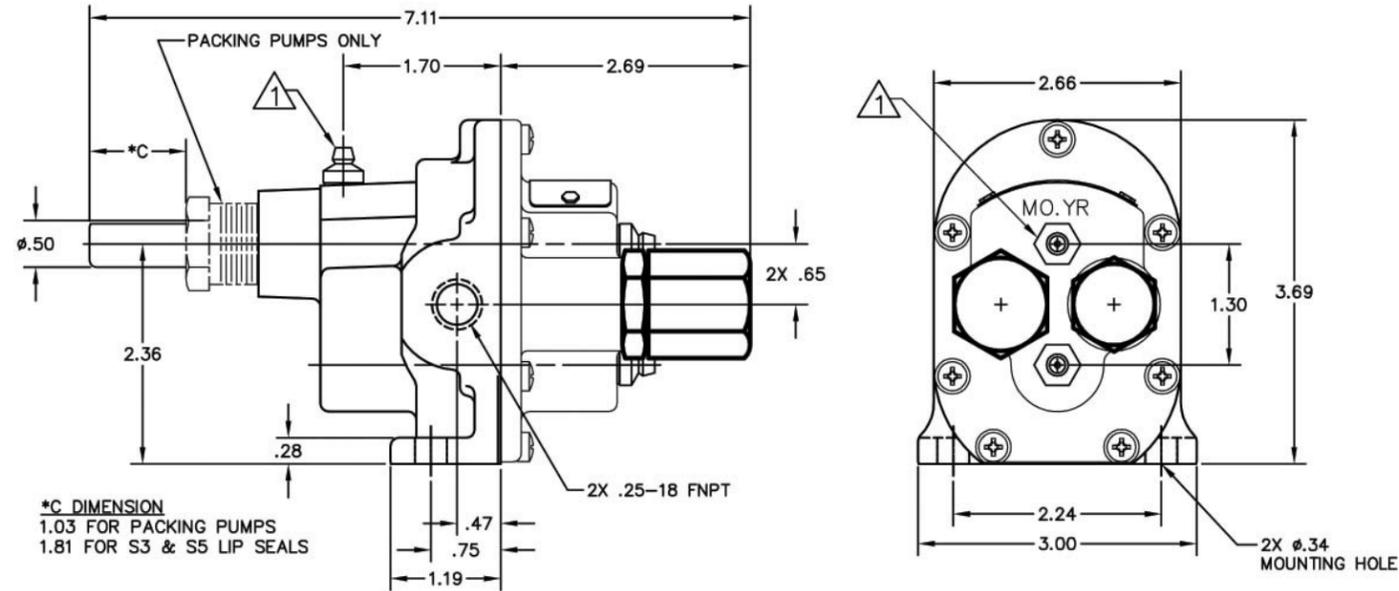


# Bronze Pedestal Rotary Gear Pumps

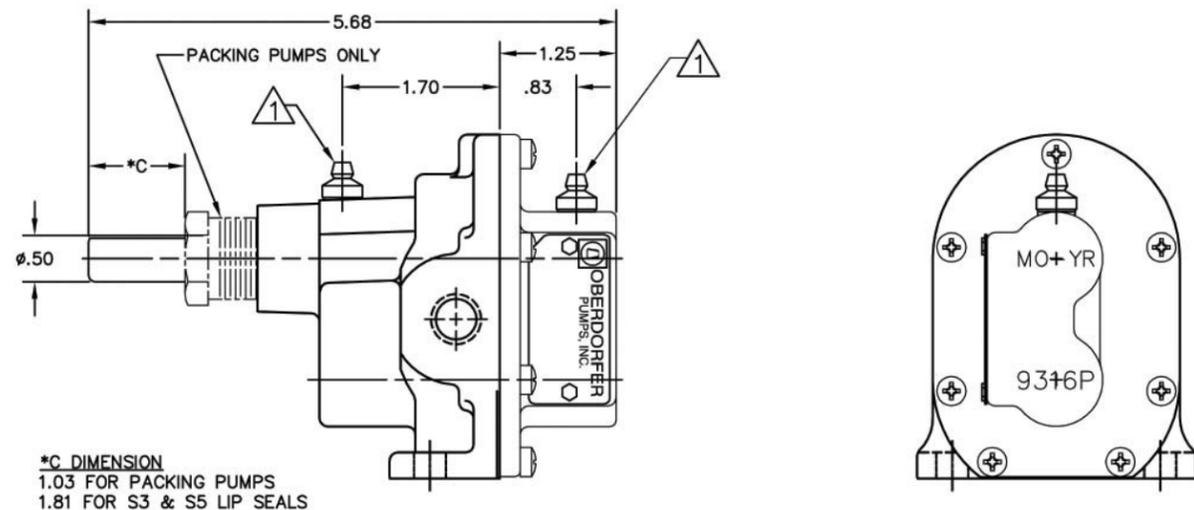
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### Dimensions

