



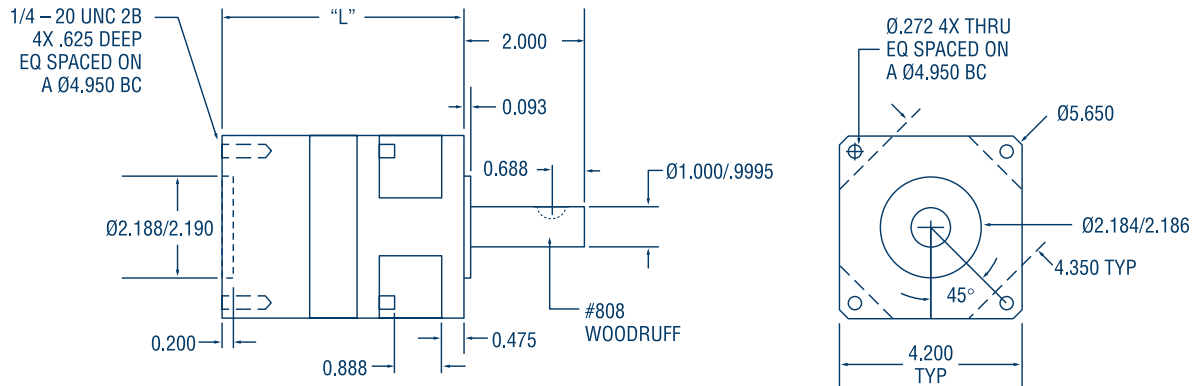
42PL

SPECIFICATIONS

DIMENSION "L"

Single Stage (3:1 to 10:1) = 4.624 ± .015

Double Stage (16:1 to 100:1) = 6.237 ± .015



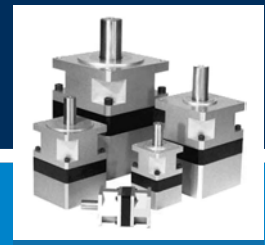
Part #	Ratio	Continuous output torque at 1500 rpm input (in-lbs)	Continuous output torque at 3500 rpm input (in-lbs)	Continuous output torque at 5000 rpm input (in-lbs)	Gearhead inertia at input (lb-in-sec ²)	
SINGLE STAGE	42PL003	3:1	2022	1175	894	2.27 x 10 ⁻³
	42PL004	4:1	1993	1256	983	1.02 x 10 ⁻³
	42PL005	5.5:1	1913	1312	1062	5.87 x 10 ⁻⁴
	42PL007	7:1	1826	1327	1101	4.56 x 10 ⁻⁴
	42PL010	10:1	1527	1196	1029	3.52 x 10 ⁻⁴
DOUBLE STAGE	42PL016	16:1	3346	2745	2419	1.05 x 10 ⁻³
	42PL022	22:1	3503	3003	2711	6.01 x 10 ⁻⁴
	42PL028	28:1	3599	3173	2913	4.65 x 10 ⁻⁴
	42PL040	40:1	3711	3383	3173	3.57 x 10 ⁻⁴
	42PL049	49:1	2710	2530	2411	4.56 x 10 ⁻⁴
	42PL055	55:1	3118	2923	2793	3.53 x 10 ⁻⁴
	42PL070	70:1	2754	2621	2530	3.52 x 10 ⁻⁴
	42PL100	100:1	2113	2043	1994	3.51 x 10 ⁻⁴

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%	10.37	5000
Double Stage	16:1 to 100:1	10	7	85%	16.89	5000

PEAK TORQUE: 15% above continuous rating.

