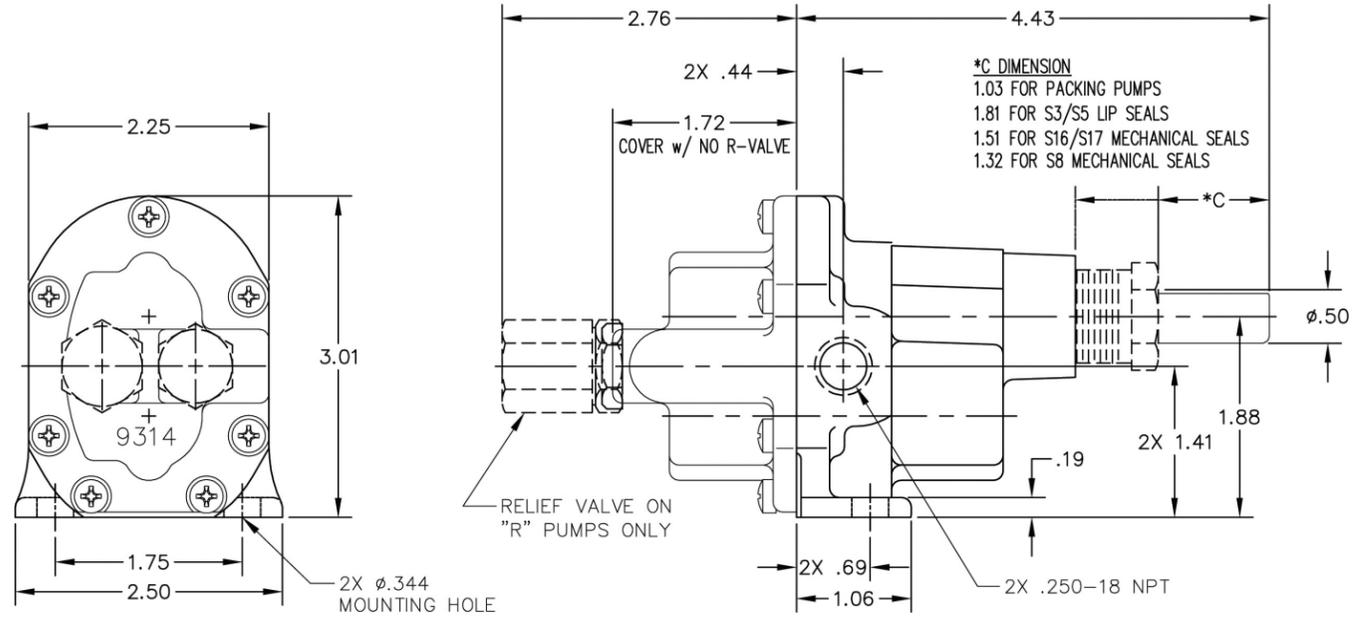


Bronze Pedestal Rotary Gear Pumps

N1000 Series

Dimensions



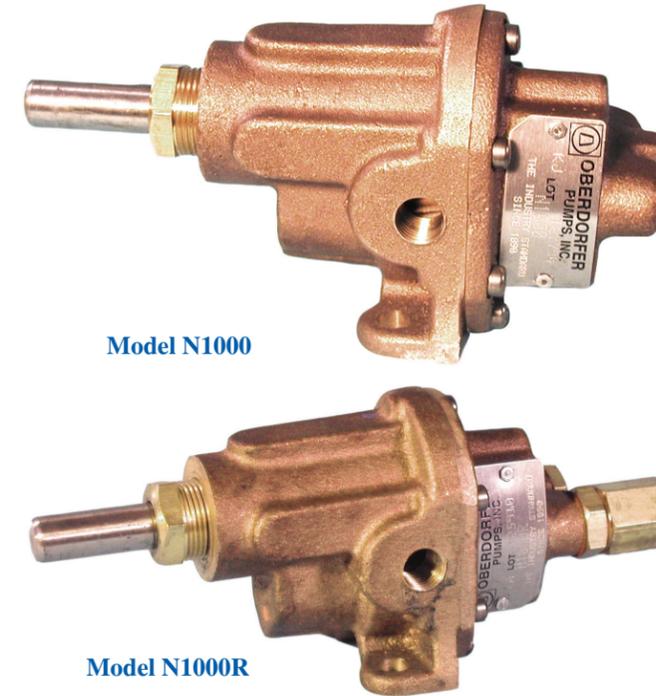

OBERDORFER PUMPS

by Gardner Denver

Bronze Pedestal Rotary Gear Pumps

N1000 Series

1/4" NPT Ports Standard



Liquids compatible with bronze and stainless steel can be pumped providing proper seal has been specified. (See chemical compatibility or check factory.) When possible, flush the pump after each usage.

