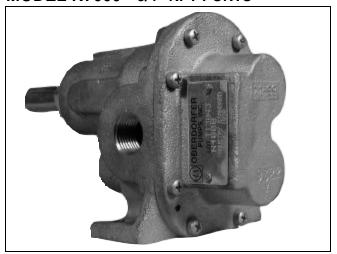
BRONZE PEDESTAL ROTARY GEAR PUMPS



MODEL N7000 SERIES

MODEL N7000 - 3/4" NPT PORTS



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.

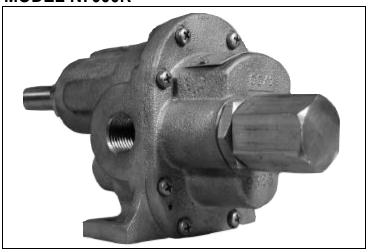
LIQUIDS AND TEMPERATURE

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 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.

MODEL N7000R



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*	
400	GPM	4.00	3.45	2.90	2.35	1.50	1.30	1.20	1.00	
	HP	0.20	0.23	0.30	0.39	0.55	0.65	0.70	0.90	
	MOTOR	1/4	1/4	1/3	1/2	1/2	3/4	3/4	1	
600	GPM	6.30	5.78	5.26	4.74	4.22	3.95	3.50	3.10	
	HP	0.25	0.30	0.40	0.65	0.75	0.95	1.15	1.40	
	MOTOR	1/4	1/3	1/2	3/4	3/4	1	1 1/2	1 1/2	
	GPM	8.58	8.18	7.78	7.38	6.98	6.57	6.40	6.20	
800	HP	0.30	0.40	0.58	0.85	0.93	1.15	1.40	1.70	
	MOTOR	1/3	1/2	3/4	1	1	1 1/2	1 1/2	2	
	GPM	10.90	10.51	10.12	9.72	9.33	8.93	8.00	7.90	
1000	HP	0.40	0.60	0.70	0.90	1.10	1.38	1.60	1.92	
	MOTOR	1/2	3/4	3/4	1	1	1 1/2	2	2	
1200	GPM	13.33	12.94	12.55	12.16	11.76	11.37	11.20	11.10	
	HP	0.50	0.70	0.85	1.08	1.35	1.65	1.90	2.20	
	MOTOR	1/2	3/4	1	1	1 1/2	2	2	3	
	GPM	18.17	17.79	17.41	17.03	16.65	16.28	16.10	16.00	
1600	HP	0.70	0.91	1.20	1.50	1.80	2.14	2.50	2.90	
	MOTOR	3/4	1	1 1/2	1 1/2	2	2	3	3	
1725	GPM	19.85	19.48	19.11	18.74	18.37	18.00	17.70	17.40	
	HP	0.80	1.10	1.42	1.85	2.18	2.65	3.00	3.60	
	MOTOR	1	1	1 1/2	2	2 1/2	3	3	3	

H.P. = Actual Horsepower

Motor = Convenient Fractional Size
P.S.I. = Lbs. Per Square Inch Pressure

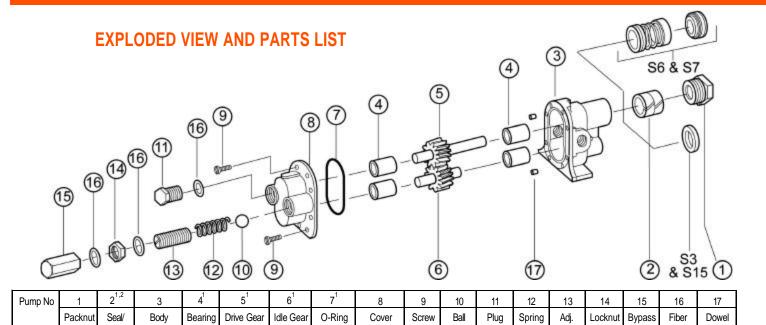
G.P.M. = Gallons per Minute R.P.M. = Revolutions per Min.

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).

BRONZE PEDESTAL ROTARY GEAR PUMPS





1 Reg'd

9326NN5N

5091 Repair Kits contain items 2, 4, 5, 6, & 7, Repair Kit for N7000(R) is #10638.

2 Req'd

5091

Assy

1 Reg'd

33015

33015

Assy.

1 Reg'd

32959

1 Reg'd

9797-045

9797-045

Items 10 thru 16 are for relief models only.

1 Req'd

5277

Screw

1 Reg'd

5275

1 Reg'd

Nut

1 Reg'd

Washer

3 Reg'd

Nut

1 Reg'd

5278

8 Req'd

5385

5385

1 Regio

6217

²Seals

N7000

N7000R

Number	Description	Part#	Reqd	Repair Kit
S3	Buna N Lipseal	5463	1	11258
S15	Viton(R)*-Teflon(R)* Lipseal	9997	1	12107

1 Req'd

9324NE1N

9324NE1N

Note: For seals S3 & S15 part #3 is 9324NE2N.

Packing

2 Req'd

5479

5479

1 Reg'd

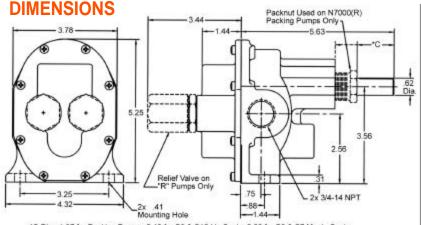
1762

1762

Number	Description	Part	Reqd	Repair
		Number		Kit
S6	Buna N Mech. Seal	32202	1	11061
S7	Viton(R)* Mech. Seal	32235	1	11448

Note: For seals S6 & S7 part #5 is 333016 & part #3 is 9324NE4N.

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



*C Dim: 1.37 for Packing Pumps, 2.18 for \$3 & \$15 Lip Seals, 2.56 for \$6 & \$7 Mech. Seals

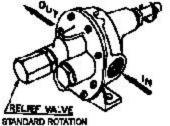
BY-PASS AND ROTATION

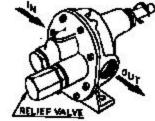
The pump by-pass is not intended to be a metering or flow control device. Its main purpose is to function as a pressure relief when the desired set point is exceeded, overheating can occur within 5 -10 minutes if the dis charge line is completely shut off for extended periods.

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 Specifications are subject to change without notice.





Pin

2 Reg'd

8885

8885

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