



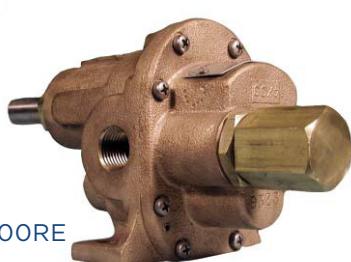
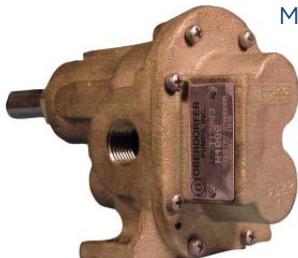
OBERDORFER®

An Ingersoll Rand Business



N4000E Series Bronze Pedestal Rotary Gear Pumps

Model OBN4000E



Model OBN4000RE

Features

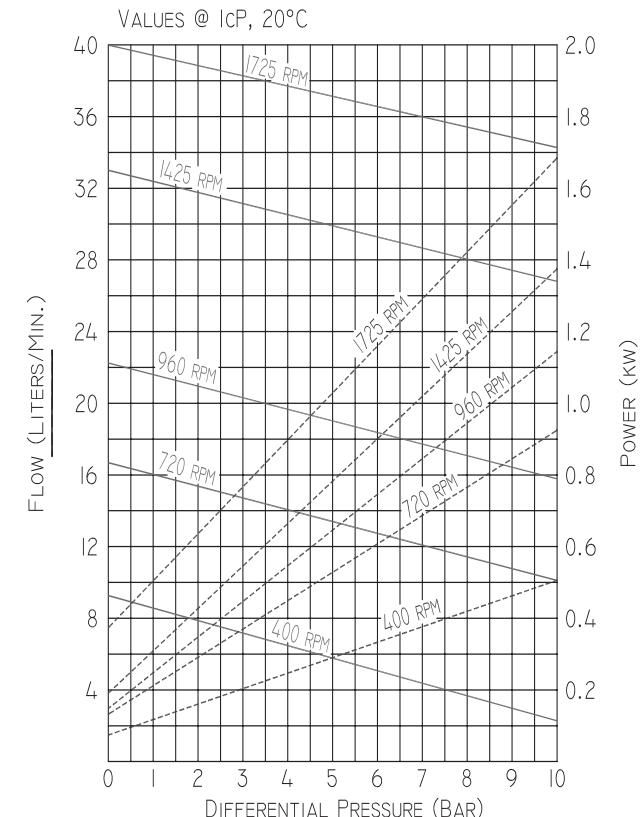
- 1/2" BSPT Ports
- Temp. Range: -40 - 204°C
- Bronze Corrosion Resistant Castings
- Special Cast Bronze Gears
- Stainless Steel Shafts & Fasteners
- Formed Ring Seal Packing, Lipseal & Mechanical Seal Options
- Heavy Duty Carbon Bearings (Self Lubricating)
- Positive Displacement Flow

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 204°C.

Performance

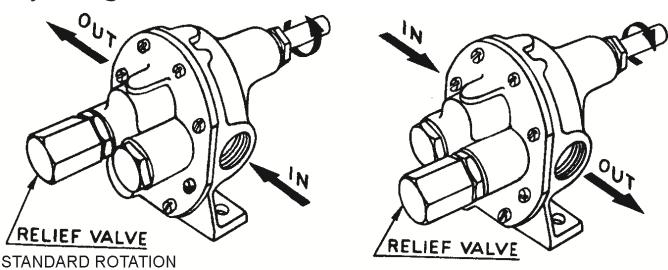


Some lip and mechanical seal elastomers have a limit of 100°C. (see engineering data or check factory). Allowing a liquid to freeze in the pump can cause damage

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 3.5 bar. To increase the setpoint, turn the by-pass valve adjusting screw in a clockwise direction.





