

BRONZE ROTARY GEAR PUMPS HIGH PRESSURE CARBONATOR MOTOR MOUNTED

GEAR PUMPS SERIES N91



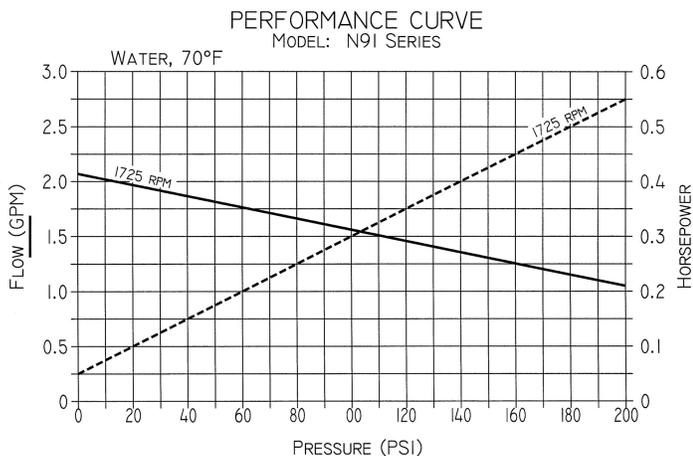
FEATURES

- Bronze Body, Stainless Steel Shaft
- Nitrile Mechanical Seal (fluoroelastomer optional)
- Self-lubricating Carbon Bearings
- Carbonator Motor Mount
- Bronze Spur Gears
- 200 PSI capability
- Superior to Vane Pumps

LIQUIDS AND TEMPERATURE

Bronze pumps are suitable for water, oil, and mild chemicals in the pH-range from 4-10. Viscous liquids may be handled with carbonator pumps up to a viscosity of 300 SSU. Higher viscosities require a pump speed lower than 1725 RPM, which is currently not available in carbonator motors. Liquids containing abrasives, solids, powders or pigments are highly detrimental to pump life and must be avoided. The recommended liquid temperature range is from 32o F to 140oF. If more extreme temperature conditions exist, factory should be consulted. Allowing the liquid to freeze in the pump can cause damage.

