



Kurv-Bak™

Hard Rubber Back-up Rings





Kurv-Bak™

Hard Rubber
Back-up Rings



Back-up Rings are used for one of two purposes. Higher pressures may be sealed by using back-up rings with standard, or tightened, manufacturing tolerances. Alternately, tolerances may be loosened in low pressure applications by using back-ups. Kurv-Bak™ back-up rings may be used in static and dynamic sealing applications.

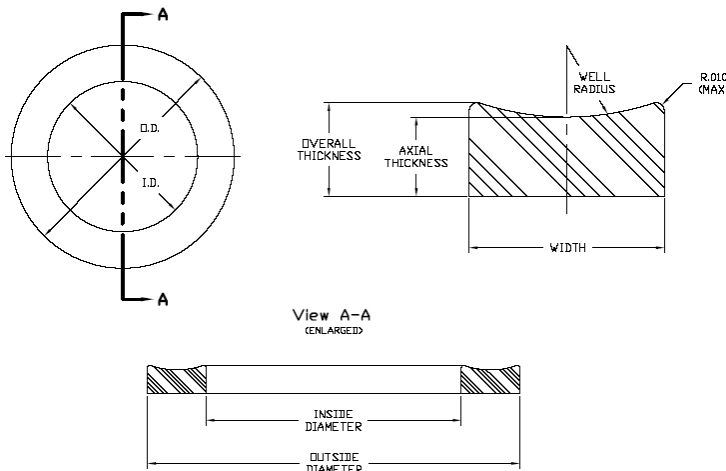
Precision Associates' hard rubber molded contoured Back-Ups are routinely produced in our 90 durometer Nitrile Compound 5939. This provides sufficient elasticity to permit stretching over the major diameter of a piston and then snap back into the gland of the piston. Compound 5939 has sufficient hardness to resist extrusion of the softer elastomeric O-Ring performing the actual sealing function. You can order Kurv-Baks™ in special materials too! We regularly mold them in Fluoroelastomer, EPDM, Aflas® & HNBR.

Many customary standard sizes are available. Also, subject to reasonable lead-time for the necessary mold construction, we can manufacture many other additional sizes to meet your needs.

The tables on the following pages contain sizes on which we are already tooled. Numbers to the right of the hyphen correspond to AS-568 O-Ring dash numbers. Please contact us for additional sizes.

Kurv-Bak™ Design Dimensions

Series	Nominal Size	Well Radius	Overall Thickness	Axial Thickness	Width
888-0XX	1/16	.087 ± .010	.049	.045 ±.003	.053 ±.003
888-1XX	3/32	.129 ± .010	.053	.045 ±.003	.086 ±.003
888-2XX	1/8	.174 ± .010	.050	.040 ±.003	.118 ±.004
888-3XX	3/16	.262 ± .010	.076	.060 ±.004	.183 ±.005
888-4XX	1/4	.334 ± .010	.117	.096 ±.005	.236 ±.006





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1/16" Nominal Cross Section

Size	Nominal		Actual (Ref)	
	ID	OD	I.D.	O.D
888-005	7/64	7/64	.127 ±.005	.233
888-006	1/8	1/8	.140	.246
888-007	5/32	5/32	.171	.277
888-008	3/16	3/16	.202	.308
888-009	7/32	7/32	.234	.340
888-010	1/4	1/4	.265	.371
888-011	5/16	5/16	.327	.433
888-012	3/8	3/8	.390	.496
888-013	7/16	7/16	.455	.561
888-014	1/2	1/2	.518	.624
888-015	9/16	9/16	.580 ±.007	.686
888-016	5/8	5/8	.643 ±.009	.749
888-017	11/16	11/16	.705	.811
888-018	3/4	3/4	.768	.874
888-019	13/16	13/16	.830	.936
888-020	7/8	7/8	.893	.999
888-021	15/16	15/16	.955	1.061
888-022	1	1 1/8	1.018 ±.010	1.124
888-023	1 1/16	1 3/16	1.080	1.186
888-024	1 1/8	1 1/4	1.143	1.249
888-025	1 3/16	1 5/16	1.205	1.311
888-026	1 1/4	1 3/8	1.268	1.374
888-027	1 5/16	1 7/16	1.330	1.436
888-028	1 3/8	1 1/2	1.393 ±.013	1.499
888-029	1 1/2	1 5/8	1.518	1.624
888-030	1 5/8	1 3/4	1.643	1.749
888-031	1 3/4	1 7/8	1.768 ±.015	1.874
888-032	1 7/8	2	1.893	1.999
888-033	2	2 1/8	2.018 ±.018	2.124
888-034	2 1/8	2 1/4	2.143	2.249
888-035	2 1/4	2 3/8	2.268	2.374
888-036	2 3/8	2 1/2	2.393	2.499
888-037	2 1/2	2 5/8	2.518	2.624
888-038	2 5/8	2 3/4	2.643 ±.020	2.749
888-039	2 3/4	2 7/8	2.768	2.874
888-040	2 7/8	3	2.893	2.999
888-041	3	3 1/8	3.018 ±.024	3.124
888-042	3 1/4	3 3/8	3.268	3.374
888-047	4 1/2	4 5/8	4.518 ±.030	4.624
888-050	5 1/4	5 3/8	5.268 ±.037	5.374

