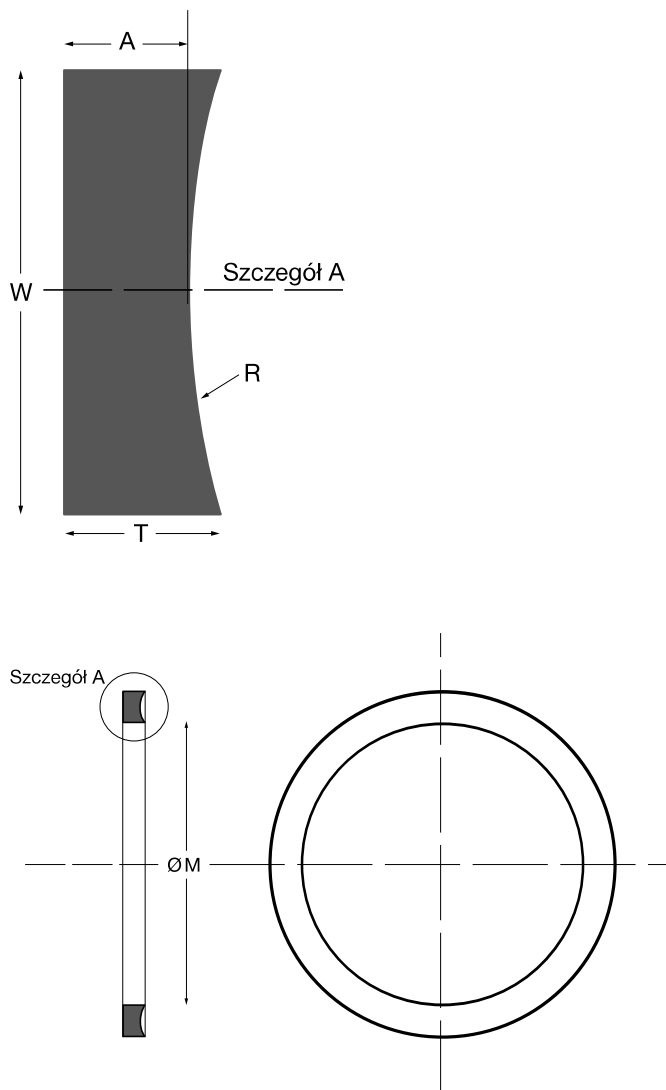


Parbak® Back-up ring

Parbak® Back-up rings prevent extrusion in high-pressure applications, help to maintain the lubricant film and thus prolong the service life of O-rings.

Developed primarily for service in hydraulic fluids at $-40\text{ }^{\circ}\text{C}$ to $120\text{ }^{\circ}\text{C}$, Parker's standard Parbak® N0300-90 compound provide the maximum benefits in back-up ring service. Compounds for use in other fluids and for temperatures up to $200\text{ }^{\circ}\text{C}$ are available on request. Parbaks will stretch up to 50 %, and are quickly and easily installed. Advantages of the contour design are obtained regardless of how Parbaks are installed — they may be installed, toward or away from the O-ring.



