

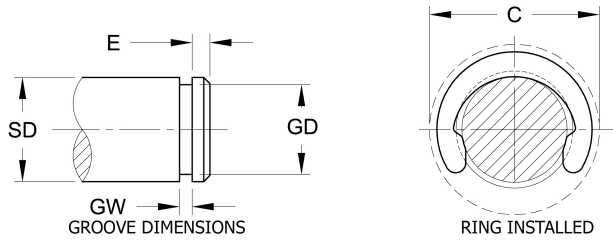
S&M Series XC Crescent External Ring	SHAFT DIAMETER			RING DIMENSIONS						
	ASME-B18-27-2NA6 MIL-R-21248 MS-16632	DEC. EQUIV. INCH	FRAC. EQUIV. INCH	MM	FREE DIAMETER		THICKNESS		LARGE SECTION	
RING NUMBER	SD	SD	SD	FD	TOL.	T	TOL.	L	TOL.	D
XC0012	.125	1/8	3.18	.102	+ .002	.015	+/- .002	.031	+/- .003	.164
XC0015	.156	5/32	3.97	.131	- .004	.015		.037		.205
XC0018	.188	3/16	4.76	.161		.015		.042		.245
XC0021	.219	7/32	5.56	.187	+ .003 - .005	.025		.044	.275	
XC0023	.236	15/64	6.00	.203		.025		.046	.295	
XC0025	.250	1/4	6.35	.211		.025		.050	.311	
XC0028	.281	9/32	7.14	.242		.025		.051	.344	
XC0031	.312	5/16	7.94	.270		.025		.053	.376	
XC0037	.375	3/8	9.53	.328		.025		.060	.448	
XC0040	.406	13/32	10.32	.359		.025		.063	.485	
XC0043	.437	7/16	11.11	.386		.025	.065	.516		
XC0050	.500	1/2	12.70	.441		+/- .006	.035	.070	.581	
XC0056	.562	9/16	14.29	.497			.035	.078	.653	
XC0062	.625	5/8	15.88	.553	.035		.081	.715		
XC0068	.687	11/16	17.46	.608	+/- .007	.042	.086	.780		
XC0075	.750	3/4	19.05	.665		.042	.090	.845		
XC0081	.812	13/16	20.64	.721		.042	.097	.915		
XC0087	.875	7/8	22.23	.777		.042	.105	.987		
XC0093	.937	15/16	23.81	.830		.042	.112	1.054		
XC0100	1.000	1	25.40	.887	+/- .008	.042	.120	1.127		
XC0112	1.125	1 1/8	28.58	.997		.050	.135	1.267		
XC0125	1.250	1 1/4	31.75	1.110		.050	.150	1.410		
XC0137	1.375	1 3/8	34.93	1.220		.050	.165	1.550		
XC0150	1.500	1 1/2	38.10	1.331	+/- .010	.050	.180	1.691		
XC0175	1.750	1 3/4	44.45	1.555		.062	.210	1.975		
XC0200	2.000	2	50.80	1.777		.062	.240	2.257		

Rings must not be over-expanded during installation, since this will lead to ring failure. Providing groove has been machined to recommended dimensions, play between the groove diameter and the inside ring diameter indicates that the ring has been over-expanded.

*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 .002".

the minimum groove width (GW) minus .0002".



ROCKWELL HARDNESS (CARBON STEEL W/O PLATING)	APPROX. WT. PER 1000 RINGS (Lbs.)	Static Thrust Load (Lbs.) Sharp Corner Abutment		RING CLEARANCE	GROOVE DIMENSIONS				EDGE MARGIN	S&M Series XC Crescent External Ring		
		RING	GROOVE		*C	DIAMETER		WIDTH		ASME-B18-27-2NA6 MIL-R-21248 MS-16632		
						TR	TG**	GD			TOL.	GW
		RING NUMBER										
15N 86.0-88.0	.03	85	40	.18	.106	+/- .0015	.018	+ .002 - .000	.020	XC0012		
15N 86.0-88.0	.04	100	55	.22	.135		.018		.020	XC0015		
15N 86.0-88.0	.07	130	70	.26	.165		.020		.022	XC0018		
30N 68.5-72.0	.13	260	100	.29	.193	+/- .002	.029	+ .003 - .000	.026	XC0021		
30N 68.5-72.0	.15	280	115	.31	.208		.029		.028	XC0023		
30N 68.5-72.0	.16	295	130	.33	.220		.029		.030	XC0025		
30N 68.5-72.0	.20	330	170	.36	.247		.029		.034	XC0028		
30N 68.5-72.0	.23	370	200	.39	.276		.029		.036	XC0031		
30N 68.5-72.0	.30	440	265	.47	.335		.029		.040	XC0037		
30N 68.5-72.0	.35	480	300	.50	.364		.029		.042	XC0040		
30N 68.5-72.0	.36	515	340	.53	.393		.029		.044	XC0043		
30N 67.5-71.0	.68	825	440	.60	.450		+/- .003		.039	- .000	.050	XC0050
30N 67.5-71.0	.75	930	550	.67	.507				.039		.056	XC0056
30N 67.5-71.0	.94	1030	690	.74	.563	.039		.062	XC0062			
30N 67.5-71.0	1.35	1700	820	.80	.619	.046		.068	XC0068			
30N 67.5-71.0	1.60	1850	985	.87	.676	.046		.074	XC0075			
30N 67.5-71.0	1.75	2010	1150	.94	.732	.046		.080	XC0081			
C 48-52	2.00	2165	1320	1.01	.789	.046		.086	XC0087			
C 48-52	2.50	2320	1550	1.08	.843	.046		.094	XC0093			
C 48-52	2.75	2480	1770	1.15	.900	.046	.100	XC0100				
C 48-52	4.00	3300	2200	1.30	1.013	+/- .004	.056	+ .004 - .000	.112	XC0112		
C 48-52	5.25	3600	2700	1.44	1.126		.056		.124	XC0125		
C 48-52	6.25	4000	3300	1.59	1.237		.056		.138	XC0137		
C 48-52	7.75	4400	4000	1.73	1.350		.056		.150	XC0150		
C 48-52	13.00	6400	5300	2.02	1.576		+/- .005		.068	- .000	.174	XC0175
C 48-52	16.75	7300	7000	2.30	1.800				.068		.200	XC0200

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