Ideal Precision Instrument Service, Inc.

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Tolerance Classes

Above	To & Including	xxx	xx	х	Y	Z
.010-	.825	.00001	.00002	.00004	.00007	.0001
.254mm	20.96mm	.00025mm	.00051mm	.00102mm	.00178mm	.00254mm
.825-	1.510	.000015	.00003	.00006	.00009	.00012
20.96	38.35mm	.00038mm	.00076mm	.00152mm	.00229mm	.00305mm
1.510-	2.510	.00002	.00004	.00008	.00012	.00016
38.35mm	63.75mm	.00050mm	.00102mm	.00203mm	.00305mm	.00406
2.510-	4.510	.000025	.00005	.0001	.00015	.0002
63.75mm	114.55mm	.00063mm	.00127mm	.00254mm	.00381mm	.00508mm
4.510-	6.510	.000033	.000065	.00013	.00019	.00025
114.55mm	165.35mm	.00083mm	.00165mm	.00330mm	.00483mm	.00635mm
6.510-	9.010	.00004	.00008	.00016	.00024	.00032
165.35mm	228.85mm	.001mm	.00203mm	.00406	.00610mm	.00813
9.010-	12.010	.00005	.0001	.0002	.0003	.0004
228.85mm	305.05mm	.00125	.00254mm	.00508mm	.00762mm	.01016mm

Direction of Tolerances

Plug Gages:

Go Member - Tolerance applied to plus side No Go member - Tolerance applied to minus side Master (Bilateral) - Tolerance is equally split plus and minus

Ring Gages:

Go Member - Tolerance is applied to minus side No Go Member - Tolerance is applied to plus side Master (Bilateral) - Tolerance is equally split plus and minus

Roundness and Taper and Hardness

Not to exceed 50% of Tolerance
Hardness should be between 58 and 64 as measured on the Rockwell C scale