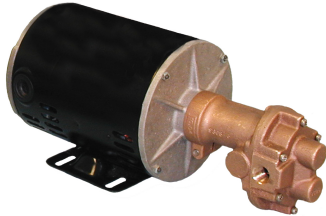


CLOSE COUPLED BRONZE ADAPTERLESS ROTARY GEAR PUMP & AC MOTOR UNITS

GEAR PUMPS SERIES ADAPTERLESS

PERFORMANCE



FEATURES

- Compact design eases installation and use in limited space areas.
- No adapter needed, pump mounts directly to motor.
- Rugged Commercial AC Motors
- Automatic Thermal Overload Protection
- Open Drip Proof* - Modified NEMA 48 Frame
- Welded Rigid Base - Continuous Duty
- 115 VAC 60 HZ - Reversible
- 1/3 HP (F41) - 1/2 HP (J16)

DRIVE

Close coupled pumps are mounted directly to the electric motor. 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 and will require a different motor than what is listed. 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 price book for the recommended liquid temperature range of lip and mechanical seals. 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.

AFTER-LESS MOTORS & N999-N993 PUMPS

PERFORMANCE

Water 70°F

37/55

N999(F) Pump and AC Motor Unit

Model	Volts	HP	Pressure (PSI)																					
			5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	
F41	115 VAC	1/3	Flow (GPM)	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
J16	115 VAC	1/2	Flow (GPM)	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2

N999(J) Pump and AC Motor Unit

Model	Volts	HP	Pressure (PSI)																					
			5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	
F41	115 VAC	1/3	Flow (GPM)	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
J16	115 VAC	1/2	Flow (GPM)	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2

N999(F) Pump and AC Motor Unit

Model	Volts	HP	Pressure (PSI)																					
			5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	
F41	115 VAC	1/3	Flow (GPM)	4.4	4.3	4.3	4.3	4.3	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	9.3	9.1	9.1	9.1	9.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
J16	115 VAC	1/2	Flow (GPM)	4.4	4.4	4.3	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.2	
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3

N999(J) Pump and AC Motor Unit

Model	Volts	HP	Pressure (PSI)																					
			5	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	
J16	115 VAC	1/2	Flow (GPM)	8.8	8.7	8.6	8.5	8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7
			Speed (RPM)	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
			Current (Amps)	18.0	18.0	18.1	18.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

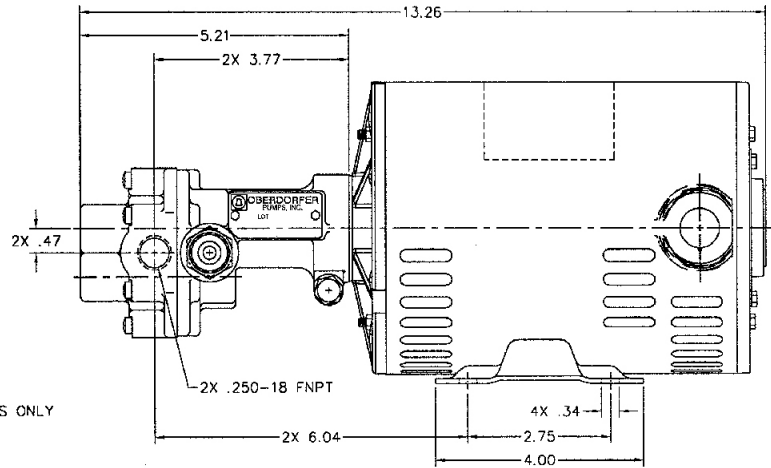
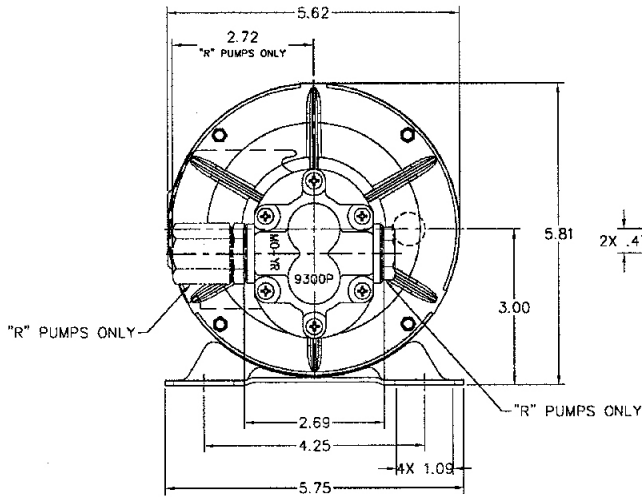
Note: Maximum recommended operating point.

