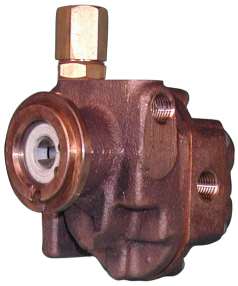
BRONZE ROTARY GEAR PUMPS CARBONATOR MOTOR MOUNTED

GEAR PUMPS SERIES N91060GKC



FEATURES

- Bronze Body, Stainless Steel Shaft
- Nitrile Mechanical Seal
- Self-lubricating Carbon Bearings
- Carbonator Motor Mount
- Bronze Spur Gear

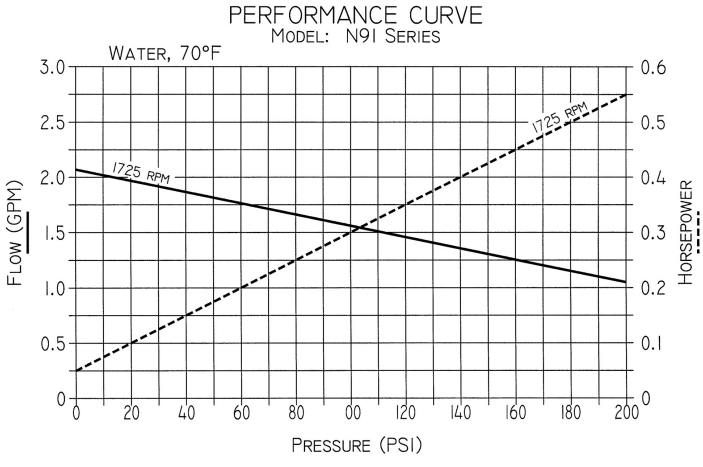
DRIVE

The carbonator motor mounting uses a circular clamp, similar to a hose clamp, as means of attaching the pump to a specially machined hub on the motor. This concept was first developed for the vending machine industry to pump carbonated beverages in soft drink dispensers. The main advantages are compactness and economy due to the elimination of the adapter casting. Carbonator motors are readily available from electric motor distributors.

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 32oF to 140oF. If more extreme temperature conditions exist, factory should be consulted. Allowing the liquid to freeze in the pump can cause damage.

PERFORMANCE



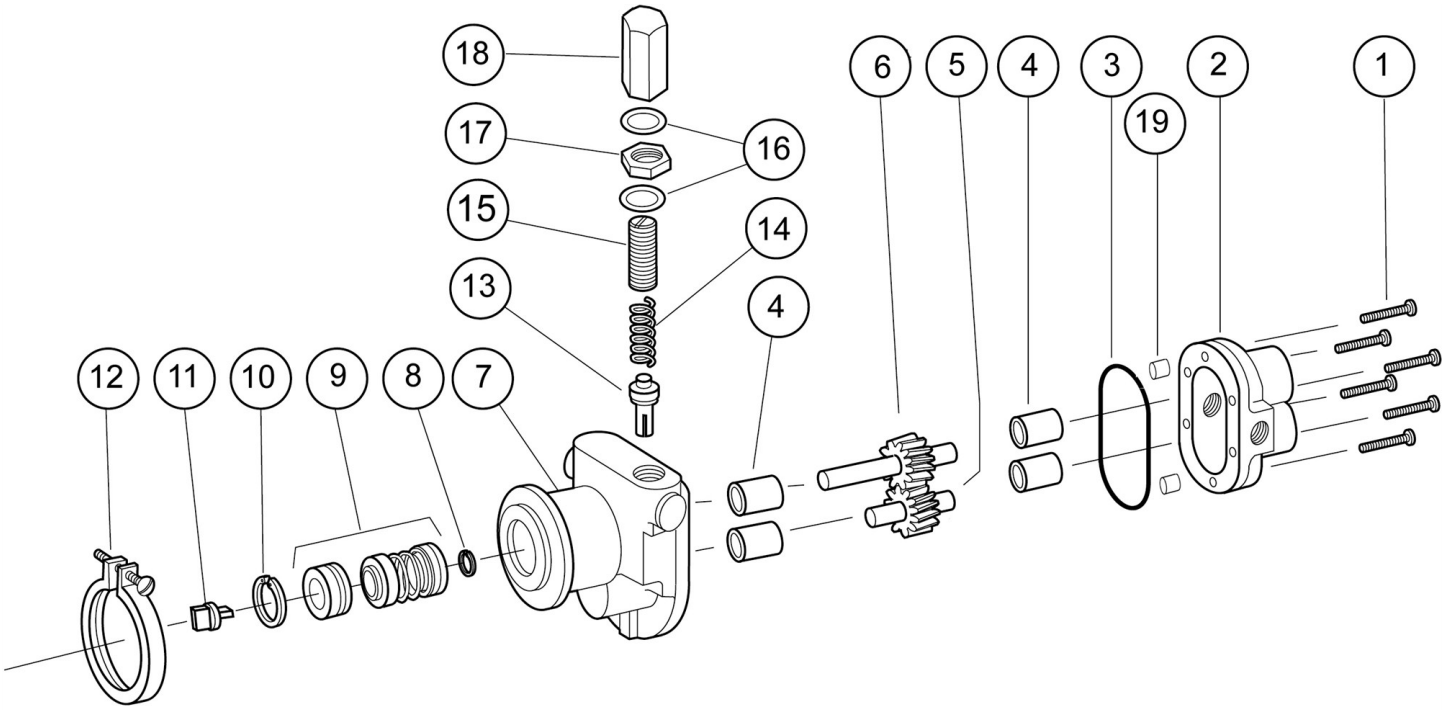
Capacity - Water 60° F 1725 R.P.M.

