

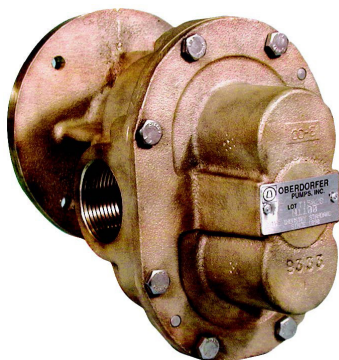


# OBERDORFER®

An Ingersoll Rand Business

## N1100E Series

**Bronze Close Coupled  
Rotary Gear Pumps**



Refer to Model No. OBN11HDLE for pedestal model and performance at different speeds.

### Features

- 1-1/4" BSPT Ports
- Temp. Range: -40°C to 204°C
- Bronze Construction with Stainless Steel Shafts
- Positive Spring Loaded Lip Seal made from FKM
- Available with Motor Adapter and Hardware
- Easy Field Assembly to Motors
- Self-Lubricating Carbon Bearings
- Consult Factory for Special Motors

### Drive

The pump is driven directly from the electric motor shaft by means of a flexible coupling. An aluminum adapter connects the pump to the motor.

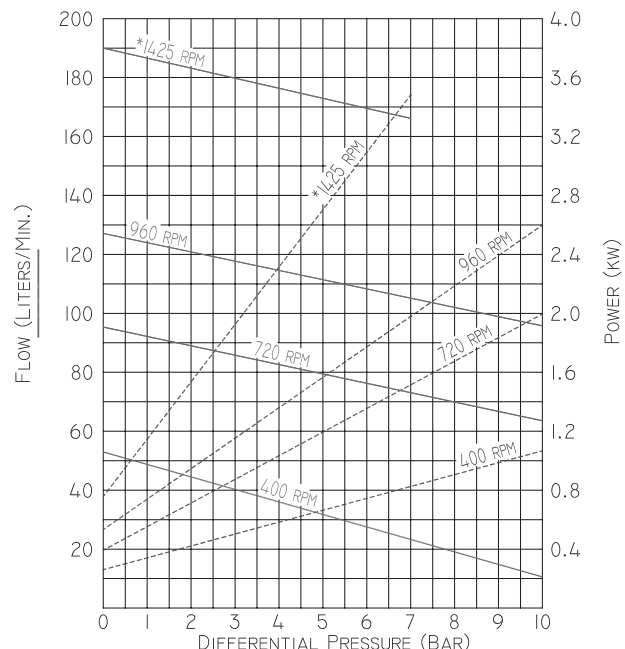
### Suction Lift

A rotary gear pump is 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 gears with the 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.

### Performance

VALUES @ 1cP, 20°C

\*INTERMITTENT DUTY ONLY



### Liquids and Temperature

Service life will be increased substantially if liquid pumped is clean and has lubricity value. These pumps have extremely close tolerance. Fine abrasives like sand, silt, or powders in suspension will destroy pumping ability.

Liquids compatible with bronze, stainless steel, and a FKM lip seal can be pumped, check with Oberdorfer factory. NBR Lip Seal (S3) available.

Temperature extremes are detrimental to service life and should be avoided. Temperature range for this pump is from -40°C to 204°C. Freezing liquid in the pump can deform or damage the pump.

### Rotation

The pump or pump/motor unit is supplied by the factory for shaft rotation in either direction. Reversing the motor rotation will reverse the "in" and "out" ports.

To reverse single phase motors, find instructions on the inside of junction box cover or on name plate of motor.

Three phase motors are not wired for any particular rotation. They can be reversed by interchanging any 2 wires of the 3 wire leads.



