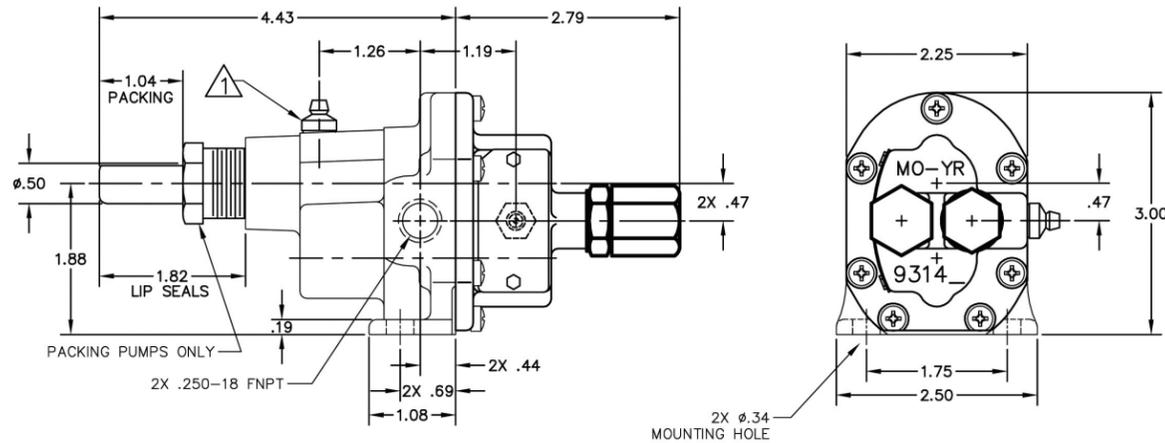


Bronze Pedestal Rotary Gear Pumps

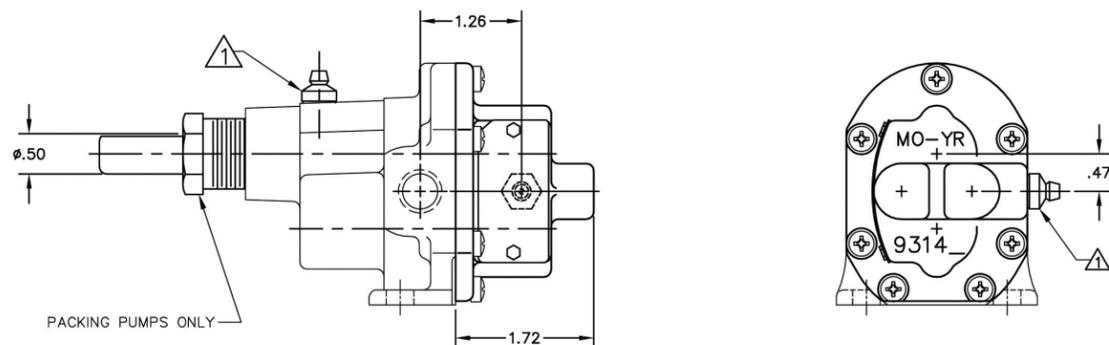
N1000L Series

Dimensions

DIMENSIONS (inches)
N1000LR SERIES



DIMENSIONS (inches)
N1000L SERIES



GREASE FITTINGS (ITEM 19) INSTALLED INTO .125-27 NPT CONNECTIONS.

NBR = Acrylonitrile-Butadiene PTFE = Polytetrafluorethylene FKM = Fluoroelastomer



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Visit www.oberdorferpumps.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.

N1000LSeries.022015



Bronze Pedestal Rotary Gear Pumps

N1000L Series

1/4" NPT Ports Standard

Model N1000L



Model N1000LRS3

FEATURES:

- Bronze corrosion resistant castings
- Stainless steel shafts & fasteners
- Synthetic braided compression packing (with PTFE dispersion) or lip seals are available
- Positive displacement flow
- Bronze bearing surfaces with grease fittings

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, overheating 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.