Pump Series	PSI	2	20	40	60	80	100
N91	GPM	2.1	1.9	1.8	1.7	1.6	1.5

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

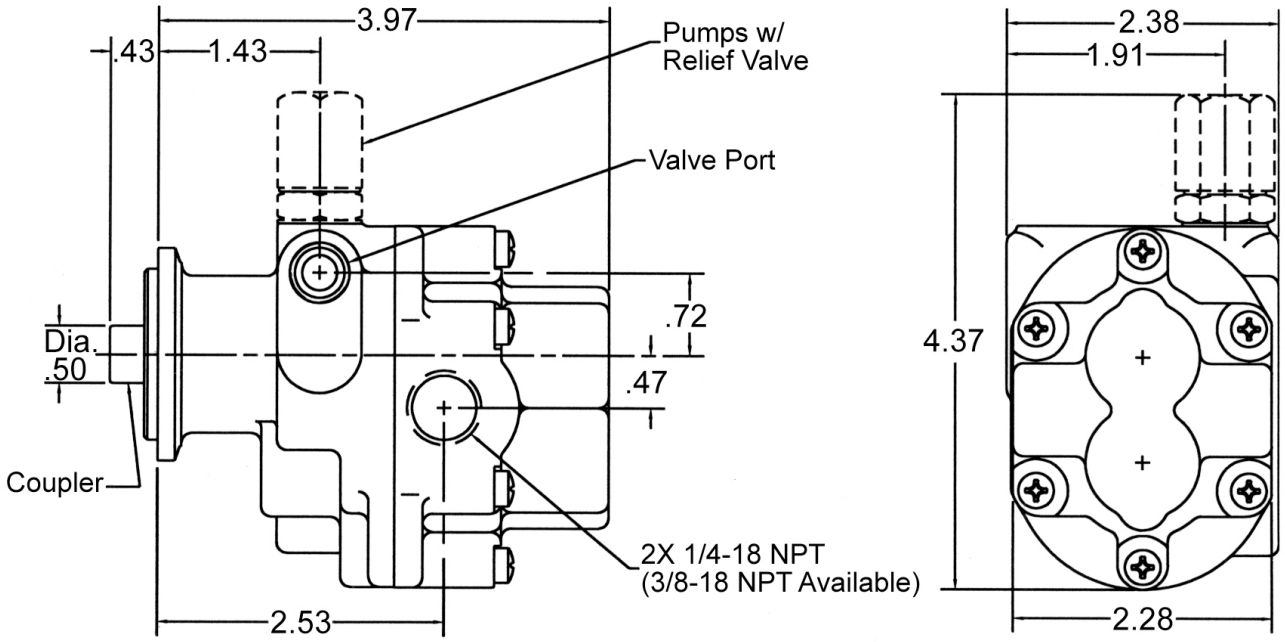


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Screw	Body	O-ring	Bearing	Idle Gear Assy	Drive Gear Assy	Cover	Snap Ring	Seal	Snap Ring	Coupler	Clamp	Poppet/ Ball	Spring	Adjust. Screw	Fiber Washer	Lock Nut	Valve Nut	Dowel Pin	Repair Kit
Model	6 Req'd	1 Req'd	1 Req'd	4 Req'd	1 Req'd	1 Req'd	1 Req'd	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	9305NN4**N**-C	5373	32584	7639	9175	8840	---	---	---	---	---	---	8885	11969
N91060GKC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4**L**-C	5373	32584	7639	9175	8840	7640	5806	5766	6966	5774	5767	8885	11969
N91060GEC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4**R**-C	5373	32584	7639	9175	8840	7640	5806	5766	6966	5774	5767	8885	11969
N91060GRC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4**B**-C	5373	32584	7639	9175	8840	5809	5806	5766	6966	5774	5767	8885	11969
N91060GLC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4**B**-C	5373	32584	7639	9175	8840	5809	5806	5766	6966	5774	5767	8885	11969
N91D													7640H	6003						11969
N9105									32585											11968
N91K		9300NC5N-C																		

Pump No.	1	2	3[1]	4[1]	5[1]	6[1]	7[2]	8	9[1]	10	11[1]	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
	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	
N91060GKC	7733	9300NB5N-C	9797-033	5024	32110	32914	9305NN4L-C	5373	32584	7639	9175	8840	7640/5809	5806	5766	6966	5774	5767	8885	11969

[1] Repair Kits include items 3, 4, 5, 6, 9 & 11.

DIMENSIONS



ROTATION AND RELIEF VALVE

The relief valve is not intended to be a metering or flow control device. Its main purpose is not intended to be a metering or flow control device. Its main purpose is to function as a discharge pressure relief when the spring tension is exceeded by the discharge pressure. 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. To reverse single phase motors, find instructions on the inside of the junction box cover or on the name plate of the motor.