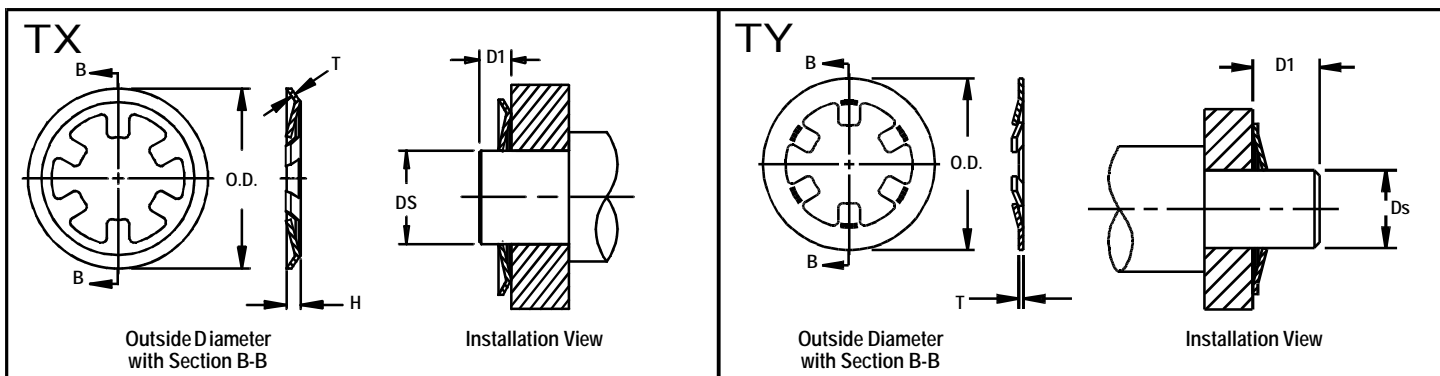


Rotor Clip TX, TY Retaining Rings Self-Locking External Retaining Rings

Prongs dig into shaft when load is introduced to other side.



RING NO.	SHAFT DIAMETER				OUTSIDE DIAMETER		No. of prongs	*** RING HEIGHT		* THICKNESS **Standard T Tol.	i Thrust Ld. @ Std. T lbs.	Wght. Per 1000 Pcs. @ Std. T lbs.	* Thick-ness Optional T Tol.	i Thrust Ld. @ Opt. T lbs.	WEIGHT Per 1000 Pcs. @ Opt. T lbs.	Min. Distance Face of part to end of shaft D1			
	Ds DEC		Ds FRACT	Ds mm	O.D.	Tol.		H	Tol.										
	FROM	TO																	
TX-9	.091	.097	3/32	2.39	.326	±.005	3	.029	±.010	±.001	27	.16	±.015	45	.25	.058			
TX-12	.121	.129	1/8	3.17	.366		4	.029			39	.19		57	.30	.058			
TX-15	.152	.160	5/32	3.96	.397		4	.029			46	.22		70	.35	.058			
TX-18	.184	.192	3/16	4.77	.444		6	.031			56	.27		85	.42	.062			
TX-25	.246	.254	1/4	6.35	.522		6	.042			112	.55		58	.39	.074			
TX-31	.308	.316	5/16	7.92	.584		8	.042			112	.64		60	.44	.074			
TX-37	.371	.379	3/8	9.53	.645		8	.042			122	.74		65	.48	.074			
TX-43	.432	.442	7/16	11.1	.737		10	.045			122	.96		±.015 ±.002					
TX-50	.495	.505	1/2	12.7	.828		10	.054			122	1.27							
TX-56	.557	.567	9/16	14.27	.889		12	.054			127	1.38							
TX-62	.620	.630	5/8	15.88	.951	12	.054	137	1.47										
TX-75	.745	.755	3/4	19.05	1.076	14	.054	142	1.65										
TX-87	.870	.880	7/8	22.23	1.203	16	.054	142	1.96										
TX-100	.995	1.005	1	25.4	1.327	18	.054	142	2.29										

*FOR PLATED RINGS ADD .002" TO MAXIMUM THICKNESS.