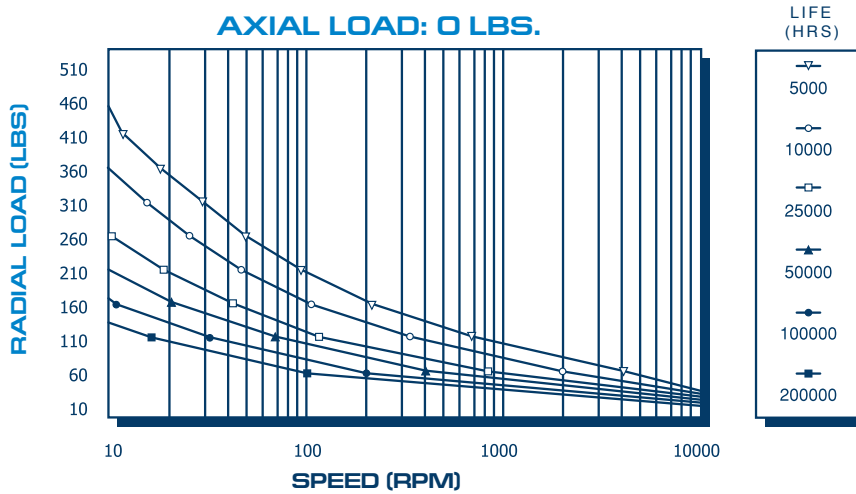
NOTE: Repeated peak torque loading may cause failure.



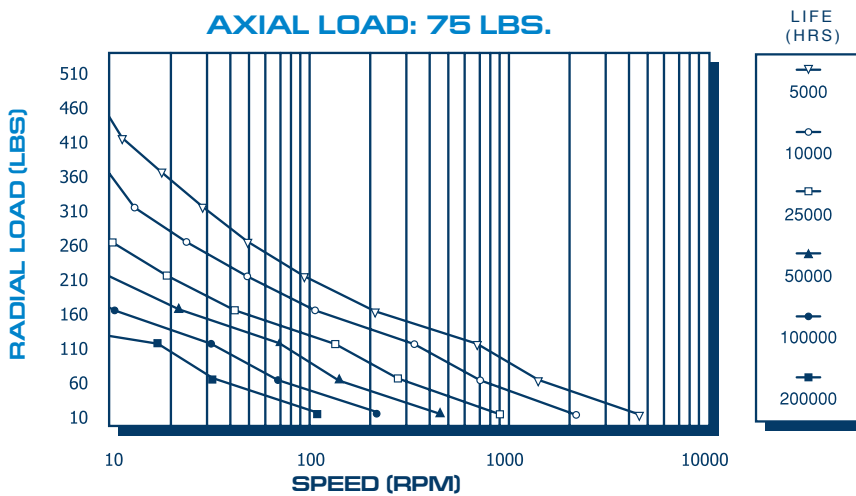
42PL

BEARING LIFE VS SHAFT LOAD

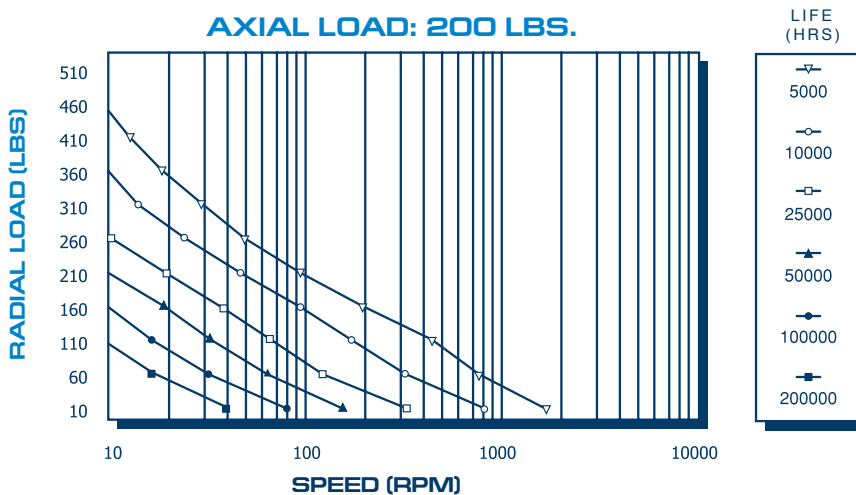
AXIAL LOAD: 0 LBS.



AXIAL LOAD: 75 LBS.



AXIAL LOAD: 200 LBS.



SPEED (RPM)

Refers to the gearheads output shaft speed.

LIFE (HRS)

of lifetime revolutions ÷ (60 x rpm)

F^{RADIAL}

Calculated at 1/2 the shaft length.

