

# RATING OF BASIC P.I.V. GEARS

Figures in tables are of 12 hours per day Infrequent starting for other duties multiply required power by factors as follows, and select size accordingly.

OPERATING CONDITIONS	SERVICE FACTOR	
	Running Time Per Day	
Infrequent Starting	12 Hours	24 Hours
	1.0	1.25
Frequent Starting	1.25	1.5

P.I.V. Size	Speed Variation Ratio	Max-constant Speed Shaft RPM	Output Horse Power and Speed of Variable Speed Shaft								Variable Speed Shaft Torque, Inches		Size of P.I.V. Chain GA	Total Turns of Control Screw	Max. Motor Horse Power
			At maximum RPM of Constant Speed Shaft				Per 100 RPM of Constant Speed Shaft				At maximum RPM	At minimum RPM			
			At maximum Speed Setting		At minimum Speed Setting		At maximum Speed Setting		At minimum Speed Setting						
			HP	RPM	HP	RPM	HP	RPM	HP	RPM					
GA-0	2 to 1	620	45	876	.32	438	.073	141	.052	71	30	45	GA-1-23	6.64	1/2
	3 to 1	620	45	1075	.26	358	.073	173	.042	58	25	45	GA-1-22	9.17	1/2
	4 to 1	620	45	1240	.23	310	.073	200	.037	50	20	45	GA-1-22	11.40	1/2
GA-1	2 to 1	860	2.7	1216	1.9	608	.314	141	.221	71	140	200	GA-2-27	8.52	3
	3 to 1	860	2.7	1491	1.6	497	.314	173	.186	58	115	200	GA-2-26	11.94	3
	4 to 1	860	2.7	1720	1.4	430	.314	200	.163	50	115	200	GA-2-26	14.74	3
	5 to 1	690	1.8	1545	.80	309	.261	224	.116	45	75	165	GA-1-30	16.16	2
	6 to 1	690	1.8	1692	.73	282	.261	245	.108	41	65	165	GA-1-30	17.63	2
GA-2	2 to 1	860	4.5	1216	3.2	608	.523	141	.372	71	235	330	GA-3-28	10.14	5
	3 to 1	860	4.5	1491	2.6	497	.532	173	.302	58	190	330	GA-3-27	14.36	5
	4 to 1	860	4.5	1720	2.3	430	.523	200	.267	50	165	330	GA-3-26	16.06	5
	5 to 1	690	2.7	1545	1.2	309	.391	224	.174	45	110	245	GA-2-29	17.17	3
	6 to 1	690	2.7	1692	1.1	282	.391	245	.159	41	100	245	GA-2-29	18.78	3
GA-3	2 to 1	860	6.75	1216	4.8	608	.523	141	.372	71	235	330	GA-3-37	10.14	7 1/2
	3 to 1	860	6.75	1491	2.6	497	.523	173	.453	58	285	495	GA-3-37	14.36	7 1/2
	4 to 1	860	6.75	1720	3.4	430	.758	200	.652	50	250	495	GA-3-36	18.50	7 1/2
	5 to 1	690	4.5	1545	2.0	309	.652	224	.29	45	180	405	GA-3-36	19.24	5
	6 to 1	690	4.5	1692	1.8	282	.652	245	.26	41	165	405	GA-3-35	21.0	5
GA-4	2 to 1	690	9.0	976	6.4	488	1.304	141	.928	71	580	820	GA-4-35	13.38	10
	3 to 1	690	9.0	1194	5.2	398	1.304	173	.754	58	475	820	GA-4-35	19.09	10
	4 to 1	690	9.0	1380	4.5	345	1.304	200	.652	50	410	820	GA-4-33	21.63	10
	5 to 1	580	6.75	1295	3.0	259	1.163	224	.517	45	325	730	GA-4-33	24.68	7 1/2
	6 to 1	580	6.75	1422	2.8	237	1.163	245	.482	41	300	730	GA-4-33	24.77	7 1/2
GA-5	2 to 1	580	13.5	820	9.5	410	2.328	141	1.638	71	1035	1470	GA-5-41	12.25	15
	3 to 1	580	13.5	1005	7.8	336	2.328	173	1.345	58	845	1470	GA-5-41	17.47	15
	4 to 1	580	13.5	1160	6.8	290	2.328	200	1.172	50	735	1470	GA-5-40	19.82	15
	5 to 1	580	9.0	1120	4.0	224	1.8	224	.80	45	505	1130	GA-5-40	20.72	10
	6 to 1	580	9.0	1224	3.7	204	1.8	245	.74	41	460	1130	GA-5-39	22.62	10
GA-6	2 to 1	500	2.5	708	15.9	354	4.5	141	3.2	71	2010	2850	GA-6-38	15.40	25
	3 to 1	500	22.5	875	13.0	289	4.5	173	2.6	58	1645	2850	GA-6-38	20.62	25
	4 to 1	500	22.5	1000	11.3	250	4.5	200	2.3	50	1425	2850	GA-6-37	25.44	25
	5 to 1	450	18.0	1005	8.0	201	4.0	224	1.8	45	1115	2500	GA-6-37	26.50	20
	6 to 1	450	18.0	1104	7.3	184	4.0	245	1.6	41	1020	2500	GA-6-36	29.04	20
GA-2	2 to 1	860	4.5	1216	3.2	608	.523	141	.372	71	235	330	GA-2-34	10.14	5
	3 to 1	860	4.5	1491	2.6	497	.532	173	.302	58	190	330	GA-2-34	14.36	5
	4 to 1	860	4.5	1720	2.3	430	.523	200	.267	50	165	330	GA-2-33	16.06	5
	5 to 1	690	2.7	1545	1.2	309	.391	224	.174	45	110	245	GA-2-33	17.17	3
	6 to 1	690	2.7	1692	1.1	282	.391	245	.159	41	100	245	GA-2-32	18.78	3
GA-3	2 to 1	860	6.75	1216	4.8	608	.523	141	.372	71	235	330	GA-3-33	10.14	7 1/2
	3 to 1	860	6.75	1491	2.6	497	.523	173	.453	58	285	495	GA-3-32	14.36	7 1/2
	4 to 1	860	6.75	1720	3.4	430	.758	200	.652	50	250	495	GA-3-32	18.50	7 1/2
	5 to 1	690	4.5	1545	2.0	309	.652	224	.29	45	180	405	GA-3-31	19.24	5
	6 to 1	690	4.5	1692	1.8	282	.652	245	.26	41	165	405	GA-3-31	21.0	5

Multiply listed torque by output gear ratio to obtain final output torque. Ratings vary directly with input speed.