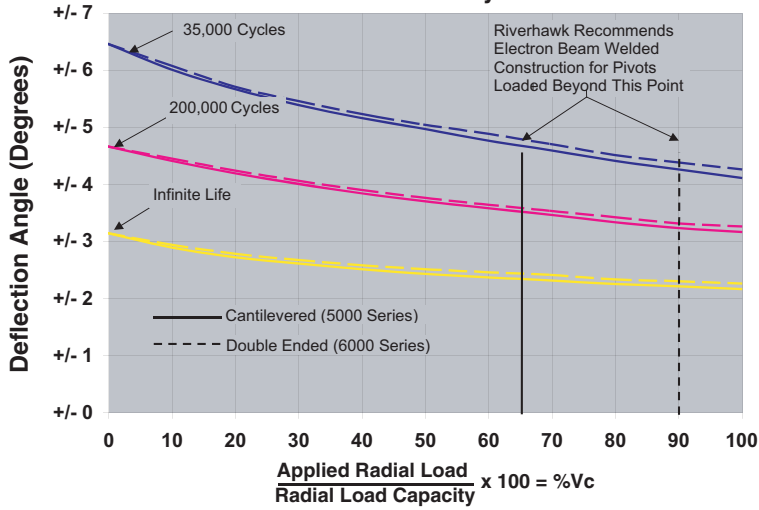
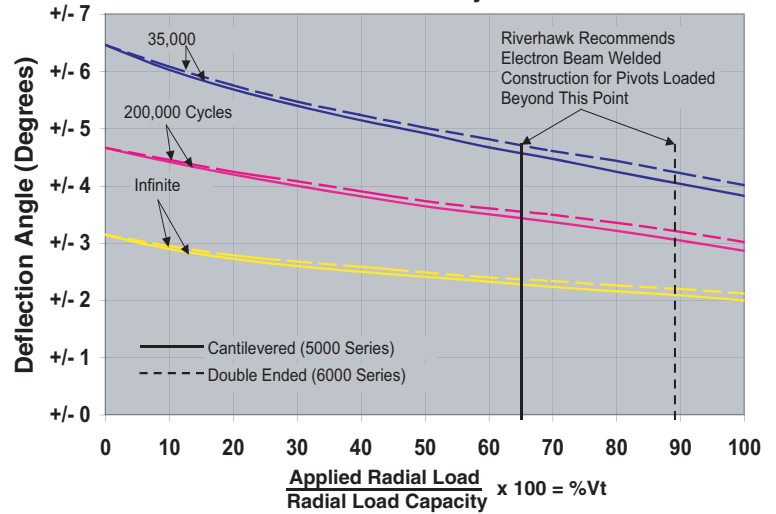


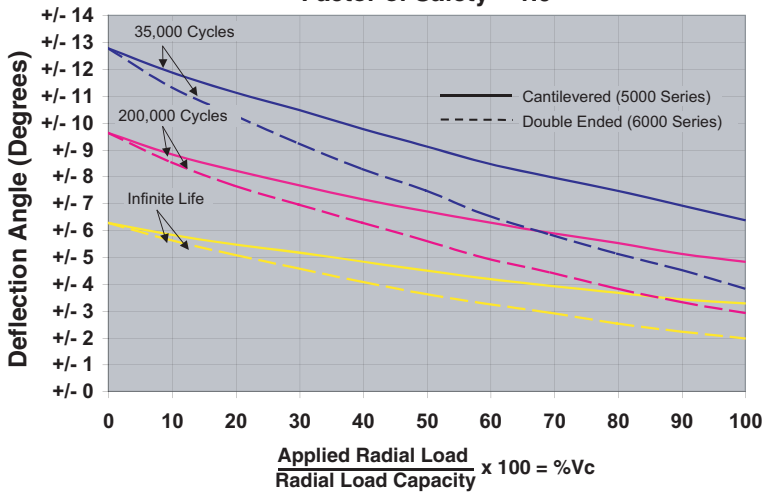
**400 Type Pivot Bearing Loaded in Compression (Vc)**  
Factor of Safety = 1.0



