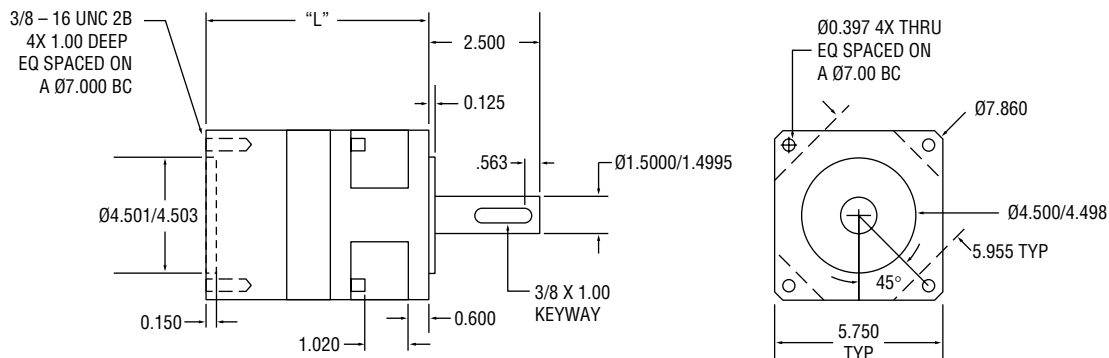


SIZE 56

"P" SERIES PLANETARY GEARHEAD

Single Stage "L" 6.475 ± .015
Double Stage "L" 8.588 ± .015



PLANETARY
GEARHEADS

	GEARHEAD P/N	GEAR RATIO	BACKLASH (MINUTES)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE 1500 rpm (LBS. IN.)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE 3500 rpm (LBS. IN.)	MAXIMUM RATED CONTINUOUS OUTPUT TORQUE 5000 rpm (LBS. IN.)	GEARHEAD INERTIA AT INPUT (LB-IN-SEC ²)
SINGLE STAGE	P56003	3:1	6	4176	2292	1713	1.12 X 10 ⁻²
	P56004	4:1	6	4244	2512	1923	5.58 X 10 ⁻³
	P56005.5	5.5:1	6	4203	2702	2131	4.06 X 10 ⁻³
	P56007	7:1	6	4093	2793	2256	3.51 X 10 ⁻³
	P56010	10:1	6	3509	2597	2174	3.08 X 10 ⁻³
DOUBLE STAGE	P56016	16:1	10	7801	6086	5225	5.67 X 10 ⁻³
	P56022	22:1	10	8278	6800	5996	4.11 X 10 ⁻³
	P56028	28:1	10	8578	7288	6549	3.54 X 10 ⁻³
	P56040	40:1	10	8934	7913	7288	3.09 X 10 ⁻³
	P56049	49:1	10	6569	6000	5635	3.50 X 10 ⁻³
	P56055	55:1	10	7566	6948	6548	3.08 X 10 ⁻³
	P56070	70:1	10	6713	6286	6000	3.07 X 10 ⁻³
	P56100	100:1	10	5174	4946	4788	3.07 X 10 ⁻³

GENERAL SPECIFICATIONS

peak torque rating is 15% above continuous rated torque

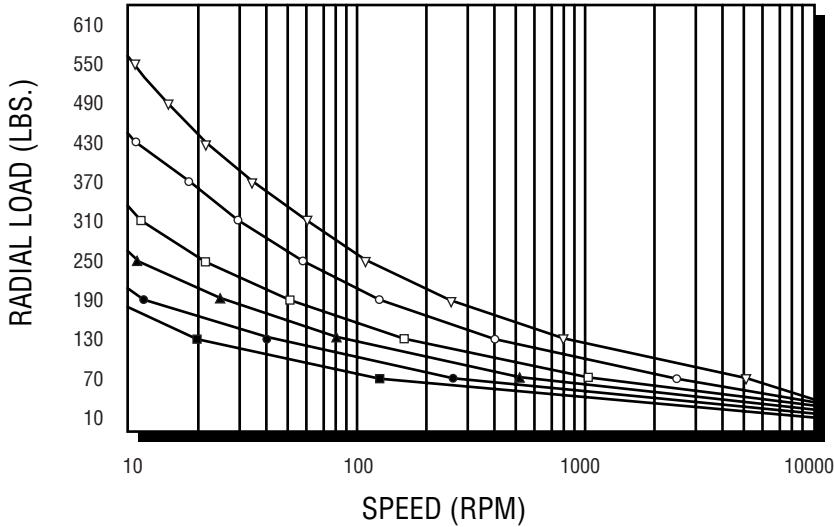
Construction Type	Ratio	Efficiency	Weight	Low Backlash Option	Maximum Input (rpm)
Planetary – Single Stage	3:1 to 10:1	90%	27.1 lbs.	3 arc minutes	5,000 rpm
Planetary – Double Stage	16:1 to 100:1	85%	43.4 lbs.	7 arc minutes	5,000 rpm

