

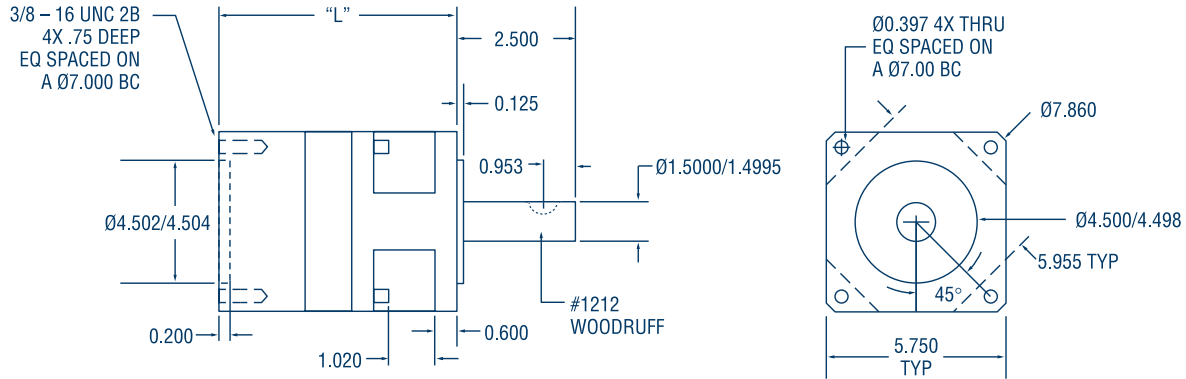


SIZE 56 PRECISION PLANETARY

DIMENSION "L"

Single Stage (3:1 to 10:1) = 6.475 ± .015

Double Stage (16:1 to 100:1) = 8.588 ± .015



Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec ²)	
SINGLE STAGE	56PL003	3:1	4176	2292	1713	1.12 x 10 ⁻²
	56PL004	4:1	4244	2512	1923	5.58 x 10 ⁻³
	56PL005	5.5:1	4203	2702	2131	4.06 x 10 ⁻³
	56PL007	7:1	4093	2793	2256	3.51 x 10 ⁻³
	56PL010	10:1	3509	2597	2174	3.08 x 10 ⁻³
DOUBLE STAGE	56PL016	16:1	7801	6086	5225	5.67 x 10 ⁻³
	56PL022	22:1	8278	6800	5996	4.11 x 10 ⁻³
	56PL028	28:1	8578	7288	6549	3.54 x 10 ⁻³
	56PL040	40:1	8934	7913	7288	3.09 x 10 ⁻³
	56PL049	49:1	6569	6000	5635	3.50 x 10 ⁻³
	56PL055	55:1	7566	6948	6548	3.08 x 10 ⁻³
	56PL070	70:1	6713	6286	6000	3.07 x 10 ⁻³
	56PL100	100:1	5174	4946	4788	3.07 x 10 ⁻³

