Column for Technical Data

LIMIT TOLERANCES FOR SCREW THREADS

1.METER SIZED COARSE SCREW THREAD

Nominal of screw	Minimum dimension	Maximum dimension
M 1 x 0.25	0.73	0.78
M 1.1 x 0.25	0.83	0.89
M 1.2 x 0.25	0.93	0.98
M 1.4 x 0.3	1.08	1.14
M 1.6 x 0.35	1.22	1.32
M 1.7 x 0.35	1.33	1.42
M 1.8 x 0.35	1.42	1.52
M 2 x 0.4	1.57	1.67
M 2.2 x 0.45	1.71	1.84
M 2.3 x 0.4	1.87	1.97
M 2.5 x 0.45	2.01	2.14
M 2.6 x 0.45	2.12	2.23
M 3 x 0.5	2.46	2.60
M 3.5 x 0.6	2.85	3.01
M 4 x 0.7	3.24	3.42
M 4.5 x 0.75	3.69	3.88
M 5 x 0.8	4.13	4.33
M 6 x 1	4.92	5.15
M 7 x 1	5.92	6.15
M 8 x 1.25	6.65	6.91
M 9 x 1.25	7.65	7.91
M 10 x 1.5	8.38	8.68
M 11 x 1.5	9.38	9.68
M 12 x 1.75	10.11	10.44
M 14 x 2	11.84	12.21
M 16 x 2	13.84	14.21
M 18 x 2.5	15.29	15.74
M 20 x 2.5	17.29	17.74
M 22 x 2.5	12.29	19.74
M 24 x 3	20.75	21.25
M 27 x 3	23.75	24.25
M 30 x 3.5	26.21	26.77
M 33 x 3.5	29.21	29.77
M 36 x 4	31.67	32.27
M 39 x 4	34.67	35.27
M 42 x 4.5	37.13	37.80
M 45 x 4.5	40.13	40.80
M 84 x 5	42.59	43.30

2.METER SIZED FINE THREAD

Nominal of screw	Minimum dimension	Maximum dimension
M 2.5 x 0.35	2.12	2.22
	2	
M 3 x 0.35	2.62	2.72
M 3.5 x 0.35	3.12	3.22
M 4 x 0.5	3.46	3.60
M 4.5 x 0.5	3.96	4.10
M 5 x 0.5	4.46	4.60
M 5.5 x 0.5	4.96	5.10
M 6 x 0.75	5.19	5.38
M 7 x 0.75	6.19	6.38
M 8 x 1	6.92	7.15
M 8 x 0.75	7.19	7.38
M 9 x 1	7.92	8.15
" x 0.75	8.19	8.38
M 10 x 1.25	8.65	8.91
" x 1	8.92	9.15
" x 0.75	9.19	9.38
M " x 1	9.92	10.15
" x 0.75	10.19	10.38
M 12 x 1.5	10.38	10.68
" x 1.25	10.65	10.91
" x 1	10.92	11.15
M 14 x 1.5	12.38	12.68
" x 1	12.92	13.15
M 15 x 1.5	13.38	13.68
" x 1	13.92	14.15
M 16 x 1.5	14.38	14.68
" x 1	14.92	15.15
M 17 x 1.5	15.38	15.68
" x 1	15.92	16.15
M 18 x 2	15.84	16.21
" x 1.5	16.38	16.68
M " x 1	16.92	17.15
M 20 x 2	17.84	18.21
" x 1.5	18.38	18.68
" x 1	18.92	19.15
M 22 x 2	19.84	20.21
" x 1.5	20.38	20.68
" x 1	20.92	21.15
M 24 x 2	21.84	22.21
" x 1.5	22.38	22.68
" x 1	22.92	23.15
M 25 x 2	22.84	23.21
" x 1.5	23.38	23.68

