



## Small Frame Gear Pump/Motor

### Series GC

11 GPM/1800 PSI to 1/2 GPM/3000 PSI

Bi-Rotational • Use as a Pump or Motor

Includes bi-rotational check valves to allow it to be used either as a pump or a hydraulic motor in either direction of rotation. The maximum back pressure is 400 PSI on the low pressure port. Inboard bearings will accept a maximum of 150 lbs. of overhung load, an outward thrust of 60 lbs.; and an inward thrust of 76 lbs. Oil viscosity of 100 to 1000 SSU.



Pump body is cast iron with hardened steel gears running on needle bearings and with Viton seals. Listed below in the tables are some of the more popular pumps. The dimensions are: 3½" wide × 3½" high × the body length shown in table. Shaft dimension is: 1/2" diameter × 1½" length with a 1/8" key. These pumps come with a four bolt flange on a 2" hole pattern. Pilot diameter is 1.780". Foot mounting brackets for these pumps are listed on page 45. There are additional shaft, mounting, and valve options for the GC series pumps, please consult your local Womack sales office.

#### Performance as a Pump

Model No.	Disp./ Rev. in <sup>3</sup> /rev.	GPM @ 1750 RPM	Max. PSI Cont.	Max. PSI Inter.	Port Size, SAE	Max. Recom. RPM	Body Length, Inches
1300093	.065	1/2	3000	4000	9/16-18	4000	3.16
1300094	.129	1	3000	4000	3/4-16	4000	3.16
1300095	.194	1½	3000	4000	3/4-16	4000	3.16
1300096	.258	2	2300	4000	3/4-16	4000	3.16
1300097	.323	2½	1900	3000	7/8-14	4000	3.69
1300098	.388	3	1600	2500	7/8-14	3550	3.69
1300099	.453	3½	1300	2250	7/8-14	3000	3.69
1300100	.517	4	1200	2000	7/8-14	2500	3.69

#### Performance as a Hydraulic Motor

Model No.	Disp./ Rev. in <sup>3</sup> /rev	Displ., C.I.R.	GPM* per 1000 RPM	Torque** in-lbs. per 100 PSI	Max. PSI	HP @ Max. PSI & per 1000 RPM
1300093	0.065	0.065	0.280	1.03	3000	0.39
1300094	0.129	0.129	0.556	2.05	3000	0.77
1300095	0.194	0.194	0.883	3.09	3000	1.15
1300096	0.258	0.258	1.110	4.12	2300	1.54
1300097	0.323	0.323	1.390	5.14	1900	1.64
1300098	0.388	0.388	1.670	6.18	1600	1.62
1300099	0.453	0.453	1.940	7.21	1300	1.62
1300100	0.517	0.517	2.220	8.25	1200	1.54

\*Idling GPM. Allow about 15% more for operation at maximum PSI.

\*\*Theoretical Torque. Starting torque is about 60% of theoretical. Running torque is about 90% of theoretical.