

table 1 - Class P4A tolerances

Inner ring														
d		$t_{\Delta dmp}^{1)}$		$t_{\Delta ds}^{2)}$		$t_{\Delta dsp}$	$t_{\Delta dmp}$	$t_{\Delta Bs}$			$t_{\Delta Bs}$	$t_{\Delta ka}$	$t_{\Delta sd}$	$t_{\Delta sia}$
		U	L	U	L									
>	≤	U	L	U	L									
mm		μm		μm		μm	μm	μm			μm	μm	μm	μm
2,5	10	0	-4	0	-4	1,5	1	0	-40	-250	1,5	1,5	1,5	1,5
10	18	0	-4	0	-4	1,5	1	0	-80	-250	1,5	1,5	1,5	1,5
18	30	0	-5	0	-5	1,5	1	0	-120	-250	1,5	2,5	1,5	2,5
30	50	0	-6	0	-6	1,5	1	0	-120	-250	1,5	2,5	1,5	2,5
50	80	0	-7	0	-7	2	1,5	0	-150	-250	1,5	2,5	1,5	2,5
80	120	0	-8	0	-8	2,5	1,5	0	-200	-380	2,5	2,5	2,5	2,5
120	150	0	-10	0	-10	6	3	0	-250	-380	4	4	4	4
150	180	0	-10	0	-10	6	3	0	-250	-380	4	6	5	6
180	250	0	-12	0	-12	7	4	0	-300	-500	5	7	6	7
250	315	0	-13	0	-13	8	5	0	-350	-550	6	8	7	7
315	400	0	-16	0	-16	10	6	0	-400	-600	6	9	8	8
Outer ring														
D		$t_{\Delta Dmp}^{1)}$		$t_{\Delta Ds}^{2)}$		$t_{\Delta Dsp}^{4)5)}$	$t_{\Delta Dmp}^{4)5)}$	$t_{\Delta Cs}$			$t_{\Delta Cs}$	$t_{\Delta ka}$	$t_{\Delta sd}^{6)}$	$t_{\Delta sea}$
		U	L	U	L									
>	≤	U	L	U	L									
mm		μm		μm		μm	μm			μm	μm	μm	μm	
10	18	0	-4	0	-4	1,5	1	Identical to $t_{\Delta Bs}$ of an inner ring of the same bearing as the outer ring			1,5	1,5	0,75	1,5
18	30	0	-5	0	-5	2	1,5				1,5	1,5	0,75	1,5
30	50	0	-6	0	-6	2	1,5				1,5	2,5	0,75	2,5
50	80	0	-7	0	-7	2	1,5				1,5	4	0,75	4
80	120	0	-8	0	-8	2,5	1,5				2,5	5	1,25	5
120	150	0	-9	0	-9	4	1,5				2,5	5	1,25	5

150	180	0	-10	0	-10	6	3	4	6	2	6
180	250	0	-11	0	-11	6	4	5	8	2,5	8
250	315	0	-13	0	-13	8	5	5	9	3	8
315	400	0	-15	0	-15	9	6	7	10	4	10
400	500	0	-20	0	-20	12	8	8	13	5	13

1) These deviations apply for bearings in the 8 and 9 diameter series only.

2) These deviations apply for bearings in the 0 and 2 diameter series only.

3) Applies to inner rings and outer rings of bearings of matched bearing sets consisting of two or more bearings and universally matchable angular contact ball bearings.

4) No values have been established for capped bearings.

5) Applies to bearings prior to mounting and after removal of internal or external snap ring.

6) Tolerance values have become half the values in accordance with the revised ISO standard (2014) because SD is defined as perpendicularity of outer ring outside surface axis with respect to datum established from the outer ring face.