Nominal of screw	Minimum dimension	Maximum dimension
" x 1.5	23.92	24.15
M 26 x 1.5	24.38	24.68
M 27 x 2	24.84	25.21
" x 1.5	25.38	25.68
" x 1	25.92	26.15
M 28 x 2	25.84	26.21
" x 1.5	26.38	26.68
" x 1	26.92	27.15
M 30 x 3	26.75	27.25
" x 2	27.84	28.21
" x 1.5	28.38	28.68
" x 1	28.92	29.15
M 32 x 2	29.84	30.21
" x 1.5	30.38	30.68
M 33 x 3	29.75	30.25
" x 2	30.84	31.21
" x 1.5	31.38	31.68
M 35 x 1.5	33.38	33.68
M 36 x 3	32.75	33.25
" x 2	33.84	34.21
" x 1.5	34.38	34.68
M 38 x 1.5	36.38	36.68
M 39 x 3	35.75	36.25
" x 2	36.84	37.21
" x 1.5	37.38	37.68
M 40 x 3	36.75	37.25
" x 2	37.84	38.21
" x 1.5	38.38	38.68
M 42 x 4	37.67	38.27
" x 3	38.75	39.25
" x 2	39.84	40.21
" x 1.5	40.38	40.68
M 45 x 4	40.67	41.27
" x 3	41.75	42.25
" x 2	42.84	43.21
" x 1.5	43.38	43.68
M 48 x 4	43.67	44.27
" x 3	44.75	45.25
" x 2	45.84	46.21
" x 1.5	46.38	46.68
M 50 x 3	46.75	47.25
" x 2	47.84	48.21
" x 1.5	48.38	48.68

3.PIPE THREAD

Nominal of screw	RP(PS)		RC(PT)	
	Minimum dimension	Maximum dimension	Minimum dimension	Maximum dimension
1/16	6.49	6.63	6.10	6.24
1/8	8.50	8.64	8.11	8.25
1/4	11.34	11.55	10.76	10.96
3/8	14.85	15.05	14.24	14.24
1/2	18.49	18.77	17.70	17.98
5/8				
3/4	23.98	24.26	23.10	23.38
7/8				
1	30.11	30.47	29.10	29.46
1 1/8				
1 3/4	38.77	39.13	37.62	37.98
1 1/2	44.67	45.03	43.51	43.87
1 3/4				
2	56.48	56.84	55.05	55.41

THE DIMENSION OF THE SPOT FACING
THE BOLT HOLE TO THE SOCKET HEAD CAP SCREW
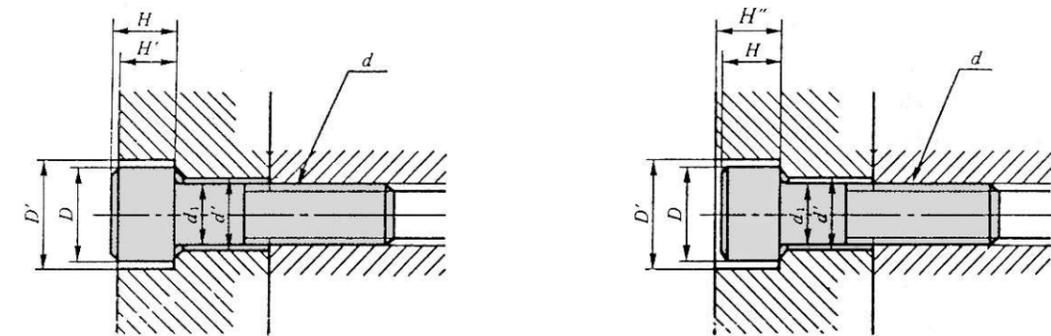
| Mark	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
d1	3.0	4.0	5.0	6.0	8.0	10.0	12	14.0	16.0	18.0	20.0	22.0	24.0	27	30
d'	3.4	4.5	5.5	6.6	9.0	11.0	14	16.0	18.0	20.0	22.0	24.0	26.0	30	33
D	5.5	7.0	8.5	10.0	13.0	16.0	18	21.0	24.0	27.0	30.0	33.0	36.0	40	45
D'	6.5	8.0	9.5	11.0	14.0	17.5	20	23.0	26.0	29.0	32.0	35.0	39.0	43	48
H	3.0	4.0	5.0	6.0	8.0	10.0	12	14.0	16.0	18.0	20.0	22.0	24.0	27	30
H'	2.7	3.6	4.6	5.5	7.4	9.2	11	12.8	14.5	16.5	18.5	20.5	22.5	25	28
H"	3.3	4.4	5.4	6.5	8.6	10.8	13	15.2	17.5	19.5	21.5	23.5	25.5	29	32