Sizing charts – Parbak® back-up ring 8-xxx sizes

Parker No.	M (mm)	W ± 0.08 (mm)	Parker No.	M (mm)	W ± 0.08 (mm)	Parker No.	M (mm)	W ± 0.08 (mm)
8-004	2.44	1.35	8-103	2.77	2.18	8-151	76.66	2.18
8-005	3.23	1.35	8-104	3.56	2.18	8-152	83.01	2.18
8-006	3.56	1.35	8-105	4.34	2.18	8-153	89.36	2.18
8-007	4.34	1.35	8-106	5.13	2.18	8-154	95.71	2.18
8-008	5.13	1.35	8-107	5.94	2.18	8-155	102.06	2.18
8-009	5.94	1.35	8-108	6.73	2.18	8-156	108.41	2.18
8-010	6.73	1.35	8-109	8.31	2.18	8-157	114.76	2.18
8-011	8.31	1.35	8-110	9.91	2.18	8-158	121.11	2.18
8-012	9.91	1.35	8-111	11.48	2.18	8-159	127.46	2.18
8-013	11.56	1.35	8-112	13.08	2.18	8-160	133.81	2.18
8-014	13.16	1.35	8-113	14.66	2.18	8-161	140.16	2.18
8-015	14.73	1.35	8-114	16.26	2.18	8-162	146.51	2.18
8-016	16.33	1.35	8-115	17.83	2.18	8-163	152.86	2.18
8-017	17.91	1.35	8-116	19.43	2.18	8-164	159.21	2.18
8-018	19.51	1.35	8-117	21.11	2.18	8-165	165.56	2.18
8-019	21.08	1.35	8-118	22.68	2.18	8-166	171.91	2.18
8-020	22.68	1.35	8-119	24.28	2.18	8-167	178.26	2.18
8-021	24.26	1.35	8-120	25.86	2.18	8-168	184.61	2.18
8-022	25.86	1.35	8-121	27.46	2.18	8-169	190.96	2.18
8-023	27.43	1.35	8-122	29.03	2.18	8-170	197.31	2.18
8-024	29.03	1.35	8-123	30.63	2.18	8-171	203.66	2.18
8-025	30.61	1.35	8-124	32.21	2.18	8-172	210.01	2.18
8-026	32.21	1.35	8-125	33.81	2.18	8-173	216.36	2.18
8-027	33.78	1.35	8-126	35.38	2.18	8-174	222.71	2.18
8-028	35.38	1.35	8-127	36.98	2.18	8-175	229.06	2.18
8-029	38.56	1.35	8-128	38.56	2.18	8-176	235.41	2.18
8-030	41.73	1.35	8-129	40.16	2.18	8-177	241.76	2.18
8-031	44.91	1.35	8-130	41.73	2.18	8-178	248.11	2.18
8-032	48.08	1.35	8-131	43.33	2.18			
8-033	51.26	1.35	8-132	44.91	2.18			
8-034	54.43	1.35	8-133	46.51	2.18			
8-035	57.61	1.35	8-134	48.08	2.18			
8-036	60.78	1.35	8-135	49.68	2.18			
8-037	63.96	1.35	8-136	51.26	2.18			
8-038	67.13	1.35	8-137	52.86	2.18			
8-039	70.31	1.35	8-138	54.43	2.18			
8-040	73.48	1.35	8-139	56.03	2.18			
8-041	76.66	1.35	8-140	57.61	2.18			
8-042	83.01	1.35	8-141	59.21	2.18			
8-043	89.36	1.35	8-142	60.78	2.18			
8-044	95.71	1.35	8-143	62.38	2.18			
8-045	102.06	1.35	8-144	63.96	2.18			
8-046	108.41	1.35	8-145	65.56	2.18			
8-047	114.76	1.35	8-146	67.13	2.18			
8-048	121.11	1.35	8-147	68.73	2.18			
8-049	127.46	1.35	8-148	70.31	2.18			
8-050	133.81	1.35	8-149	71.91	2.18			
8-102	1.96	2.18	8-150	73.48	2.18			

