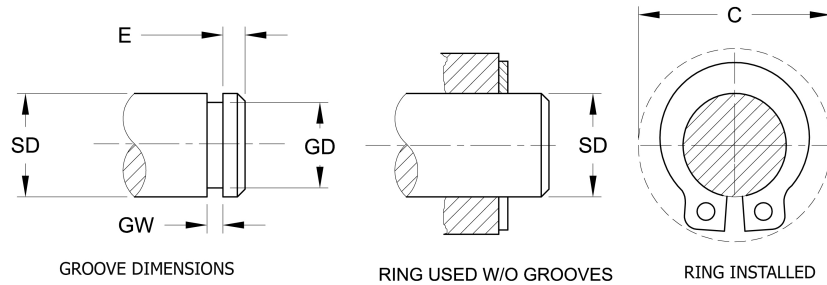


S&M Series XG External Grip Ring	SHAFT DIAMETER			RING DIMENSIONS																	
	MIN. DEC.	MAX. DEC.	NOM. FRAC.	FREE DIAMETER	THICKNESS	LARGE SECTION	SMALL SECTION	LUG	HOLE DIAMETER	FREE DIAMETER		THICKNESS		LARGE SECTION		SMALL SECTION		LUG		HOLE DIAMETER	
ASME-B18-27-5NA14 MIL-R-21248 MS-90707	SD	SD	SD	FD	TOL.	T	TOL.	L	TOL.	S	TOL.	U	TOL.	H	TOL.						
XG0006	.058	.060	-	.055		.015						.066		.035							
XG0007	.078	.080	5/64	.074	+ .002	.025		.041		.027		.075	+/- .008	.034							
XG0009	.092	.096	3/32	.089	- .003	.025	+/- .002	.045	+/- .004	.028	+/- .004	.078		.034							
XG0012	.123	.127	1/8	.120		.025		.070		.048		.078		.042							
XG0015	.154	.158	5/32	.150		.025		.079		.051		.078		.042							
XG0018	.185	.189	3/16	.181	+ .002	.035		.086		.052		.097	+/- .003	.051							
XG0023	.234	.238	15/64	.224	- .004	.035						.097		.051							
XG0025	.248	.252	1/4	.238		.035		.101		.057		.097		.051							
XG0031	.310	.316	5/16	.298	+ .003	.042	+/- .003	.114	+/- .005	.073	+/- .005	.141		.078							
XG0037	.373	.379	3/8	.354	- .005	.042		.125		.075		.141		.078							
XG0043	.434	.440	7/16	.412		.050		.138		.083		.151	+/- .004	.078							
XG0050	.497	.503	1/2	.470		.050		.140		.082		.158		.078							
XG0062	.622	.628	5/8	.593	+ .004	.062	+ .004	.175	+/- .006	.100	+/- .006	.180		.078							
XG0075	.745	.755	3/4	.706	- .006	.062		.176		.104		.233		.120							

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 .002".  
 the minimum groove width (GW) minus .0002".



APPROX. WT. PER 1000 RINGS (Lbs.)	ROCKWELL HARDNESS (CARBON STEEL W/O PLATING)	Static Thrust Load (Lbs.) Sharp Corner Abutment		RING CLEARANCE	OPTIONAL GROOVE DIMENSIONS				EDGE MARGIN	S&M Series XG External Grip Ring	
		RING	GROOVE		C*	DIAMETER		WIDTH		ASME-B18-27-5NA14 MIL-R-21248 MS-90707	
						TR	TG**	GD			TOL.
.04	15N 83.5 - 86.0	5	NOT RECOMMENDED FOR USE W/GROOVES	.21	NOT RECOMMENDED FOR USE W/GROOVES					XG0006	
.09	15N 83.5-86.0	8		.24					XG0007		
.12	30N 65.0-69.5	8		.26					XG0009		
.24	30N 65.0-69.5	10		.33					XG0012		
.30	30N 65.0-69.5	12		.36					XG0015		
.56	30N 65.0-69.5	20		.44					XG0018		
.74	C 46-51	22	70	.48	.228	+ .0005	.041	+ .003	.030	XG0023	
.76	C 46-51	23	90	.49	.240	- .0015	.041	- .000	.030	XG0025	
1.50	C 46-51	25	110	.68	.303		.048		.030	XG0031	
1.76	C 46-51	30	180	.74	.361		.048		.030	XG0037	
2.64	C 46-51	40	290	.81	.419	+ .001	.056	+ .004	.040	XG0043	
2.95	C 46-51	45	390	.90	.478	- .002	.056	- .000	.045	XG0050	
5.70	C 46-51	60	570	1.06	.599		.069		.050	XG0062	
6.90	C 46-51	65	850	1.32	.718	.003	.069		-	XG0075	

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