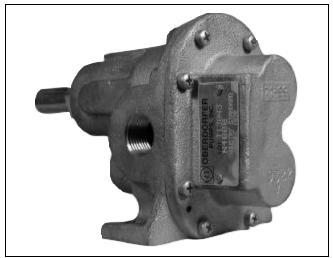
BRONZE PEDESTAL ROTARY GEAR PUMPS OBERDORFER PUMPS A Subsidiary of Thomas Industries Inc.

MODEL N2000 SERIES

MODEL N2000-1/4"NPT PORT STANDARD

MODEL N2000R



FEATURES

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

DRIVE

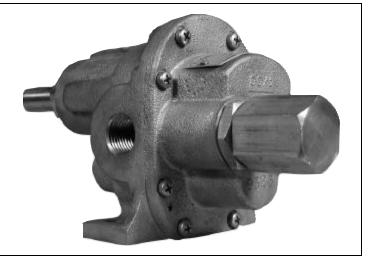
Either direct drive with flexible coupling or pulley drive can be used. Make sure both flexible coupling halves are properly aligned. When using a pulley, do not overtighten the belt. Also, to absorb belt side thrust at higher pressures and larger size pumps, an external ball bearing support is recommended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

Temperature extremes are detrimental to service life and should be avoided. Basic metals of construction allow a tem - perature 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.

CAPACITY - WATER 70° F

R.P.M.	FT.HD.	0	46	92	138	184	231	290	346
	P.S.I.	0	20	40	60	80	100	125*	150*
	GPM	0.97	0.69	0.40	0.10				
400	HP	0.02	0.04	0.08	0.10				
	MOTOR	1/6	1/6	1/6	1/6				
	GPM	1.50	1.30	1.09	0.88	0.68	0.47	0.21	
600	HP	0.03	0.05	0.09	0.13	0.18	0.24	0.26	
MOTOR 1/6 1/6 1/6 1 GPM 2.03 1.82 1.62 1. 800 HP 0.04 0.07 0.11 0. MOTOR 1/6 1/6 1/6 1 0 HP 0.04 0.07 0.11 0. MOTOR 1/6 1/6 1/6 1 0 HP 0.04 0.07 0.11 0. MOTOR 1/6 1/6 1 1 1 1 1000 HP 0.04 0.08 0.13 0.	1/6	1/4	1/4	1/4					
	GPM	2.03	1.82	1.62	1.41	1.21	1.00	0.65	0.30
800	HP	0.04	0.07	0.11	0.15	0.22	0.29	0.36	0.45
	MOTOR	1/6	1/6	1/6	1/6	1/4	1/3	1/2	1/2
	GPM	2.50	2.30	2.10	1.90	1.70	1.50	1.00	0.50
1000	HP	0.04	0.08	0.13	0.18	0.24	0.32	0.45	0.55
	MOTOR	1/6	1/6	1/6	1/4	1/4	1/3	1/2	1/2
	GPM	2.92	2.72	2.52	2.31	2.10	1.90	1.50	1.00
1200	HP	0.05	0.09	0.16	0.22	0.28	0.36	0.48	0.58
	MOTOR	1/6	1/6	1/6	1/4	1/3	1/3	1/2	1/2
	GPM	3.75	3.55	3.35	3.15	2.95	2.75	2.45	2.20
1600	HP	0.06	0.11	0.18	0.25	0.33	0.41	0.53	0.65
	MOTOR	1/6	1/6	1/4	1/4	1/3	1/2	1/2	3/4
	GPM	4.07	3.86	3.65	3.44	3.23	3.03	2.80	2.50
1725	HP	0.10	0.14	0.20	0.29	0.37	0.43	0.56	0.68
	MOTOR	1/6	1/6	1/4	1/3	1/2	1/2	3/4	3/4
H.P. = A	H.P. = Actual Horsepower Motor = Convenient Fractional Size								

H.P. = Actual Horsepower G.P.M. = Gallons per Minute

P.S.I. = Lbs. Per Square Inch Pressure

R.P.M. = Revolutions per Min. Ft. Hd. = Equiv. Press. in Ft of Water *For pressures over 100 psi, the above selections are suitable for pumping fluids with lubricity (e.q. oils, polymers). Service life will decrease for fluids without lubricity (e.q. water, solvents). MODEL N2000 SERIES

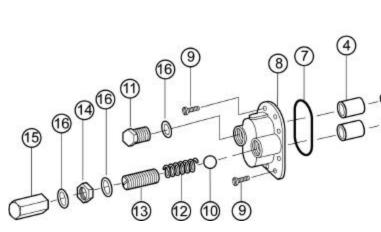
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A Subsidiary of Thomas Industries Inc.

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EXPLODED VIEW AND PARTS LIST



Pump No	1	2 ^{1,2}	3	4 ¹	5 ¹	6 ¹	7 ¹	8	9	10	11	12	13	14	15	16	17
	Packnut	Seal/	Body	Bearing	Drive Gear	Idle Gear	O-Ring	Cover	Screw	Ball	Plug	Spring	Adj.	Locknut	Bypass	Fiber	Dowel
		Packing			Assy.	Assy.					Nut		Screw		Nut	Washer	Pin
	1 Req'd	2 Req'd	1 Req'd	4 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	7 Req'd	1 Req'd	3 Req'd	2 Req'd					
N2000	1892	5481	9315NB1N	5024	32992	32993	9797-038	9316NN5N	5385					-			8885
N2000R	1892	5481	9315NB1N	5024	32992	32993	9797-038	9317NN5B	5385	5238	1838	1840	5237	5240	5239	6533	8885

¹ Repair Kits contain items 2, 4, 5, 6 &7. Repair Kit for N2000(R) is #10641. Items 1

²Seals

Number	Description	Part #	Reqd	Repair Kit			
S3	Buna N Lipseal	5007	1	11379			
S5	Viton(R)*-Teflon(R)* Lipseal	7580	1	11195			

Note: For seals S3 & S5 part #3 is 9315NB2N.

Number	Number Description		Reqd	Repair
		Number		Kit
S16	Buna N Mech. Seal	32584	1	11970
S17	Viton(R)* Mech. Seal	32585	1	12103

Note: For seals S16 & S17 part #5 is 33000 & part #3 is 9315NB4N.

* Viton(R) or equivalent FKM will be used. Viton(R) is a registered trademark of DuPont Dow Elastomers.

Teflon(R) or equivalent PTFE will be used. Teflon(R) is a registered trademark of DuPont.

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 dis - charge 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 p.s.i. To increase the setpoint, turn the by-pass valve adjusting screw in a clockwise direction.

7/00

ww.oberdorfer-pumps.com

Specifications are subject to change without notice.

PHONE 800-448-1668; (315) 437-0361

Items 10 thru 16 are for relief models only.

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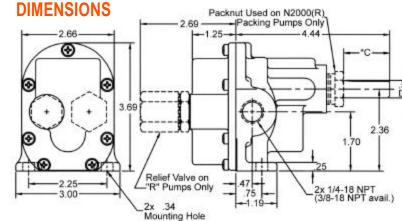
S16 & S

S3

& S5

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*C Dim: 1.03 for Packing Pumps, 1.81 for S3 & S5 Lip Seals, 1.51 for S16 & S17 Mech. Seals