SIZE 56 "P" SERIES BEARING LIFE VS. SHAFT LOAD

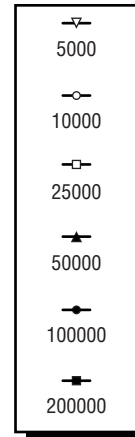


**PLANETARY
 GEARHEADS**

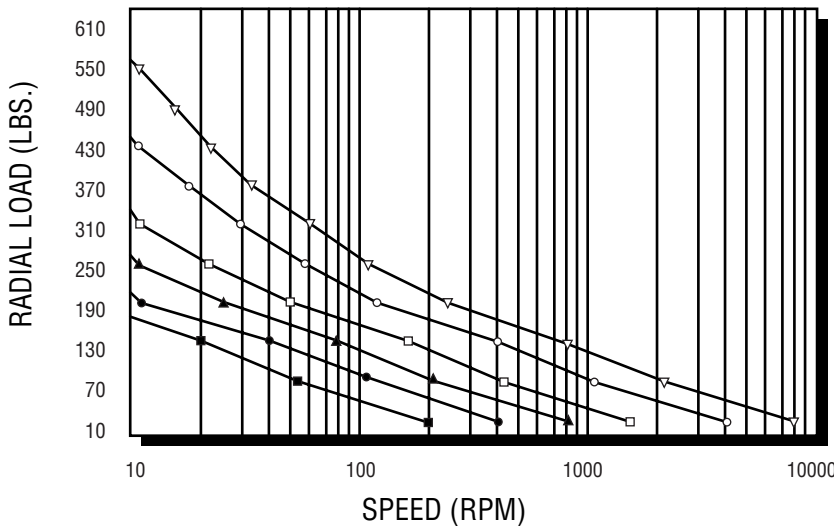
AXIAL LOAD: 0 LBS.



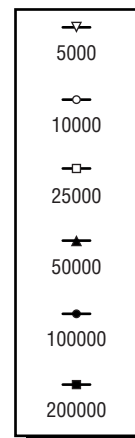
LIFE (HRS)



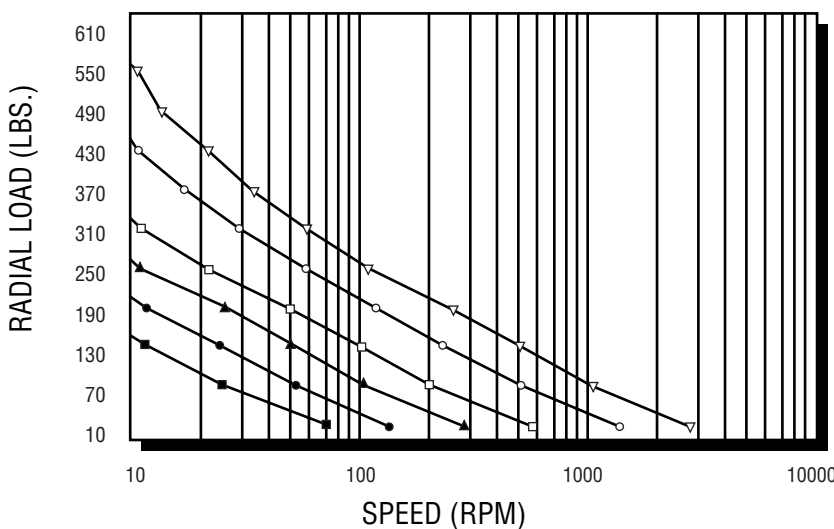
AXIAL LOAD: 75 LBS.



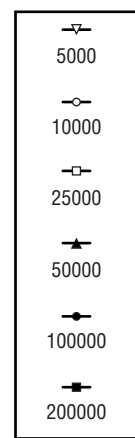
LIFE (HRS)



AXIAL LOAD: 200 LBS.



LIFE (HRS)



Speed (rpm) refers to the gearheads output shaft speed.

Life (hrs) = (# of lifetime revolutions) ÷ (60 x rpm).

F_{radial} is calculated at one half the shaft length.