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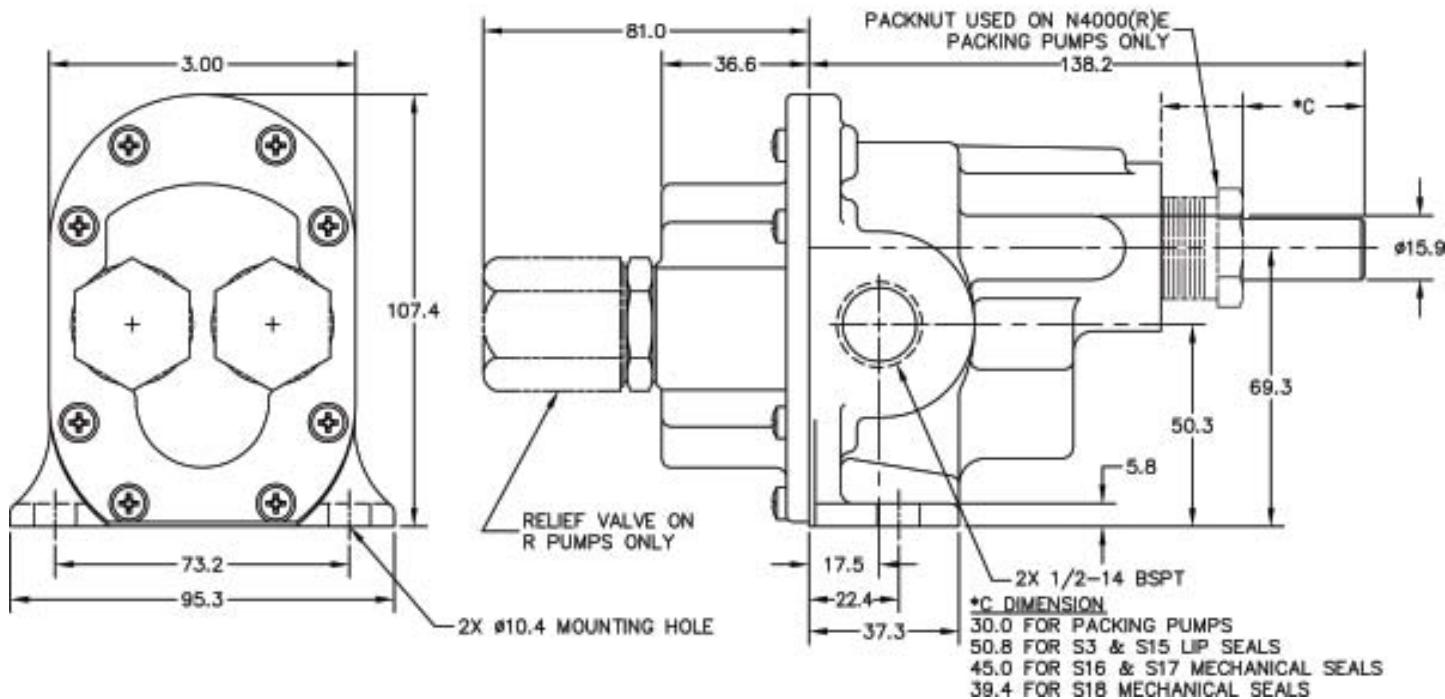
Suction Lift

Close tolerances and the positive pumping action make the rotary gear pump capable of lifting water on the suction side as high as 6 meters. 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.

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.

