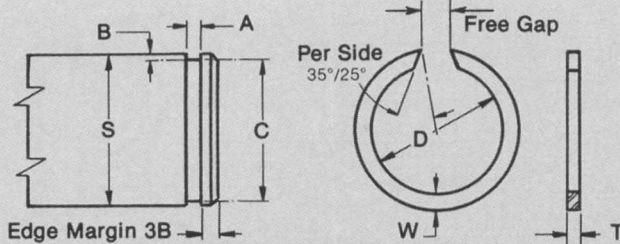


XAN Series External Retaining Rings for Shaft Applications



Enclosed head assembly tools available on sizes beginning with XAN 46. See assembly section for additional information.



Material Steel SAE 1060 to 1075 Hardness R/C42-53
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S Shaft Diameter or Bearing Bore			Part No.	Groove Dimensions			Ring Dimensions			Free Gap		Ring Thrust Capacity Lbs.				
Inches		MM		Diameter		Width A	Depth B Nom.	Free Diameter		Width W	Thick T±.002		Min.	Max.		
Dec.	Frac.	Equiv.		C	Tol.			D	Tol.							
.312	5/16	7.92	XAN31	.290	±.002	.028 +.003 −.000	.011	.281	+.000 −.015	.040 ±.003	.025	.031	.156	180		
.344	11/32	8.74	XAN34	.322				.312						190		
.354	—	8.99	XAN35	.330				.320						210		
.375	3/8	9.53	XAN37	.351			.012	.341	230							
.393	—	9.98	XAN39	.369				.359	260							
.406	13/32	10.31	XAN40	.382				.372	280							
.438	7/16	11.13	XAN43	.412		.013	.402	300								
.469	15/32	11.91	XAN46	.443			.433	320								
.500	1/2	12.70	XAN50	.474			.464	+.000 −.025	.048 ±.003	.035	.062	.218	460			
.551	—	14.00	XAN55	.524		.514	480									
.562	9/16	14.27	XAN56	.534		.524	490									
.594	19/32	15.09	XAN59	.566		.014	.555		+.000 −.025				.062 ±.003	.093	.250	510
.625	5/8	15.88	XAN62	.597			.586									520
.669	—	17.00	XAN66	.640			.630									570
.688	11/16	17.48	XAN68	.656		.046 +.003 −.000	.016	.062 ±.003	.042	.156	.312	700				
.750	3/4	19.05	XAN75	.716								.017	.703			820
.781	25/32	19.84	XAN78	.745								.018	.733			950
.812	13/16	20.62	XAN81	.776			.764						1010			
.875	7/8	22.23	XAN87	.835	.020		.820						+.000 −.031	.078 ±.003	.093	.250
.938	15/16	23.83	XAN93	.896	.021		.881					1130				
.984	63/64	25.00	XAN98	.940	.022	.925	1170									
1.000	1	25.40	XAN100	.956		.023	.941	.093 ±.003	.050	.156	.312	1200				
1.023		25.98	XAN102	.977			.962					1300				
1.062	11/16	26.97	XAN106	1.016	1.000		1600									
1.125	1 1/8	28.58	XAN112	1.075	.056 +.004 −.000	.025	1.060	.109 ±.003				.062	.156	.375	1880	
1.188	13/16	30.18	XAN118	1.136		.026	1.121								1990	
1.250	1 1/4	31.75	XAN125	1.194		.028	1.179								2090	
1.312	15/16	33.32	XAN131	1.250		.031	1.232		2100							
1.375	13/8	34.93	XAN137	1.309		.033	1.291		2300							
1.438	17/16	36.53	XAN143	1.370		.034	1.351		2460							
1.500	1 1/2	38.10	XAN150	1.430	±.004	.068 +.004 −.000	.035	1.408	+.000 −.046	.125 ±.005	.062	.156	.375	2500		
1.562	19/16	39.67	XAN156	1.490			.036	1.467						3060		
1.625	15/8	41.28	XAN162	1.551			.037	1.527						3190		
1.687	1 11/16	42.85	XAN168	1.611			.038	1.581						3370		
1.750	13/4	44.45	XAN175	1.670			.040	1.640						3510		
1.771		44.98	XAN177	1.687			.042	1.657						3550		
1.812	1 13/16	46.02	XAN181	1.728		.042	1.698	3640								
1.875	17/8	47.63	XAN187	1.789		.043	1.759	3760								

XAN Series External Retaining Rings for Shaft Applications (cont'd.)

