

Deviations of Holes to be Used in Commonly Used Fits

Excerpt from JIS B 0401:2016

Class of basic dimension (mm)		Tolerance zone class of hole																		
More than	Not more than	B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8	H9	H10
—	3	+180	+85	+100	+34	+45	+60	+24	+28	+39	+12	+16	+20	+8	+12	+6	+10	+14	+25	+40
		+140	+60	+60	+20	+20	+20	+14	+14	+14	+6	+6	+6	+2	+2	0	0	0	0	0
3	6	+188	+100	+118	+48	+60	+78	+32	+38	+50	+18	+22	+28	+12	+16	+8	+12	+18	+30	+48
		+140	+70	+70	+30	+30	+30	+20	+20	+20	+10	+10	+10	+4	+4	0	0	0	0	0
6	10	+208	+116	+138	+62	+76	+98	+40	+47	+61	+22	+28	+35	+14	+20	+9	+15	+22	+36	+58
		+150	+80	+80	+40	+40	+40	+25	+25	+25	+13	+13	+13	+5	+5	0	0	0	0	0
10	14	+220	+138	+165	+77	+93	+120	+50	+59	+75	+27	+34	+43	+17	+24	+11	+18	+27	+43	+70
		+150	+95	+95	+50	+50	+50	+32	+32	+32	+16	+16	+16	+6	+6	0	0	0	0	0
18	24	+244	+162	+194	+98	+117	+149	+61	+73	+92	+33	+41	+53	+20	+28	+13	+21	+33	+52	+84
		+160	+110	+110	+65	+65	+65	+40	+40	+40	+20	+20	+20	+7	+7	0	0	0	0	0
24	30	+270	+182	+220	+119	+142	+180	+75	+89	+112	+41	+50	+64	+25	+34	+16	+25	+39	+62	+100
		+170	+120	+120																
30	40	+280	+192	+230	+80	+80	+80	+50	+50	+25	+25	+25	+9	+9	0	0	0	0	0	0
		+180	+130	+130																
50	65	+310	+214	+260	+146	+174	+220	+90	+106	+134	+49	+60	+76	+29	+40	+19	+30	+46	+74	+120
		+190	+140	+140																
65	80	+320	+224	+270	+100	+100	+100	+60	+60	+30	+30	+30	+10	+10	0	0	0	0	0	0
		+200	+150	+150																
80	100	+360	+257	+310	+174	+207	+260	+107	+126	+159	+58	+71	+90	+34	+47	+22	+35	+54	+87	+140
		+220	+170	+170																
100	120	+380	+267	+320	+120	+120	+120	+72	+72	+36	+36	+36	+12	+12	0	0	0	0	0	0
		+240	+180	+180																
120	140	+420	+300	+360																
		+260	+200	+200																
140	160	+440	+310	+370	+208	+245	+305	+125	+148	+185	+68	+83	+106	+39	+54	+25	+40	+63	+100	+160
		+280	+210	+210																
160	180	+470	+330	+390																
		+310	+230	+230																
180	200	+525	+355	+425																
		+340	+240	+240																
200	225	+565	+375	+445	+242	+285	+355	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185
		+380	+260	+260																
225	250	+605	+395	+465																
		+420	+280	+280																
250	280	+690	+430	+510																
		+480	+300	+300																
280	315	+750	+460	+540	+190	+190	+190	+110	+110	+110	+56	+56	+56	+17	+17	0	0	0	0	0
		+540	+330	+330																
315	355	+830	+500	+590	+299	+350	+440	+182	+214	+265	+98	+119	+151	+54	+75	+36	+57	+89	+140	+230
		+600	+360	+360																
355	400	+910	+540	+630	+210	+210	+210	+125	+125	+125										
		+680	+400	+400																
400	450	+1010	+595	+690																
		+760	+440	+440																
450	500	+1090	+635	+730	+230	+230	+230	+135	+135	+135	+68	+68	+68	+20	+20	0	0	0	0	0
		+840	+480	+480																

Remark: In each step of above table, upper figure shows the dimensional allowance of high, and lower figure shows the dimensional allowance of low.