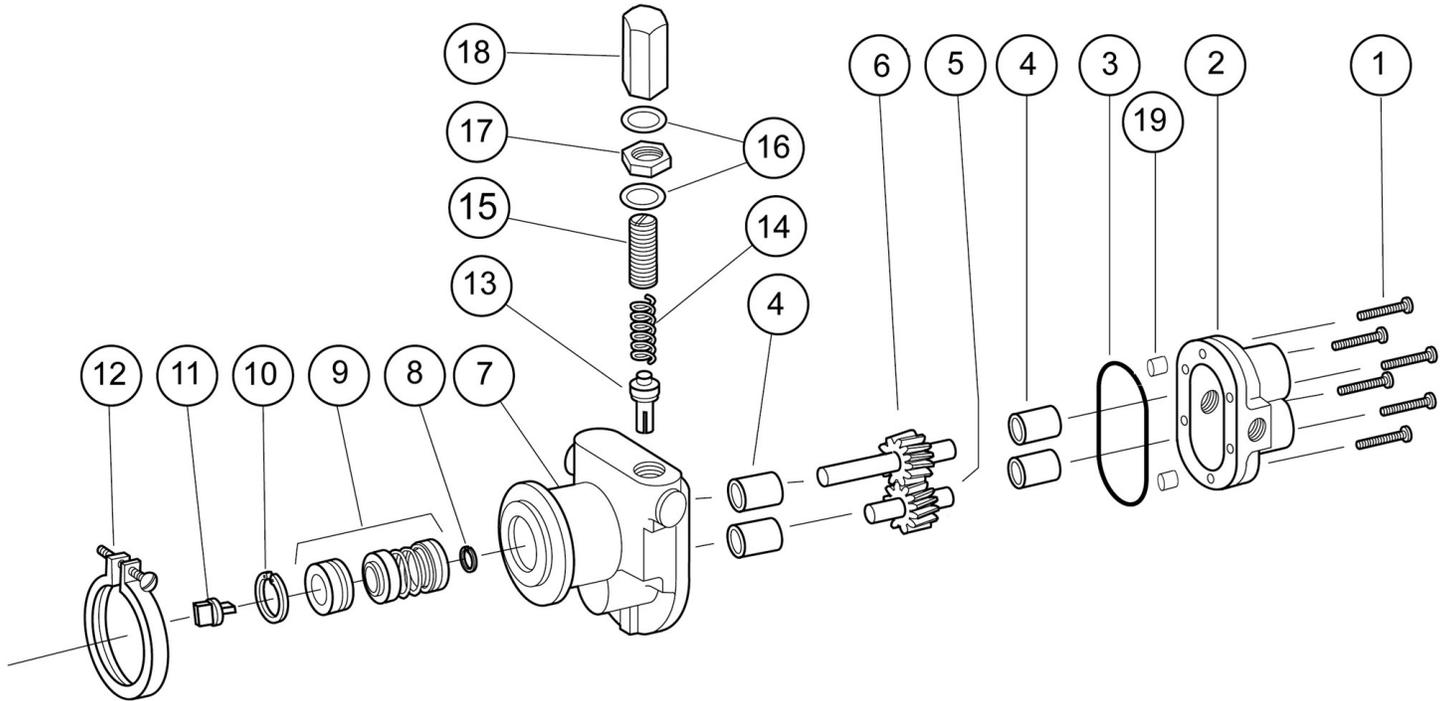
PERFORMANCE



SUCTION LIFT

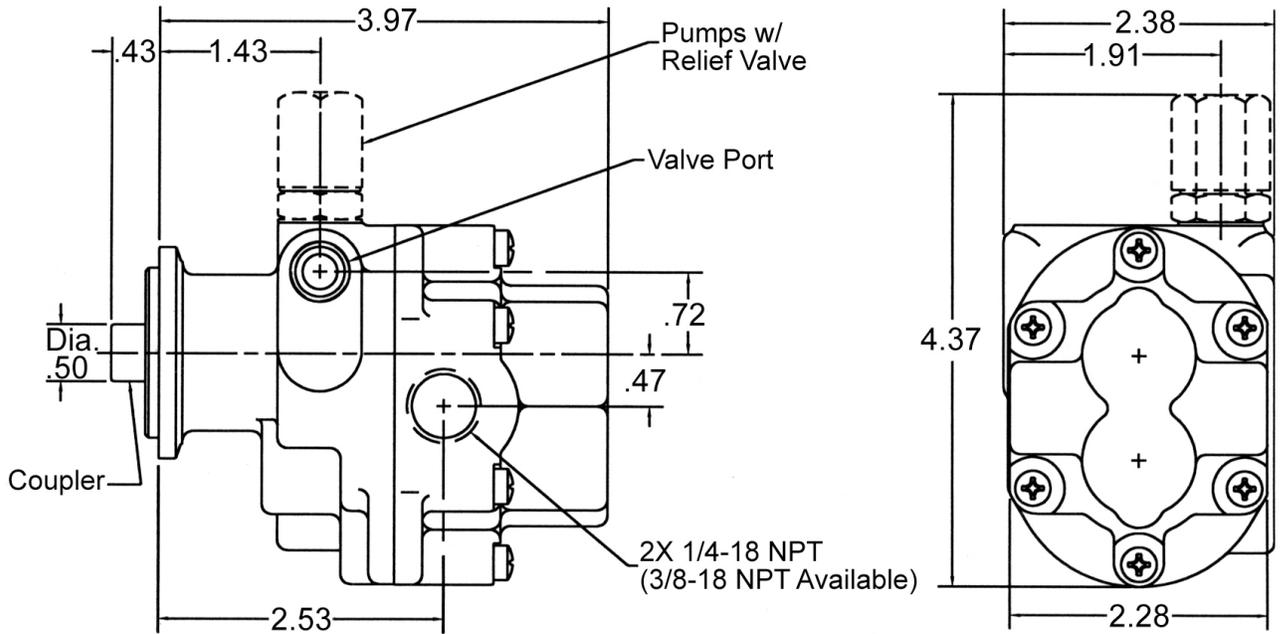
For a first start-up, the pump should be primed to avoid dry running. Gear pumps are self-priming, but a foot valve with strainer is recommended at the beginning of the suction line. This will keep the gear chamber primed to insure instant flow when the pump is started. Maximum suction lift is 20 feet. The suction line should be as short as possible.

EXPLODED VIEW AND PARTS LIST



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Screw	Body	O-ring	Bearing	Idle Gear Assy	Drive Gear Assy	Cover	Snap Ring	Seal	Snap Ring	Coupler	Clamp	Poppet/ Ball	Spring	Adjust. Screw	Fiber Washer	Lock Nut	Valve Nut	Dowel Pin	Repair Kit	
Model	6 Req'd	1 Req'd	1 Req'd	4 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	1 Req'd	2 Req'd	1 Req'd	1 Req'd	2 Req'd		
N91060GOC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4N-C	5373	32584	7639	9175	8840	---	---	---	---	---	---	8885	11969	
N91060GKC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4L-C	5373	32584	7639	9175	8840	7640	5806	5766	6966	5774	5767	8885	11969	
N91060GEC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4R-C	5373	32584	7639	9175	8840	7640	5806	5766	6966	5774	5767	8885	11969	
N91060GRC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4B-C	5373	32584	7639	9175	8840	5809	5806	5766	6966	5774	5767	8885	11969	
N91060GLC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4B-C	5373	32584	7639	9175	8840	5809	5806	5766	6966	5774	5767	8885	11969	
N91D													7640H	6003						11969	
N9105									32585												11968
N91K		9300NC5N-C																			

DIMENSIONS



ROTATION AND RELIEF VALVE

The relief valve is not intended to be a metering or flow control device. Its main purpose is to function as a discharge pressure relief when the discharge pressure exceeds the spring tension. Overheating can occur within 5-10 minutes if the discharge line is completely shut off for extended periods.

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 and also requires changing the relief valve location. The relief valve is always on the discharge side in this pump series. The factory pressure setting is 50 PSIG. To increase pressure, turn the relief valve adjusting screw in a clockwise direction. For relief settings between 100-200 PSI, specify high-pressure spring (N91D)

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