Tolerance Table

Inner Ring

Definition		Dimension Series	d mm		P0 µm		P6 µm		P5 µm		P4 µm		P2 µm		P5A µm		P4A µm		ABEC1 .0001 in		ABEC5 .0001 in		ABEC7 .0001 in		ABEC9 .0001 in		ABEC3P .0001 in		ABEC5P .0001 in		ABEC7P .0001 in		ABEC9P .0001 in	
			Over	To	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Single plane mean bore diameter deviation	Δdmp		0.6	18	0	-8	0	-7	0	-5	0	-4	0	-2.5	0	-5	0	-5	0	-3	0	-2	0	-1.5			0	-2	0	-2	0	-2	0	-1
Deviation of a single bore diameter	Δds		0.6	18							0	-4	0	-2.5	0	-5	0	-5	+1	-4	0	-2	0	-1.5	0	-1	+1	-3	0	-2	0	-2	0	-1
Bore diameter deviation in a single radial plane	Vdp	7/8/9 0 2/3	0.6 0.6 0.6	18 18 18	10 8 6		9 7 5		5 4 4		4 3 3		2.5 2.5 2.5		3 3 3		2.5 2.5 2.5												1 1 1		1 1 1		0.5 0.5 0.5	
Mean bore diameter variation	Vdmp		0.6	18	6		5		3		2		1.5		3		2.5												1		1		0.5	
Deviation of a single ring width	ΔBs[1]		0.6 0.6 2.5 10	2.5 10 10 18	0 0 0	-40 -120 -120	0 0 0	-40 -120 -120	0 0 0	-40 -40 -80	0 0 0	-40 -40 -80	0 0 0	-40 -40 -40	0 0 0	-25 -25 -25	0 0 0	-25 -25 -25	 0 0	 -50 -50	0 0	-16 -32	0 0	-16 -32	 0 0	 -16 -32	0 0	-16 -32	0 0	-10 -10	0 0	-10 -10	0 0	-10 -10	0 0	-10 -10
Variation in the width of the rings	VB_s		0.6 0.6 2.5 10	2.5 10 10 18	12 15 20		12 15 20		5 5 5		2.5 2.5 2.5		1.5 1.5 1.5		5 5 5		2.5 2.5 2.5				2 2		1 1		 0.5 0.5				2 2		 1 1		0.5 0.5	
Radial runout of assembled bearing inner ring	K_{ia}		0.6 2.5 10	2.5 10 18	10 10 10		5 6 7		4 4 4		2.5 2.5 2.5		1.5 1.5 1.5		3.5 3.5 3.5		2.5 2.5 2.5		3 3 4		1.5 1.5 1.5		1 1 1		0.5 0.5 0.5		2 2 2		1.5 1.5 1.5		1 1 1		0.5 0.5 0.5	
Face runout with bore	S_d		0.6	18					8		3		1.5		7		3				3		1		5				3		1		0.5	
Assembled bearing inner ring face runout with raceway	Si_a		0.6	18					7		3		1.5		7		3				3		1		5				3		1		0.5	

[1] The tolerance for the total width of the matched pair is 0/-200µm

[2] Is valid before the bearing has been assembled and after the inner and/or outer circlips have been removed

[3] For flanged bearings the flange back side