Unit: μm

Class of basic dimension (mm)		Tolerance zone class of hole																	
More than	Not more than	JS6	JS7	J6	J7	K6	K7	M6	M7	N6	N7	P6	P7	R7	S7	T7	U7	X7	
—	3	±3	±5	+2 −4	+4 −6	0 −6	0 −10	−2 −8	−2 −12	−4 −10	−4 −14	−6 −12	−6 −16	−10 −20	−14 −24	—	−18 −28	−20 −30	
3	6	±4	±6	+5 −3	±6	+2 −6	+3 −9	−1 −9	0 −12	−5 −13	−4 −16	−9 −17	−8 −20	−11 −23	−15 −27	—	−19 −31	−24 −36	
6	10	±4.5	±7.5	+5 −4	+8 −7	+2 −7	+5 −10	−3 −12	0 −15	−7 −16	−4 −19	−12 −21	−9 −24	−13 −28	−17 −32	—	−22 −37	−28 −43	
10	14	±5.5	±9	+6 −5	+5 −3	+2 −9	+6 −12	−4 −15	0 −18	−9 −20	−5 −23	−15 −26	−11 −29	−16 −34	−21 −39	—	−26 −44	−33 −51	
14	18																	−38 −56	
18	24	±6.5	±10.5	+8 −5	+12 −9	+2 −11	+6 −15	−4 −17	0 −21	−11 −24	−7 −28	−18 −31	−14 −35	−20 −41	−27 −48	—	−33 −54	−46 −67	
24	30															−33 −54	−40 −61	−56 −77	
30	40	±8	±12	+10 −6	+14 −11	+3 −13	+7 −18	−4 −20	0 −25	−12 −28	−8 −33	−21 −37	−17 −42	−25 −50	−34 −59	−39 −64	−51 −76	—	
40	50															−45 −70	−61 −86		
50	65	±9.5	±15	+13 −6	+18 −12	+4 −15	+9 −21	−5 −24	0 −30	−14 −33	−9 −39	−26 −45	−21 −51	−30 −60	−42 −72	−55 −85	−76 −106	—	
65	80													−32 −62	−48 −78	−64 −94	−91 −121		
80	100	±11	±17.5	+16 −6	+22 −13	+4 −18	+10 −25	−6 −28	0 −35	−16 −38	−10 −45	−30 −52	−24 −59	−38 −73	−58 −93	−78 −113	−111 −146	—	
100	120													−41 −76	−66 −101	−91 −126	−131 −166		
120	140	±12.5	±20	+18 −7	+26 −14	+4 −21	+12 −28	−8 −33	0 −40	−20 −45	−12 −52	−36 −61	−28 −68	−48 −88	−77 −117	−107 −147	—	—	—
140	160													−50 −90	−85 −125	−119 −159			
160	180													−53 −93	−93 −133	−131 −171			
180	200													−60 −106	−105 −151	−111 −146			
200	225	±14.5	±23	+22 −7	+30 −16	+5 −24	+13 −33	−8 −37	0 −46	−22 −51	−14 −60	−41 −70	−33 −79	−63 −109	−113 −159	—	—	—	
225	250													−67 −113	−123 −169	—	—	—	
250	280	±16	±26	+25 −7	+36 −16	+5 −27	+16 −36	−9 −41	0 −52	−25 −57	−14 −66	−47 −79	−36 −88	−74 −126	—	—	—	—	
280	315													−78 −130					
315	355	±18	±28.5	+29 −7	+39 −18	+7 −29	+17 −40	−10 −46	0 −57	−26 −62	−16 −73	−51 −87	−41 −98	−87 −144	—	—	—	—	
355	400													−93 −150					
400	450	±20	±31.5	+33 −7	+43 −20	+8 −32	+18 −45	−10 −50	0 −63	−27 −67	−17 −80	−55 −95	−45 −108	−103 −166	—	—	—	—	
450	500													−109 −172					