

Inner Ring Tolerances

(a) Inner Ring and Width – up to 2.5 mm bore (Tolerances in .001 mm)

Grade	Mean Bore Deviation	Single Bore Variation			Mean Bore Variation	Width Deviation	Width Variation	Radial Runout	Face Runout /Bore	Face Runout/ Raceway
		7,8,9	0	2,3						
P0	+0/-8	10	8	6	6	0-40	12	10	-	-
P6	+0/-7	9	7	5	5	0-40	12	5	-	-
P5	+0/-5	5	4	4	3	0-40	5 (1)	4	7	7
P4	+0/-4	4	3	3	2	0-40	2.5 (1)	2.5	3	3

(1) applies to inner ring only

(b) Inner Ring and Width – over 2.5mm to 10 mm bore (Tolerances in .001 mm)

Grade	Mean Bore Deviation	Single Bore Variation			Mean Bore Variation	Width Deviation	Width Variation	Radial Runout	Face Runout /Bore	Face Runout/ Raceway
		7,8,9	0	2,3						
P0	+0/-8	10	8	6	6	0-120	15	10	-	-
P6	+0/-7	9	7	5	5	0-120	15	6	-	-
P5	+0/-5	5	4	4	3	0-40	5(1)	4	7	7
P4	+0/-4	4	3	3	2	0-40	2.5 (1)	2.5	3	3

(1) applies to inner ring only

(c) Inner Ring and Width – over 10mm to 18 mm bore (Tolerances in .001 mm)

Grade	Mean Bore Deviation	Single Bore Variation			Mean Bore Variation	Width Deviation	Width Variation	Radial Runout	Face Runout /Bore	Face Runout/ Raceway
		7,8,9	0	2,3						
P0	+0/-8	10	8	6	6	0-120	20	10	-	-
P6	+0/-7	9	7	5	5	0-120	20	7	-	-
P5	+0/-5	5	4	4	3	0-80	5(1)	4	7	7
P4	+0/-4	4	3	3	2	0-80	2.5 (1)	2.5	3	3

(1) applies to inner ring only

(d) Inner Ring and Width – over 18mm to 30 mm bore (Tolerances in .001 mm)

Grade	Mean Bore Deviation	Single Bore Variation			Mean Bore Variation	Width Deviation	Width Variation	Radial Runout	Face Runout /Bore	Face Runout/ Raceway
		7,8,9	0	2,3						
P0	+0/-10	13	10	8	8	0-120	20	13	-	-
P6	+0/-8	10	8	6	6	0-120	20	8	-	-
P5	+0/-6	6	5	5	3	0-120	5 ⁽¹⁾	4	8	8
P4	+0/-5	5	4	4	2.5	0-120	2.5 ⁽¹⁾	3	4	4

(1) applies to inner ring only

(e) Inner Ring and Width – over 30mm to 50 mm bore (Tolerances in .001 mm)

Grade	Mean Bore Deviation	Single Bore Variation			Mean Bore Variation	Width Deviation	Width Variation	Radial Runout	Face Runout /Bore	Face Runout/ Raceway
		7,8,9	0	2,3						
P0	+0/-12	15	12	9	9	0-120	20	15	-	-
P6	+0/-10	13	10	8	8	0-120	20	10	-	-
P5	+0/-8	8	6	6	4	0-120	5 ⁽¹⁾	5	8	8
P4	+0/-6	6	5	5	3	0-120	3 ⁽¹⁾	4	4	4

(1) applies to inner ring only

Outer Ring Tolerances

(f) Outer Ring– up to 6mm O.D. (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Single O.D. Variation				Mean O. D. Variation	Width Variation	Radial Runout	Face Runout /O.D.	Face Runout/ Raceway
		7,8,9 open	0 open	2,3 open	0,2,3 ZZ,2RS					
P0	+0/-8	10	8	6	10	6	(2)	15	-	-
P6	+0/-7	9	7	5	9	5	(2)	8	-	-
P5	+0/-5	5	4	4	-	3	5	5	8	8
P4	+0/-4	4	3	3	-	2	2.5	3	4	5

(2) same as inner ring value

(g) Outer Ring– over 6mm up to 18mm O.D. (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Single O.D. Variation				Mean O. D. Variation	Width Variation	Radial Runout	Face Runout /O.D.	Face Runout/ Raceway
		7,8,9 open	0 open	2,3 open	0,2,3 ZZ,2RS					
P0	+0/-8	10	8	6	10	6	(2)	15	-	-
P6	+0/-7	9	7	5	9	5	(2)	8	-	-
P5	+0/-5	5	4	4	-	3	5	5	8	8
P4	+0/-4	4	3	3	-	2	2.5	3	4	5

(2) same as inner ring value

(h) Outer Ring– over 18mm up to 30mm O.D. (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Single O.D. Variation				Mean O. D. Variation	Width Variation	Radial Runout	Face Runout /O.D.	Face Runout/ Raceway
		7,8,9 open	0 open	2,3 open	0,2,3 ZZ,2RS					
P0	+0/-9	12	9	7	12	7	(2)	15	-	-
P6	+0/-8	10	8	6	10	6	(2)	9	-	-
P5	+0/-6	6	5	5	-	3	5	6	8	8
P4	+0/-5	5	4	4	-	2.5	2.5	4	4	5

(2) same as inner ring value

(i) Outer Ring– over 30mm up to 50mm O.D. (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Single O.D. Variation				Mean O. D. Variation	Width Variation	Radial Runout	Face Runout /O.D.	Face Runout/ Raceway
		7,8,9 open	0 open	2,3 open	0,2,3 ZZ,2RS					
P0	+0/-11	14	11	8	16	8	(2)	20	-	-
P6	+0/-9	11	9	7	13	7	(2)	10	-	-
P5	+0/-7	7	5	5	-	4	5	7	8	8
P4	+0/-6	6	5	5	-	3	2.5	5	4	5

(2) same as inner ring value

APPENDIX D

(j) Outer Ring– over 50mm up to 80mm O.D. (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Single O.D. Variation				Mean O. D. Variation	Width Variation	Radial Runout	Face Runout /O.D.	Face Runout/ Raceway
		7,8,9 open	0 open	2,3 open	0,2,3 ZZ,2RS					
P0	+0/-13	16	13	10	20	10	(2)	25	-	-
P6	+0/-11	14	11	8	16	8	(2)	13	-	-
P5	+0/-9	9	7	7	-	5	6	8	8	10
P4	+0/-7	7	5	5	-	3.5	3	5	4	5

(2) same as inner ring value

Flange Tolerances

(k) All Sizes (Tolerances in .001 mm)

Grade	Mean O.D. Deviation	Mean O.D. Variation
P0	+125/-50	+0/-50
P6	+125/-50	+0/-50
P5	+0/-25	+0/-50
P4	+0/-25	+0/-50