



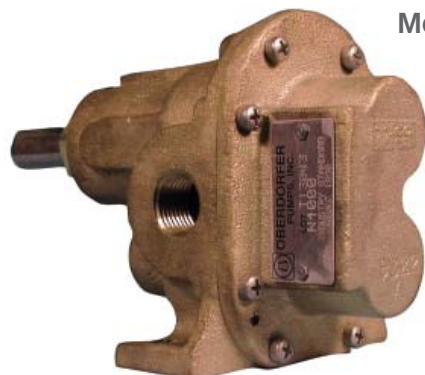
OBERDORFER PUMPS

by Gardner Denver

Bronze Pedestal Rotary Gear Pumps

N4000 Series

1/2" NPT Ports



Model N4000

Model N4000R



FEATURES:

- Bronze Corrosion Resistant Castings
- Special Cast Bronze Gears
- Stainless Steel Shafts & Fasteners
- Formed Ring Seal Packing (Lip & 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.

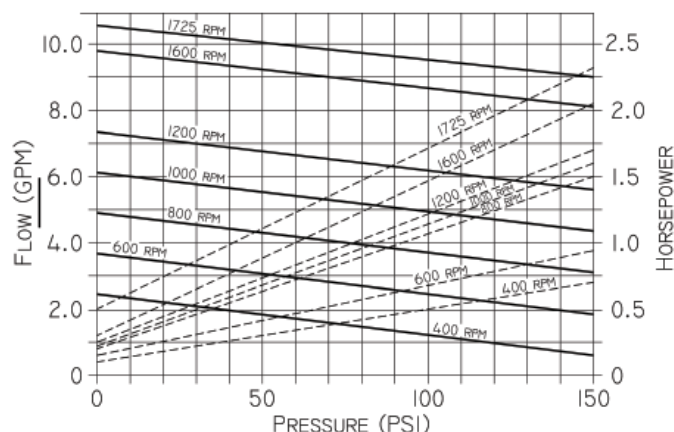
LIQUIDS AND TEMPERATURE:

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.

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.

PERFORMANCE:

CAPACITY WATER AT 70°F



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.

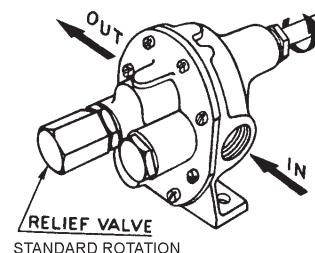
SUCTION LIFT:

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.

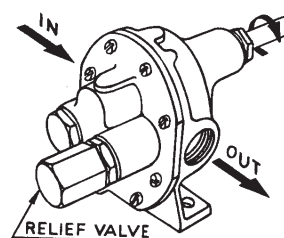
BY-PASS AND ROTATION:

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.