#### N2000LR Series

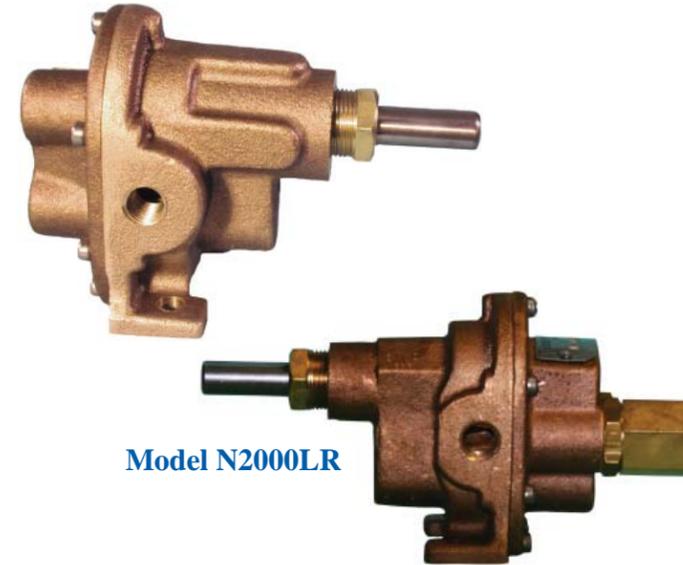


#### N2000L Series



△ GREASE FITTINGS (ITEM 17) INSTALLED INTO THESE CONNECTIONS.

#### Model N2000L 1/4" NPT Ports



Model N2000LR

#### FEATURES:

- Bronze corrosion resistant castings
- Special cast bronze helical gears for quiet operation
- Stainless steel shafts & fasteners
- Synthetic braided compression packing (with PTFE dispersion) is standard
- NBR & FKM lip seals available
- Positive displacement flow
- Bronze bearing surfaces with grease fittings

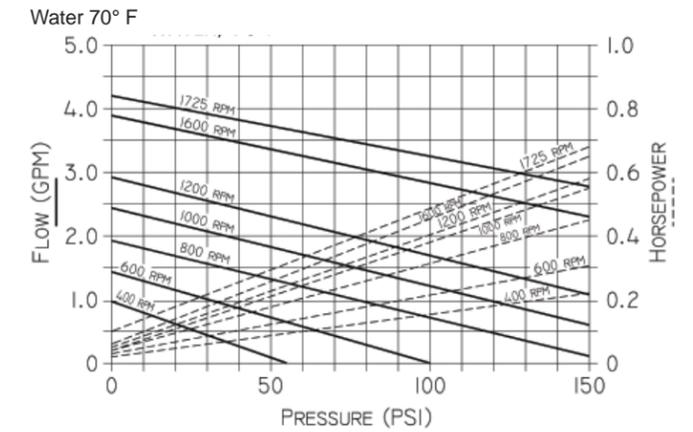
#### LIQUIDS AND TEMPERATURE:

Service life will be increased substantially if the liquid pumped is clean and has some degree of lubricity. These positive displacement pumps have tight tolerances. Fine abrasives like sand, silt, or powders in suspension will accelerate pump wear and reduce throughput.

Liquids compatible with bronze and stainless steel can be pumped providing proper seal has been specified (see chemical compatibility or check factory). No carbon bearings used. When possible, flush the pump after each usage.

Temperature extremes are detrimental to service life and should be avoided. Basic metals of construction allow a temperature range of -40° to 400° F. Some lip seal elastomers have a limit of 212° F. (See engineering data or check factory.) Allowing a liquid to freeze in the pump can cause damage.

#### PERFORMANCE:



\* For pressures over 100 psi, the above selections are suitable for pumping fluids with lubricity (eq. oils, polymers). Service life will decrease for fluids without lubricity (eq. water, solvents).

#### SUCTION LIFT:

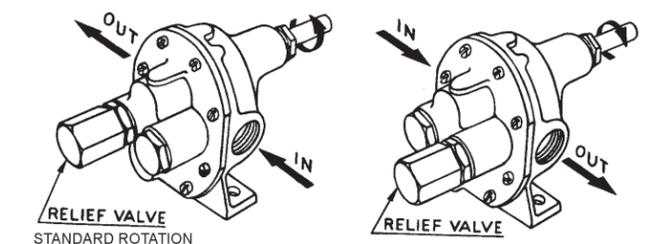
Close tolerances and the positive pumping action make the rotary gear pump capable of lifting water on the suction side as high as 20 feet. Though gear pumps are self priming, a foot valve is recommended. If possible, wet the gears with liquid to be pumped for the first dry start. Liquid retained in the system and gear chambers serves to "wet" the pump on subsequent starts.