BP
BPA
BC
CP
SU
PT
SVF
ALV
OK-VISE
JER-GENS
OTHER
Column for Technical Data

T SLOTS

MAX 0.3×45°
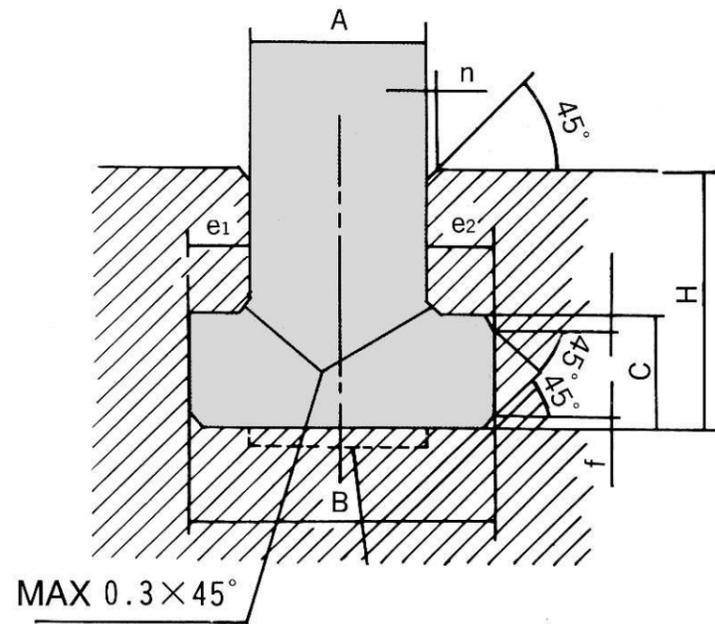
VARIETY OF GEOMETRICAL TOLERANCE AND THE MARK

Available form	Variety of tolerance		
Individual form	Shape tolerance	Straightness rate tolerance	—
		Plane rate tolerance	▱
		Out of roundness	○
		Cylindrical rate tolerance	⌭
Individual form or related form		Line contour rate tolerance	⌒
		Face contour rate tolerance	⌓
Related form	Position tolerance	Parallel rate tolerance	//
		Perpendicularity	⊥
		Inclination rate tolerance	∠
	Location tolerance	Position rate tolerance	⊕
		Concentricity	◎
		Symmetrical rate tolerance	⹀
	Shake rate tolerance	Circumference shake tolerance	↗
		All shake tolerance	↗↗

A						B		C		H		.e1-e2	reference	
Standard	Class Tolerance					Standard	(1) Class Tolerance	Standard	(1) Class Tolerance	maximum	minimum	(2) Class Tolerance	n maximum	f minimum
	0 class H7	1 class H8	2 class H12	3 class H14	4 class									
5	+0.012 0	+0.018 0	+0.12 0	-	-	10.0	+1 0	3.5	+1 0	10	8	0.5	1	0.6
6						11.0	+1.5 0	5		13	11			
8	+0.015 0	+0.022 0	+0.15 0	-	-	14.5		7	+1 0	18	15			
10						16.0		7		21	17			
12	+0.018 0	+0.027 0	+0.18 0	+0.43 0	+2.7	19.0	+2 0	8		25	20	1	1.6	1
14						23.0		9		28	23			
18						30.0		12	+2 0	36	30			
22	+0.021 0	+0.033 0	+0.21 0	+0.52 0	+3.3 0	37.0	+3 0	16		45	38			
28						46.0	+4 0	20		56	48			
36	+0.025 0	+0.039 0	+0.25 0	+0.62 0	+3.9	56.0		25	+3 0	71	61	2	2.5	1.6
42						68.0		32		85	74			
48						80.0	+5 0	36	+4 0	95	84			2
54	+0.030 0	+0.046 0	+0.30 0	+0.74 0		90.0		40		106	94			

