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LINEAR TOLERANCE

Germany Investment Casting Linear Dimension Tolerances VDG P690 (mm)

Nominal dimension		Length , width , height						Centre line distances	
		D1		D2		D3		D1	D2
from >	To ≤	Tolerance	field	Tolerance	field		field	Tolerance	field
0	6	±0.10	0.2	±0.08	0.16	±0.06	0.12	±0.25	±0.16
6	10	±0.12	0.24	±0.10	0.2				
10	14	±0.15	0.3	±0.12	0.24				
14	18	±0.20	0.4	±0.14	0.28				
18	24	±0.25	0.5	±0.17	0.34	±0.12	0.23	±0.32	±0.20
24	30	±0.30	0.6	±0.20	0.4	±0.14	0.27		
30	40	±0.37	0.74	±0.25	0.5	±0.17	0.33	±0.50	±0.30
40	50	±0.44	0.88	±0.30	0.6	±0.20	0.39		
50	65	±0.52	1.04	±0.38	0.76	±0.23	0.46	±0.71	±0.45
65	80	±0.60	1.2	±0.46	0.92	±0.27	0.53		
80	100	±0.68	1.38	±0.53	1.06	±0.30	0.6	±0.90	±0.60
100	120	±0.76	1.52	±0.60	1.2	±0.33	0.66		
120	140	±0.84	1.68	±0.65	1.3	±0.36	0.71	±1.15	±0.85
140	160	±0.92	1.84	±0.72	1.44	±0.38	0.76		
160	180	±1.02	2.04	±0.80	1.6	±0.42	0.81		
180	200	±1.12	2.24	±0.88	1.76	±0.43	0.86		
200	225	±1.28	2.56	±0.95	1.9	±0.47	0.93	±1.80	±1.00
225	250	±1.44	2.88	±1.05	2.1	±0.51	1.02		
250	280	±1.64	3.28	±1.15	2.3	±0.56	1.12	±2.20	±1.25
280	315	±1.84	3.68	±1.25	2.5	±0.63	1.26		
315	355	±2.10	4.2	±1.40	2.6	±0.71	1.42	±2.60	±1.60
355	400	±2.40	4.8	±1.60	3.2	±0.80	1.6		

D1: General dimension tolerances
D2: Applicable to important dimensions requiring close tolerances
D3: Premium tolerance require additional operations at extra cost, only applied to a few special dimensions.

Nominal dimension (mm)		Linear dimension Tolerances (ISO8062) (GB/T6414)									
>	≤	CT4		CT5		CT6		CT7		CT8	
—	10	0.26	±0.13	0.36	±0.18	0.52	±0.26	0.74	±0.37	1	±0.5
10	16	0.28	±0.14	0.38	±0.19	0.54	±0.27	0.78	±0.39	1	±0.55
16	25	0.3	±0.15	0.42	±0.21	0.58	±0.29	0.82	±0.44	1	±0.6
25	40	0.32	±0.16	0.46	±0.23	0.64	±0.32	0.9	±0.45	1	±0.65
40	63	0.36	±0.18	0.5	±0.25	0.7	±0.35	1	±0.50	1	±0.70
63	100	0.4	±0.20	0.56	±0.28	0.78	±0.39	1.1	±0.55	2	±0.80
100	160	0.44	±0.22	0.62	±0.31	0.88	±0.44	1.2	±0.60	2	±0.90
160	250	0.5	±0.25	0.7	±0.35	1	±0.50	1.4	±0.70	2	±1.0
250	400	0.56	±0.28	0.78	±0.39	1.1	±0.55	1.6	±0.80	2	±1.1
400	630	0.64	±0.32	0.9	±0.45	1.2	±0.60	1.8	±0.90	3	±1.3