Please contact Precision Associates for sizes not listed.

Precision Associates, Inc.
740 N. Washington Ave.
Minneapolis, MN 55401

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www.PrecisionAssoc.com



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3/32" Nominal Cross Section

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-103	3/32	9/32	.109 ±.005	.281
888-104	1/8	5/16	.140	.312
888-106	3/16	3/8	.202	.374
888-107	7/32	13/32	.234	.406
888-108	1/4	7/16	.265	.437
888-109	5/16	1/2	.327	.499
888-110	3/8	9/16	.390	.562
888-111	7/16	5/8	.452	.624
888-112	1/2	11/16	.515 ±.007	.687
888-113	9/16	3/4	.577	.749
888-114	5/8	13/16	.640	.812
888-115	11/16	7/8	.702 ±.010	.874
888-116	3/4	15/16	.765	.937
888-117	13/16	1	.831	1.003
888-118	7/8	1 1/16	.893	1.065
888-119	15/16	1 1/8	.956	1.128
888-120	1	1 3/16	1.018	1.190
888-121	1 1/16	1 1/4	1.081	1.253
888-122	1 1/8	1 5/16	1.143 ±.012	1.315
888-123	1 3/16	1 3/8	1.206	1.378
888-124	1 1/4	1 7/16	1.268	1.440
888-125	1 5/16	1 1/2	1.331	1.503
888-126	1 3/8	1 9/16	1.393	1.565
888-127	1 7/16	1 5/8	1.456	1.628
888-128	1 1/2	1 11/16	1.518 ±.015	1.690
888-129	1 9/16	1 3/4	1.581	1.753
888-130	1 5/8	1 13/16	1.643	1.815
888-131	1 11/16	1 7/8	1.706	1.878
888-132	1 3/4	1 15/16	1.768	1.940
888-133	1 13/16	2	1.831	2.003
888-134	1 7/8	2 1/16	1.893	2.065
888-135	1 15/16	2 1/8	1.956 ±.018	2.128

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-136	1	2 3/16	2.018 ±.018	2.190
888-137	2 1/16	2 1/4	2.081	2.253
888-138	2 1/8	2 5/16	2.143	2.315
888-139	2 3/16	2 3/8	2.206 ±.020	2.378
888-140	2 1/4	2 7/16	2.268	2.440
888-141	2 5/16	2 1/2	2.331	2.503
888-142	2 3/8	2 9/16	2.393	2.565
888-143	2 7/16	2 5/8	2.456	2.628
888-144	2 1/2	2 11/16	2.518	2.690
888-145	2 9/16	2 3/4	2.581	2.753
888-146	2 5/8	2 13/16	2.643	2.815
888-147	2 11/16	2 7/8	2.706 ±.024	2.878
888-148	2 3/4	2 15/16	2.768	2.940
888-149	2 13/16	3	2.831	3.003
888-150	2 7/8	3 1/16	2.893	3.065
888-151	3	3 3/16	3.018	3.190
888-152	3 1/4	3 7/16	3.268	3.440
888-153	3 1/2	3 11/16	3.518	3.690
888-154	3 3/4	3 15/16	3.768 ±.028	3.940
888-155	4	4 3/16	4.018	4.190
888-156	4 1/4	4 7/16	4.268 ±.030	4.440
888-157	4 1/2	4 11/16	4.518	4.690
888-158	4 3/4	4 15/16	4.768	4.940
888-159	5	5 3/16	5.018 ±.037	5.190
888-161	5 1/4	5 7/16	5.518	5.690
888-162	5 1/2	5 15/16	5.768	5.940
888-163	6	6 3/16	6.018	6.190
888-164	6 1/4	6 7/16	6.268 ±.040	6.440
888-166	6 3/4	6 15/16	6.768	6.940
888-167	7	7 3/16	7.018	7.190
888-168	7 1/4	7 7/16	7.268 ±.045	7.440