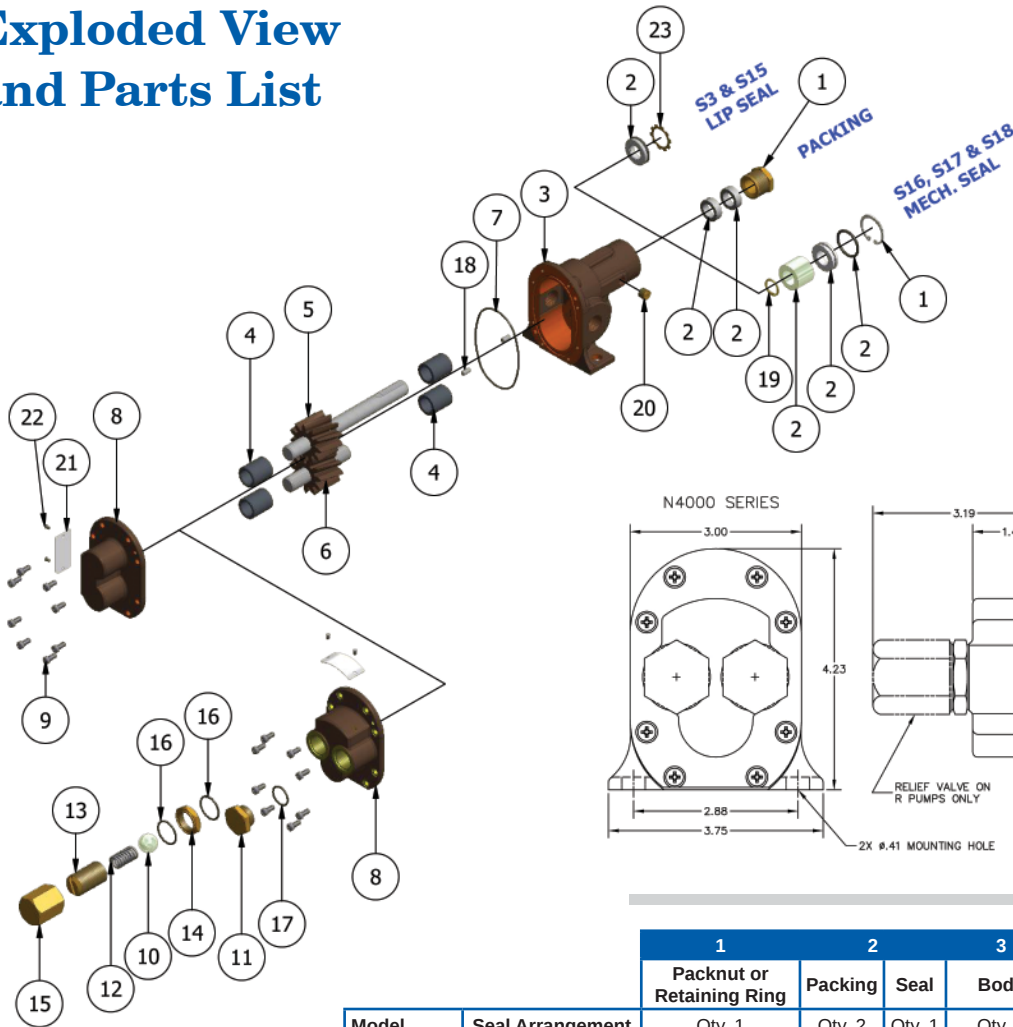
STANDARD ROTATION



Bronze Pedestal Rotary Gear Pumps

N4000 Series

Exploded View and Parts List

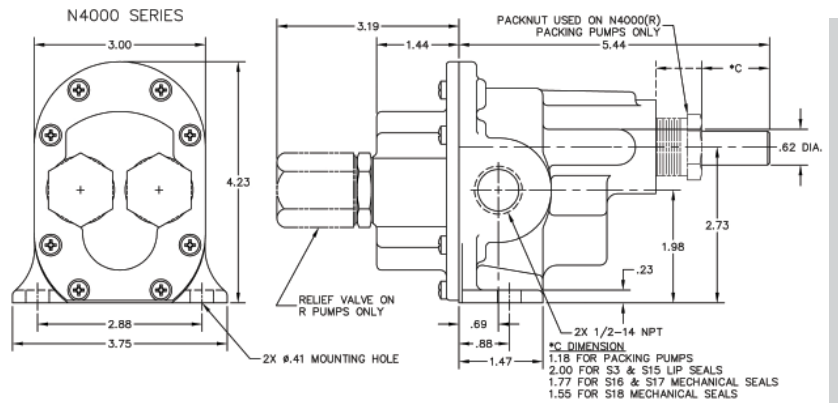


Relief Cover, Item 8 and items 10-17 for the "R" version only.

Item 23 is only used on N4000ES15 Pumps.

Item 20 is only used on N4000ES18 Pumps.

Dimensions



		1	2	3	4	5	6	7	
		Packnut or Retaining Ring	Packing	Seal	Body	Bearing	Drive Gear Ass'y	Idle Gear Ass'y	O-ring
Model	Seal Arrangement	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1
N4000	Packing	1762	5479	NA	9319ND1N	5091	33007	33008	9797-041
N4000S3	NBR Lip	NA	NA	5463	9319ND2N	5091	33007	33008	9797-041
N4000S15	FKM Lip	NA	NA	9997	9319ND2N	5091	33007	33008	9797-041
N4000S16	NBR Bellows Mech.	5374	NA	32202	9373ND9N	5091	33044	33008	9797-041
N4000S17	FKM Bellows Mech.	5374	NA	32235	9373ND9N	5091	33044	33008	9797-041
N4000S18	PTFE Wedge Mech.	5374	NA	32923	9373ND6N	5091	33044	33008	9355-041
Relief Valve Versions: N4000R, N4000RS3, N4000RS15, N4000RS16, N4000RS17, N4000RS18									

	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Cover	Screw	Ball	Plug Nut	Spring	Adj. Screw	Locknut	Bypass Nut	O-Ring	O-Ring	Dowel Pin	Retaining Ring	Pipe Plug	Tag	Tag Screw	Lock Ring	Repair Kit*
Model	Qty. 1	Qty. 8	Qty. 1	Qty. 1	Qty. 1	Qty. 1	1 req'd	Qty. 1	2 req'd	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 1	
N4000	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	NA	NA	9344	9345	NA	10637
N4000S3	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	NA	NA	9344	9345	NA	11387
N4000S15	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	NA	NA	9344	9345	3033	12106
N4000S16	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	5382	NA	9344	9345	NA	12131
N4000S17	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	5382	NA	9344	9345	NA	12132
N4000S18	9322NN5N	5385	NA	NA	NA	NA	NA	NA	NA	NA	8885	5382	6052	9344	9345	NA	12133
Relief Valve Versions	9323NN5B		5206	5205	5207	5200	5209D	5204	9797-021	9797-018							

* Repair kit contains items 2, 4, 5, 6, 7

NBR = Acrylonitrile-Butadiene

PTFE = Polytetrafluorethylene

FKM = Fluoroelastomer



OBARDORFER PUMPS

by Gardner Denver

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Visit 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.

N4000Series.062014