** STANDARD THICKNESS FOR STAINLESS STEEL IS AS FOLLOWS:TX-9-TX-37, .010"; TX-43-TX-100, .015".

*** FOR TX-9-TX-18 OPTIONAL THICKNESS (.015"), ADD .005" TO RING HEIGHT VALUES (H) SHOWN.

FOR TX-25-TX-37 OPTIONAL THICKNESS (.010), DEDUCT .005" FROM RING HEIGHT VALUES (H) SHOWN.

RING NO.	SHAFT DIAMETER				OUTSIDE DIAMETER		No. Of Prongs	THICKNESS*		i Thrust Load lbs.	WEIGHT Per 1000 Pcs. lbs.	Min. Distance Face of part to end of shaft D1		
	Inches				O.D.	Tol.		T	Tol.					
	Ds DEC		Ds FRACT	Ds mm										
	FROM	TO												
TY-9	.093	.095	3/32	2.39	.250	±.005	3	.010	±.001	13	.09	.040		
TY-12	.124	.126	1/8	3.17	.325		4			20	.14	.040		
TY-15	.155	.157	5/32	3.96	.356		4			25	.17	.040		
TY-18	.187	.189	3/16	4.77	.387		6			35	.20	.040		
TY-21	.218	.220	7/32	5.56	.418		6			35	.21	.040		
TY-24	.239	.241	-	6.10	.460		6			.015	±.002	40	.35	.060
TY-25	.249	.251	1/4	6.35	.450		6			.010	±.001	40	.23	.040
TY-31	.311	.313	5/16	7.92	.512		6			.010	±.001	45	.26	.040
TY-37	.374	.376	3/8	9.53	.575		6			.010	±.001	45	.27	.040
TY-43	.437	.439	7/16	11.1	.638		6			.015	±.002	50	.47	.060
TY-50	.498	.502	1/2	12.7	.750	6	.015	±.002	50	.72	.060			
TY-56	.560	.564	9/16	14.27	.812	6	.015	±.002	50	.75	.060			
TY-62	.623	.627	5/8	15.88	.875	7	.015	±.002	50	.82	.060			
TY-75	.748	.752	3/4	19.05	1.000	8	.015	±.002	55	.97	.060			
TY-87	.873	.877	7/8	22.23	1.125	10	.015	±.002	60	1.1	.060			
TY-100	.998	1.002	1	25.4	1.250	10	.015	±.002	65	1.2	.060			

* FOR PLATED RINGS ADD .002" TO MAXIMUM THICKNESS AND HEIGHT.

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

i BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA, CONTACT THE ROTOR CLIP ENGINEERING DEPT.

TABLE 1: HARDNESS RANGES-ROTOR CLIP
STAINLESS STEEL RINGS (PH 15-7 MO)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TX	9-37(.010thick)	15N	82.5-86*
	all over .010	15N	82.5-86

TABLE 2: HARDNESS RANGES-ROTOR CLIP
BERYLLIUM COPPER RINGS

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TX	9-37(.010thick)	15N	77-82*
	all over .010	15N	77-82

TABLE 3: HARDNESS RANGES-ROTOR CLIP
CARBON STEEL RINGS (SAE 1060-1090)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TX	9-37(.010thick)	15N	84-86*
	all over .010	15N	84-86

TABLE 1: HARDNESS RANGES-ROTOR CLIP
STAINLESS STEEL RINGS (PH 15-7 MO)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TY	9-21,25-37	15N	82.5-86*
	24,43&over	15N	82.5-86

TABLE 2: HARDNESS RANGES-ROTOR CLIP
BERYLLIUM COPPER RINGS

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TY	9-21,25-37	15N	77-82*
	24,43&over	15N	77-82

TABLE 3: HARDNESS RANGES-ROTOR CLIP
CARBON STEEL RINGS (SAE 1060-1090)

RING	SIZE RANGE	SCALE	ROCKWELL HARDNESS
TY	9-21,25-37	15N	84-86*
	24,43&over	15N	84-86