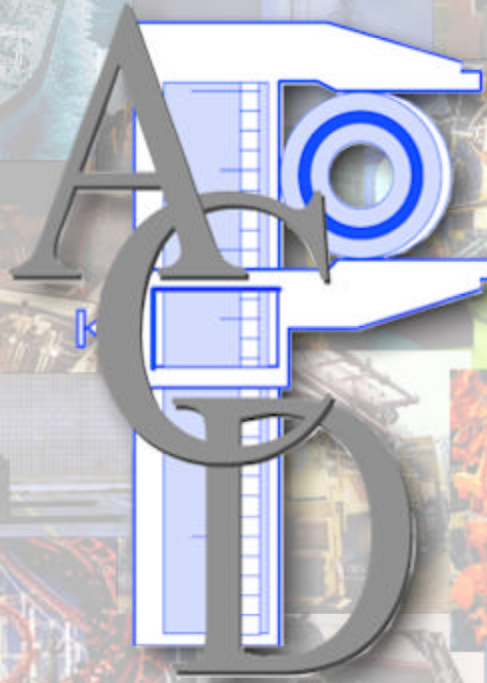


A.C. DePuydt, Inc.

Hydraulic Pneumatic Packing & Seals Standard Metric



Seal & Packing Guide

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We Accept



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U-Seals



Loaded U-Seal Standard Lip

Max Pressure: 5000 psi

Standard lip loaded U-seals are designed to be used in rod and piston seal applications. Available in square and deep sizes.

Materials Available: Molythane, Polymyte, Fluoromyte, Urethane, and Viton



Loaded U-Seal B-Lip

Max Pressure: 5000 psi

B-lip loaded U-seals are designed to be used in single acting rod and piston seal applications. The bevelled lip ensures constant sealing. Available in square and deep sizes.

Materials Available: Molythane, Polymyte, Fluoromyte, Urethane, and Viton



Type 605 Rod Seal

Max Pressure: 6000 psi

Type 605 U-seals are designed to be used as a dedicated rod seal. The twin lip design improves sealing, primary lip protection and stability.

Materials Available: Hythane



Type 606 Piston Seal

Max Pressure: 6000 psi

Type 606 U-seals are designed to be used as a dedicated piston seal. Ideal high performance seal for one piece or split pistons.

Materials Available: Hythane



Type 621 High Pressure

Max Pressure: 10,000 psi

Type 621 U-seals are designed to be used as a high pressure rod seal. This seal combines the performance of the twin lip design and an anti-extrusion ring for high pressure applications.

Materials Available: Hythane



Type CU Clear Urethane

Max Pressure: 5000 psi

Type CU U-seals are designed to be used in rod and piston seal applications. The bevelled lip design improves seal performance. The CU U-seal can be used in low and high pressure environments.

Materials Available: Garthane



UP Hydraulic U-Seal

Max Pressure: 5000 psi

Type UP U-seals are designed for general hydraulic sealing applications. Covering a large range of pressures, these seals can be filled with various energizer materials to improve performance.

Materials Available: Buna/Fabric, Urethane, and Leather



Type T18 Fluid Rod Seal

Max Pressure: 7500 psi

Type T18 U-seals are designed to be used as a dedicated fluid rod seal. Molded energizer provides a medium to heavy use seal.

Materials Available: Buna/Fabric



HU Homogeneous

Max Pressure: 800 psi

Type HU U-seals are designed for general pneumatic and very low pressure hydraulic sealing applications. A large variety of materials are available for various applications.

Materials Available: Buna, Viton, Silicone, EPR, and Teflon



O-Rings



OR
O-Ring

Max Pressure: varies

O-rings utilize a very basic design and are used in a wide variety of static and dynamic applications. Used as piston and rod seals, end seals, and belts.

Materials Available: Buna, Buna/90, Viton, Silicone, EPR, Neoprene, Urethane, and Teflon



QR
Quad Ring

Max Pressure: varies

Quad rings are designed to be used in similar applications as O-rings. The quad (4) lobe design allows for improved sealing, and reduces tendency to roll.

Materials Available: Buna, and Viton



SQR
Square Ring

Max Pressure: varies

Square rings utilize a basic square design, and much like O-rings, are used in a variety of applications.

Materials Available: Buna, Buna/90, and Viton



BUR
Solid

Max Pressure: n/a

Solid back-up rings are designed to be used with O-rings. They help prevent O-ring extrusion and stabilize the O-ring when used in higher pressure applications.

Materials Available: Buna/90, Teflon, and Urethane



BUR-ST
Single Turn

Max Pressure: n/a

Single turn back-up rings are designed to perform in the same applications as solid back-ups, but include a scarf (30° angle) cut.