#### BY-PASS AND ROTATION:

The pump by-pass is not intended to be a metering or flow control device. Its main purpose is to function as a pressure relief when the desired set point is exceeded, over-heating can occur within 5 -10 minutes if the discharge line is completely shut off for extended periods.

Reversing rotation reverses the "IN" and "OUT" ports and the location of the by-pass ports have to be reversed.

The by-pass valve is factory set at 50 psi. To increase the setpoint, turn the by-pass valve adjusting screw in a clockwise direction.



Visit [www.oberdorfer-pumps.com](http://www.oberdorfer-pumps.com) to find in-depth descriptions of the world's leading high-quality, dependable pumps.

Due to ongoing product improvements, data shown here is subject to change without notice. Contact Oberdorfer Pumps for latest specifications.

### MOUNTING AND DRIVE ARRANGEMENT:

Pumps should be mounted on a rigid base and properly aligned with the motor. Direct drive via flexible shaft coupling is the preferred method. When a belt drive is needed, additional support is necessary to absorb the added pulley load. This can be accomplished in two ways:

- 1) Use the standard pump arrangement by adding an independently supported jackshaft (see figure 2 below) or use kit 2P.
- 2) When space is an issue, use an optional "long shafted" pump and add a properly shimmed pillow block bearing (see figure 1).