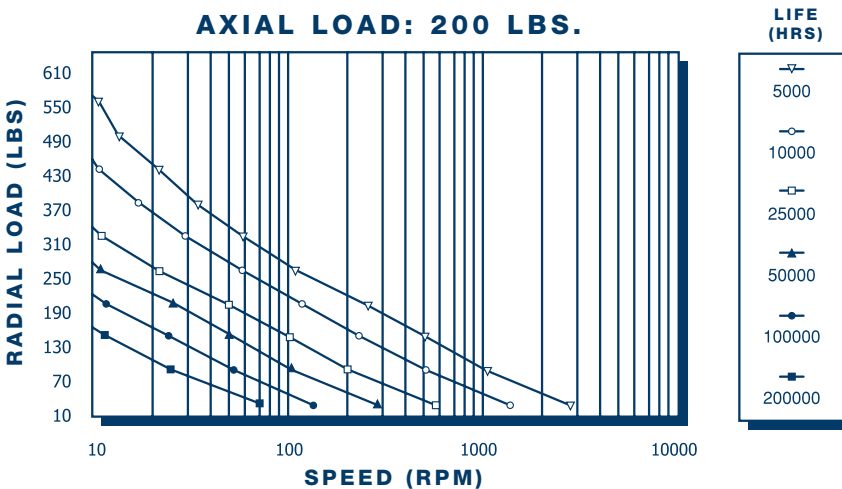
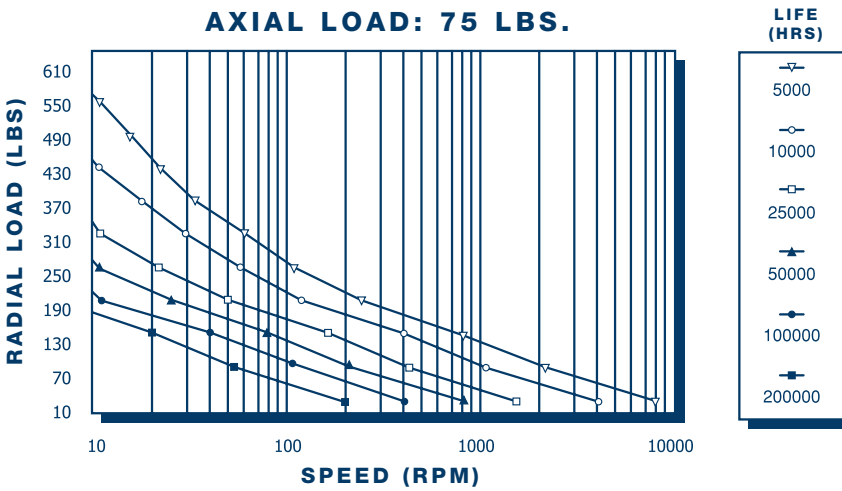
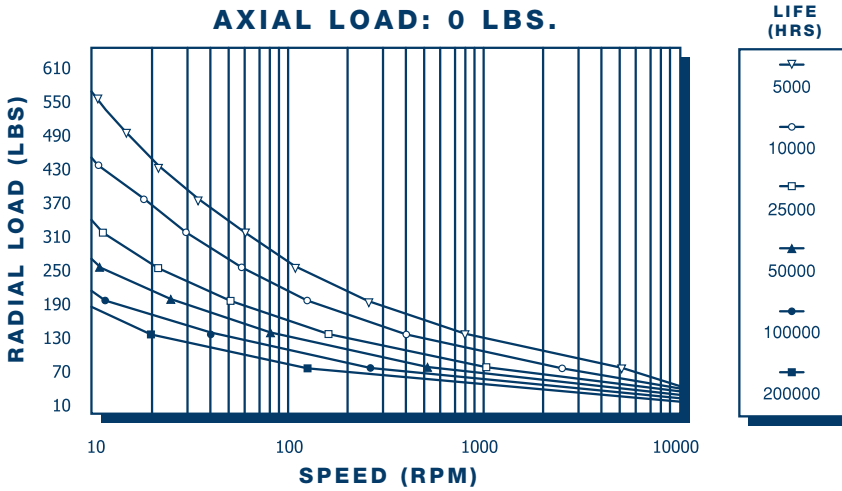
GENERAL SPECIFICATIONS

Construction Type	Ratio	Backlash: Standard (arc-minutes)	Backlash: Low Backlash (arc-minutes)	Efficiency	Weight (lbs)	Maximum Tested Input rpm
Single Stage	3:1 to 10:1	6	3	90%	27.11	5000
Double Stage	16:1 to 100:1	10	7	85%	43.48	5000

PEAK TORQUE: 15% above continuous rating.

NOTE: Repeated peak torque loading may cause failure.

SIZE 56 PL BEARING LIFE VS. SHAFT LOAD



SPEED (RPM) refers to the gearheads output shaft speed.

LIFE (HRS) = (# of lifetime revolutions) ÷ (60 x rpm)

F_{RADIAL} is calculated at 1/2 the shaft length.