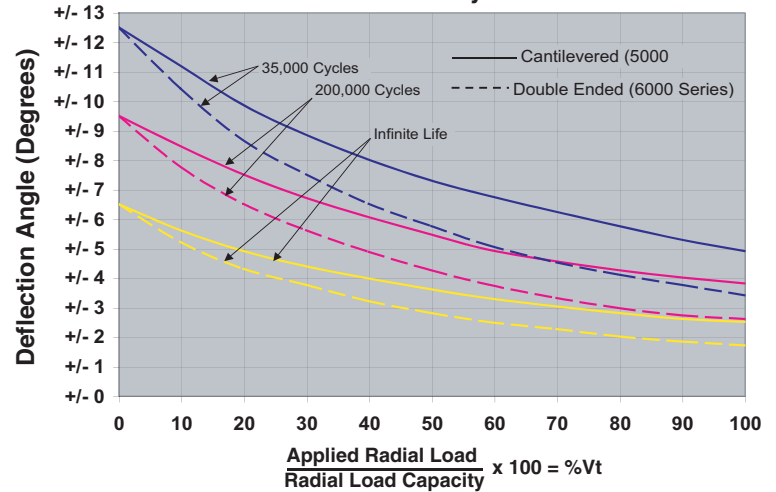
**400 Type Pivot Bearing Loaded in Tension (Vt)**  
Factor of Safety = 1.0



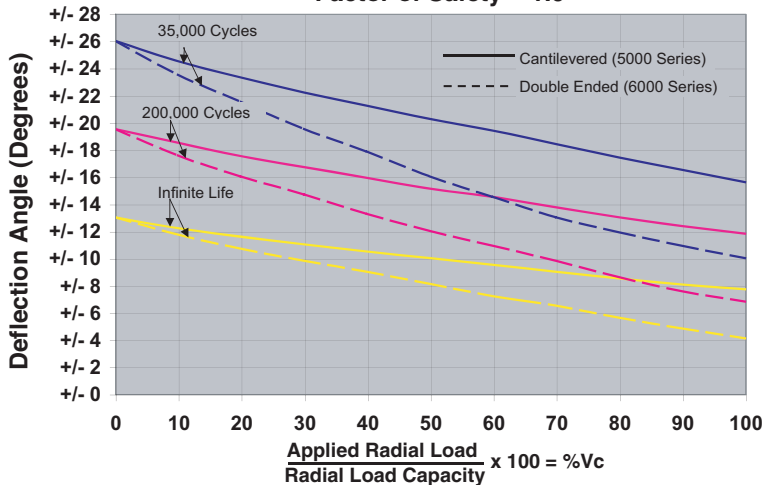
**600 Type Pivot Bearing Loaded in Compression (Vc)**  
Factor of Safety = 1.0



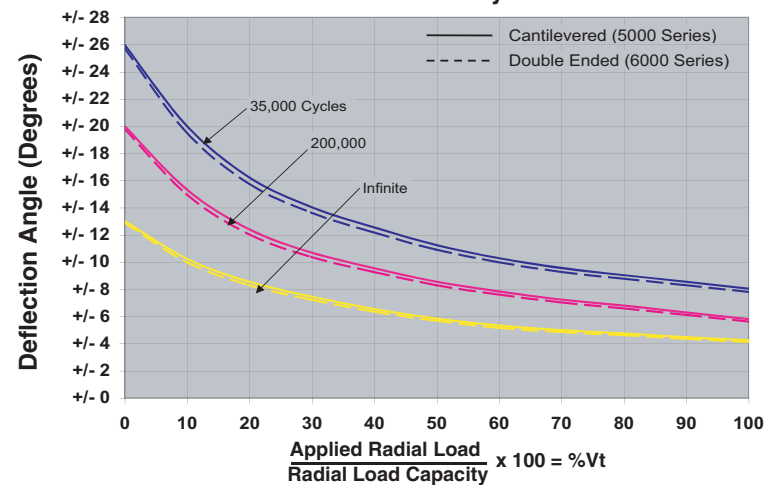
**600 Type Pivot Bearing Loaded in Tension (Vt)**  
Factor of Safety = 1.0



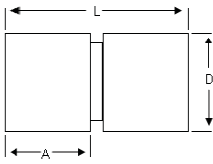
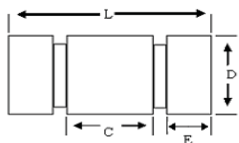
**800 Type Pivot Bearing Loaded in Compression (Vc)**  
Factor of Safety = 1.0