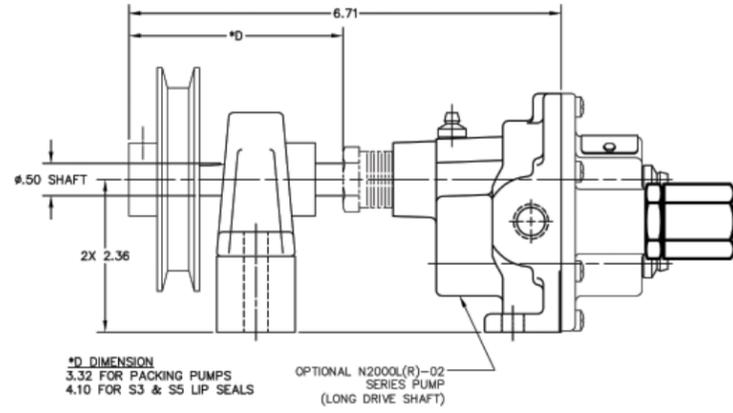


Figure 1

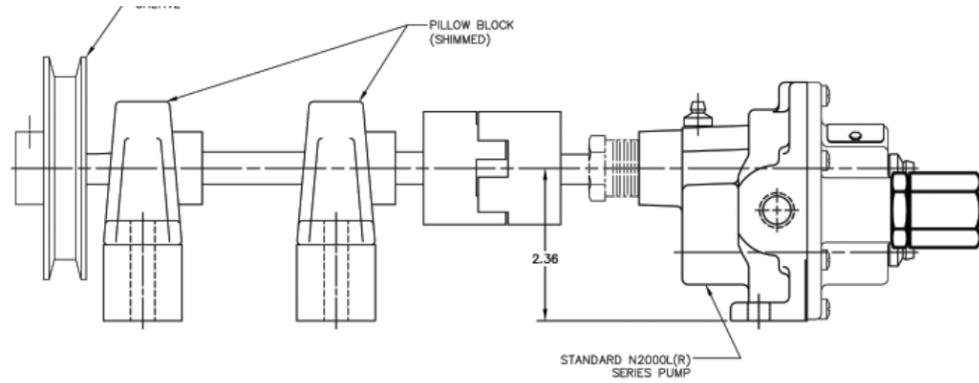
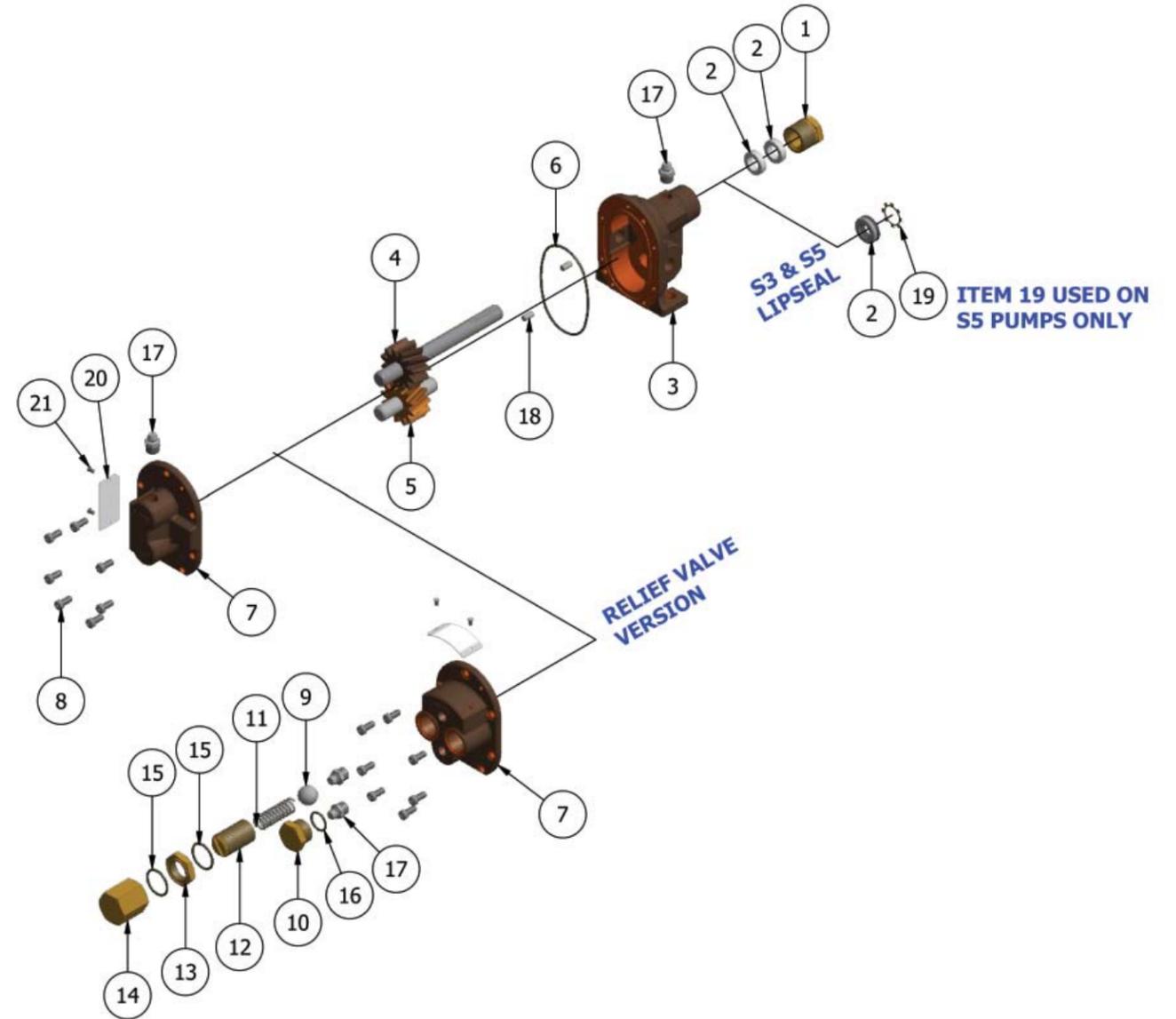


Figure 2

### Exploded View



### Parts List

		1	2	3	4	5	6	7	8	9	10	
		Packnut	Packing	Seal	Body	Drive Gear Assy	Idle Gear Assy	O-Ring	Cover	Screw	Ball	Plug Nut
Model	Seal Arrangement	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 7	Qty. 1	Qty. 1
N2000L	Packing	1892	5481	NA	9315PB1N-1	32992	32993	9797-038	9316PN5N-1	5385	NA	NA
N2000LS3	NBR Lip	NA	NA	5007	9315PB2N-1	32992	32993	9797-038	9316PN5N-1	5385	NA	NA
N2000LS5	FKM Lip	NA	NA	7580	9315PB2N-1	32992	32993	9797-038	9316PN5N-1	5385	NA	NA
Relief Valve Versions: N2000LR, N2000LRS3, N2000LRS5									9317PN5B-1			5238

	11	12	13	14	15	16	17	18	19	20	21	Repair Kit
	Spring	Adj. Screw	Locknut	Bypass Nut	O-Ring	O-Ring	Grease Fitting	Dowel Pin	Lock Ring	Tag	Tag Screw	
Model	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 1	Qty. 2	Qty. 2	Qty. 1	Qty. 1	Qty. 2	
N2000L	NA	NA	NA	NA	NA	NA	5390	8885	NA	9344	9345	12291
N2000LS3	NA	NA	NA	NA	NA	NA	5390	8885	NA	9344	9345	11379
N2000LS5	NA	NA	NA	NA	NA	NA	5390	8885	7626	9344	9345	TBD
Relief Valve Versions	1838	1840	5237	5240D	5239	9797-019	Qty. 3 5390					

\* Repair kit contains items 2, 4, 5, 6, 19

NBR = Acrylonitrile-Butadiene FKM = Fluoroelastomer PTFE = Polytetrafluoroethylene