

table 3 - Class P4 (ABEC 7) tolerances

Inner ring															
d		$t_{\Delta dmp}^{1)}$		$t_{\Delta ds}^{2)}$		$t_{\Delta dsp}$	$t_{\Delta dmp}$	$t_{\Delta Bs}$				t_{VBs}	t_{Kia}	t_{Sd}	t_{Sia}
>	≤	U	L	U	L			All	Normal	Modified ³⁾					
		U	L	U	L			U	L	L					
mm		μm		μm		μm	μm	μm			μm	μm	μm	μm	
2,5	10	0	-4	0	-4	4	2	0	-60	-250	2,5	2,5	3	3	
10	18	0	-4	0	-4	4	2	0	-80	-250	2,5	2,5	3	3	
18	30	0	-5	0	-5	5	2,5	0	-120	-250	2,5	3	4	4	
30	50	0	-6	0	-6	6	3	0	-120	-250	3	4	4	4	
50	80	0	-7	0	-7	7	3,5	0	-150	-250	4	4	5	5	
80	120	0	-8	0	-8	8	4	0	-200	-380	4	5	5	5	
120	150	0	-10	0	-10	10	5	0	-250	-380	5	6	6	7	
150	180	0	-10	0	-10	10	5	0	-250	-380	5	6	6	7	
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_{VCs}	t_{Kea}	$t_{SD}^{6)}$	t_{Sea}
>	≤	U	L	U	L										
mm		μm		μm		μm	μm					μm	μm	μm	μm
18	30	0	-5	0	-5	5	2,5	Identical to $t_{\Delta Bs}$ of an inner ring of the same bearing as the outer ring				2,5	4	2	5
30	50	0	-6	0	-6	6	3					2,5	5	2	5
50	80	0	-7	0	-7	7	3,5					3	5	2	5
80	120	0	-8	0	-8	8	4					4	6	2,5	6
120	150	0	-9	0	-9	9	5					5	7	2,5	7
150	180	0	-10	0	-10	10	5					5	8	2,5	8
180	250	0	-11	0	-11	11	6					7	10	3,5	10

Tolerance symbols and definitions → [table](#)

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.