

Recommended Linear Tolerances

Dimension Range in mm		Dimension Tolerance					
		Tolerance Grade in mm					
		D1		D2		D3	
From	To	Both Ways	Single side	Both Ways	Single side	Both Ways	Single Side
	6	±0.10	0.20	±0.08	0.16	±0.06	0.12
6	10	±0.12	0.24	±0.10	0.20	±0.06	0.12
10	14	±0.15	0.30	±0.12	0.24	±0.09	0.18
14	18	±0.20	0.40	±0.14	0.28	±0.09	0.18
18	24	±0.25	0.50	±0.17	0.34	±0.12	0.24
24	30	±0.30	0.60	±0.20	0.40	±0.14	0.28
30	40	±0.37	0.74	±0.25	0.50	±0.17	0.34
40	50	±0.44	0.88	±0.30	0.60	±0.20	0.40
50	65	±0.52	1.04	±0.38	0.76	±0.23	0.46
65	80	±0.60	1.20	±0.46	0.92	±0.27	0.54
80	100	±0.68	1.36	±0.53	1.06	±0.30	0.60
100	120	±0.76	1.52	±0.60	1.20	±0.33	0.66
120	140	±0.84	1.68	±0.65	1.30	±0.36	0.72
140	160	±0.92	1.84	±0.72	1.44	±0.38	0.76
160	180	±1.02	2.04	±0.80	1.60	±0.42	0.84
180	200	±1.12	2.24	±0.88	1.76	±0.43	0.86
200	225	±1.28	2.56	±0.95	1.90	±0.47	0.94
225	250	±1.44	2.88	±1.05	2.10	±0.51	1.02
250	280	±1.64	3.28	±1.15	2.30	±0.56	1.12
280	315	±1.84	3.68	±1.25	2.50	±0.63	1.26
315	355	±2.10	4.20	±1.40	2.80	±0.71	1.42
355	400	±2.40	4.80	±1.55	3.10	±0.80	1.60
400	450	±2.70	5.40	±1.70	3.40	±0.90	1.80
450	500	±3.00	6.00	±1.85	3.70	±1.00	2.00

- Note:
1. Tolerance standard for investment casting is in accordance with VDG-merkblatt P-690 D2.
 2. The tolerances above are the recommended minimum for functional details. For non-functional dimension, wider tolerances should be considered which will result in more economic designs.
 3. Experience indicates that wider tolerances must be allowed for distances between centres of pins and holes.
 4. For dimension in excess of stated range or for special tolerance requirements please contact foundry.
 5. D2 is Tycon's general accepted Dimension Tolerance.