LIQUIDS AND TEMPERATURE:

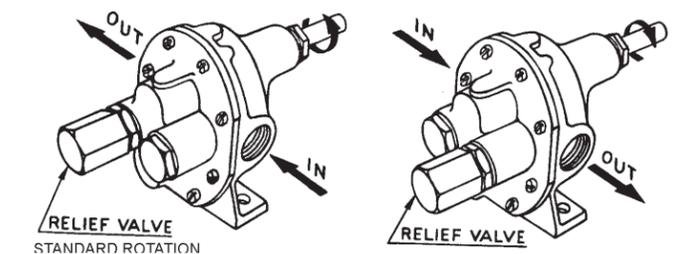
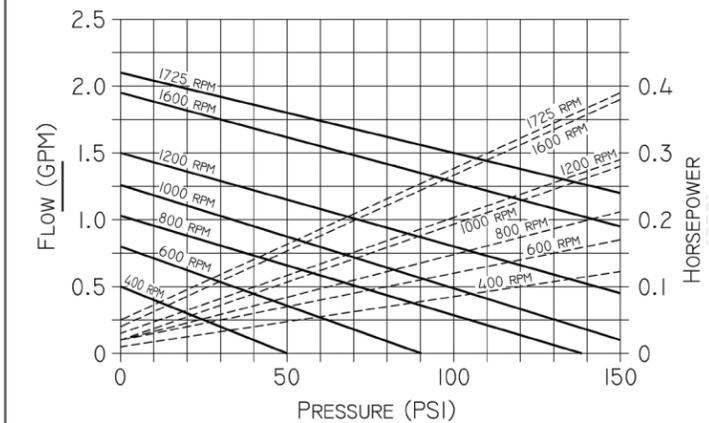
Service life will be increased substantially if the liquid pumped is clean and has some degree of lubricity. These positive displacement pumps have tight tolerances. Fine abrasives like sand, silt, or powders in suspension will accelerate pump wear and reduce throughput.

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:

Capacity Water 70° F



Bronze Pedestal Rotary Gear Pumps

N1000L Series

MOUNTING AND DRIVE ARRANGMENT:

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

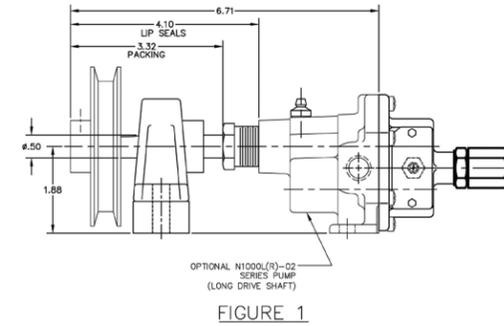


FIGURE 1

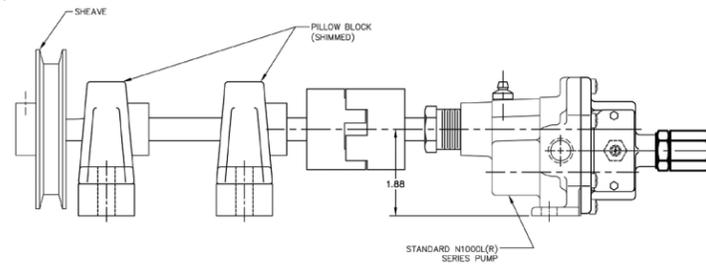


FIGURE 2

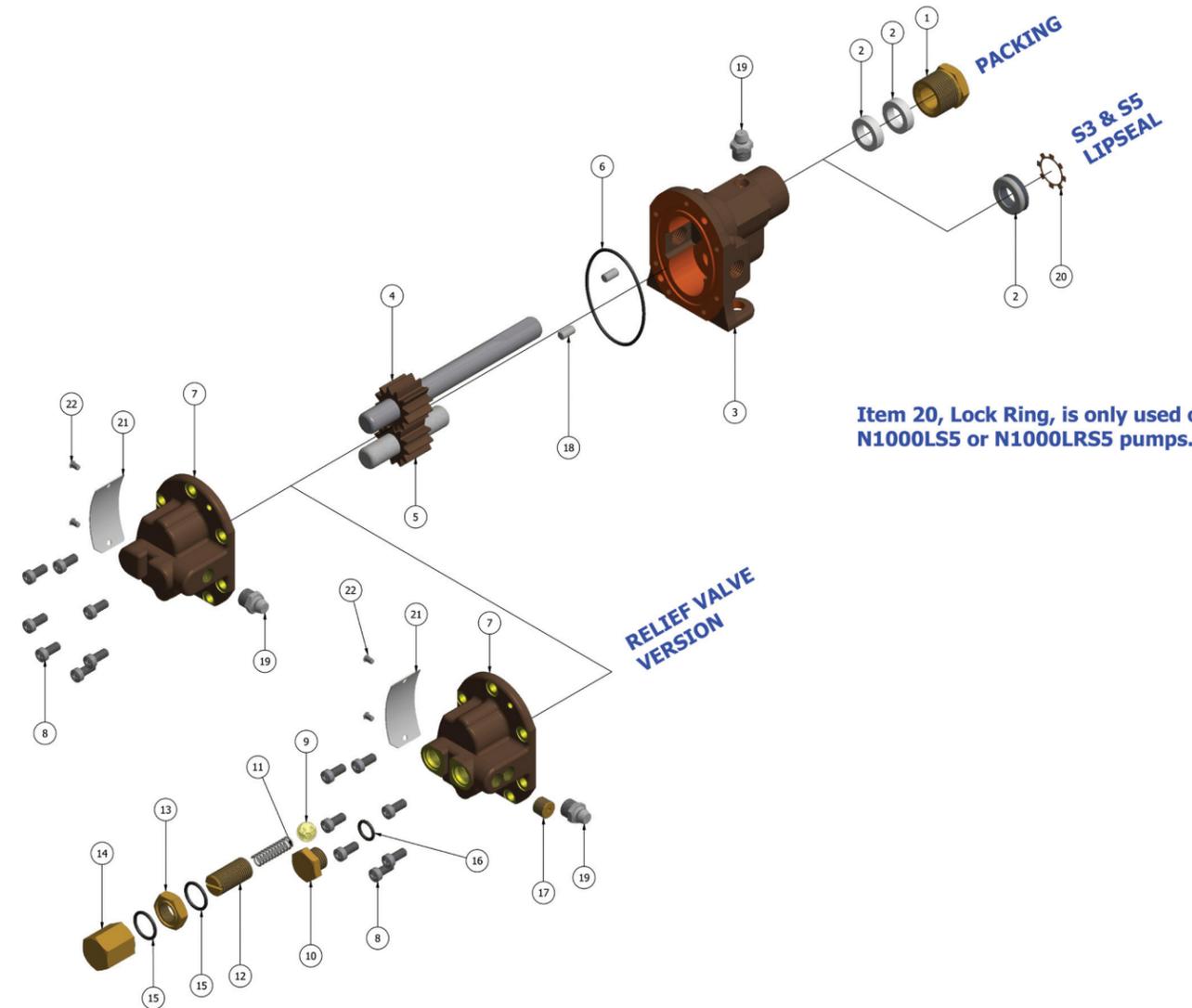
Parts List

Model	Seal Arrangement	1	2	3	4	5	6	7	8	9	10	11	12	13	
		Packnut	Packing	Lip Seal	Body	Drive Gear Ass'y	Idle Gear Ass'y	O-Ring	Cover	Screw	Ball	Plug Nut	Spring	Adj. Screw	Locknut
N1000L	Packing	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 7	Qty. 7	Qty. 1	Qty. 1	Qty. 1	
N1000LS3	NBR Lip	NA	NA	5007	9311PB1N-1	32101	32110	9797-033	9314PN5N-1	5385	NA	NA	NA	NA	
N1000LS5	FKMLip	NA	NA	7580	9311PB2N-1	32101	32110	9797-033	9314PN5N-1	5385	NA	NA	NA	NA	
Relief Valve Versions: N1000LR, N1000LRS3 & N1000LRS5									9314PN5B-1		5809	5775R	5806	5766	5774D

Model	14	15	16	17	18	19	20	21	22	Repair Kit*
	Bypass Nut	O-Ring	O-Ring	Pipe Plug	Dowel Pin	Grease Fitting	Lock Ring	Tag	Tag Screw	
N1000L	NA	NA	NA	NA	8885	5390	NA	9344	9345	12295
N1000LS3	NA	NA	NA	NA	8885	5390	NA	9344	9345	TBD
N1000LS5	NA	NA	NA	NA	8885	5390	7626	9344	9345	TBD
Relief Valve Versions	5767	9797-015	9797-012	6052						

* All Repair Kits contain items 2, 4, 5, 6

Exploded View



Item 20, Lock Ring, is only used on N1000LS5 or N1000LRS5 pumps.