S Shaft Diameter or Bearing Bore			Part No.	Groove Dimensions				Ring Dimensions				Free Gap		Ring Thrust Capacity Lbs.					
Inches		MM		Diameter		Width A	Depth B Nom.	Free Diameter		Width W	Thick T±.002	Min.	Max.						
Dec.	Frac.	Equiv.		C	Tol.			D	Tol.										
1.969	13 ¹ / ₃₂	48.99	XAN196	1.879	±.006	.068 +.004 -.000	.045	1.849	+.000 -.046	.156 ±.005	.062	.156	.375	3940					
2.000	2	50.80	XAN200	1.910			.045	1.880						4010					
2.062	2 ¹ / ₁₆	52.37	XAN206	1.966			.048	1.936						5350					
2.125	2 ¹ / ₈	53.98	XAN212	2.027			.049	1.997						5470					
2.156	2 ⁵ / ₃₂	54.76	XAN215	2.056			.050	2.026						5680					
2.250	2 ¹ / ₄	57.15	XAN225	2.146			.052	2.116						5790					
2.312	2 ⁵ / ₁₆	58.72	XAN231	2.204			.054	2.174		6300									
2.375	2 ³ / ₈	60.33	XAN237	2.265			.055	2.235		6400									
2.437	2 ⁷ / ₁₆	61.90	XAN243	2.325			.056	2.295		6500									
2.500	2 ¹ / ₂	63.50	XAN250	2.386			.057	2.356		6600									
2.559		65.00	XAN255	2.443			.058	2.413		6700									
2.625	2 ⁵ / ₈	66.68	XAN262	2.505			.060	2.475		6800									
2.687	2 ¹¹ / ₁₆	68.25	XAN268	2.565		.061	2.535	6900											
2.750	2 ³ / ₄	69.85	XAN275	2.624		.103 +.005 -.000	.063	2.594	+.000 -.062	.218 ±.005	.093	.187	.437	8460					
2.875	2 ⁷ / ₈	73.03	XAN287	2.743			.066	2.713						8840					
2.937	2 ¹⁵ / ₁₆	74.60	XAN293	2.801			.068	2.771						9030					
3.000	3	76.20	XAN300	2.860			.070	2.830						9230					
3.062	3 ¹ / ₁₆	77.77	XAN306	2.920			.071	2.890						9420					
3.125	3 ¹ / ₈	79.38	XAN312	2.981			.072	2.951						9630					
3.156	3 ⁵ / ₃₂	80.16	XAN315	3.010			.073	2.980		9800									
3.250	3 ¹ / ₄	82.55	XAN325	3.100			.075	3.070		10000									
3.344	3 ¹¹ / ₃₂	84.94	XAN334	3.190			.077	3.160		10290									
3.437	3 ⁷ / ₁₆	87.30	XAN343	3.281			.078	3.251		10570									
3.500	3 ¹ / ₂	88.90	XAN350	3.340			.120 +.005 -.000	.080		3.305				+.000 -.078	.250 ±.005	.109	.250	.562	11970
3.543		90.00	XAN354	3.381				.081		3.346									12120
3.625	3 ⁵ / ₈	92.08	XAN362	3.458		.083		3.423	12300										
3.687	3 ¹¹ / ₁₆	93.65	XAN368	3.517		.085		3.482	12600										
3.750	3 ³ / ₄	95.25	XAN375	3.576		.087		3.541	12800										
3.875	3 ⁷ / ₈	98.43	XAN387	3.697		.089		3.657	13200										
3.938	3 ¹⁵ / ₁₆	100.02	XAN393	3.758		.090		3.713	13470										
4.000	4	101.60	XAN400	3.816		.092		3.771	+.000 -.093	.281 ±.005	.250	.656	13650						
4.250	4 ¹ / ₄	107.95	XAN425	4.066				4.016					15000						
4.375	4 ³ / ₈	111.13	XAN437	4.191				4.141					15500						
4.500	4 ¹ / ₂	114.30	XAN450	4.310				.095		4.255			16200						
4.750	4 ³ / ₄	120.65	XAN475	4.550				.100		4.495			16480						
5.000	5	127.00	XAN500	4.790			.105	4.730		17110									
5.250	5 ¹ / ₄	133.35	XAN525	5.030		.139 +.006 -.000	.110	4.970	+.000 -.125	.375 ±.005			.125	.250	.750	20590			
5.500	5 ¹ / ₂	139.70	XAN550	5.266			.117	5.206								21790			
5.750	5 ³ / ₄	146.05	XAN575	5.506			.122	5.446								23010			
5.900		149.86	XAN590	5.656				5.600								23625			
6.000	6	152.40	XAN600	5.746	.127		5.687	24000											
6.250	6 ¹ / ₄	158.75	XAN625	5.986	±.008		.174 +.008 -.000	.132								5.916	+.000 -.125	.437 ±.005	.156
6.500	6 ¹ / ₂	165.10	XAN650	6.226		.137		6.151	33760										
6.750	6 ³ / ₄	171.45	XAN675	6.466		.142		6.386	36840										
7.000	7	177.80	XAN700	6.706		.147		6.621	39920										
7.250	7 ¹ / ₄	184.15	XAN725	6.930		.209 +.008 -.000	.160	6.840	+.000 -.156	.500 ±.005	.187	.250	.875	43100					
7.500	7 ¹ / ₂	190.50	XAN750	7.180				7.090						44500					
8.000	8	203.20	XAN800	7.660				.170						7.560	45500				
8.500	8 ¹ / ₂	215.90	XAN850	8.160										8.050	46700				
9.000	9	228.60	XAN900	8.660			8.545							49900					
9.250	9 ¹ / ₄	234.95	XAN925	8.910			8.800							51000					
9.500	9 ¹ / ₂	241.30	XAN950	9.160			9.040	52590											
10.000	10	254.00	XAN1000	9.660				9.535						55600					

The dimensions of the above parts are envelope dimensions only. For complete design information, please request a drawing from the Ring Masters' Engineering Department.