

C-FLEX BEARINGS

Radial and Axial Stiffness Properties

Note: Unless indicated, all values under load capacity apply to Cantilever Bearings

Lc = Load in compression

Lt = Load in tension

BEARING SERIES	LOAD CAPACITY			RADIAL STIFFNESS*		
	Lc	Lt	Axial	Lc	Lt	Axial Stiffness
A SERIES						
10	0.95	3.80	6.08	0.00050	0.00100	0.00050
20	8.90	12.70	12.70	0.00025	0.00050	0.00030
30	25.30	25.30	25.30	0.00017	0.00025	0.00030
B SERIES						
10	1.40	5.60	8.96	0.00033	0.00050	0.00030
20	13.70	19.60	19.60	0.00017	0.00025	0.00020
30	39.30	39.30	39.30	0.00013	0.00017	0.00013
C SERIES						
10	2.00	7.80	12.48	0.00025	0.00033	0.00025
20	19.50	27.90	27.90	0.00014	0.00017	0.00013
30	55.80	55.80	55.80	0.00009	0.00011	0.00008
D SERIES						
10	3.60	14.20	22.72	0.00022	0.00020	0.00014
20	35.00	50.00	50.00	0.00010	0.00011	0.00008
30	100.00	100.00	100.00	0.00006	0.00008	0.00005
E SERIES						
10	5.70	22.80	36.48	0.00014	0.00014	0.00010
20	55.00	78.60	78.60	0.00008	0.00008	0.00006
30	157.10	157.10	157.10	0.00005	0.00006	0.00004
F SERIES						
10	8.40	33.60	53.76	0.00013	0.00008	0.00010
20	79.10	113.00	113.00	0.00007	0.00006	0.00006
30	226.00	226.00	226.00	0.00005	0.00003	0.00004
G SERIES						
10	14.40	57.40	91.84	0.00010	0.00006	0.00008
20	140.00	200.00	200.00	0.00005	0.00003	0.00005
30	400.00	400.00	400.00	0.00003	0.00002	0.00003
H SERIES						
10	23.00	92.00	147.20	0.00008	0.00005	0.00006
20	221.10	315.80	315.80	0.00004	0.00002	0.00003
30	631.50	631.50	631.50	0.00003	0.00002	0.00002
I SERIES						
10	32.40	129.40	207.40	0.00006	0.00004	0.00005
20	317.20	453.10	453.10	0.00003	0.00002	0.00003
30	906.10	906.10	906.10	0.00002	0.00001	0.00002
J SERIES						
10	59.20	236.60	378.88	0.00005	0.00003	0.00004
20	566.30	809.00	809.00	0.00002	0.00001	0.00002
30	1616.00	1616.00	1616.00	0.00001	0.00001	0.00001

1. Stiffness of bearing is rated in inches of deflection per pound of load.

2. *This data applies to standard cantilever bearings loaded at the mid-point of the unsupported half, at 0 degrees rotation.

3. *The total stiffness of a pair of tandem mounted cantilevered bearings connected very stiffly in a mechanical system may be determined by dividing the above values by **three**.

4. *For double ended bearings of the same sizes and types as above, divide the above radial stiffness values by **two**.