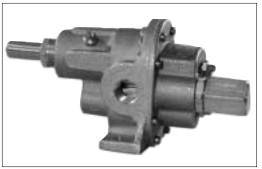
BRONZE PEDESTAL ROTARY GEAR PUMPS BRONZE BEARINGS

OBERDORFER PUMPS A Subsidiary of Thomas Industries Inc. MODEL N3000L N3000LR SERIES

MODEL N3000L - 1/2" NPT PORTS MODEL N3000LR





each usage.

can cause damage.

SUCTION LIFT

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

FEATURES

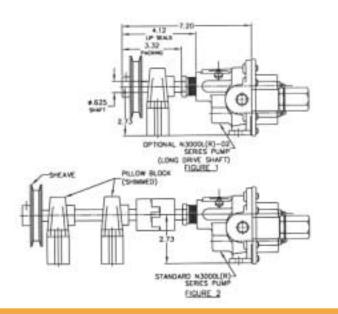
- Bronze corrosion resistant castings
- Special cast bronze helical gears for quiet operation
- Stainless steel shafts & fasteners
- Synthetic braided compression packing (with Teflon® dispersion) is standard
- Optional lip seals are available
- Positive displacement flow
- · Bronze bearing surfaces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

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 1 below) or

2) When space is an issue, use an optional "long shafted" pump and add a properly shimmed pillow block bearing (see figure 2).



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.

proper seal has been specified (see chemical compatibility or check

factory). No carbon bearings used. When possible, flush the pump after

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 engi-

neering data or check factory). Allowing a liquid to freeze in the pump

Temperature extremes are detrimental to service life and should

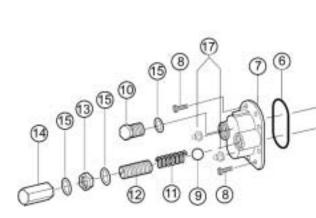
R.P.M.	FT.HD.	0	46	92	138	184	231	290	346		
	P.S.I.	0	20	40	60	80	100	125*	150*		
	GPM	1.50	1.05	0.70	0.40	0.20	0.10				
400	HP	0.05	0.08	0.13	0.15	0.20	0.24				
	MOTOR	1/6	1/6	1/6	1/6	1/4	1/4				
	GPM	2.38	2.14	1.89	1.64	1.39	1.15	0.70	0.32		
600	HP	0.06	0.10	0.17	0.20	0.28	0.35	0.44	0.53		
	MOTOR	1/6	1/6	1/4	1/4	1/3	1/3	1/2	1/2		
	GPM	3.17	2.90	2.64	2.37	2.11	1.85	1.70	1.30		
800	HP	0.08	0.17	0.23	0.20	0.40	0.48	0.54	0.65		
	MOTOR	1/6	1/4	1/4	1/3	1/2	1/2	1/2	3/4		
	GPM	4.00	3.74	3.48	3.22	2.96	2.71	2.40	2.15		
1000	HP	0.10	0.18	0.27	0.38	0.43	0.55	0.67	0.80		
	MOTOR	1/6	1/4	1/3	1/2	1/2	3/4	3/4	1		
	GPM	4.85	4.60	4.35	4.10	3.84	3.58	3.50	3.20		
1200	HP	0.15	0.25	0.33	0.45	0.55	0.68	0.85	1.00		
	MOTOR	1/6	1/4	1/3	1/2	3/4	3/4	1	1		
	GPM	6.67	6.42	6.16	5.90	5.64	5.38	5.25	5.00		
1600	HP	0.20	0.30	0.45	0.58	0.60	0.85	1.05	1.25		
	MOTOR	1/4	1/3	1/2	3/4	3/4	1	1	1 1/2		
	GPM	7.25	7.00	6.75	6.50	6.25	6.00	5.75	5.50		
1725	HP	0.38	0.50	0.65	0.80	0.95	1.10	1.25	1.40		
	MOTOR	1/3	1/2	3/4	1	1	1	1 1/2	1 1/2		
H.P. = Actua	al Horsepo	w er	Motor	r = Co	nvenie	ent Fra	actiona	al Size			
G.P.M. = Ga	llons per N	∕lin.	P.S.I. = Lbs. Per Square Inch Pressure								
R.P.M. = Rev	/ ner Min		Ft. Hd. = Equiv. Press. in Ft of Water								