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1/8" Nominal Cross Section

Size	Nominal		Actual (Ref)	
	ID	OD	I.D.	O.D
888-201	3/16	7/16	.202 ±.005	.438
888-202	1/4	1/2	.265	.501
888-203	5/16	9/16	.327	.563
888-204	3/8	5/8	.390	.626
888-205	7/16	11/16	.455	.691
888-206	1/2	3/4	.518	.754
888-207	9/16	13/16	.580 ±.007	.816
888-208	5/8	7/8	.643 ±.009	.879
888-209	11/16	15/16	.705	.941
888-210	3/4	1	.766 ±.010	1.002
888-211	13/16	1 1/16	.828	1.064
888-212	7/8	1 1/8	.891	1.127
888-213	15/16	1 3/16	.953	1.189
888-214	1	1 1/4	1.016	1.252
888-215	1 1/16	1 5/16	1.078	1.314
888-216	1 1/8	1 3/8	1.141 ±.012	1.377
888-217	1 3/16	1 7/16	1.203	1.439
888-218	1 1/4	1 1/2	1.266	1.502
888-219	1 5/16	1 9/16	1.334	1.570
888-220	1 3/8	1 5/8	1.397	1.633
888-221	1 7/16	1 11/16	1.459	1.695
888-222	1 1/2	1 3/4	1.522 ±.015	1.758
888-223	1 5/8	1 7/8	1.647	1.883
888-224	1 3/4	2	1.772	2.008
888-225	1 7/8	2 1/8	1.897 ±.018	2.133
888-226	2	2 1/4	2.022	2.258
888-227	2 1/8	2 3/8	2.147	2.383
888-228	2 1/4	2 1/2	2.272 ±.020	2.508
888-229	2 3/8	2 5/8	2.397	2.633
888-230	2 1/2	2 3/4	2.522	2.758
888-231	2 5/8	2 7/8	2.631	2.867
888-232	2 3/4	3	2.756 ±.024	2.992
888-233	2 7/8	3 1/8	2.881	3.117
888-234	3	3 1/4	3.006	3.242
888-235	3 1/8	3 3/8	3.131	3.367
888-236	3 1/4	3 1/2	3.256	3.492
888-237	3 3/8	3 5/8	3.381	3.617
888-238	3 1/2	3 3/4	3.506	3.742
888-239	3 5/8	3 7/8	3.631 ±.028	3.867

Size	Nominal		Actual (Ref)	
	ID	OD	I.D.	O.D
888-240	3 3/4	4	3.756 ±.028	3.992
888-241	3 7/8	4 1/8	3.881	4.117
888-242	4	4 1/4	4.006	4.242
888-243	4 1/8	4 3/8	4.131	4.367
888-244	4 1/4	4 1/2	4.256 ±.030	4.492
888-245	4 3/8	4 5/8	4.381	4.617
888-246	4 1/2	4 3/4	4.506	4.742
888-247	4 5/8	4 7/8	4.631	4.867
888-248	4 3/4	5	4.768	5.004
888-249	4 7/8	5 1/8	4.893 ±.035	5.129
888-250	5	5 1/4	5.018	5.254
888-251	5 1/8	5 3/8	5.143	5.379
888-252	5 1/4	5 1/2	5.268	5.504
888-253	5 3/8	5 5/8	5.393	5.629
888-254	5 1/2	5 3/4	5.518	5.754
888-255	5 5/8	5 7/8	5.643	5.879
888-256	5 3/4	6	5.768	6.004
888-257	5 7/8	6 1/8	5.893	6.129
888-258	6	6 1/4	6.018	6.254
888-259	6 1/4	6 1/2	6.268 ±.040	6.504
888-260	6 1/2	6 3/4	6.518	6.754
888-261	6 3/4	7	6.768	7.004
888-262	7	7 1/4	7.018	7.254
888-263	7 1/4	7 1/2	7.268 ±.045	7.504
888-264	7 1/2	7 3/4	7.518	7.754
888-265	7 3/4	8	7.768	8.004
888-266	8	8 1/4	8.018	8.254
888-267	8 1/4	8 1/2	8.268 ±.050	8.504
888-268	8 1/2	8 3/4	8.518	8.754
888-269	8 3/4	9	8.768	9.004
888-271	9 1/4	9 1/2	9.268 ±.055	9.504
888-272	9 1/2	9 3/4	9.518	9.754
888-273	9 3/4	10	9.768	10.004
888-274	10	10 1/4	10.018	10.254
888-275	10 1/2	10 3/4	10.518	10.754
888-276	11	11 1/4	11.018 ±.065	11.254
888-278	12	12 1/2	12.018	12.254
888-279	13	13 1/2	13.018	13.254
888-281	15	15 1/2	15.018 ±.070	15.254

