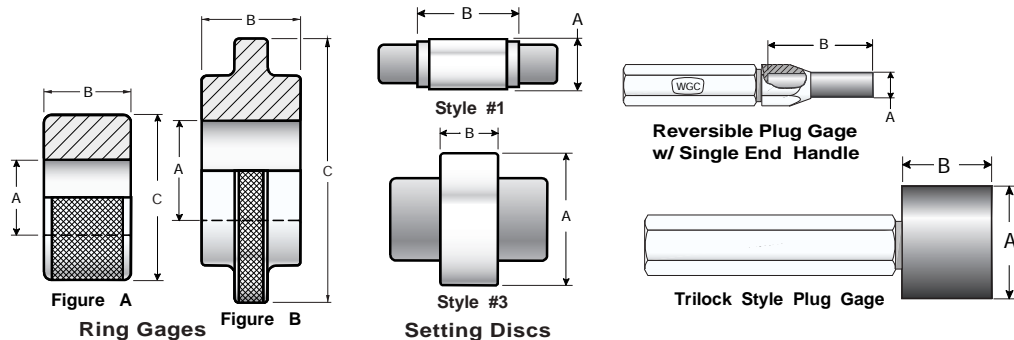


# Setting Master Dimensional Data

See page 27 for order codes



Ring Gage Masters					
Diameter A above - incl.	Dia. C	Dim. B	Gage Blank #	Figure	
.040 - .060	.94	.19	00**	A	
.060 - .070	.94	.25	sp**	A	
.070 - .230	.94	.37	0**	A	
.230 - .365	1.13	.56	1	A	
.365 - .510	1.38	.75	2	A	
.510 - .825	1.75	.94	3	A	
.825 - 1.135	2.13	1.13	4	A	
1.135 - 1.510	2.50	1.31	5	A	
1.510 - 2.010	4.00	1.50	6	B	
2.010 - 2.510	4.50	1.50	7	B	
2.510 - 3.010	5.00	1.50	8	B	
3.010 - 3.510	5.50	1.50	9	B	
3.510 - 4.010	6.38	1.50	10	B	
4.010 - 4.760	7.25	1.50	11	B	
4.760 - 5.510	8.25	1.50	12	B	
5.510 - 6.260	9.25	1.50	13	B	
6.260 - 7.010	10.30	1.50	14	B	
7.010 - 7.760	11.30	1.50	15	B	
7.760 - 8.510	12.30	1.50	16	B	
8.510 - 9.100	13.30	1.50	17	B	

\*\* In these sizes, Western provides a blank that is thicker than the A.N.S.I. standard for more reliable gage mastering.

Set Disc Masters			
Diameter A above - incl.	Dim B	Gage Style	
.150 - .230	1.19"	1	
.230 - .365	1.31"	1	
.365 - .510	1.44"	1	
.510 - .825	1.56"	1	
.825 - 1.135	1.69"	1	
1.135 - 1.510	1.94"	1	
1.510 - 2.510	.88"	3	
2.510 - 8.010	1.00"	3	

Master Setting Plugs			
Diameter A above - incl.	Dim B	Gage Style	
.060 - .825	2.00"	Reversible	
.825 - .947	1.25"	Trilock	
.947 - 1.135	1.37"	Trilock	
1.135 - 1.510	1.50"	Trilock	
1.510 - 2.010	.88"	Trilock	
2.010 - 3.510	1.00"	Trilock	
3.510 - 8.010	1.00"	Trilock	

AMERICAN GAGE DESIGN TOLERANCES						
Size above -incl. inch / mm	Tolerance - inch / μm					Z
	XXX	XX	X	Y		
.029 - .825	.00001	.00002	.00004	.00007	.00010	
.74 - 20.96	.25	.51	1.02	1.78	2.54	
.825 - 1.510	.000015	.00003	.00006	.00009	.00012	
20.96 - 38.35	.38	.76	1.52	2.29	3.05	
1.510 - 2.510	.00002	.00004	.00008	.00012	.0001	
38.35 - 63.75	.51	1.02	2.03	3.05	4.06	
2.510 - 4.510	.000025	.00005	.00010	.00015	.0002	
63.75 - 114.55	.64	1.27	2.54	3.81	5.08	
4.510 - 6.510	.000033	.000065	.00013	.00019	.00025	
114.55 - 163.35	.83	1.65	3.30	4.83	6.35	
6.510 - 9.010	.00004	.00008	.00016	.00024	.00032	
163.35 - 228.85	1.02	2.03	4.06	6.10	8.13	

## Bilateral / Unilateral Tolerances □

A.G.D. classes define the total tolerance zone for the gage. Master gages are made with the A.G.D. class tolerance split equally (bilaterally). Go and NoGo fixed limit gages for functional testing of workpieces are normally unilaterally toleranced into the tolerance zone of the part. Thus, "Go Rings" and "No-Go Plug" gages are unilaterally minus toleranced. "No-Go Rings" and "Go Plug" gages are unilaterally plus toleranced. For example, a .5000" master ring gage, with a class "XX" tolerance (.00002") is finished to a diametrical tolerance of ±.00001". Ordered as a No-Go ring gage, the .5000" ring would be finished to +.00002"/.00000" diametrical tolerance.