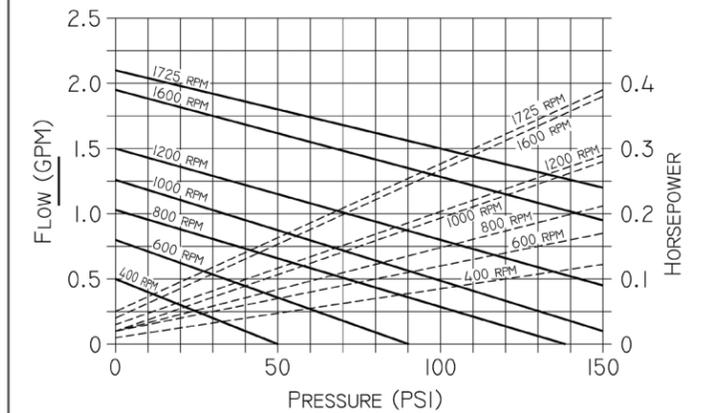
Temperature extremes are detrimental to service life and should be avoided. Basic metals of construction allow a temperature range of -40° to 400° F. Some lip and mechanical seal elastomers have a limit of 212° F. (see engineering data or check factory). Allowing a liquid to freeze in the pump can cause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

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.

PERFORMANCE:

Capacity Water 70° F



FEATURES:

- Bronze Corrosion Resistant Castings
- Special Cast Bronze Gears
- Stainless Steel Shafts & Fasteners
- Formed Ring Seal Packing, Lip Seals or Mechanical Seals are available
- Heavy Duty Carbon Bearings (Self Lubricating)
- Positive Displacement Flow

DRIVE:

Either direct drive with flexible coupling or pulley drive can be used. Make sure both flexible coupling halves are properly aligned. When using a pulley, do not overtighten the belt. Also, to absorb belt side thrust at higher pressures and larger size pumps, an external ball bearing support is recommended -- consult factory.

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.

NBR = Acrylonitrile-Butadiene PTFE = Polytetrafluorethylene FKM = Fluoroelastomer



OBERDORFER PUMPS

by Gardner Denver

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 Phone: (800) 448-1668; (315) 437-0361 • Fax: (315) 463-9561

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.

N1000Series.012015

Bronze Pedestal Rotary Gear Pumps

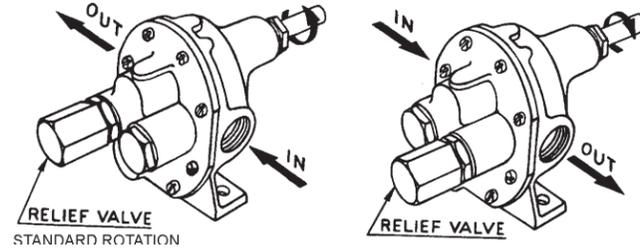
N1000 Series

BY-PASS AND ROTATION:

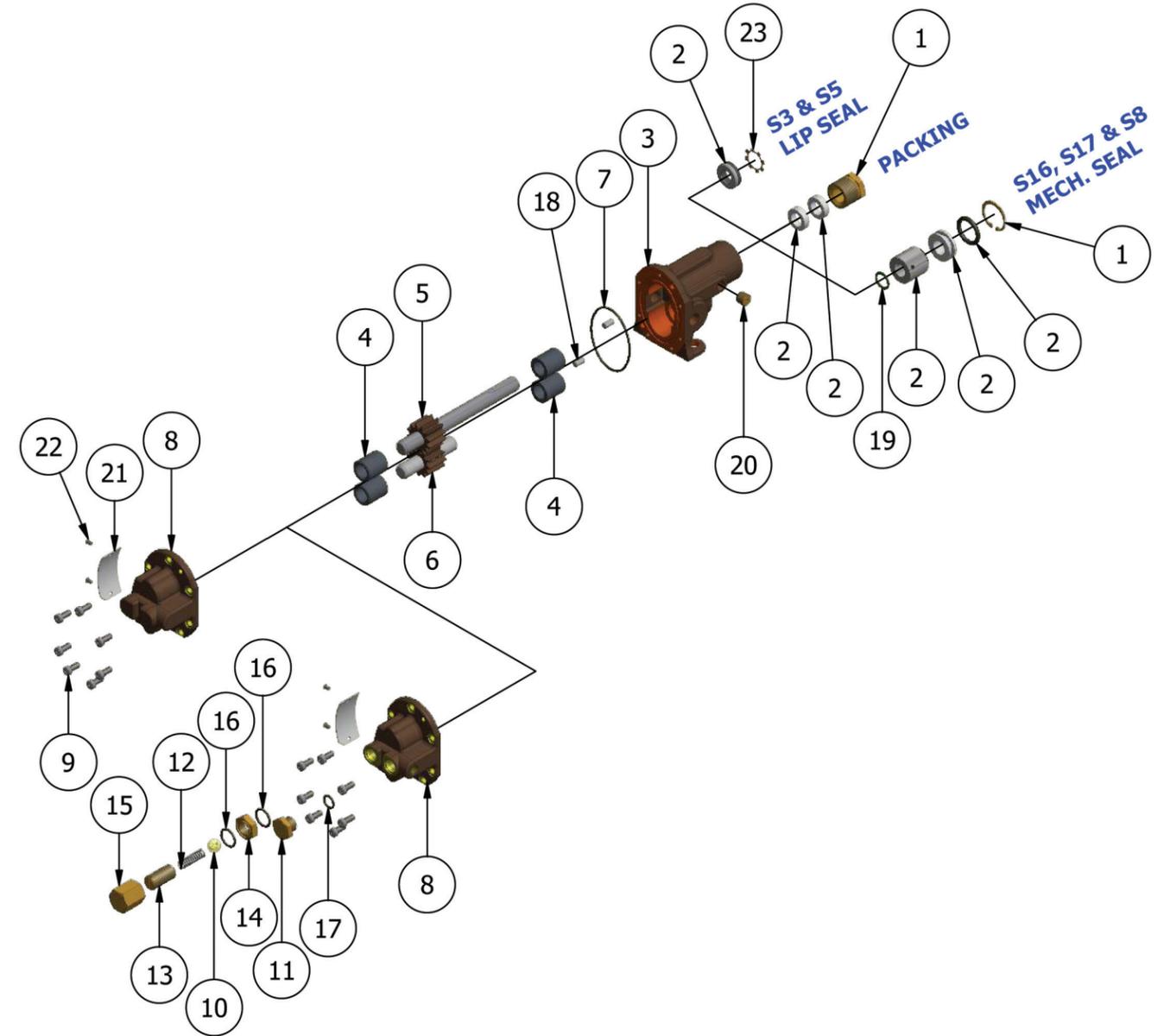
The pump by-pass is not intended to be a metering or flow control device. Its main purpose is to function as a pressure relief when the desired set point is exceeded, overheating can occur within 5 -10 minutes if the discharge line is completely shut off for extended periods.

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.



Exploded View



Parts List

	Seal Arrangement	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Packnut or Retaining Ring	Packing	Seal	Body	Bearing	Drive Gear Assy	Idle Gear Assy	O-Ring	Cover	Screw	Ball	Plug Nut	Spring	Adjust. Screw	Locknut	Bypass Nut
Model		Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 7	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1
N1000	Packing	1892	5481	NA	9311NB1N	5024	32101	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
N1000S3	NBR Lip	NA	NA	5007	9311NB2N	5024	32101	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
N1000S5	FKMLip	NA	NA	7580	9311NB2N	5024	32101	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
N1000S16	NBR Bellows Mech.	7639	NA	32584	9370NB4N	5024	32687	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
N1000S17	FKM Bellows Mech.	7639	NA	32585	9370NB4N	5024	32687	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
N1000S8	PTFE Wedge Mech.	7639	NA	32335	9370NB6N	5024	32687	32110	9797-033	9314NN5N	5385	NA	NA	NA	NA	NA	NA
Relief Valve Versions: N1000R, N1000RS3, N1000RS5, N1000RS16, N1000S17, N1000S8										9314NN5N	5809	5775	5806	5766	5774	5767	

	16	17	18	19	20	21	22	23	Repair Kit*
	O-Ring	O-Ring	Dowel Pin	Retaining Pin	Pipe Plug	Tag	Tag Screw	Lock Ring	
Model	Qty. 3	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 1	Qty. 1
N1000	NA	NA	8885	NA	NA	9344	9345	NA	10635
N1000S3	NA	NA	8885	NA	NA	9344	9345	NA	11266
N1000S5	NA	NA	8885	NA	NA	9344	9345	7626	11396
N1000S16	NA	NA	8885	5373	NA	9344	9345	NA	11925
N1000S17	NA	NA	8885	5373	NA	9344	9345	NA	12104
N1000S8	NA	NA	8885	5373	6052	9344	9345	NA	11283
Relief Valve Versions	6966	NA	NA	NA	6052	NA	NA	NA	NA

* All Repair Kits contain items 2, 4, 5, 6, 7

Items 8 and 10-17 for the "R" versions only.
Item 23 is only used on N1000S5 pumps.
Item 20 is only used on N1000S8 pumps.