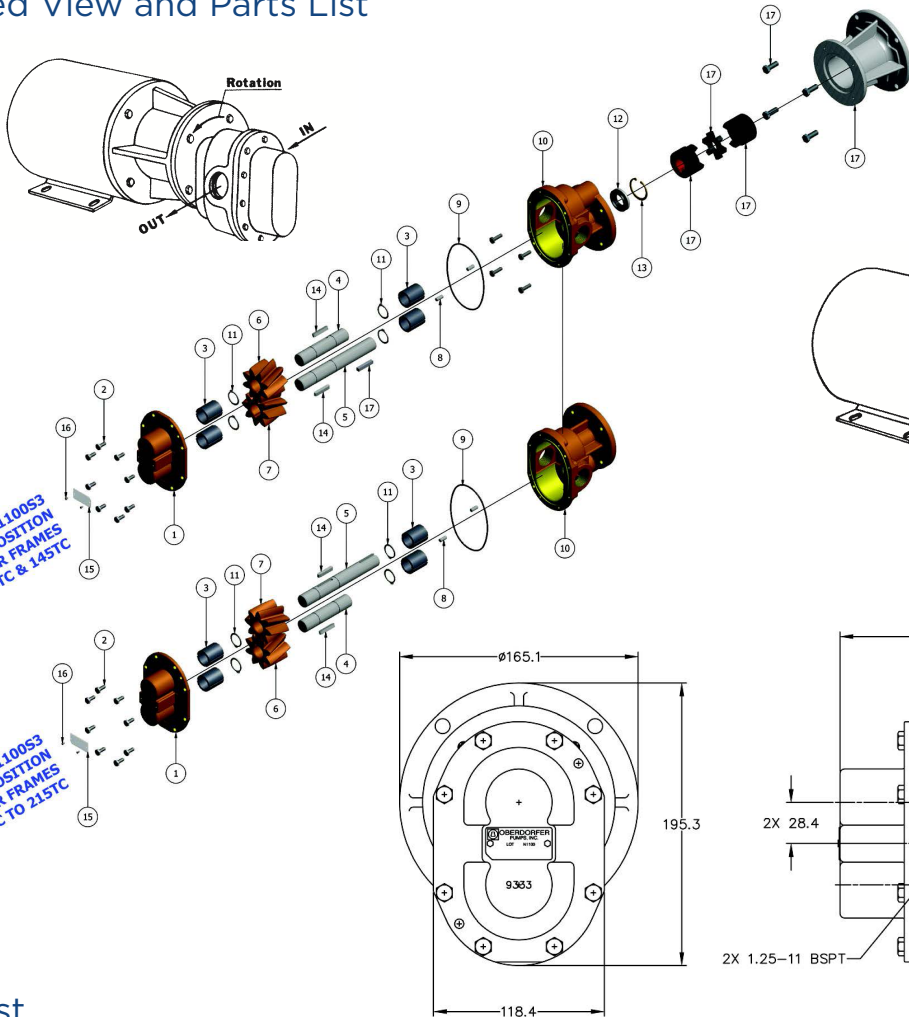
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## Exploded View and Parts List

No. 1100E  
Idler Up  
Position

Motor  
Frames  
182 to 215



## Dimensions

## Parts List

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Cover	Cover Screws	Bearing	Idle Shaft	Drive Shaft	Idle Gear	Drive Gear	Dowel Pins	O-Ring	Body	Ret. Ring	Lip Seal	Ret. Ring	Key	Tag	Tag Screw	Adapter Kits	Repair Kit
Model	Qty. 1	Qty. 8	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 2	Qty. 1	Qty. 2		
OBN1100E	OB9333NN5N	OB5393	OB5108	OB7652	OB8720	OB9834	OB9833	OB8597	OB9797-158	OB9330NG3N	OB7651	OB7262	OB7345	OB6518	OB9344	OB9345	See below	OB11581
OBN1100ES3												OB6500						OB11585

Repair Kit contains items 3, 4, 5, 6, 7, 9, 11, 12, 13 & 14

Adapter Kits		
Adapter	Part Number	Description
W	OB11617	56C Frame
X	OB11608	143TC, 145TC, 182C & 184C
Y	OB11609	182TC, 184TC, 213C & 215C
Z	OB11610	213TC & 215TC
--	OB12032	IEC 90S/90L*
--	OB12003	IEC100L/112M*

Motor/Adapter Kit Dimensions (mm)			
Model	Motor Frame	A	B
OBN1100EW & OBN1100ES3W	56C	192.0	271.3
OBN1100EX & OBN1100ES3X	143TC, 145TC, 182C & 184C	192.0	271.3
OBN1100EY & OBN1100ES3Y	182TC, 184TC, 213C & 215C	212.9	292.1
OBN1100EZ & OBN1100ES3Z	213TC & 215TC	212.9	292.1
--	IEC 90S/90L*	204.7	284.2
--	IEC100L/112M*	204.7	284.2

\* To IEC 72 Standard B3/B14



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