

# GAGE TOLERANCES

## W TOLERANCE

## X TOLERANCE

Threads per inch	W TOLERANCE										X TOLERANCE									
	PITCH DIAMETER					MAJOR & MINOR			LEAD		PITCH DIAMETER				MAJOR & MINOR		LEAD			
	To and incl. 1/2" dia.	Above 1/2" to 1 1/2" diameter	Above 1 1/2" to 4" diameter	Above 4" to 8" diameter	Above 8" to 12" diameter	To and incl. 1/2" diameter	Above 1/2" to 4" diameter	Above 4" Dia.	1/2 Angle Tol. 0 Deg.+/- Min.	To and incl. 1/2"	Above 1/2"	To and incl. 1-1/2"	Above 1-1/2" to 4"	Above 4" to 8"	Above 8" to 12"	To and including 4" diameter	Above 4"	1/2 Angle Tol. 0 Deg.+/- Min.	Lead Tolerance	
72	.0001	.00015				.0003	.0003		20'	.0001	.00015	80	.0002				.0003		30'	.0002
64	.0001	.00015				.0003	.0004		20'	.0001	.00015	72	.0002				.0003		30'	.0002
56	.0001	.00015	.0002			.0003	.0004		20'	.0001	.00015	64	.0002				.0004		30'	.0002
48	.0001	.00015	.0002			.0003	.0004		18'	.0001	.00015	56	.0002	.0003			.0004		30'	.0002
44	.0001	.00015	.0002			.0003	.0004		15'	.0001	.00015	48	.0002	.0003			.0004		30'	.0002
40	.0001	.00015	.0002			.0003	.0004		15'	.0001	.00015	44	.0002	.0003			.0004		20'	.0002
36	.0001	.00015	.0002			.0003	.0004		12'	.0001	.00015	40	.0002	.0003			.0004		20'	.0002
32	.0001	.00015	.0002	.00025	.0003	.0003	.0005	.0007	12'	.0001	.00015	36	.0002	.0003			.0004		20'	.0002
28	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	32	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
27	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	28	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
24	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	27	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
20	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	24	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
18	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	20	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
16	.0001	.0002	.00025	.0003	.0004	.0006	.0006	.0009	8'	.00015	.00015	18	.0003	.0004	.0005	.0006	.0005	.0007	10'	.0003
14	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	16	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
13	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	14	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
12	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	13	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
11½	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	12	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
11	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	11	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
10		.0002	.00025	.0003	.0004		.0006	.0009	6'		.00025	10	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
9		.0002	.00025	.0003	.0004		.0007	.0011	6'		.00025	9	.0003	.0004	.0006	.0008	.0007	.0011	10'	.0003
8		.0002	.00025	.0003	.0004		.0007	.0011	5'		.00025	8	.0004	.0005	.0006	.0008	.0007	.0011	5'	.0004
7		.0002	.00025	.0003	.0004		.0007	.0011	5'		.0003	7	.0004	.0005	.0006	.0008	.0007	.0011	5'	.0004
6		.0002	.00025	.0003	.0004		.0008	.0013	5'		.0003	6	.0004	.0005	.0006	.0008	.0008	.0013	5'	.0004
5			.00025	.0003	.0004		.0008	.0013	4'		.0003	5		.0005	.0006	.0008	.0008	.0013	5'	.0004
4½			.00025	.0003	.0004		.0008	.0013	4'		.0003	4½		.0005	.0006	.0008	.0008	.0013	5'	.0004
4			.00025	.0003	.0004		.0009	.0015	4'		.0003	4		.0005	.0006	.0008	.0008	.0015	5'	.0004

## GAGEMAKER'S TOLERANCE CHART

RANGE	XXXX	XXX	XX	X	Y	Z	ZZ
.0009" to .8250"	.000005"	.00001"	.00002"	.00004"	.00007"	.0001"	.00020"
.8251" to 1.5100"	.000008"	.000015"	.00003"	.00006"	.00009"	.00012"	.00024"
1.5101" to 2.5101"	.00001"	.00002"	.00004"	.00008"	.00012"	.00016"	.00032"
2.5101" to 4.5100"	.000013"	.000025"	.00005"	.00010"	.00015"	.00020"	.00040"
4.5101" to 6.5100"	.000017"	.000033"	.000065"	.00013"	.00019"	.000250"	.00050"
6.5101" to 9.0100"	.00002"	.00004"	.00008"	.00016"	.00024"	.000320"	.00064"
9.0101" to 12.600"	.000025"	.00005"	.0001"	.0002"	.0003"	.000400"	.00080"

## METRIC EQUIVALENTS

RANGE	XX	X	Y	Z	ZZ
.74mm to 20.96mm	.00051	.00102	.00178	.00254	.005
20.96mm to 38.35mm	.00076	.00152	.00229	.00305	.006
38.35mm to 63.75mm	.00102	.00203	.00305	.00406	.008
63.75mm to 114.55mm	.00127	.00254	.00381	.00508	.010
114.55mm to 163.35mm	.00165	.00330	.00483	.00635	.013
163.35mm to 228.85mm	.00203	.00406	.00610	.00813	.016
228.85mm to 311.40mm	.00254	.00508	.00762	.01016	.020