

**[TECHNICAL DATA]
TOLERANCES OF COMMONLY USED HOLE FITS**

Excerpt from
JIS B 0401(1986)

Deviations of holes to be used in commonly used fits

Tolerance zone class of hole																			Unit : μm																									
Basic size step (mm)		Unit : μm																	Unit : μm																									
Deviation less		B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8	H9	H10	J56	J57	K6	M7	N6	M7	N7	P6	P7	R7	S7	T7	U7	X7										
-	3	+180	+85	+100	+34	+45	+60	+24	+28	+33	+12	+16	+20	+8	+12	+6	+10	+14	+25	+40	± 3	± 5	0	0	-2	-2	-4	-6	-10	-14	-18	-20												
-	3	+180	+60	+60	+20	+20	+14	+14	+14	+14	+6	+6	+6	+2	+2	+0	+0	+0	+0	+0	-8	-12	-14	-12	-10	-16	-20	-24	-28	-30														
3	6	+188	+100	+118	-48	+60	+78	+32	+38	+50	+18	+22	+28	+16	+8	+12	+0	+18	+30	+48	± 4	± 6	-6	-9	-12	-13	-16	-9	-11	-15	-19	-24												
-	6	+140	+70	+70	-30	+30	+20	+20	+20	+20	+10	+10	+10	+4	+4	+0	+0	+0	+0	+0	+2	+3	0	0	-9	-12	-13	-16	-20	-23	-27	-31	-36											
6	10	+208	+116	+138	-62	+76	+98	+40	+47	+61	+22	+28	+35	+14	+20	+9	+15	+22	+36	+58	± 45	± 7	+2	+5	-3	0	-7	-4	-12	-9	-13	-17	-22	-28										
-	10	14	+220	+138	+165	+77	+93	+120	+50	+59	+59	+75	+27	+34	+43	+17	+24	+11	+18	+27	+43	+70	± 5.5	± 9	-9	-12	-15	-16	-19	-21	-24	-28	-32	-37	-43									
14	18	+150	+95	+95	+50	+50	+32	+32	+32	+16	+16	+16	+6	+6	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+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	± 6.5	± 10	-11	-15	-17	-21	-24	-28	-31	-35	-41	-48	-54	-61	-67	-70	-86							
24	30	+160	+110	+110	+65	+65	+40	+40	+40	+20	+20	+20	+7	+7	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0										
30	40	+270	+182	+220	+120	+119	+142	+180	+75	+88	+112	+41	+50	+64	+25	+34	+16	+25	+39	+62	+100	± 8	± 12	+3	+7	-4	0	+2	+6	+4	+0	+11	-17	-21	-24	-28	-32	-37	-42	-50	-59	-64	-76	
40	50	+180	+130	+130	+80	+80	+50	+50	+50	+50	+50	+50	+25	+25	+9	+9	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0									
50	65	+190	+140	+140	+146	+174	+220	+90	+106	+134	+49	+60	+76	+29	+40	+19	+30	+46	+74	+120	± 9.5	± 15	+4	+9	-5	0	+0	+14	-9	-26	-21	-60	-72	-85	-90	-106	-117	-121	-126	-166				
65	80	+200	+150	+150	+150	+100	+100	+100	+60	+60	+60	+30	+30	+10	+10	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0										
80	100	+360	+257	+310	+170	+174	+207	+260	+107	+128	+159	+58	+71	+90	+34	+47	+22	+35	+54	+87	+140	± 11	± 17	+4	+10	-6	0	+0	+20	-12	-36	-41	-53	-66	-78	-111	-131	-146	-159	-				
100	120	+380	+267	+320	+120	+120	+170	+210	+170	+100	+100	+50	+50	+36	+12	+12	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0										
120	140	+420	+300	+360	+230	+230	+200	+200	+200	+200	+200	+200	+125	+148	+185	+68	+83	+106	+39	+54	+25	+40	+63	+100	+160	± 12.5	± 20	+4	+12	-8	0	+0	+20	-12	-36	-41	-53	-66	-78	-111	-131	-146	-159	-
140	160	+440	+310	+370	+208	+245	+305	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+13	-8	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
160	180	+470	+330	+390	+210	+145	+145	+145	+145	+145	+145	+145	+43	+43	+14	+14	+14	+14	+14	+14	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0		
180	200	+340	+240	+340	+240	+240	+240	+240	+240	+240	+240	+240	+162	+162	+162	+110	+110	+110	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56	+56				
200	225	+565	+375	+445	+242	+285	+355	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+16	-9	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
225	250	+605	+395	+465	+242	+270	+330	+146	+174	+220	+90	+106	+134	+49	+60	+76	+29	+40	+74	+120	± 10	± 17	+4	+10	-6	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
250	280	+640	+430	+510	+240	+280	+360	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+16	-9	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
280	315	+750	+540	+640	+242	+285	+355	+146	+174	+220	+90	+106	+134	+49	+60	+76	+29	+40	+74	+120	± 10	± 17	+4	+10	-6	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
315	355	+830	+590	+690	+240	+280	+360	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+16	-9	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
355	400	+910	+640	+730	+240	+280	+360	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+16	-9	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
400	450	+1010	+659	+740	+240	+280	+360	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185	± 14.5	± 23	+5	+16	-9	0	+0	+22	-14	-36	-41	-53	-66	-78	-111	-131	-146	-159	-					
450	500	+1090	+635	+730	+230	+230	+350	+146	+172	+215	+79	+96	+122	+44	+61	+29	+46	+72	+115	+185																								