

Diameter Tolerances to DIN 40 680

Deflectional Tolerances to DIN 40 680

Nominal dimensional range for diameter or length in inches	Degree of accuracy		Nominal dimensional range for length in inches	Coarse Deflection in inches	Medium Deflection in inches
	Coarse Deviation in inches	Medium Deviation in inches			
up to 0.157	+/- 0.016	+/- 0.006	up to 1.181	+/- 0.067	+/- 0.006
> 0.157 up to 0.236	+/- 0.024	+/- 0.008	> 1.181 up to 1.575	+/- 0.071	+/- 0.008
> 0.236 up to 0.315	+/- 0.028	+/- 0.010	> 1.575 up to 1.969	+/- 0.075	+/- 0.010
> 0.315 up to 0.394	+/- 0.031	+/- 0.012	> 1.969 up to 2.362	+/- 0.079	+/- 0.012
> 0.394 up to 0.512	+/- 0.039	+/- 0.014	> 2.362 up to 2.756	+/- 0.083	+/- 0.014
> 0.512 up to 0.630	+/- 0.047	+/- 0.016	> 2.756 up to 3.150	+/- 0.083	+/- 0.016
> 0.630 up to 0.787	+/- 0.047	+/- 0.018	> 3.150 up to 3.543	+/- 0.087	+/- 0.018
> 0.787 up to 0.984	+/- 0.059	+/- 0.020	> 3.543 up to 3.937	+/- 0.091	+/- 0.020
> 0.984 up to 1.181	+/- 0.059	+/- 0.022	> 3.937 up to 4.331	+/- 0.094	+/- 0.022
> 1.181 up to 1.378	+/- 0.079	+/- 0.024	> 4.331 up to 4.921	+/- 0.098	+/- 0.026
> 1.378 up to 1.575	+/- 0.079	+/- 0.026	> 4.921 up to 5.512	+/- 0.102	+/- 0.028
> 1.575 up to 1.772	+/- 0.079	+/- 0.028	> 5.512 up to 6.102	+/- 0.106	+/- 0.031
> 1.772 up to 1.969	+/- 0.098	+/- 0.031	> 6.102 up to 6.693	+/- 0.114	+/- 0.033
> 1.969 up to 2.165	+/- 0.098	+/- 0.035	> 6.693 up to 7.283	+/- 0.118	+/- 0.035
> 2.165 up to 2.362	+/- 0.098	+/- 0.039	> 7.283 up to 7.874	+/- 0.122	+/- 0.039
> 2.362 up to 2.756	+/- 0.118	+/- 0.047	> 7.874 up to 9.843	+/- 0.138	+/- 0.049
> 2.756 up to 3.150	+/- 0.138	+/- 0.055	> 9.843 up to 11.811	+/- 0.154	+/- 0.059
> 3.150 up to 3.543	+/- 0.157	+/- 0.063	> 11.811 up to 13.780	+/- 0.169	+/- 0.069
> 3.543 up to 3.937	+/- 0.177	+/- 0.071	> 13.780 up to 15.748	+/- 0.185	+/- 0.079
> 3.937 up to 4.331	+/- 0.197	+/- 0.079	> 15.748 up to 17.717	+/- 0.201	+/- 0.089
> 4.331 up to 4.921	+/- 0.217	+/- 0.087	> 17.717 up to 19.685	+/- 0.217	+/- 0.098
> 4.921 up to 5.512	+/- 0.236	+/- 0.098	> 19.685 up to 23.622	+/- 0.248	+/- 0.118
> 5.512 up to 6.102	+/- 0.256	+/- 0.110	> 23.622 up to 27.559	+/- 0.280	+/- 0.138
> 6.102 up to 6.693	+/- 0.276	+/- 0.118	> 27.559 up to 31.496	+/- 0.311	+/- 0.157
> 6.693 up to 7.283	+/- 0.295	+/- 0.134	> 31.496 up to 35.433	+/- 0.343	+/- 0.177
> 7.283 up to 7.874	+/- 0.315	+/- 0.150	> 35.433 up to 39.370	+/- 0.374	+/- 0.197
> 7.874 up to 9.843	+/- 0.354	+/- 0.165	> 39.370	+/- 0.06+0.8% x L	+/- 0.5% x L
> 9.843 up to 11.811	+/- 0.394	+/- 0.181			
> 11.811 up to 13.780	+/- 0.433	+/- 0.197			
> 13.780 up to 15.748	+/- 0.472	+/- 0.217			
> 15.748 up to 17.717	+/- 0.512	+/- 0.240			
> 17.717 up to 19.685	+/- 0.551	+/- 0.268			
> 19.685 up to 23.622	+/- 0.591	+/- 0.299			
> 23.622 up to 27.559	+/- 0.630	+/- 0.327			
> 27.559 up to 31.496	+/- 0.689	+/- 0.354			
> 31.496 up to 35.433	+/- 0.748	+/- 0.374			
> 35.433 up to 39.370	+/- 0.787	+/- 0.394			
> 39.370	+/- 0.01 x Dia.	+/- 0.01 x Dia.			

These are our standard tolerances. Through our modern process control system we are able to achieve values considerably better than standard. For tighter tolerances, please send us your enquiry.

