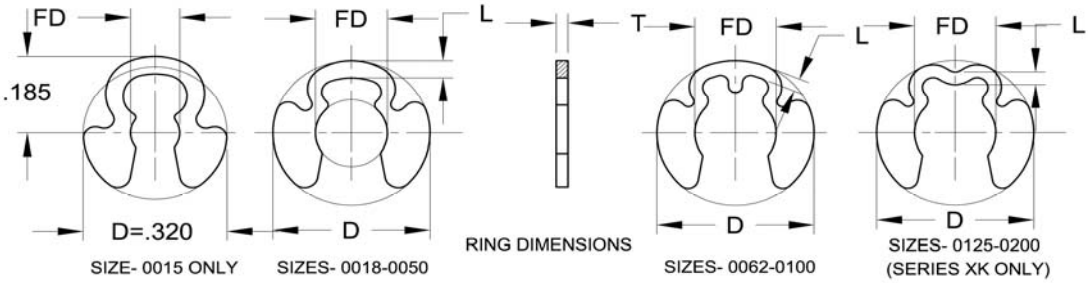
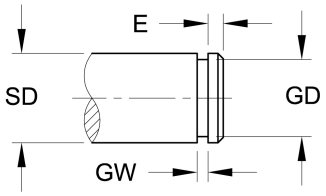


S & M XK & XKT External Klip Ring	SHAFT DIAMETER			RING DIMENSION						APPROX. WT. PER 1000 RINGS (Lbs.)	ROCKWELL HARDNESS (CARBON STEEL W/O PLATING)	Static Thrust Load (Lbs.) Sharp Corner Abutment	
	DEC. EQUIV. INCH	FRAC. EQUIV. INCH	MM	FREE DIAMETER		THICKNESS		OUTER DIA.	LARGE SEC.			RING	GROOVE
RING NUMBER	SD	SD	SD	FD	TOL.	T	TOL.	D	L			TR	TG**
XK0015	.156	5/32	4.0	.110	+/- .003	.035	+/- .002	.320	.042	.42	30N 54-62	450	110
XK0018	.188	3/16	4.8	.140	+/- .003	.035	+/- .002	.400	.048	.63	30N 54-62	600	130
XK0025	.250	1/4	6.4	.188	+/- .003	.035	+/- .002	.482	.056	.84	30N 54-62	900	200
XK0031	.312	5/16	7.9	.250	+/- .003	.042	+/- .002	.588	.074	1.46	C 34.43	1300	250
XK0037	.375	3/8	9.5	.312	+/- .004	.042	+/- .002	.680	.081	1.92	C 34.43	1550	300
XK0043	.438	7/16	11.1	.375	+/- .004	.050	+/- .002	.752	.081	2.66	C 34.43	2200	400
XK0050	.500	1/2	12.7	.406	+/- .004	.050	+/- .002	.826	.097	3.30	C 34.43	2500	600
XK0062	.625	5/8	15.9	.500	+/- .005	.050	+/- .002	.966	.086	4.65	C 34.43	3000	1100
XK0075	.750	3/4	19.0	.594	+/- .005	.062	+/- .003	1.095	.095	7.48	C 34.43	4600	1600
XK0100	1.000	1	25.4	.812	+/- .006	.078	+/- .003	1.415	.115	13.8	C 34.43	7500	2600
XK0125	1.250	1 1/4	31.8	1.032	+/- .006	.093	+/- .003	1.800	.180	29.0	C 34.43	11000	3500
XK0150	1.500	1 1/2	38.1	1.250	+/- .008	.109	+/- .003	2.050	.208	37.1	C 34.43	15300	4800
XK0175	1.750	1 3/4	44.4	1.406	+/- .010	.125	+/- .004	2.300	.235	58.6	C 34.43	20500	8200
XK0200	2.000	2	50.8	1.625	+/- .015	.125	+/- .004	2.650	.250	59.2	C 34.43	23500	9450