Dimensions



 **Ingersoll Rand**

12500 South Pulaski Road
Alsip, IL 60803, USA
Phone (800) 448.1668



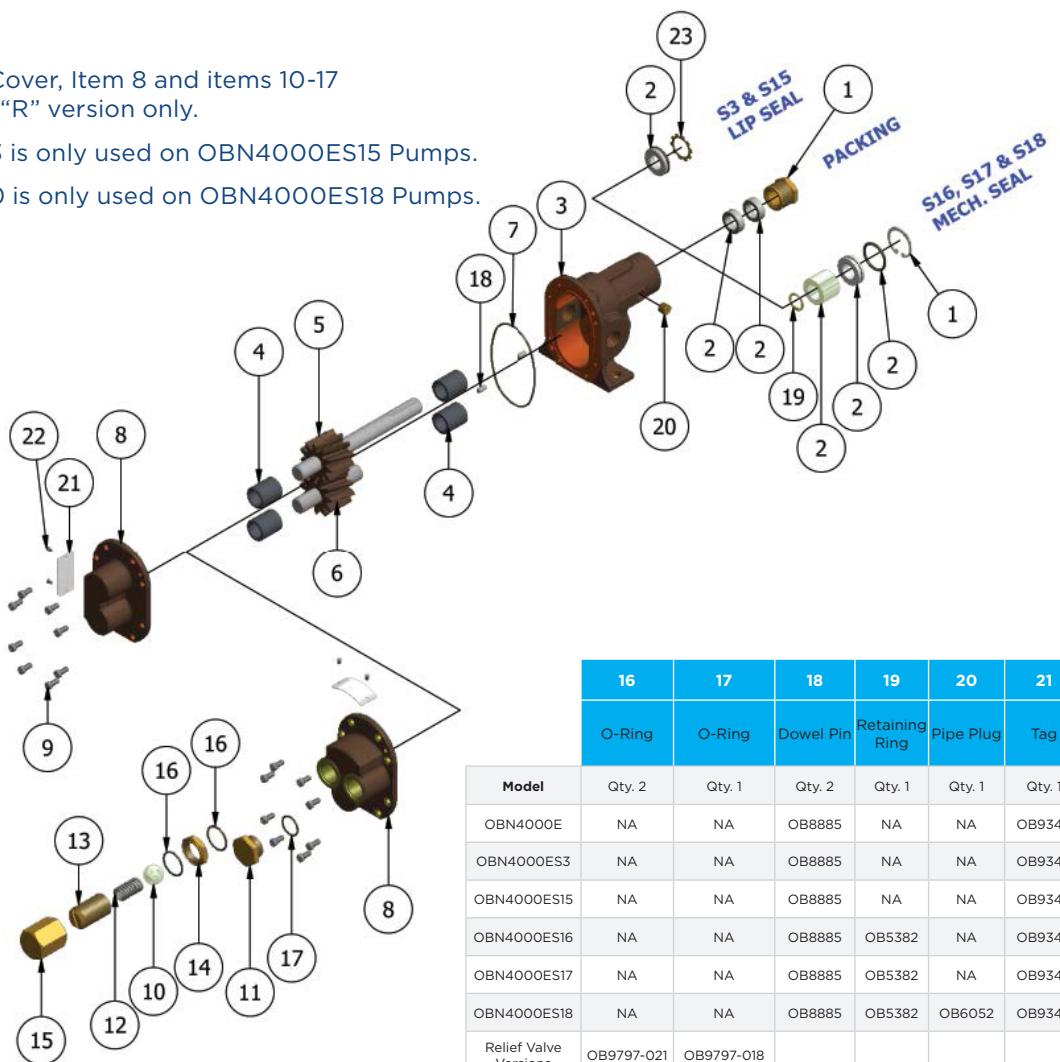
Parts List

	Seal Arrangement	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Model	Seal Arrangement	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 8	Qty. 1					
OBN4000E	Packing	OB1762	OB5479	NA	OB9319ND1N	OB5091	OB33007	OB33008	OB9797-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
OBN4000ES3	Buna Lip	NA	NA	OB5463	OB9319ND2N	OB5091	OB33007	OB33008	OB9797-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
OBN4000ES15	Viton Lip	NA	NA	OB9997	OB9319ND2N	OB5091	OB33007	OB33008	OB9797-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
OBN4000ES16	Buna Bellows Mech.	OB5374	NA	OB32202	OB9373ND9N	OB5091	OB33044	OB33008	OB9797-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
OBN4000ES17	Viton Bellows Mech.	OB5374	NA	OB32235	OB9373ND9N	OB5091	OB33044	OB33008	OB9797-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
OBN4000ES18	Teflon Wedge Mech.	OB5374	NA	OB32923	OB9373ND6N	OB5091	OB33044	OB33008	OB9355-041	OB9322NN5N	OB5385	NA	NA	NA	NA	NA
Relief Valve Versions: OBN4000RE, OBN4000RES3, OBN4000RES15, OBN4000RES16, OBN4000RES17 & OBN4000RES18																
OB9323NN5B																
OB5206																
OB5205																
OB5207																
OB5200																
OB5209D																
OB5204																

Relief Cover, Item 8 and items 10-17 for the "R" version only.

Item 23 is only used on OBN4000ES15 Pumps.

Item 20 is only used on OBN4000ES18 Pumps.



Model	16	17	18	19	20	21	22	23	Repair Kit*
	O-Ring	O-Ring	Dowel Pin	Retaining Ring	Pipe Plug	Tag	Tag Screw	Lock Ring	
OBN4000E	NA	NA	OB8885	NA	NA	OB9344	OB9345	NA	OB10637
OBN4000ES3	NA	NA	OB8885	NA	NA	OB9344	OB9345	NA	OB11387
OBN4000ES15	NA	NA	OB8885	NA	NA	OB9344	OB9345	OB3033	OB12106
OBN4000ES16	NA	NA	OB8885	OB5382	NA	OB9344	OB9345	NA	OB12131
OBN4000ES17	NA	NA	OB8885	OB5382	NA	OB9344	OB9345	NA	OB12132
OBN4000ES18	NA	NA	OB8885	OB5382	OB6052	OB9344	OB9345	NA	OB12133
Relief Valve Versions	OB9797-021	OB9797-018							

* Repair kit contains 2, 4, 5, 6 and 7