DIMENSIONAL TOLERANCE COORDINATING TABLE

■ TOLERANCE COORDINATING TABLE FOR BORE DIMENSION   Unit : μ

Basic dim(mm) Adove	Under	B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7	H8
-	3	+180/+140	+85/+60	+100/+60	+34/+20	+45/+20	+60/+20	+24/+14	+28/+14	+39/+14	+12/+6	+16/+6	+20/+6	+8/+2	+12/+2	+6/0	+10/0	+14/0
3	6	+188/+140	+100/+70	+118/+70	+48/+30	+60/+30	+78/+30	+32/+20	+38/+20	+50/+20	+18/+10	+22/+10	+28/+10	+12/+4	+16/+4	+8/0	+12/0	+18/0
6	10	+208/+150	+116/+80	+138/+80	+62/+40	+76/+40	+98/+40	+40/+25	+47/+25	+61/+25	+22/+13	+28/+13	+35/+13	+14/+5	+20/+5	+9/0	+15/0	+22/0
10	14	+220/+150	+138/+95	+165/+95	+77/+50	+93/+50	+120/+50	+50/+32	+59/+32	+75/+32	+27/+16	+34/+16	+43/+16	+17/+6	+24/+6	+11/0	+18/0	+27/0
14	18	+220/+150	+138/+95	+165/+95	+77/+50	+93/+50	+120/+50	+50/+32	+59/+32	+75/+32	+27/+16	+34/+16	+43/+16	+17/+6	+24/+6	+11/0	+18/0	+27/0
18	24	+244/+160	+162/+110	+194/+110	+98/+65	+117/+60	+149/+65	+61/+40	+73/+40	+92/+40	+33/+20	+41/+20	+53/+20	+20/+7	+28/+7	+13/0	+21/0	+33/0
24	30	+244/+160	+162/+110	+194/+110	+98/+65	+117/+60	+149/+65	+61/+40	+73/+40	+92/+40	+33/+20	+41/+20	+53/+20	+20/+7	+28/+7	+13/0	+21/0	+33/0
30	40	+270/+170	+182/+120	+220/+120	+119/+80	+142/+80	+180/+80	+75/+50	+89/+50	+112/+50	+41/+25	+50/+25	+64/+25	+25/+9	+34/+9	+16/0	+25/0	+39/0
40	50	+280/+180	+192/+130	+230/+130	+119/+80	+142/+80	+180/+80	+75/+50	+89/+50	+112/+50	+41/+25	+50/+25	+64/+25	+25/+9	+34/+9	+16/0	+25/0	+39/0
50	65	+310/+190	+214/+140	+260/+140	+146/+100	+174/+100	220/+100	+90/+60	+106/+60	+134/+60	+49/+30	+60/+30	+76/+30	+29/+10	+40/+10	+19/0	+30/0	+46/0
65	80	+320/+200	+224/+150	+270/+150	+146/+100	+174/+100	220/+100	+90/+60	+106/+60	+134/+60	+49/+30	+60/+30	+76/+30	+29/+10	+40/+10	+19/0	+30/0	+46/0
80	100	+360/+220	+257/+170	+310/+170	+174/+120	+207/+120	+260/+120	+107/+72	+126/+72	+126/+72	+58/+36	+71/+36	+90/+36	+34/+12	47/+12	+22/0	+35/0	+54/0
