



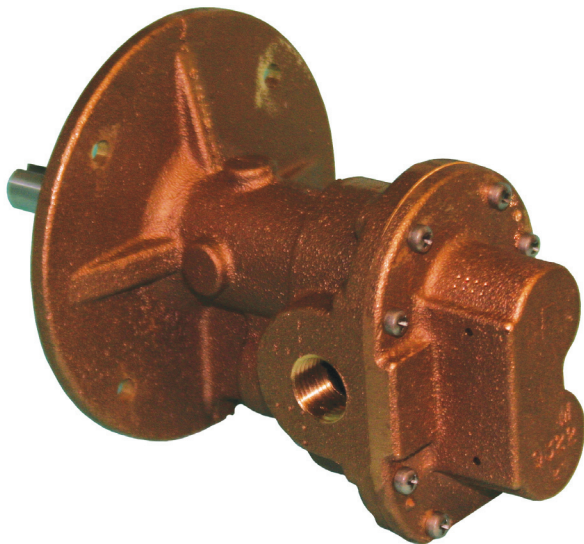
OBERDORFER PUMPS

by Gardner Denver

High Pressure Bronze Close Coupled Rotary Gear Pumps

H994 Series

Model H994 - 1/2" NPT Ports



FEATURES:

- High strength Navy M Bronze housing
- Rugged bronze spur gears
- Hardened stainless steel shafts
- Silicon carbide bearings
- 300 PSI pressure capability
- Mechanical seal
- O-ring housing seal
- Bidirectional
- Easy field assembly to footed NEMA C-Face and IEC B14 Motors*

GENERAL DESCRIPTION:

Gear pumps are positive displacement pumps. Each shaft revolution displaces a definite amount of liquid relatively unaffected by the back pressure in the discharge line. Shaft speed and flow are directly proportional.

DRIVE ARRANGEMENT:

Close coupled pumps are mounted directly to the electric motor by means of a suitable adapter bracket. The pump drive shaft is connected to the motor shaft by a flexible coupling.

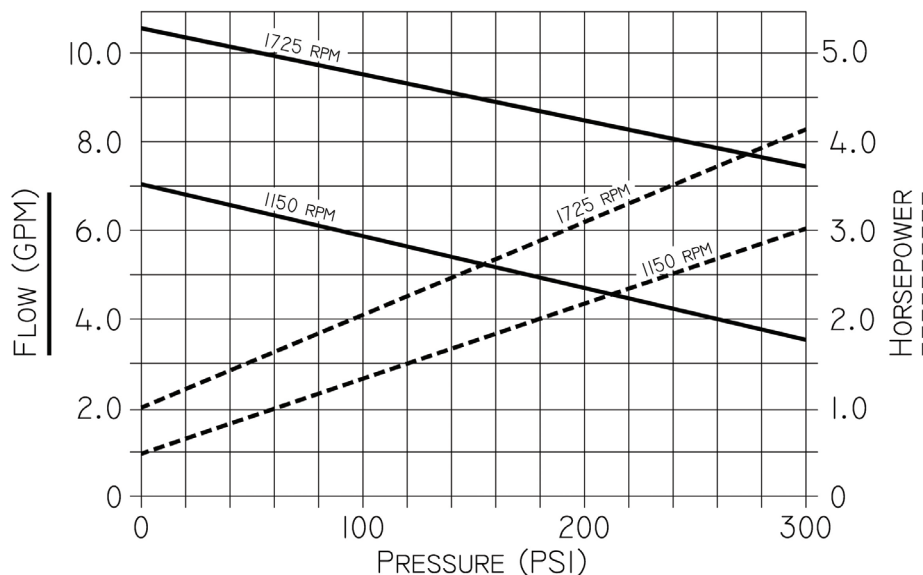
LIQUIDS AND TEMPERATURE:

These pumps are suitable for all liquids that are compatible with bronze. Most common liquids are water, oil, and mild chemicals in the pH-range of 4 to 11. Viscous liquids require reduced shaft speeds of 1150 RPM or lower. Consult factory.

Liquids containing solids, abrasives, powders or paint pigments are definitely not recommended for gear pumps. If abrasives are unavoidable, use a very low shaft speed. See pricebook for the recommended liquid temperature range of mechanical seals.

PERFORMANCE:

Capacity - Water 70° F



* See "Adapter Kits" chart

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Freezing of water-filled pumps can cause damage and must be avoided. Oils at low temperatures are very viscous requiring a lower speed or extra power.