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3/16" Nominal Cross Section

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-310	1/2	7/8	.513 ±.005	.879
888-312	5/8	1	.638 ±.009	1.004
888-314	3/4	1 1/8	.763 ±.010	1.129
888-315	13/16	1 3/16	.825	1.191
888-316	7/8	1 1/2	.888	1.254
888-317	15/16	1 5/16	.950	1.316
888-318	1	1 3/8	1.013	1.379
888-319	1 1/16	1 7/16	1.075	1.441
888-320	1 1/8	1 1/2	1.138 ±.012	1.504
888-321	1 3/16	1 9/16	1.200	1.566
888-322	1 1/4	1 5/8	1.263	1.629
888-323	1 5/16	1 11/16	1.316	1.682
888-324	1 3/8	1 3/4	1.388	1.754
888-325	1 1/2	1 7/8	1.513 ±.015	1.879
888-326	1 5/8	2	1.638	2.004
888-327	1 3/4	2 1/8	1.763	2.129
888-328	1 7/8	2 1/4	1.888	2.254
888-329	2	2 3/8	2.013	2.379
888-330	2 1/8	2 1/2	2.138	2.504
888-331	2 1/4	2 5/8	2.268	2.634
888-332	2 3/8	2 3/4	2.393	2.759
888-333	2 1/2	2 7/8	2.518 ±.020	2.884
888-334	2 5/8	3	2.643	3.009
888-335	2 3/4	3 1/8	2.768	3.134
888-336	2 7/8	3 1/4	2.893	3.259
888-337	3	3 3/8	3.018 ±.024	3.384
888-338	3 1/8	3 1/2	3.143	3.509
888-339	3 1/4	3 5/8	3.273	3.639
888-340	3 3/8	3 3/4	3.398	3.764
888-341	3 1/2	3 7/8	3.523	3.889
888-342	3 5/8	4	3.648 ±.028	4.014
888-343	3 3/4	4 1/8	3.773	4.139
888-344	3 7/8	4 1/4	3.898	4.264
888-345	4	4 3/8	4.028	4.394

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-346	4 1/8	4 1/2	4.153 ±.028	4.519
888-347	4 1/4	4 5/8	4.278 ±.030	4.644
888-348	4 3/8	4 3/4	4.403	4.769
888-349	4 1/2	4 7/8	4.528	4.894
888-350	4 5/8	5	4.653	5.019
888-351	4 3/4	5 1/8	4.778	5.144
888-352	4 7/8	5 1/4	4.903 ±.037	5.269
888-353	5	5 3/8	5.028	5.394
888-354	5 1/8	5 1/2	5.153	5.519
888-355	5 1/4	5 5/8	5.278	5.644
888-356	5 3/8	5 3/4	5.403	5.769
888-357	5 1/2	5 7/8	5.528	5.894
888-358	5 5/8	6	5.653	6.019
888-359	5 3/4	6 1/8	5.778	6.144
888-360	5 7/8	6 1/4	5.903	6.269
888-361	6	6 3/8	6.028	6.394
888-362	6 1/4	6 5/8	6.278 ±.040	6.644
888-363	6 1/2	6 7/8	6.528	6.894
888-364	6 3/4	7 1/8	6.778	7.144
888-365	7	7 3/8	7.028	7.394
888-367	7 1/2	7 7/8	7.528 ±.045	7.894
888-368	7 3/4	8 1/8	7.778	8.144
888-369	8	8 3/8	8.028	8.394
888-370	8 1/4	8 5/8	8.278 ±.050	8.644
888-371	8 1/2	8 7/8	8.528	8.894
888-372	8 3/4	9 1/8	8.778	9.145
888-374	9 1/4	9 5/8	9.278 ±.055	9.644
888-379	11	11 3/8	11.028 ±.060	11.394
888-380	11 1/2	11 7/8	11.528 ±.065	11.894
888-382	13	13 3/8	13.028	13.394
888-383	14	14 3/8	14.028 ±.070	14.341
888-384	15	15 3/8	15.028	15.394
888-385	16	16 3/8	16.008	16.374
888-392	23	23 3/8	22.993 ±.105	23.359