100	120	+380/+240	+267/+180	320/+180	+174/+120	+207/+120	+260/+120	+107/+72	+126/+72	+126/+72	+58/+36	+71/+36	+90/+36	+34/+12	47/+12	+22/0	+35/0	+54/0
120	140	+420/+260	+300/+200	+360/+200	+208/+145	+245/+145	+305/+145	+125/+85	+148/+85	+148/+85	+68/+43	+83/+43	+106/+43	+39/+14	+54/+14	+25/0	+40/0	+63/0
140	160	+440/+280	+310/+210	+370/+210	+208/+145	+245/+145	+305/+145	+125/+85	+148/+85	+148/+85	+68/+43	+83/+43	+106/+43	+39/+14	+54/+14	+25/0	+40/0	+63/0
160	180	+470/+310	+330/+230	+390/+230	+208/+145	+245/+145	+305/+145	+125/+85	+148/+85	+148/+85	+68/+43	+83/+43	+106/+43	+39/+14	+54/+14	+25/0	+40/0	+63/0
180	200	+525/+340	+355/+240	+425/+240	+242/+170	+285/+170	+355/+170	+146/+100	+172/+100	+172/+100	+79/+50	+96/+50	+122/+50	+44/+15	+61/+15	+29/0	+46/0	+72/0
200	225	+565/+380	+375/+260	+445/+260	+242/+170	+285/+170	+355/+170	+146/+100	+172/+100	+172/+100	+79/+50	+96/+50	+122/+50	+44/+15	+61/+15	+29/0	+46/0	+72/0
225	250	+605/+420	+395/+280	+465/+280	+242/+170	+285/+170	+355/+170	+146/+100	+172/+100	+172/+100	+79/+50	+96/+50	+122/+50	+44/+15	+61/+15	+29/0	+46/0	+72/0
250	280	+690/+480	+430/+300	+510/+300	+271/+190	+320/+190	+400/+190	+162/+110	+191/+110	+240/+110	+88/+56	+108/+56	+137/+56	+49/+17	+69/+17	+32/0	+52/0	+81/0
280	315	+750/+540	+460/+330	+540/+330	+271/+190	+320/+190	+400/+190	+162/+110	+191/+110	+240/+110	+88/+56	+108/+56	+137/+56	+49/+17	+69/+17	+32/0	+52/0	+81/0
315	355	+830/+600	+500/+360	+590/+360	+299/+210	+350/+210	+440/+210	+182/+125	+214/+125	+265/+125	+98/+62	+119/+62	+151/+62	+54/+18	+75/+18	+36/0	+57/0	+89/0
355	400	+910/+680	+540/+400	+630/+400	+299/+210	+350/+210	+440/+210	+182/+125	+214/+125	+265/+125	+98/+62	+119/+62	+151/+62	+54/+18	+75/+18	+36/0	+57/0	+89/0
400	450	+1010/+760	+595/+440	+690/+440	+327/+230	+385/+230	+480/+230	+198/+135	+232/+135	+232/+135	+108/+68	+131/+68	+165/+68	+60/+20	+83/+20	+40/0	+63/0	+97/0
450	500	+1090/+840	+635/+480	+730/+480	+327/+230	+385/+230	+480/+230	+198/+135	+232/+135	+232/+135	+108/+68	+131/+68	+165/+68	+60/+20	+83/+20	+40/0	+63/0	+97/0

