

GEAR PUMPS

GEAR PUMPS SERIES C990M



FEATURES

- Ductile Iron construction with hardened steel shafts
- Fatigue Proof® steel helical gears for quiet operation
- Mechanical seal
- Self lubricating carbon radial and thrust bearings
- O-ring seal for maximum leak protection
- Durable temperature-resistant paint finish
- Easy field assembly to C-face motors
- Compact dimensions

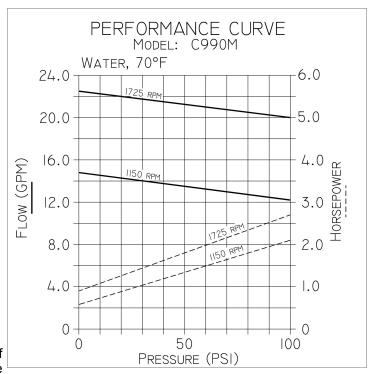
DRIVE

These close-coupled pumps mount directly to a full range of NEMA and IEC C-face motors by means of a suitable adapter bracket. The pump drive shaft is connected to the motor shaft by a flexible coupling. Complete pump and motor units are available.

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. The recommended liquid temperature range is 32oF to 140oF for longest pump life. If more extreme temperature conditions exist, our factory should be consulted. 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.

PERFORMANCE

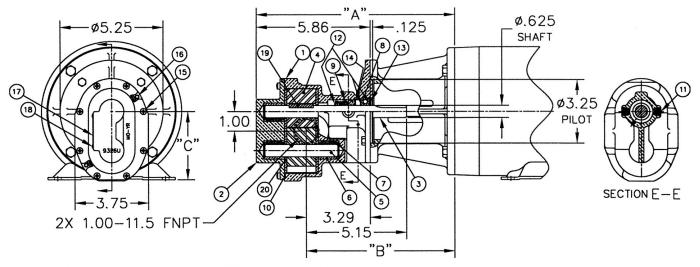


SUCTION LIFT

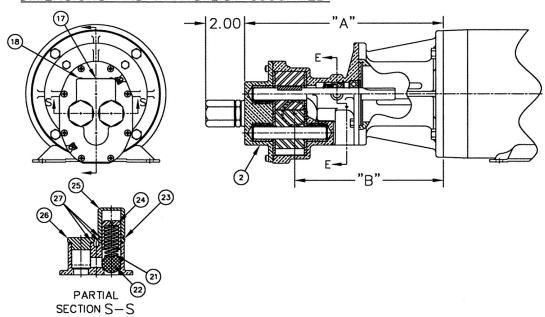
Whenever possible, place the pump at an elevation below the liquid source. However since these positive displacement external gear pumps will generate 23" HG lift, this is not a requirement. As a general rule, place the pump as close to the liquid source as possible. For a first start-up, the pump should 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), the pipe size should be at least one size or two sizes larger than the pump inlet port.

EXPLODED VIEW AND PARTS LIST

DIMENSIONS AND PARTS LIST C990M2B1



DIMENSIONS AND PARTS LIST C990RM2B1



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Body	Cover	Drive Shaft	Drive Gear	Idle Gear Assy	Carbon Bearing	Bearing Pin	Ball Bearing	Mech. Seal Assy	O-Ring	Pipe Plug	Ret. Ring	Ret. Ring	Ret. Ring
Pump No.	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 3	Qty. 3	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 3	Qty. 1	Qty. 1
C990M2B1	9329UF4N-01	9326UN5N	2949	2394	33126	2688	2687	2461	33109	9797-045	2052	5382	5464	5374
C990RM2B1	9329UF4N-01	9327UN5B	2949	2394	33126	2688	2687	2461	33109	9797-045	2052	5382	5464	5374
	15	16	17	18	19	20	21	22	23	24	25	26	27	
	Screw	Dowel Pin	Tag	Stick Screw	Key	Thrust Washer	Spring	Ball	Locknut	Adj. Screw	Bypass Nut	Plug Nut	Fiber Washer	
Pump No.	Qty. 8	Qty. 2	Qty. 1	Qty. 2	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 3	
C990M2B1	5385	8885	9344	9345	6845	2899	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
C990RM2B1	5385	8885	9344	9345	6845	2899	5277	6217	1642	5275	5276	5278	6965	

Repair Kit 12293 includes items 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 19 & 20 $\,$

Adapter Kit	Part Number	Description			
Н	11299C	56C Frame			
J	11300C	143TC/145TC			
K	11301	182TC/184TC			
L	11302	213TC/215TC			
G	11380	IEC 71			
Т	11386	IEC 80			
Ü	11875C	IEC 90S/90L			
V	11876C	IEC 100L/112M			

Adapter Kit	Adapter Kit Part Number	Motor Frame	Dim. "A"	Dim. "B"	Dim. "C"
Н	11299C	56C	10.17	7.60	3.50
J	11300C	143TC/145TC	10.17	7.60	3.50
K	11301	182TC/184TC	10.99	8.42	4.50
L	11302	213TC/215TC	10.99	8.42	5.25

ROTATION AND RELIEF VALVE

These pumps are bidirectional. The standard pump motor unit is set up for normal rotation (clockwise when viewing the pump from the shaft end). Reversing the motor rotation will reverse the "in" and "out" ports and also requires changing the relief valve location. C990RM2B1 is equipped with an integrated relief valve set up for internal bypassing. The relief valve must always be located on the discharge side of the pump. This relief valve is not intended to be a metering or flow control device. Its purpose is to function as a discharge pressure relief to guard against intermittent downstream system restrictions. Overheating can occur within 5 to 10 minutes if the discharge line is completely shut off. The relief valve is located on the discharge side of the pump. The pressure relief setting is not set at the factory. To increase pressure, turn the relief valve adjusting screw in a clockwise direction.