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1/4" Nominal Cross Section

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-402	1 5/8	2 1/8	1.659 ±.015	2.131
888-403	1 3/4	2 1/4	1.784	2.256
888-404	1 7/8	2 3/8	1.909	2.381
888-405	2	2 1/2	2.034 ±.018	2.506
888-409	2 1/2	3	2.534 ±.020	3.006
888-413	3	3 1/2	3.034 ±.024	3.506
888-415	3 1/4	3 3/4	3.294	3.766
888-417	3 1/2	4	3.544	4.016
888-421	4	4 1/2	4.044 ±.028	4.516
888-422	4 1/8	4 5/8	4.169	4.641
888-423	4 1/4	4 3/4	4.294 ±.030	4.766
888-424	4 3/8	4 7/8	4.419	4.891
888-425	4 1/2	5	4.551 ±.033	5.023
888-426	4 5/8	5 1/8	4.676	5.148
888-427	4 3/4	5 1/4	4.801	5.273
888-428	4 7/8	5 3/8	4.926	5.398
888-429	5	5 1/2	5.051 ±.037	5.523
888-430	5 1/8	5 5/8	5.176	5.648
888-431	5 1/4	5 3/4	5.301	5.773
888-432	5 3/8	5 7/8	5.426	5.898
888-433	5 1/2	6	5.551	6.023
888-434	5 5/8	6 1/8	5.676	6.148
888-435	5 3/4	6 1/4	5.801	6.273
888-436	5 7/8	6 3/8	5.926	6.398
888-437	6	6 1/2	6.051	6.523
888-438	6 1/4	6 3/4	6.274 ±.040	6.746
888-439	6 1/2	7	6.524	6.996
888-440	6 3/4	7 1/4	6.774	7.246
888-441	7	7 1/2	7.024	7.496
888-442	7 1/4	7 3/4	7.274 ±.045	7.746

Size	Nominal		Actual I.D.	(Ref) O.D
	ID	OD		
888-443	7 1/2	8	7.524 ±.045	7.996
888-444	7 3/4	8 1/4	7.774	8.246
888-445	8	8 1/2	8.024	8.496
888-446	8 1/2	9	8.524 ±.055	8.996
888-447	9	9 1/2	9.024	9.496
888-448	9 1/2	10	9.524	9.996
888-449	10	10 1/2	10.024	10.496
888-450	10 1/2	11	10.524 ±.060	10.996
888-451	11	11 1/2	11.024	11.496
888-452	11 1/2	12	11.524	11.996
888-453	12	12 1/2	12.024	12.496
888-454	12 1/2	13	12.524	12.996
888-455	13	13 1/2	13.024	13.496
888-456	13 1/2	14	13.524 ±.070	13.996
888-457	14	14 1/2	14.024	14.496
888-458	14 1/2	15	14.524	14.996
888-459	15	15 1/2	15.024	15.496
888-460	15 1/2	16	15.524	15.996
888-461	16	16 1/2	16.004 ±.075	16.476
888-462	16 1/2	17	16.504	16.976
888-463	17	17 1/2	17.004 ±.080	17.476
888-464	17 1/2	18	17.504 ±.085	17.976
888-465	18	18 1/2	18.004	18.476
888-466	18 1/2	19	18.504	18.976
888-467	19	19 1/2	19.004 ±.090	19.476
888-468	19 1/2	20	19.504	19.976
888-469	20	20 1/2	20.004	20.476
888-470	21	21 1/2	21.004	21.476
888-471	22	22 1/2	22.004 ±.100	22.476

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