DIMENSIONAL TOLERANCE COORDINATING TABLE

■ TOLERANCE COORDINATING TABLE FOR BORE DIMENSION   Unit : μ

Basic dim(mm) Adove	Under	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7	P6	P7	R7	S7	T7	U7	X7
-	3	+25/0	+40/0	±3	±5	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	+30/0	+48/0	±4	±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	+36/0	+58/0	±4.5	±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	+43/0	+70/0	±5.5	±9	+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	+43/0	+70/0	±5.5	±9	+2/-9	+6/-12	-4/-15	0/-18	-9/-20	-5/-23	-15/-26	-11/-29	-16/-34	-21/-39	-	-26/-44	-38/-56
18	24	+52/0	+84/0	±6.5	±10	+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	+52/0	+84/0	±6.5	±10	+2/-11	+6/-15	-4/-17	0/-21	-11/-24	-7/-28	-18/-31	-14/-35	-20/-41	-27/-48	-33/-54	-40/-61	-56/-77
30	40	+62/0	+100/0	±8	±12	+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	+62/0	+100/0	±8	±12	+3/-13	+7/-18	-4/-20	0/-25	-12/-28	-8/-33	-21/-37	-17/-42	-25/-50	-34/-59	-45/-70	-61/-86	-
50	65	+74/0	+120/0	±9.5	±15	+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	+74/0	+120/0	±9.5	±15	+4/-15	+9/-21	-5/-24	0/-30	-14/-33	-9/-39	-26/-45	-21/-51	-32/-62	-48/-78	-64/-94	-91/-121	-
80	100	+87/0	+140/0	±11	±17	+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	+87/0	+140/0	±11	±17	+4/-18	+10/-25	-6/-28	0/-35	-16/-38	-10/-45	-30/-52	-24/-59	-41/-76	-66/-101	-91/-126	-131/-166	-
120	140	+100/0	+160/0	±12.5	±20	+4/-21	+12/-28	-8/-33	0/-40	-20/-45	-12/-52	-36/-61	-28/-68	-48/-88	-77/-117	-107/-147	-	-
140	160	+100/0	+160/0	±12.5	±20	+4/-21	+12/-28	-8/-33	0/-40	-20/-45	-12/-52	-36/-61	-28/-68	-50/-90	-85/-125	-119/-159	-	-
160	180	+100/0	+160/0	±12.5	±20	+4/-21	+12/-28	-8/-33	0/-40	-20/-45	-12/-52	-36/-61	-28/-68	-53/-93	-93/-133	-131/-171	-	-
180	200	+115/0	+185/0	±14.5	±23	+5/-24	+13/-33	-8/-37	0/-46	-22/-51	-14/-60	-41/-70	-33/-79	-60/-106	-105/-151	-	-	-
200	225	+115/0	+185/0	±14.5	±23	+5/-24	+13/-33	-8/-37	0/-46	-22/-51	-14/-60	-41/-70	-33/-79	-63/-109	-113/-159	-	-	-
225	250	+115/0	+185/0	±14.5	±23	+5/-24	+13/-33	-8/-37	0/-46	-22/-51	-14/-60	-41/-70	-33/-79	-67/-113	-123/-169	-	-	-
250	280	+130/0	+210/0	±16	±26	+5/-27	+16/-36	-9/-41	0/-52	-25/-57	-14/-66	-47/-79	-36/-88	-74/-126	-	-	-	-
280	315	+130/0	+210/0	±16	±26	+5/-27	+16/-36	-9/-41	0/-52	-25/-57	-14/-66	-47/-79	-36/-88	-78/-130	-	-	-	-
315	355	+140/0	+230/0	±18	±28	+5/-27	+17/-40	-10/-46	0/-57	-26/-62	-16/-73	-51/-87	-41/-98	-87/-144	-	-	-	-
355	400	+140/0	+230/0	±18	±28	+5/-27	+17/-40	-10/-46	0/-57	-26/-62	-16/-73	-51/-87	-41/-98	-93/-150	-	-	-	-
400	450	+155/0	+250/0	±20	±31	+7/-29	+18/-45	-10/-50	0/-63	-27/-67	-17/-80	-55/-95	-45/-108	-103/-166	-	-	-	-
450	500	+155/0	+250/0	±20	±31	+7/-29	+18/-45	-10/-50	0/-63	-27/-67	-17/-80	-55/-95	-45/-108	-109/-172	-	-	-	-