Sizing charts – Parbak® back-up ring 8-xxx sizes

Parker No.	M (mm)	W ± 0.1 (mm)	Parker No.	M (mm)	W ± 0.1 (mm)	Parker No.	M (mm)	W ± 0.13 (mm)
8-201	5.13	3.00	8-249	124.28	3.00	8-309	11.43	4.65
8-202	6.73	3.00	8-250	127.46	3.00	8-310	13.03	4.65
8-203	8.30	3.00	8-251	130.63	3.00	8-311	14.60	4.65
8-204	9.90	3.00	8-252	133.81	3.00	8-312	16.20	4.65
8-205	11.56	3.00	8-253	136.98	3.00	8-313	17.78	4.65
8-206	13.16	3.00	8-254	140.16	3.00	8-314	19.38	4.65
8-207	14.73	3.00	8-255	143.33	3.00	8-315	20.96	4.65
8-208	16.33	3.00	8-256	146.51	3.00	8-316	22.56	4.65
8-209	17.90	3.00	8-257	149.68	3.00	8-317	24.13	4.65
8-210	19.46	3.00	8-258	152.86	3.00	8-318	25.73	4.65
8-211	21.03	3.00	8-259	159.21	3.00	8-319	27.31	4.65
8-212	22.63	3.00	8-260	165.56	3.00	8-320	28.91	4.65
8-213	24.21	3.00	8-261	171.91	3.00	8-321	30.42	4.65
8-214	25.81	3.00	8-262	178.26	3.00	8-322	32.08	4.65
8-215	27.38	3.00	8-263	184.61	3.00	8-323	33.43	4.65
8-216	28.98	3.00	8-264	190.96	3.00	8-324	35.26	4.65
8-217	30.56	3.00	8-265	197.31	3.00	8-325	38.43	4.65
8-218	32.16	3.00	8-266	203.66	3.00	8-326	41.61	4.65
8-219	33.88	3.00	8-267	210.01	3.00	8-327	44.78	4.65
8-220	35.48	3.00	8-268	216.36	3.00	8-328	47.96	4.65
8-221	37.06	3.00	8-269	222.71	3.00	8-329	51.13	4.65
8-222	38.66	3.00	8-270	229.06	3.00	8-330	54.31	4.65
8-223	41.83	3.00	8-271	235.41	3.00	8-331	57.61	4.65
8-224	45.01	3.00	8-272	241.76	3.00	8-332	60.78	4.65
8-225	48.18	3.00	8-273	248.11	3.00	8-333	63.96	4.65
8-226	51.36	3.00	8-274	254.46	3.00	8-334	67.13	4.65
8-227	54.53	3.00	8-275	267.16	3.00	8-335	70.31	4.65
8-228	57.71	3.00	8-276	279.86	3.00	8-336	73.48	4.65
8-229	60.88	3.00	8-277	292.56	3.00	8-337	76.66	4.65
8-230	64.06	3.00	8-278	305.26	3.00	8-338	79.83	4.65
8-231	66.83	3.00	8-279	330.66	3.00	8-339	83.13	4.65
8-232	70.00	3.00	8-280	356.05	3.00	8-340	86.31	4.65
8-233	73.18	3.00	8-281	381.46	3.00	8-341	89.48	4.65
8-234	76.35	3.00	8-282	406.12	3.00	8-342	92.66	4.65
8-235	79.53	3.00	8-283	431.52	3.00	8-343	95.83	4.65
8-236	82.70	3.00	8-284	456.92	3.00	8-344	99.01	4.65
8-237	85.88	3.00				8-345	102.31	4.65
8-238	89.05	3.00				8-346	105.49	4.65
8-239	92.23	3.00				8-347	108.66	4.65
8-240	95.40	3.00				8-348	111.84	4.65
8-241	98.58	3.00				8-349	115.01	4.65
8-242	101.75	3.00				8-350	118.19	4.65
8-243	104.93	3.00				8-351	121.36	4.65
8-244	108.10	3.00				8-352	124.54	4.65
8-245	111.28	3.00				8-353	127.71	4.65
8-246	114.45	3.00				8-354	130.89	4.65
8-247	117.63	3.00				8-355	134.09	4.65
8-248	121.11	3.00				8-356	137.24	4.65