SUCTION LIFT:

As a general rule, the suction lift should be kept at an absolute minimum by placing the pump as close to the liquid source as possible. A gear pump in new condition can lift 20 feet of water in the suction line. A foot valve (preferably with built-in strainer) is recommended at the beginning of the suction line. For a first start-up, the pump should be primed to avoid dry running. Minimum size of the suction pipe is the size of the pump inlet port. For longer

suction lines (over 3 feet), or for viscous liquids, the pipe size should be at least one size or two sizes larger than the pump inlet port.

ROTATION AND FLOW DIRECTION:

Unless otherwise specified, the pump motor unit is supplied by the factory for shaft rotation clockwise from shaft end. Reversing the motor rotation will reverse the “in” and “out” ports.

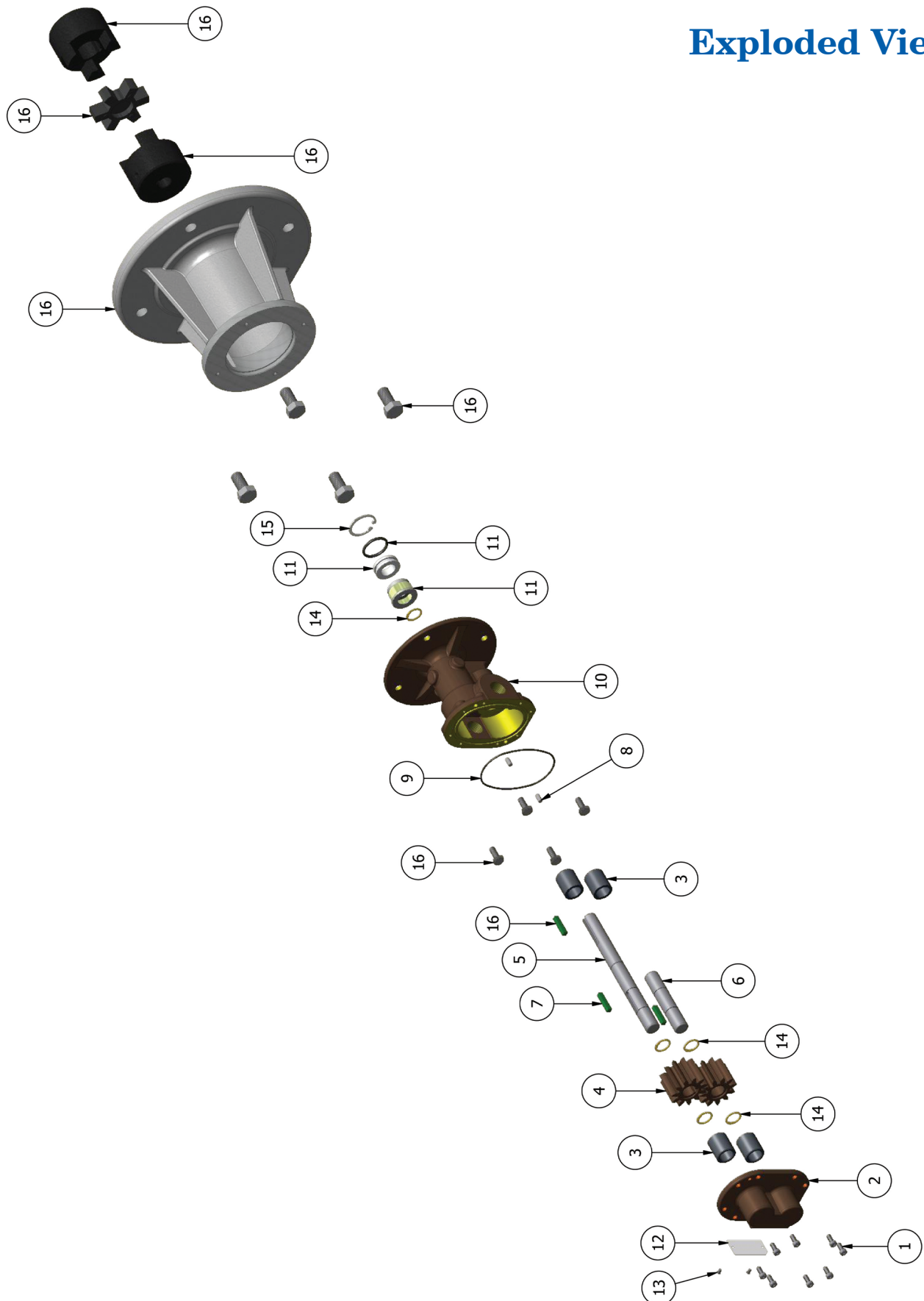
To reverse single phase motors, find instructions on the inside of the junction box cover or on the name plate of the motor. Three phase motors are not wired for any particular rotation. They can be reversed by interchanging any two (2) wires of the three (3) wire leads.