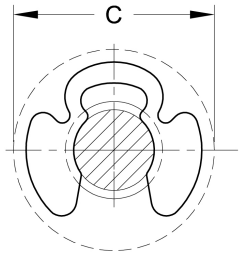
Thin Klip Ring

XKT0015	.156	5/32	4.0	.110	+/- .003	.025	+/- .002	.320	.042	.30	C 47-53	320	110
XKT0018	.188	3/16	4.8	.140	+/- .003	.025	+/- .002	.400	.048	.45	C 47-53	430	130
XKT0025	.250	1/4	6.4	.188	+/- .003	.025	+/- .002	.482	.056	.60	C 47-53	640	200
XKT0031	.312	5/16	7.9	.250	+/- .003	.025	+/- .002	.588	.074	.87	C 47-53	780	250
XKT0037	.375	3/8	9.5	.312	+/- .004	.035	+/- .002	.680	.081	1.60	C 47-53	1300	300
XKT0043	.438	7/16	11.1	.375	+/- .004	.035	+/- .002	.752	.081	1.86	C 47-53	1850	400
XKT0050	.500	1/2	12.7	.406	+/- .004	.042	+/- .002	.826	.097	2.77	C 47-53	2100	600
XKT0062	.625	5/8	15.9	.500	+/- .005	.042	+/- .002	.966	.086	3.91	C 47-53	2500	1100
XKT0075	.750	3/4	19.0	.594	+/- .005	.050	+/- .002	1.095	.095	6.03	C 47-53	3700	1600
XKT0100	1.000	1	25.4	.812	+/- .006	.050	+/- .002	1.415	.115	8.8	C 47-53	4800	2600

Installation: rings should not be over-expanded during installation. If groove has been machined to recommended diameter, play between the ring and groove after installation indicates the ring has been expanded excessively; this may lead to application failure. *C=Ring clearance diameter after ring is applied into groove.
For plated, phosphate-coated, and stainless steel rings , the maximum ring thickness will not exceed the minimum groove width (GW) minus .0002".



GROOVE DIMENSIONS



RING INSTALLED

RING CLEARANCE	GROOVE DIMENSIONS					Maximum allowable corner radii and chamfers of retained parts		Maximum allowable assembly load with R max. or Ch max.	CALCULATED ALLOW. ASSEMBLY RPM	EDGE MARGIN	S & M XK & XKT External Klip Ring
	DIAMETER		WIDTH		DEPTH						
*C	GD	TOL.	GW	TOL.	GDP	R max.	CH max.	(lbs.)		E	RING NUMBER
.39	.120	+/- .004	.039	+ .006	.018	.050	.040	250	80000	.036	XK0015
.42	.148	+/- .005	.039	+ .006	.020	.050	.040	270	80000	.040	XK0018
.52	.210	+/- .006	.039	+ .006	.020	.050	.040	310	65000	.040	XK0025
.63	.272	+/- .006	.046	+ .006	.020	.065	.050	400	65000	.040	XK0031
.72	.331	+/- .006	.046	+ .006	.022	.065	.050	430	65000	.044	XK0037
.79	.390	+/- .008	.056	+ .006	.024	.080	.060	600	60000	.048	XK0043
.89	.440	+/- .008	.056	+ .006	.030	.080	.060	630	50000	.060	XK0050
1.03	.531	+/- .008	.056	+ .006	.047	.080	.060	720	45000	.094	XK0062
1.17	.632	+/- .010	.068	+ .008	.059	.085	.065	1000	38000	.118	XK0075
1.51	.860	+/- .010	.086	+ .008	.070	.090	.065	1800	25000	.140	XK0100
1.90	1.090	+/- .010	.103	+ .008	.080	.090	.065	2750	11000	.160	XK0125
2.18	1.317	+/- .015	.120	+ .010	.091	.10	.07	3800	9000	.182	XK0150
2.45	1.480	+/- .015	.139	+ .010	.135	.12	.09	5100	7000	.270	XK0175
2.83	1.730	+/- .015	.139	+ .010	.135	.13	.10	5100	5000	.270	XK0200

.39	.120	+/- .004	.029	+ .006	.018	.050	.040	130	80000	.036	XKT0015
.42	.148	+/- .005	.029	+ .006	.020	.050	.040	140	80000	.040	XKT0018
.52	.210	+/- .006	.029	+ .006	.020	.050	.040	150	65000	.040	XKT0025
.63	.272	+/- .006	.029	+ .006	.020	.050	.040	150	65000	.040	XKT0031
.72	.331	+/- .006	.039	+ .006	.022	.065	.050	200	65000	.044	XKT0037
.79	.390	+/- .008	.039	+ .006	.024	.065	.050	300	60000	.048	XKT0043
.89	.440	+/- .008	.046	+ .006	.030	.080	.060	450	50000	.060	XKT0050
1.03	.531	+/- .008	.046	+ .006	.047	.080	.060	500	45000	.094	XKT0062
1.17	.632	+/- .010	.056	+ .008	.059	.090	.070	650	38000	.118	XKT0075
1.51	.860	+/- .010	.056	+ .008	.070	.090	.070	740	25000	.140	XKT0100

TG **=Groove wall thrust loads shown are for grooves machined in cold-rolled steel with a tensile yield strength of 45,000 psi.

For shaft material with greater or lesser yield strength, groove wall thrust load increases or decreases proportionally.

Standard Material= is Carbon Spring Steel (SAE 1060-1090)

Standard finish= Oil-dipped