

Deviations of holes to be used in commonly used fits

Basic size step (mm)

Tolerance zone class of hole

Over or less	B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7	P6	P7	RZ	S7	T7	U7	XZ
-	+180	+85	+100	+34	+45	+60	+24	+28	+39	+12	+16	+20	+8	+12	+6	+10	+14	+25	+40	±5	0	0	0	-2	-2	-4	-4	-6	-10	-14	-18	-20		
3	+140	+60	+60	+20	+20	+20	+14	+14	+14	+6	+6	+6	+2	+2	0	0	0	0	±3	±5	-6	-10	-8	-12	-10	-14	-12	-16	-20	-24	-28	-30		
6	+188	+100	+118	+48	+60	+78	+32	+38	+50	+18	+22	+28	+12	+16	+8	+12	+18	+30	+48	±6	+2	+3	-1	0	-5	-4	-9	-8	-11	-15	-19	-24	-36	
10	+208	+116	+138	+62	+76	+98	+40	+47	+61	+22	+28	+35	+14	+20	+9	+15	+22	+36	+58	±7	+2	+5	-3	0	-7	-4	-12	-9	-13	-17	-22	-28	-43	
14	+220	+138	+165	+77	+93	+120	+50	+59	+75	+27	+34	+43	+17	+24	+11	+18	+27	+43	+70	±9	+2	+6	-4	0	-9	-5	-15	-11	-16	-21	-26	-31	-38	
18	+244	+162	+194	+98	+117	+149	+61	+73	+92	+33	+41	+53	+20	+28	+13	+21	+33	+52	+84	±10	+2	+6	-4	0	-11	-7	-18	-14	-20	-27	-33	-46	-67	
24	+270	+182	+220	+119	+142	+180	+75	+89	+112	+41	+50	+64	+25	+34	+16	+25	+39	+62	+100	±12	+3	+7	-4	0	-12	-8	-21	-17	-25	-34	-45	-61	-86	
30	+310	+214	+260	+146	+174	+220	+90	+106	+134	+49	+60	+76	+29	+40	+19	+30	+46	+74	+120	±15	+4	+9	-5	0	-14	-9	-26	-21	-30	-42	-55	-76	-106	
40	+320	+224	+270	+155	+186	+230	+100	+118	+150	+55	+67	+84	+32	+44	+22	+34	+51	+81	+130	±20	+5	+12	-8	0	-20	-12	-36	-28	-40	-55	-76	-106	-146	
50	+360	+257	+310	+174	+207	+260	+107	+126	+159	+58	+71	+90	+34	+47	+22	+35	+54	+87	+140	±23	+4	+10	-6	0	-16	-10	-45	-36	-50	-68	-91	-131	-166	
60	+400	+290	+350	+190	+220	+280	+120	+140	+170	+65	+80	+100	+40	+55	+28	+42	+63	+100	+160	±28	+4	+12	-8	0	-20	-12	-45	-36	-50	-68	-91	-131	-166	
80	+480	+330	+400	+210	+240	+300	+140	+160	+190	+75	+90	+110	+50	+65	+38	+52	+73	+110	+170	±31	+5	+13	-8	0	-22	-14	-52	-41	-55	-76	-106	-146	-196	
100	+525	+355	+425	+230	+260	+320	+150	+170	+200	+80	+95	+115	+55	+70	+42	+56	+77	+115	+185	±33	+5	+13	-8	0	-22	-14	-52	-41	-55	-76	-106	-146	-196	
120	+565	+375	+445	+240	+270	+330	+160	+180	+210	+85	+100	+120	+60	+75	+45	+60	+81	+120	+190	±36	+5	+16	-9	0	-25	-14	-57	-46	-60	-81	-111	-151	-201	
140	+605	+395	+465	+250	+280	+340	+170	+190	+220	+90	+105	+125	+65	+80	+50	+65	+86	+125	+200	±40	+7	+17	-10	0	-26	-16	-61	-51	-65	-86	-116	-156	-206	
160	+650	+420	+490	+260	+290	+350	+180	+200	+230	+95	+110	+130	+70	+85	+55	+70	+91	+130	+210	±45	+7	+17	-10	0	-26	-16	-61	-51	-65	-86	-116	-156	-206	
180	+690	+430	+510	+270	+300	+360	+190	+210	+240	+100	+115	+135	+75	+90	+60	+75	+96	+135	+230	±50	+8	+18	-10	0	-27	-17	-66	-56	-70	-91	-121	-171	-221	
200	+730	+440	+520	+280	+310	+370	+200	+220	+250	+105	+120	+140	+80	+95	+65	+80	+101	+140	+230	±55	+9	+19	-10	0	-27	-17	-66	-56	-70	-91	-121	-171	-221	
225	+760	+440	+520	+280	+310	+370	+200	+220	+250	+105	+120	+140	+80	+95	+65	+80	+101	+140	+230	±60	+9	+19	-10	0	-27	-17	-66	-56	-70	-91	-121	-171	-221	
250	+800	+450	+530	+290	+320	+380	+210	+230	+260	+110	+125	+145	+85	+100	+70	+85	+106	+145	+240	±65	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
280	+840	+460	+540	+300	+330	+390	+220	+240	+270	+115	+130	+150	+90	+105	+75	+90	+111	+150	+250	±70	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
315	+880	+470	+550	+310	+340	+400	+230	+250	+280	+120	+135	+155	+95	+110	+80	+95	+116	+155	+260	±75	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
350	+910	+480	+560	+320	+350	+410	+240	+260	+290	+125	+140	+160	+100	+115	+85	+100	+121	+160	+270	±80	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
385	+950	+490	+570	+330	+360	+420	+250	+270	+300	+130	+145	+165	+105	+120	+90	+105	+126	+165	+280	±85	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
400	+990	+500	+580	+340	+370	+430	+260	+280	+310	+135	+150	+170	+110	+125	+95	+110	+131	+170	+290	±90	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
450	+1030	+510	+590	+350	+380	+440	+270	+290	+320	+140	+155	+175	+115	+130	+100	+115	+136	+175	+300	±95	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	
500	+1080	+520	+600	+360	+390	+450	+280	+300	+330	+145	+160	+180	+120	+135	+110	+125	+146	+185	+310	±100	+10	+20	-10	0	-28	-18	-67	-57	-71	-92	-122	-172	-222	