DIMENSIONAL TOLERANCE COORDINATING TABLE

■ TOLERANCE COORDINATING TABLE FOR BORE DIMENSION Unit : μ

Basic dim(mm) Adove	Under	b9	c9	d8	d9	e7	e8	e9	f6	f7	f8	g5	g6	h5	h6	h7
-	3	-140/-165	-60/-85	-20/-34	-20/-45	-14/-24	-14/-28	-14/-39	-6/-12	-6/-16	-6/-20	-2/-6	-2/-8	0/-4	0/-6	0/-10
3	6	-140/-170	-70/-100	-30/-48	-30/-60	-20/-32	-20/-38	-20/-50	-10/-18	-10/-22	-10/-28	-4/-9	-4/-12	0/-5	0/-8	0/-12
6	10	-150/-186	-80/-116	-40/-62	-40/-76	-25/-40	-25/-47	-25/-61	-13/-22	-13/-28	-13/-35	-5/-11	-5/-14	0/-6	0/-9	0/-15
10	14	-150/-193	-95/-138	-50/-77	-50/-93	-32/-50	-32/-59	-32/-75	-16/-27	-16/-34	-16/-43	-6/-14	-6/-17	0/-8	0/-11	0/-18
14	18	-150/-193	-95/-138	-50/-77	-50/-93	-32/-50	-32/-59	-32/-75	-16/-27	-16/-34	-16/-43	-6/-14	-6/-17	0/-8	0/-11	0/-18
18	24	-160/-212	-110/-162	-65/-98	-65/-117	-40/-61	-40/-73	-40/-92	-20/-33	-20/-41	-20/-53	-7/-16	-7/-20	0/-9	0/-13	0/-21
24	30	-160/-212	-110/-162	-65/-98	-65/-117	-40/-61	-40/-73	-40/-92	-20/-33	-20/-41	-20/-53	-7/-16	-7/-20	0/-9	0/-13	0/-21
30	40	-170/-232	-120/-182	-80/-119	-80/-142	-50/-75	-50/-89	-50/-112	-25/-41	-25/-50	-25/-64	-9/-20	-9/-25	0/-11	0/-16	0/-25
40	50	-180/-242	-130/-192	-80/-119	-80/-142	-50/-75	-50/-89	-50/-112	-25/-41	-25/-50	-25/-64	-9/-20	-9/-25	0/-11	0/-16	0/-25
50	65	-190/-264	-140/-214	-100/-146	-100/-174	-60/-90	-60/-106	-60/-134	-30/-49	-30/-60	-30/-76	-10/-23	-10/-29	-0/-13	0/-19	0/-30
65	80	-200/-274	-150/-224	-100/-146	-100/-174	-60/-90	-60/-106	-60/-134	-30/-49	-30/-60	-30/-76	-10/-23	-10/-29	-0/-13	0/-19	0/-30
80	100	-220/-307	-170/-257	-120/-174	-120/-207	-72/-107	-72/-126	-72/-159	-36/-58	-36/-71	-36/-90	-12/-27	-12/-34	-0/-15	0/-22	0/-35
100	120	-240/-327	-180/-267	-120/-174	-120/-207	-72/-107	-72/-126	-72/-159	-36/-58	-36/-71	-36/-90	-12/-27	-12/-34	-0/-15	0/-22	0/-35
120	140	-260/-360	-200/-300	-145/-208	-145/-245	-85/-125	-85/-148	-85/-185	-43/-68	-43/-83	-43/-106	-14/-32	-14/-39	0/-18	0/-25	0/-40
140	160	-280/-380	-210/-310	-145/-208	-145/-245	-85/-125	-85/-148	-85/-185	-43/-68	-43/-83	-43/-106	-14/-32	-14/-39	0/-18	0/-25	0/-40
160	180	-310/-410	-230/-330	-145/-208	-145/-245	-85/-125	-85/-148	-85/-185	-43/-68	-43/-83	-43/-106	-14/-32	-14/-39	0/-18	0/-25	0/-40
180	200	-340/-455	-240/-355	-170/-242	-170/-285	-100/-146	-100/-172	-100/-215	-50/-79	-50/-96	-50/-122	-15/-35	-15/-44	0/-20	0/-29	0/-46
200	225	-380/-495	-260/-375	-170/-242	-170/-285	-100/-146	-100/-172	-100/-215	-50/-79	-50/-96	-50/-122	-15/-35	-15/-44	0/-20	0/-29	0/-46
225	250	-420/-535	-280/-395	-170/-242	-170/-285	-100/-146	-100/-172	-100/-215	-50/-79	-50/-96	-50/-122	-15/-35	-15/-44	0/-20	0/-29	0/-46
250	280	-480/-610	-300/-430	-190/-271	-190/-320	-110/-162	-110/-191	-110/240	-56/-88	-56/-108	-56/-137	-17/-40	-17/-49	0/-23	0/-32	0/-52
280	315	-540/-670	-330/-500	-190/-271	-190/-320	-110/-162	-110/-191	-110/240	-56/-88	-56/-108	-56/-137	-17/-40	-17/-49	0/-23	0/-32	0/-52
315	355	-600/-740	-400/-540	-210/-299	-210/-350	-125/-182	-125/-214	-125/-265	-62/-98	-62/-119	-62/-151	-18/-43	-18/-54	0/-25	0/-36	0/-57
355	400	-680/-820	-440/-595	-210/-299	-210/-350	-125/-182	-125/-214	-125/-265	-62/-98	-62/-119	-62/-151	-18/-43	-18/-54	0/-25	0/-36	0/-57
400	450	-760/-915	-480/-635	-230/-327	-230/-385	-135/-198	-135/-290	-135/-290	-68/-108	-68/-131	-68/-165	-20/-47	-20/-60	0/-27	0/-40	0/-63
450	500	-840/-995	-	-230/-327	-230/-385	-135/-198	-135/-290	-135/-290	-68/-108	-68/-131	-68/-165	-20/-47	-20/-60	0/-27	0/-40	0/-63

