

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