**800 Type Pivot Bearing Loaded in Tension (Vt)**  
Factor of Safety = 1.0



# Dimensions & Selection Process

Nominal Outside Diameter (Inch) D +0.00 -0.0005	Catalog Number	Load Capacity (Pounds) Load at Center of "A" See Note (1)				Catalog Number	Load Capacity (Pounds) Load at Center of "C" See Note (1)					Torsional Spring Rate In-Lb Degree See Note (2)
		Series 5000 Cantilevered (size-type)	Vc Vt	L +/- 0.003	A +/- 0.005		Series 6000 Double Ended (size-type)	Vc Vt	L +/- 0.003	B -0.005	C +0.005 -0.015	
	5004-400	25.5	25.5			6004-400	28.0	28.0				0.0140
0.1250	5004-600	8.9	13.0	0.200	0.095	6004-600	17.7	25.0	0.200	0.045	0.085	0.0017
	5004-800	1.0	3.7			6004-800	2.2	4.7				0.0002
	5005-400	39.5	39.5			6005-400	44.0	44.0				0.0279
0.1562	5005-600	13.8	20.0	0.250	0.120	6005-600	27.6	39.0	0.250	0.057	0.110	0.0035
	5005-800	1.5	6.0			6005-800	3.5	7.4				0.0004
	5006-400	56.0	56.0			6006-400	63.0	63.0				0.0473
	5006-600	19.8	28.0	0.300	0.142	6006-600	39.6	56.0	0.300	0.067	0.130	0.0057
0.1875	5006-660	12.2	20.2									0.0037
	5006-800	2.1	8.0			6006-800	4.9	9.0				0.0007
	5008-400	101.0	101.0			6008-400	113.0	113.0				0.1141
0.2500	5008-600	35.5	51.0	0.400	0.190	6008-600	70.7	100.0	0.400	0.090	0.175	0.0143
	5008-800	3.7	14.5			6008-800	8.5	19.0				0.0018
	5010-400	158.0	158.0			6010-400	176.0	176.0				0.2234
0.3125	5010-600	55.0	79.0	0.500	0.238	6010-600	110.0	156.0	0.500	0.112	0.220	0.0286
	5010-800	5.8	23.0			6010-800	14.0	29.0				0.0036
	5012-400	228.0	228.0			6012-400	253.0	253.0				0.3840
0.3750	5012-600	80.0	114.0	0.600	0.285	6012-600	159.0	225.0	0.600	0.135	0.265	0.0480
	5012-800	8.4	32.8			6012-800	19.8	42.0				0.0058
	5016-400	403.0	403.0			6016-400	450.0	450.0				0.9080
0.5000	5016-600	141.0	202.0	0.800	0.380	6016-600	283.0	400.0	0.800	0.180	0.355	0.1134
	5016-800	14.6	58.0			6016-800	35.4	75.0				0.0142
	5020-400	634.0	634.0			6020-400	703.0	703.0				1.8500
0.6250	5020-600	222.0	317.0	1.000	0.475	6020-600	442.0	625.0	1.000	0.225	0.445	0.2321
	5020-800	23.0	93.0			6020-800	55.0	117.0				0.0295
	5024-400	910.0	910.0			6024-400	1013.0	1013.0				3.1800
0.7500	5024-600	318.0	455.0	1.200	0.570	6024-600	363.0	900.0	1.200	0.270	0.535	0.3980
	5024-800	33.0	130.0			6024-800	78.0	169.0				0.0500
	5032-400	1620.0	1620.0			6032-400	1800.0	1800.0				7.5200
1.0000	5032-600	567.0	815.0	1.600	0.770	6032-600	1131.0	1600.0	1.600	0.370	0.735	0.9390
	5032-800	60.0	236.0			6032-800	141.0	300.0				0.1175

(1) Pounds at zero deflection based on pure radial load. When the load is applied directly through a single spring, multiply capacity shown by 0.0707.

(2) At zero load.

## Pivot Selection Process

1. Determine the preferred mounting arrangement so as to select a Cantilevered (Single-Ended) or Double Ended design.
  2. Identify the load carrying requirements.
  3. Determine if the loads are axial, radial, or combined. If the loads are combined please consult Riverhawk Engineering for assistance.
  4. Review the Pivot Characteristics Chart for pivot sizes capable of carrying the loads identified in Step 2.
  5. Select the most probable size using the loads and directions. Consider the torsional spring rate in your selection process.
  6. From the selected pivot part number, use the last three digits and the desired load direction to refer to the appropriate Life Cycle Curves.
  7. Using the X-Axis formula, compute the percentage of load and use it to determine the maximum deflection angle of the pivot for the desired life cycles.
  8. If that angle meets your requirements then the selection process is complete. If that angle does not meet your requirements, please refer back to Step 5 and repeat the process until all of your requirements have been met.
- \* If you have any questions during the selection process, please consult Riverhawk Engineering for assistance.