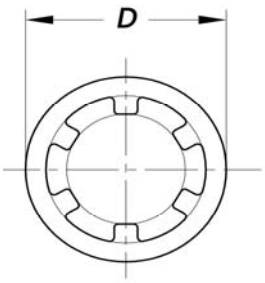
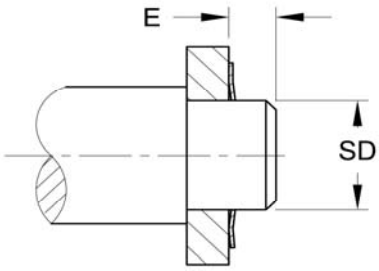


RING DIMENSIONS



RING INSTALLED

S&M Series XP External Push-on Ring	SHAFT DIAMETER			RING DIMENSIONS				NO. OF PRONGS	APPROX. WT. PER 1000 RINGS (Lbs.)	ROCKWELL HARDNESS (CARBON STEEL W/O PLATING)	STATIC THRUST LOAD	EDGE MARGIN
	NOM. FRAC.	MIN. DEC.	MAX. DEC.	DIAMETER		THICKNESS						
RING NUMBER	SD	SD	SD	D	TOL.	T	TOL.					E
XP0009	3/32	.093	.095	.250		.010		3	.09	15N 84.0-86.0	15	.040
XP0012	1/8	.124	.126	.325		.010		4	.14	15N 84.0-86.0	20	.040
XP0015	5/32	.155	.157	.356		.010	+/-.001	4	.17	15N 84.0-86.0	25	.040
XP0018	3/16	.187	.189	.387		.010		6	.20	15N 84.0-86.0	35	.040
XP0021	7/32	.218	.220	.418		.010		6	.21	15N 84.0-86.0	35	.040
XP0024	-	.239	.241	.460	+/- .005	.015	+/-.002	6	.35	15N 84.0-86.0	35	.060
XP0025	1/4	.249	.251	.450		.010		6	.23	15N 84.0-86.0	40	.040
XP0031	5/16	.311	.313	.512		.010	+/-.001	6	.26	15N 84.0-86.0	40	.040
XP0037	3/8	.374	.376	.575		.010		6	.27	15N 84.0-86.0	40	.040
XP0043	7/16	.437	.440	.638		.015		6	.47	15N 84.0-86.0	50	.060
XP0050	1/2	.498	.502	.750		.015		6	.72	15N 84.0-86.0	50	.060
XP0056	9/16	.560	.564	.812		.015	+/-.002	6	.75	15N 84.0-86.0	50	.060
XP0062	5/8	.623	.627	.875	+/-.010	.015		7	.82	15N 84.0-86.0	50	.060
XP0075	3/4	.748	.752	1.000		.015		8	.97	15N 84.0-86.0	50	.060
XP0087	7/8	.873	.877	1.125		.015		10	1.1	15N 84.0-86.0	55	.060
XP0100	1	.998	1.002	1.250		.015		10	1.2	15N 84.0-86.0	60	.060

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 may not be exceeded by .002".

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

For housing 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