


THRUST BEARINGS
PLAIN AND FLANGED BEARINGS

Dimensions		Tolerances
Over	Up to & Incl.	

Inside and Outside Diameters (Inches)

Over	Up to & Incl.	Tolerances
—	1/2	+0.000 -0.001
1/2	1	+0.000 -0.001
1	1-1/2	+0.000 -0.001
1-1/2	2-1/2	+0.000 -0.0015
2-1/2	3-1/2	+0.000 -0.002
3-1/2	4-1/2	+0.000 -0.0025

Length

Over	Up to & Incl.	Tolerances
—	1-1/2	±.005
1-1/2	3	±.0075
3	4-1/2	±.010

Flange Diameter – Based on Flange O.D.

Over	Up to & Incl.	Tolerances
—	1-1/4	±.005
1-1/4	2-1/2	±.010
2-1/2	4	±.015
4	4-1/2	±.025

Flange Thickness – Based on Flange O.D.

Over	Up to & Incl.	Tolerances
—	1-1/4	±.0025
1-1/4	2-1/2	±.005

Flange Fillets, Radii – Based on Body O.D.

Over	Up to & Incl.	Tolerances
—	1	1/32 ±.010
1	2	3/64 ±.010
2	2-1/2	1/16 ±.010
2-1/2	4	3/32 ±.1/64

**Concentricity, I.D. with Respect to O.D.
(Maximum Total Dial Indicator Reading)
Based on I.D.**

Over	Up to & Incl.	Tolerances
—	1	.003
1	1-1/2	.003
1-1/2	3	.004
3	4-1/2	.005

Dimensions		Tolerances
Over	Up to & Incl.	

Inside Diameter

Over	Up to & Incl.	Tolerances
—	1-1/4	±.005
1-1/4	2-1/2	±.010
2-1/2	4	±.015

Thickness

Over	Up to & Incl.	Tolerances
—	—	±.0025

Outside Diameter

Over	Up to & Incl.	Tolerances
—	1-1/2	±.010
1-1/2	3	±.015
3	4-1/2	±.020

Parallelism of Faces – Based on O.D.

Over	Up to & Incl.	Tolerances
—	1-1/2	.002
1-1/2	3-1/2	.003
3-1/2	4	.004

RUNNING CLEARANCE

Proper running clearance for bearings depends to a great extent on the particular application. Only minimum recommended clearances for oil-impregnated bearings used with ground steel shafting are listed.

Running Clearances

Shaft Size in.	Clearance, min. in.	
	Bronze Base	Iron Base
Up to .760	.0005	.001
.761 to 1.510	.001	.0015
1.511 to 2.510	.0015	.002
Over 2.510	.002	.0025

PRESS-FITS

Plain cylindrical journal bearings are commonly installed by press-fitting the bearing into a housing with an insertion arbor. For housings rigid enough to withstand the press-fit without appreciable distortion and for bearings with thickness approximately one-eighth of the bearing outside diameter, the press-fits shown are recommended.

Recommended Press-Fits

Outside Diameter in.	Press-Fit, in.	
	min.	max.
Up to .760	.001	.003
.761 to 1.510	.0015	.004
1.511 to 2.510	.002	.005
2.511 to 3.010	.002	.006
Over 3.010	.002	.007