Note: This table shows that the upper figures are the upper deviation and the lower figures are the lower deviation.

Deviations of shafts to be used in commonly used fits

Basic size step (mm)

Tolerance Zone class of shaft

Over or less	b9	c9	d8	d9	e7	e8	e9	f6	f7	f8	f9	g6	g7	g8	h5	h6	h7	h8	h9	js5	js6	js7	k5	k6	m5	m6	n5*	n6	p6	r6	s6	t6	u6	x6
-	-140	-60	-20	-20	-14	-14	-14	-6	-6	-6	-6	-2	-2	-2	0	0	0	0	0	0	±3	±5	+4	+6	+6	+8	+8	+10	+12	+16	+20	+24	+26	
3	-165	-85	-34	-45	-24	-28	-39	-12	-16	-20	-24	-6	-8	-8	-4	-6	-10	-14	-25	±2	±3	±5	+4	+6	+6	+8	+8	+10	+12	+16	+20	+24	+26	
6	-140	-70	-30	-30	-20	-20	-20	-10	-10	-10	-10	-4	-4	-4	0	0	0	0	0	±4	±6	+6	+9	+9	+9	+12	+13	+16	+20	+23	+27	+31	+36	
10	-170	-100	-48	-60	-32	-38	-50	-18	-22	-28	-32	-8	-12	-12	-5	-8	-12	-18	-30	±2.5	±4	±6	+1	+1	+4	+4	+8	+8	+12	+15	+19	+23	+28	
14	-186	-116	-62	-76	-40	-47	-61	-22	-28	-35	-41	-14	-14	-14	-6	-9	-15	-22	-36	±3	±4.5	±7	+1	+1	+6	+6	+10	+10	+15	+19	+23	+28	+34	
18	-150	-95	-50	-50	-32	-32	-32	-16	-16	-16	-16	-6	-6	-6	0	0	0	0	0	±4	±5.5	±9	+1	+1	+7	+7	+12	+12	+18	+23	+28	+33	+45	
24	-193	-138	-77	-93	-50	-59	-75	-27	-34	-43	-43	-14	-17	-17	-8	-11	-18	-27	-43	±4.5	±6.5	±10	+2	+2	+8	+8	+15	+15	+22	+28	+35	+41	+48	
30	-170	-120	-80	-80	-50	-50	-50	-25	-25	-25	-25	-9	-9	-9	0	0	0	0	0	±5.5	±8	±12	+3	+3	+9	+9	+17	+17	+26	+34	+43	+54	+70	
40	-180	-130	-119	-142	-75	-89	-112	-41	-50	-64	-64	-20	-25	-25	-11	-16	-25	-39	-62	±6	±9.5	±15	+2	+2	+11	+11	+20	+20	+32	+43	+54	+70	+86	
50	-190	-140	-140	-140	-80	-90	-106	-30	-40	-50	-50	-10	-10	-10	0	0	0	0	0	±6.5	±9.5	±15	+2	+2	+11	+11	+20	+20	+32	+43	+54	+70	+86	
65	-200	-150	-146	-174	-90	-106	-134	-49	-60	-76	-76	-23	-29	-29	-13	-19	-30	-46	-74	±7	±11	±17	+3	+3	+13	+13	+23	+23	+37	+48	+61	+77	+94	
80	-220	-170	-170	-170	-100	-110	-126	-58	-70	-86	-86	-27	-34	-34	-15	-22	-35	-54	-87	±7.5	±11	±17	+3	+3	+13	+13	+23	+23	+37	+48	+61	+77	+94	
100	-240	-180	-174	-207	-107	-126	-159	-68	-81	-99	-99	-30	-38	-38	-18	-25	-40	-63	-100	±9	±12.5	±20	+3	+3	+15	+15	+27	+27	+43	+54				