Sizing charts – Parbak® back-up ring 8-xxx sizes

Parker No.	M (mm)	W ± 0.13 (mm)	Parker No.	M (mm)	W ± 0.15 (mm)	Parker No.	M (mm)	W ± 0.15 (mm)
8-357	140.41	4.65	8-425	115.60	5.99	8-473	609.70	5.99
8-358	143.59	4.65	8-426	118.77	5.99	8-474	635.10	5.99
8-359	146.76	4.65	8-427	121.95	5.99	8-475	660.50	5.99
8-360	149.94	4.65	8-428	125.20	5.99			
8-361	153.11	4.65	8-429	128.30	5.99			
8-362	159.46	4.65	8-430	131.47	5.99			
8-363	165.81	4.65	8-431	134.65	5.99			
8-364	172.16	4.65	8-432	137.82	5.99			
8-365	178.51	4.65	8-433	141.00	5.99			
8-366	184.86	4.65	8-434	144.17	5.99			
8-367	191.21	4.65	8-435	147.35	5.99			
8-368	197.56	4.65	8-436	150.52	5.99			
8-369	203.91	4.65	8-437	153.70	5.99			
8-370	210.26	4.65	8-438	159.36	5.99			
8-371	216.61	4.65	8-439	165.71	5.99			
8-372	222.96	4.65	8-440	172.06	5.99			
8-373	229.31	4.65	8-441	178.41	5.99			
8-374	235.66	4.65	8-442	184.76	5.99			
8-375	242.01	4.65	8-443	191.11	5.99			
8-376	248.36	4.65	8-444	197.46	5.99			
8-377	254.71	4.65	8-445	203.81	5.99			
8-378	267.41	4.65	8-446	216.51	5.99			
8-379	280.11	4.65	8-447	229.21	5.99			
8-380	292.81	4.65	8-448	241.91	5.99			
8-381	305.51	4.65	8-449	254.61	5.99			
8-382	330.91	4.65	8-450	267.31	5.99			
8-383	356.31	4.65	8-451	280.01	5.99			
8-384	381.71	4.65	8-452	292.71	5.99			
8-385	406.60	4.65	8-453	305.41	5.99			
8-386	432.00	4.65	8-454	318.11	5.99			
8-387	457.40	4.65	8-455	330.81	5.99			
8-388	482.75	4.65	8-456	343.51	5.99			
8-389	508.15	4.65	8-457	356.21	5.99			
8-390	533.55	4.65	8-458	368.91	5.99			
8-391	558.95	4.65	8-459	381.61	5.99			
8-392	584.02	4.65	8-460	394.31	5.99			
8-393	609.42	4.65	8-461	406.50	5.99			
8-394	634.82	4.65	8-462	419.20	5.99			
8-395	660.22	4.65	8-463	431.90	5.99			
			8-464	444.60	5.99			
			8-465	457.30	5.99			
			8-466	470.00	5.99			
			8-467	482.70	5.99			
			8-468	495.40	5.99			
			8-469	508.10	5.99			
			8-470	533.50	5.99			
			8-471	558.90	5.99			
			8-472	584.30	5.99			

Other dimensions			
Parker No.	R (mm)	T (mm)	A (mm)
004-050	2.21	1.24	1.14
102-178	3.28	1.35	1.14
201-284	4.42	1.27	1.02
309-395	6.65	1.93	1.52
425-475	8.74	2.97	2.44

Size tolerances	
Parker No.	M ±
004-009	0.15 mm
009-012	0.18 mm
012-019	0.23 mm
020-029	1.00 %
030-041	0.86 %
042-050	0.78 %
102-107	0.15 mm
108-110	0.18 mm
111-117	0.25 mm
118-128	1.10 %
129-151	0.95 %
152-164	0.78 %
165-178	0.74 %
201-204	0.18 mm
204-211	0.25 mm
212-227	1.10 %
228-235	0.90 %
236-259	0.78 %
260-277	0.74 %
278-284	0.67 %
309-315	0.25 mm
316-325	1.10 %
326-338	0.95 %
339-362	0.78 %
363-380	0.74 %
381-395	0.67 %
425-438	0.78 %
439-452	0.74 %
453-475	0.67 %

Size tolerances	
Parker No.	A ±
004-284	0.08 mm
309-325	0.10 mm
425-475	0.13 mm

Please note:

1. On ordering both size and compound should be stated e.g. 8-130, N300-90.
2. Parbak® size numbers correspond to O-rings in the 2-xxx series, e.g. 8-211, N 300-90 is fitted with the O-ring 2-211, N 674-70.