

The standards below are used in the manufacturing of carbide gages.

If you have any questions or would like to inquire about precision gages, please contact us at (989) 652-6136

**Direction of Tolerances:**

**Plug Gages:**            Go Gages            PLUS (+) tolerance (Used on smaller OD in set)  
                               NoGo Gages        MINUS (-) tolerance (Used on larger OD in set)

**Ring Gages:**        Go Gages            MINUS (-) tolerance (Used on larger ID in set)  
                               NoGo Gages        PLUS (+) tolerance (Used on smaller ID in set)



Master Gages are bilateral - the tolerance is split between the plus and minus sides

Size Range			Class					
Units	Above	To & Including	XXX	XX	X	Y	Z	ZZ
inches	0.010	0.825	0.00001	0.00002	0.00004	0.00007	0.0001	0.0002
mm	0.254	20.955	0.000254	0.000508	0.001016	0.001778	0.002540	0.005080
inches	0.825	1.51	0.00015	0.0003	0.0006	0.0009	0.0012	0.0024
mm	20.955	38.354	0.000381	0.000762	0.001524	0.002286	0.003048	0.006096
inches	1.510	2.51	0.0002	0.0004	0.0008	0.0012	0.0016	0.0032
mm	38.354	63.754	0.000508	0.001016	0.002032	0.003048	0.004064	0.008128
inches	2.510	4.51	0.00025	0.0005	0.001	0.0015	0.002	0.004
mm	63.754	114.554	0.000635	0.00127	0.00254	0.00381	0.00508	0.01016
inches	4.510	6.51	0.00033	0.00065	0.0013	0.0019	0.0025	0.005
mm	114.554	165.354	0.0008382	0.001651	0.003302	0.004826	0.00635	0.0127
inches	6.510	9.01	0.0004	0.0008	0.0016	0.0024	0.0032	0.0064
mm	165.354	228.854	0.001016	0.002032	0.004064	0.006096	0.008128	0.016256
inches	9.010	12.01	0.0005	0.001	0.002	0.003	0.004	0.008
mm	228.854	305.054	0.00127	0.00254	0.00508	0.00762	0.01016	0.02032
inches	12.010	15.01	0.00075	0.0015	0.003	0.0045	0.006	0.012
mm	305.054	381.254	0.001905	0.00381	0.00762	0.01143	0.01524	0.03048
inches	15.010	18.01	0.001	0.002	0.004	0.006	0.008	0.016
mm	381.254	457.454	0.00254	0.00508	0.01016	0.01524	0.02032	0.04064
inches	18.010	21.01	0.00125	0.0025	0.005	0.0075	0.01	0.02
mm	457.454	533.654	0.003175	0.00635	0.0127	0.01905	0.0254	0.0508