Basic dim(mm) Adove	Under	h8	h9	js5	je6	je7	k5	k6	m5	m6	n6	p6	r6	s6	t6	u6	x6
-	3	0/-14	0/-25	±2	±3	±5	+4/0	+6/0	+6/+2	+8/+2	+10/+4	+12/+6	+16/+10	+20/+14	-	+24/+18	+26/+20
3	6	0/-18	0/-30	±2.5	±4	±6	+6/+1	+9/+1	+9/+4	+12/+4	+16/+8	+20/+12	+23/+15	+27/+19	-	+31/+23	+36/+28
6	10	0/-22	0/-36	±3	±4.5	±7	+7/+1	+10/+1	+12/+6	+15/+6	+19/+10	+24/+15	+28/+19	+32/+23	-	+37/+28	+43/+34
10	14	0/-27	0/-43	±4	±5.5	±9	+9/+1	+12/+1	+15/+7	+18/+7	+23/+12	+29/+18	+34/+23	+39/+28	-	+44/+33	+51/+40
14	18	0/-27	0/-43	±4	±5.5	±9	+9/+1	+12/+1	+15/+7	+18/+7	+23/+12	+29/+18	+34/+23	+39/+28	-	+44/+33	+56/+45
18	24	0/-33	0/-52	±4.5	±6.5	±10	+11/+2	+15/+2	+18/+8	+21/+8	+28/+15	+35/+22	+41/+28	+48/+35	-	+54/+41	+67/+54
24	30	0/-33	0/-52	±4.5	±6.5	±10	+11/+2	+15/+2	+18/+8	+21/+8	+28/+15	+35/+22	+41/+28	+48/+35	+54/+41	+61/+48	+77/+64
30	40	0/-39	0/-62	±5.5	±8	±12	+13/+2	+18/+2	+20/+9	+25/+9	+33/+17	+42/+26	+50/+34	+59/+43	+64/+48	+76/+60	-
40	50	0/-39	0/-62	±5.5	±8	±12	+13/+2	+18/+2	+20/+9	+25/+9	+33/+17	+42/+26	+50/+34	+59/+43	+70/+54	+86/+70	-
50	65	0/-46	0/-74	±6.5	±9.5	±15	+15/+2	+21/+2	+24/+11	+30/+11	+39/+20	+51/+32	+60/+41	+72/+53	+85/+66	+106/+87	-
65	80	0/-46	0/-74	±6.5	±9.5	±15	+15/+2	+21/+2	+24/+11	+30/+11	+39/+20	+51/+32	+62/+43	+78/+59	+94/+75	+121/+102	-
80	100	0/-54	0/-87	±8	±11	±17	+18/+3	+25/+3	+28/+13	+35/+13	+45/+23	+59/+37	+73/+51	+93/+71	+113/+91	+146/+124	-
100	120	0/-54	0/-87	±8	±11	±17	+18/+3	+25/+3	+28/+13	+35/+13	+45/+23	+59/+37	+76/+54	+101/+79	+126/+104	+166/+144	-
120	140	0/-63	0/-100	±9.5	±12.5	±20	+21/+3	+28/+3	+33/+17	+40/+15	+52/+27	+68/+43	+88/+63	+117/+92	+147/+122	-	-
140	160	0/-63	0/-100	±9.5	±12.5	±20	+21/+3	+28/+3	+33/+17	+40/+15	+52/+27	+68/+43	+90/+65	+125/+100	+159/+134	-	-
160	180	0/-63	0/-100	±9.5	±12.5	±20	+21/+3	+28/+3	+33/+17	+40/+15	+52/+27	+68/+43	+93/+68	+133/+108	+171/+146	-	-
180	200	0/-72	0/-115	±11	±14.5	±23	+24/+4	+33/+4	+37/+17	+46/+17	+60/+31	+79/+50	+106/+77	+151/+122	-	-	-
200	225	0/-72	0/-115	±11	±14.5	±23	+24/+4	+33/+4	+37/+17	+46/+17	+60/+31	+79/+50	+109/+80	+159/+130	-	-	-
225	250	0/-72	0/-115	±11	±14.5	±23	+24/+4	+33/+4	+37/+17	+46/+17	+60/+31	+79/+50	+113/+84	+169/+140	-	-	-
250	280	0/-81	0/-130	±12.5	±16	±26	+27/+4	+36/+4	+43/+20	+52/+20	+66/+34	+88/+56	+126/+94	-	-	-	-
280	315	0/-81	0/-130	±12.5	±16	±26	+27/+4	+36/+4	+43/+20	+52/+20	+66/+34	+88/+56	+130/+98	-	-	-	-
315	355	0/-89	0/-140	±12.5	±18	±28	+24/+4	+40/+4	+46/+21	+57/+21	+73/+37	+98/+62	+144/+108	-	-	-	-
355	400	0/-89	0/-140	±12.5	±18	±28	+24/+4	+40/+4	+46/+21	+57/+21	+73/+37	+98/+62	+150/+114	-	-	-	-
400	450	0/-97	0/-155	±16	±20	±31	+27/+4	+45/+5	+50/+23	+63/+23	+80/+40	+108/+68	+166/+126	-	-	-	-
450	500	0/-97	0/-155	±16	±20	±31	+27/+4	+45/+5	+50/+23	+63/+23	+80/+40	+108/+68	+172/+132	-	-	-	-