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

MODEL N7000 SERIES

MODEL N7000 - 3/4" NPT PORTS

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 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.

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

<table>
<thead>
<tr>
<th>R.P.M.</th>
<th>FT.HD.</th>
<th>P.S.I.</th>
<th>0</th>
<th>20</th>
<th>40</th>
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<tr>
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<td>1</td>
<td>1 1/2</td>
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</table>

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

www.oberdorfer-pumps.com
PHONE 800-448-1668; (315) 437-0361
FAX (315) 463-9561
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**EXPLODED VIEW AND PARTS LIST**

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<td>Seal</td>
<td>Body</td>
<td>Bearing</td>
<td>Drive Gear</td>
<td>Idle Gear</td>
<td>O-Ring</td>
<td>Cover</td>
<td>Screw</td>
<td>Ball</td>
<td>Plug</td>
<td>Spring</td>
<td>Adj.</td>
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<td>Bypass</td>
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Seals

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<td>Buna N Lipseal</td>
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<td>S15</td>
<td>Viton(R)<em>-Teflon(R)</em> Lipseal</td>
<td>9997</td>
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Note: For seals S3 & S15 part #3 is 9324NE2N.

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**DIMENSIONS**

* 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.

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**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.

Specifications are subject to change without notice.

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* www.oberdorfer-pumps.com

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