SUCTION LIFT

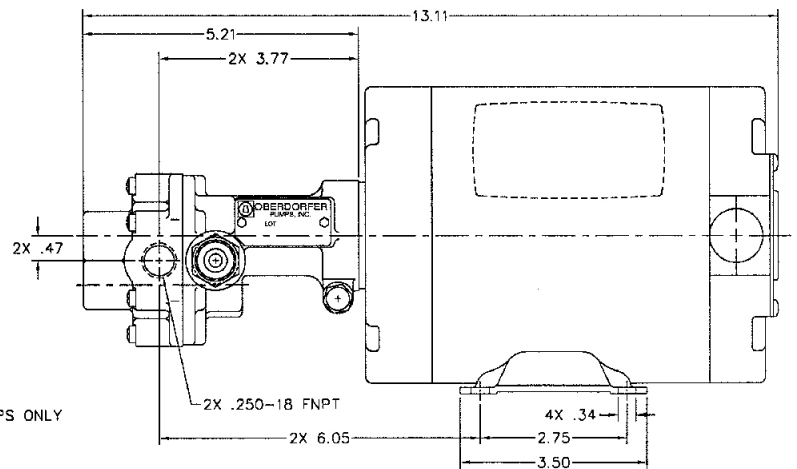
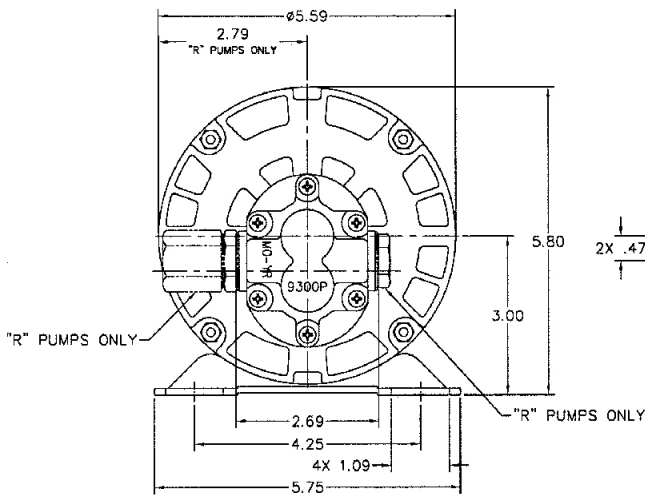
As a general rule, the suction lift should be kept at an absolute minimum by placing the pump as close to the liquid source as possible. A gear pump in new condition can lift 20 feet of water in the suction line. A foot valve (preferably with built-in strainer) is recommended at the beginning of the 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.

DIMENSIONS

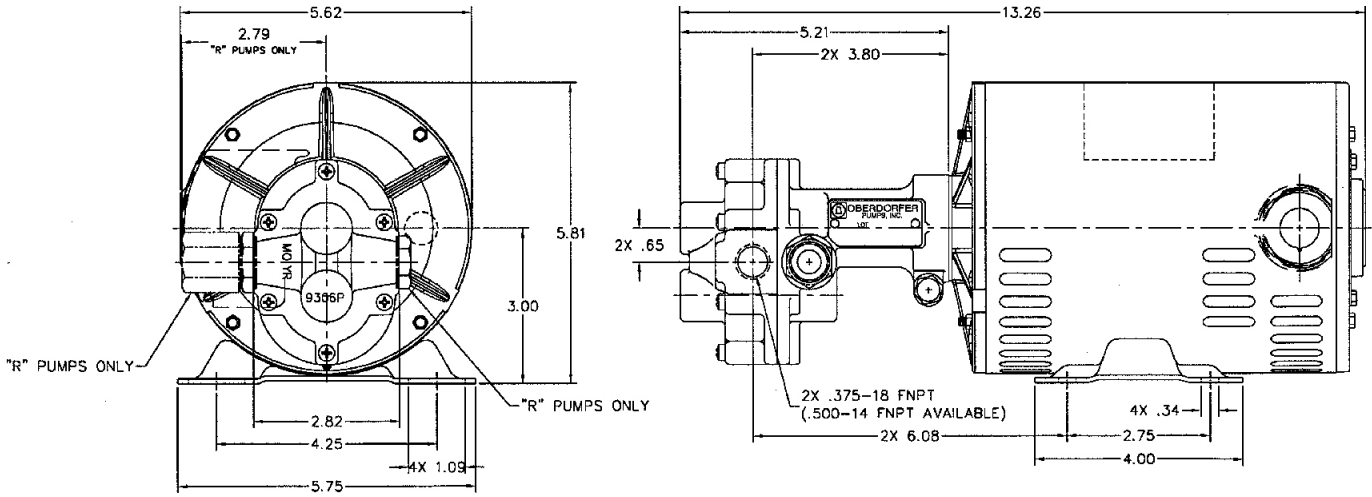
N991(R)-F41



N991(R)-J16



N992(R)-F41



N992(R)-J16

