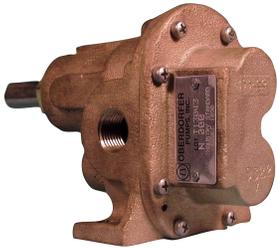


BRONZE PEDESTAL ROTARY GEAR PUMPS

GEAR PUMPS SERIES N3000

PERFORMANCE



FEATURES

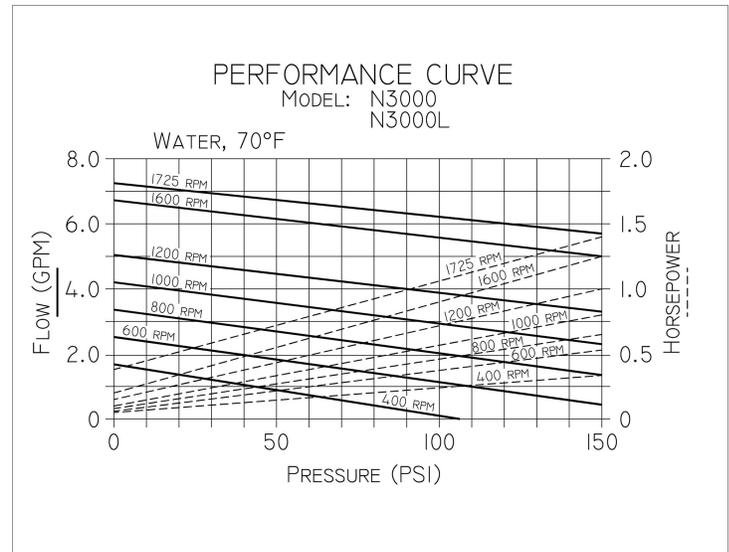
- Bronze Corrosion Resistant Castings
- Special Cast Bronze Gears
- Stainless Steel Shafts & Fasteners
- Formed Ring Seal Packing (Lip & Mechanical Seals on Special Order)
- Heavy Duty Carbon Bearings (Self Lubricating)
- Positive Displacement Flow

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 over tighten 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

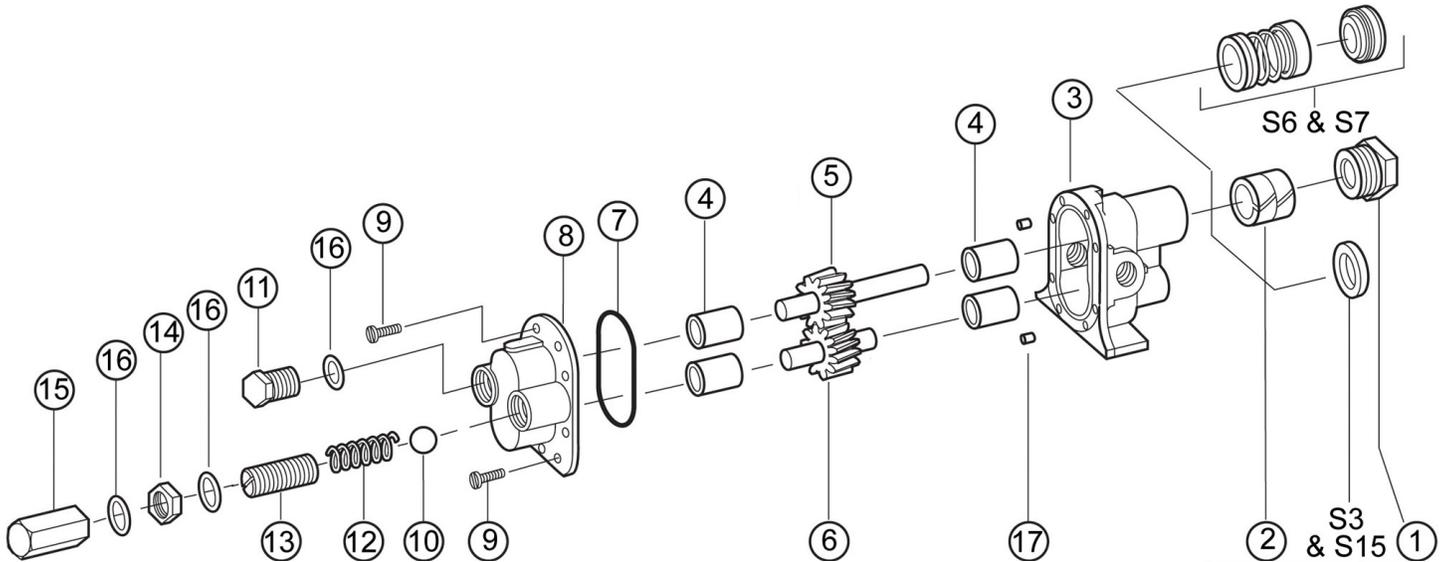
Service life will be increased substantially if the liquid pumped is clean and has some degree of lubricity. These positive displacement pumps have tight tolerances. Fine abrasives like sand, silt, or powders in suspension will accelerate pump wear and reduce throughput. Liquids compatible with bronze 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 400o F. Some lip and mechanical seal elastomers have a limit of 212o 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.

EXPLODED VIEW AND PARTS LIST



Pump No	Seal Arrangement																		Repair Kit			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	
		Packnut or Retaining Ring	Packing	Seal	Body	Bearing	Drive Gear Assy	Idle Gear Assy	O-ring	Cover	Screw	Ball	Plug Nut	Spring	Adj. Screw	Locknut	Bypass Nut	Fiber Washer	Dowel Pin	Retaining Ring	Pipe Plug	
		1 req'd	2 req'd	1 req'd	1 req'd	4 req'd	1 req'd	1 req'd	1 req'd	1 req'd	1 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	1 req'd	1 req'd	
N3000	Packing	1762	5479	NA	9318NC1N	5091	33001	33002	9797-041	9322NNS	5385								8885			10636
N3000S3	Buna Lip	NA	NA	5463	9318NC2N	5091	33001	33002	9797-041	9322NNS	5385								8885			11350
N3000S15	Viton Lip	NA	NA	9997	9318NC2N	5091	33001	33002	9797-041	9322NNS	5385								8885			12105
N3000S16	Buna Bellows Mech.	5374	NA	32202	9372NC9N	5091	33045	33002	9797-041	9322NNS	5385								8885	5382		12134
N3000S17	Viton Bellows Mech.	5374	NA	32235	9372NC9N	5091	33045	33002	9797-041	9322NNS	5385								8885	5382		12135
N3000S18	Teflon Wedge Mech.	5374	NA	32923	9372NC6N	5091	33045	33002	9355-041	9322NNS	5385								8885	5382	6052	12136
Relief Valve Versions: N3000R, N3000RS3, N3000RS15, N3000RS16, N3000RS17, N3000RS18										9323NNSB	5206	5205	5207	5200	5209	5204	6964					

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

Pump No	N3000
Seal Arrangement	Packing
Packnut or Retaining Ring	
Packing	
Seal	
Body	
Bearing	
Drive Gear Assy	
Idle Gear Assy	
O-ring	
Cover	
Screw	
Ball	
Plug Nut	
Spring	
Adj. Screw	
Locknut	
Bypass Nut	
Fiber Washer	
Dowel Pin	
Retaining Ring	
Pipe Plug	
Repair Kit	