Parts List

			PUMP MODEL	
Item No.	Description	Qty.	H994S16	H994S17
1	Screw	8	5385	
2	Cover	1	9322MN5N	
3	Bearing	4	3116	
4	Spur Gear	2	3639	
5	Drive Shaft	1	3638	
6	Idle Shaft	1	2936	
7	Key	2	6567	
8	Dowel Pin	2	8885	
9	O-Ring	1	9797-041	
10	Body	1	9321MD4N	
11	Mechanical Seal	1	32015	32017
12	Tag	1	9344	
13	Tag Screw	2	9345	
14	Retaining Ring	5	5382	
15	Retaining Ring	1	5374	
16	Adapter Kits		See Chart	
*Repair Kits			12460	12461

* Repair Kits contain items 3, 4, 5, 7, 9, 11, 14, 15

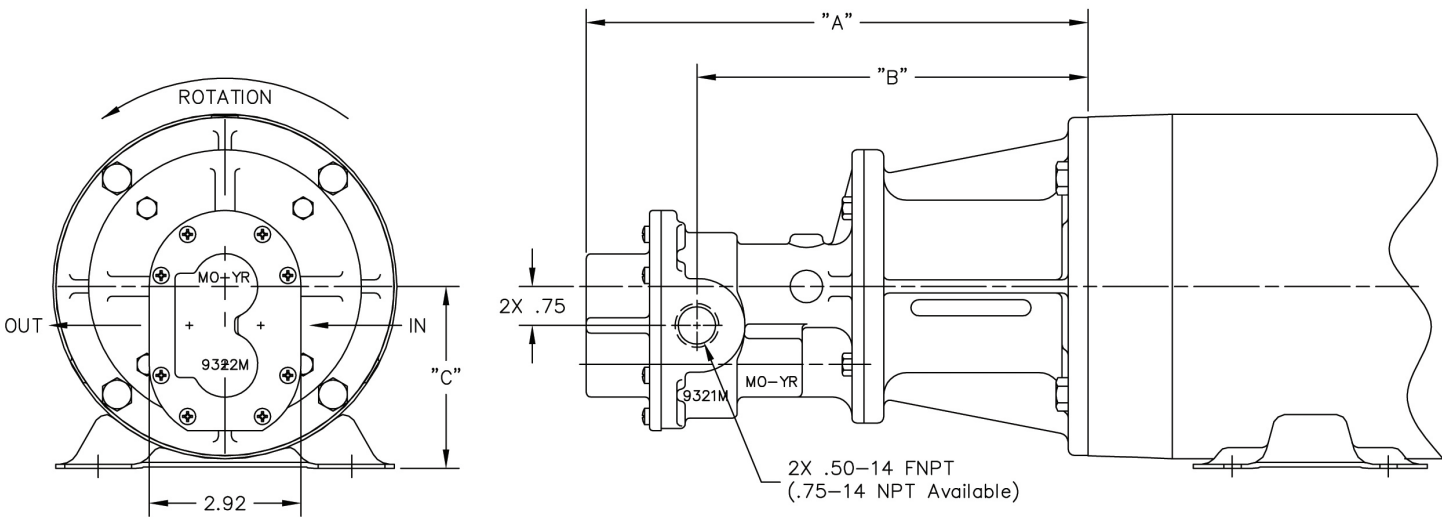
Exploded View



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Dimensions



Motor/Adapter Kit Dimensions (inches)				
Model	Motor Frame	"A"	"B"	"C"
H994S16 OR S17H	56C	9.66	7.53	3.50
H994S16 OR S17J	143TC/145TC	9.66	7.53	3.50
H994S16 OR S17K	182TC/184TC	10.48	8.34	4.50
H994S16 OR S17L	213TC/215TC	10.48	8.34	5.25

Adapter Kits		
Adapter Kit	Part Number	Description
H	11299	56C Frame
J	11300	143TC/145TC
K	11301	182TC/184TC
L	11302	213TC/215TC



OBORDORFER PUMPS
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5900 Firestone Drive, Syracuse, NY 13206
Phone: (800) 448-1668; (315) 437-0361 • Fax: (315) 463-9561

Visit www.oberdorferpumps.com to find in-depth descriptions of the world's leading high-quality, dependable pumps.

Due to ongoing product improvements, data shown here is subject to change without notice. Contact Oberdorfer Pumps for latest specifications.