Accuracy	Coarse	Medium
DIN VDE 0335, Type	530 610 799	530 610 799
cast, extruded 1.2 inch dia. and above	■ ■ ■	■ ■ ■
extruded to 1.2 inch dia.	■ ■ ■	■ ■ ■

PLEASE CONTACT US FOR PRICE, STOCK AVAILABILITY AND LEAD TIMES:

US OFFICE Telephone: 1 – 877 680 0677 Fax: 1 – 866 817 7410 (Both US Toll Free)

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Diameter Tolerances to DIN 40 680
Deflectional Tolerances to DIN 40 680

Nominal dimensional range for diameter or length in mm	Degree of accuracy		Nominal dimensional range for length in mm	Coarse Deflection in mm	Medium Deflection in mm
	Coarse Deviation in mm	Medium Deviation in mm			
up to 4	+/- 0.4	+/- 0.15	up to 30	+/- 1.7	+/- 0.15
above 4 up to 6	+/- 0.6	+/- 0.20	above 30 up to 40	+/- 1.8	+/- 0.20
above 6 up to 8	+/- 0.7	+/- 0.25	above 40 up to 50	+/- 1.9	+/- 0.25
above 8 up to 10	+/- 0.8	+/- 0.30	above 50 up to 60	+/- 2.0	+/- 0.30
above 10 up to 13	+/- 1.0	+/- 0.35	above 60 up to 70	+/- 2.1	+/- 0.35
above 13 up to 16	+/- 1.2	+/- 0.40	above 70 up to 80	+/- 2.1	+/- 0.40
above 16 up to 20	+/- 1.2	+/- 0.45	above 80 up to 90	+/- 2.2	+/- 0.45
above 20 up to 25	+/- 1.5	+/- 0.50	above 90 up to 100	+/- 2.3	+/- 0.50
above 25 up to 30	+/- 1.5	+/- 0.55	above 100 up to 110	+/- 2.4	+/- 0.55
above 30 up to 35	+/- 2.0	+/- 0.60	above 110 up to 125	+/- 2.5	+/- 0.65
above 35 up to 40	+/- 2.0	+/- 0.65	above 125 up to 140	+/- 2.6	+/- 0.70
above 40 up to 45	+/- 2.0	+/- 0.70	above 140 up to 155	+/- 2.7	+/- 0.80
above 45 up to 50	+/- 2.5	+/- 0.80	above 155 up to 170	+/- 2.9	+/- 0.85
above 50 up to 55	+/- 2.5	+/- 0.90	above 170 up to 185	+/- 3.0	+/- 0.90
above 55 up to 60	+/- 2.5	+/- 1.00	above 185 up to 200	+/- 3.1	+/- 1.00
above 60 up to 70	+/- 3.0	+/- 1.20	above 200 up to 250	+/- 3.5	+/- 1.25
above 70 up to 80	+/- 3.5	+/- 1.40	above 250 up to 300	+/- 3.9	+/- 1.50
above 80 up to 90	+/- 4.0	+/- 1.60	above 300 up to 350	+/- 4.3	+/- 1.75
above 90 up to 100	+/- 4.5	+/- 1.80	above 350 up to 400	+/- 4.7	+/- 2.00
above 100 up to 110	+/- 5.0	+/- 2.00	above 400 up to 450	+/- 5.1	+/- 2.25
above 110 up to 125	+/- 5.5	+/- 2.20	above 450 up to 500	+/- 5.5	+/- 2.50
above 125 up to 140	+/- 6.0	+/- 2.50	above 500 up to 600	+/- 6.3	+/- 3.00
above 140 up to 155	+/- 6.5	+/- 2.80	above 600 up to 700	+/- 7.1	+/- 3.50
above 155 up to 170	+/- 7.0	+/- 3.00	above 700 up to 800	+/- 7.9	+/- 4.00
above 170 up to 185	+/- 7.5	+/- 3.40	above 800 up to 900	+/- 8.7	+/- 4.50
above 185 up to 200	+/- 8.0	+/- 3.80	above 900 up to 1000	+/- 9.5	+/- 5.00
above 200 up to 250	+/- 9.0	+/- 4.20	above 1000	+/- 1.5+0.8% x L	+/- 0.5% x L
above 250 up to 300	+/- 10.0	+/- 4.60			
above 300 up to 350	+/- 11.0	+/- 5.00			
above 350 up to 400	+/- 12.0	+/- 5.50			
above 400 up to 450	+/- 13.0	+/- 6.10			
above 450 up to 500	+/- 14.0	+/- 6.80			
above 500 up to 600	+/- 15.0	+/- 7.60			
above 600 up to 700	+/- 16.0	+/- 8.30			
above 700 up to 800	+/- 17.5	+/- 9.00			
above 800 up to 900	+/- 19.0	+/- 9.50			
above 900 up to 1000	+/- 20.0	+/- 10.00			
above 1000	+/- 0.2 x Dia.	+/- 0.01 x Dia.			

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Accuracy	Coarse	Medium
DIN VDE 0335, Type	530 610 799	530 610 799
cast, extruded 30mm dia. and above
extruded to 30mm dia.

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