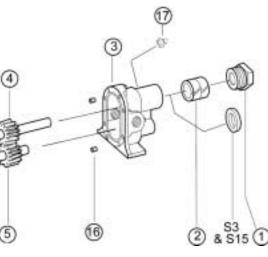
*For pressures over 100 psi, the above selections are suitable for pumping fluids with lubricity (e.q. oils, polymers). Service life will decrease for fluids without lubricity (e.q. water, solvents). **MODELS** N3000L N3000LR **SERIES**

BRONZE PEDESTAL ROTARY GEAR PUMPS

BRONZE BEARINGS OBERDORFER PUMPS A Subsidiary of Thomas Industries Inc.

EXPLODED VIEW AND PARTS LIST





	1	2*	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Packnut	Packing	Body	Drive Gear	Idle Gear	O-Ring	Cover	Screw	Ball	Plug Nut	Spring	Adj.	Locknut	Bypass	Fiber		Grease	Tag	Stick	Repair
	. donariat	laonang	Body	Assy	Assy	o rung	00101	00101	b	r lug r lut	oping	Screw	Loonardi	Nut	Washer Pin	Fitting	iug	Screw		
Pump No.	1 Req'd	2 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	8 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	3 Req'd	2 Req'd	2 Req'd	1 Req'd	1 Req'd	Kit
N3000L	1762	5479	9318PC1N-2	33001	33002	9797-041	9322PN5N-1	5385	N⁄A	N∕A	N⁄A	N/A	N/A	N⁄A	N/A	8885	5390	9344	9345	12217
N3000LR	1762	5479	9318PC1N-2	33001	33002	9797-041	9323PN5B-1	5385	5206	5205	5207	5200	5209	5204	6964	8885	Qty. 3.00 5390	9344	9345	12217

Repair Kits contain items 2, 4, 5 and 6. Items 18 and 19 not shown above.

		1	2	3	20
*Lipseals		Packnut	Lipseal	Body	Repair Kit
Number	Description	1 Req'd	1 Req'd	1 Req'd	керап кі
S3	Buna Lipseal	N/A	5463	9318PC2N-1	12218
S15	Viton-Teflon Lipseal	N/A	9997	9318PC2N-1	12219

* Viton(® or equivalent FKM will be used. Viton® is a registered

trademark of DuPont Dow Elastomers.

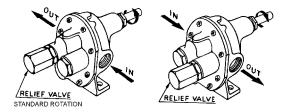
Teflon® or equivalent PTFE will be used. Teflon® is a registered trademark of DuPont.

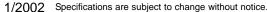
BY-PASS AND ROTATION

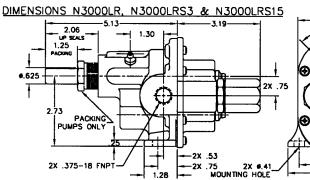
The pump by-pass is not intended to be a metering or flow control device. Its main purpose is to function as a pressure relief when the desired set point is exceeded, overheating can occur within 5 -10 minutes if the discharge line is completely shut off for extended periods.

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

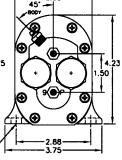
The by-pass valve is factory set at 50 p.s.i. To increase the setpoint, turn the by-pass valve adjusting screw in a clockwise direction.



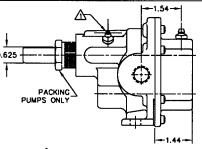


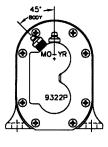


DIMENSIONS



DIMENSIONS N3000L, N3000LS3 & N3000LS15





GREASE FITTINGS (ITEM 17) INSTALLED INTO .125-27 NPT CONNECTIONS.