Materials Available: Teflon



BUR-SP
Spiral Turn

Max Pressure: n/a

Spiral turn back-up rings are used in similar applications as the solid back-ups. They are also designed to be wound onto the piston shaft or piston head in some applications.

Materials Available: Teflon



OC
O-Cord

Max Pressure: n/a

O-cord material is a continuous extrusion with a circular cross section. O-cord is often used to make odd or large size O-rings.

Materials Available: Buna, Viton, Silicone, EPR, Teflon, and Urethane



SQC
Square Cord

Max Pressure: n/a

Square cord material is a continuous extrusion with a square cross section. Square cord is designed to be used in similar applications as O-cord.

Materials Available: Buna, and Viton

O-Ring Size Chart



OR-000 Series 1/16in cross-section/actual .070in

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-001*	1/32	3/32	-014	1/2	5/8	-027	1-5/16	1-7/16	-040	2-7/8	3
-002*	3/64	9/64	-015	9/16	11/16	-028	1-3/8	1-1/2	-041	3	3-1/8
-003*	1/16	3/16	-016	5/8	3/4	-029	1-1/2	1-5/8	-042	3-1/4	3-3/8
-004	5/64	13/64	-017	11/16	13/16	-030	1-5/8	1-3/4	-043	3-1/2	3-5/8
-005	3/32	7/32	-018	3/4	7/8	-031	1-3/4	1-7/8	-044	3-3/4	3-7/8
-006	1/8	1/4	-019	13/16	15/16	-032	1-7/8	2	-045	4	4-1/8
-007	5/32	9/32	-020	7/8	1	-033	2	2-1/8	-046	4-1/4	4-3/8
-008	3/16	5/16	-021	15/16	1-1/16	-034	2-1/8	2-1/4	-047	4-1/2	4-5/8
-009	7/32	11/32	-022	1	1-1/8	-035	2-1/4	2-3/8	-048	4-3/4	4-7/8
-010	1/4	3/8	-023	1-1/16	1-3/16	-036	2-3/8	2-1/2	-049	5	5-1/8
-011	5/16	7/16	-024	1-1/8	1-1/4	-037	2-1/2	2-5/8	-050	5-1/4	5-3/8
-012	3/8	1/2	-025	1-3/16	1-5/16	-038	2-5/8	2-3/4			
-013	7/16	9/16	-026	1-1/4	1-3/8	-039	2-3/4	2-7/8			

*Please note actual cross-section .040, .050, & .060in respectively

OR-100 Series 3/32in cross-section/actual .103in

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-102	1/16	1/4	-122	1-1/8	1-5/16	-142	2-3/8	2-9/16	-162	5-3/4	5-15/16
-103	3/32	9/32	-123	1-3/16	1-3/8	-143	2-7/16	2-5/8	-163	6	6-3/16
-104	1/8	5/16	-124	1-1/4	1-7/16	-144	2-1/2	2-11/16	-164	6-1/4	6-7/16
-105	5/32	11/32	-125	1-5/16	1-1/2	-145	2-9/16	2-3/4	-165	6-1/2	6-11/16
-106	3/16	3/8	-126	1-3/8	1-9/16	-146	2-5/8	2-13/16	-166	6-3/4	6-15/16
-107	7/32	13/32	-127	1-7/16	1-5/8	-147	2-11/16	2-7/8	-167	7	7-3/16
-108	1/4	7/16	-128	1-1/2	1-11/16	-148	2-3/4	2-15/16	-168	7-1/4	7-7/16
-109	5/16	1/2	-129	1-9/16	1-3/4	-149	2-13/16	3	-169	7-1/2	7-11/16
-110	3/8	9/16	-130	1-5/8	1-13/16	-150	2-7/8	3-1/16	-170	7-3/4	7-15/16
-111	7/16	5/8	-131	1-11/16	1-7/8	-151	3	3-3/16	-171	8	8-3/16
-112	1/2	11/16	-132	1-3/4	1-15/16	-152	3-1/4	3-7/16	-172	8-1/4	8-7/16
-113	9/16	3/4	-133	1-13/16	2	-153	3-1/2	3-11/16	-173	8-1/2	8-11/16
-114	5/8	13/16	-134	1-7/8	2-1/16	-154	3-3/4	3-15/16	-174	8-3/4	8-15/16
-115	11/16	7/8	-135	1-15/16	2-1/8	-155	4	4-3/16	-175	9	9-3/16
-116	3/4	15/16	-136	2	2-3/16	-156	4-1/4	4-7/16	-176	9-1/4	9-7/16
-117	13/16	1	-137	2-1/16	2-1/4	-157	4-1/2	4-11/16	-177	9-1/2	9-11/16
-118	7/8	1-1/16	-138	2-1/8	2-5/16	-158	4-3/4	4-15/16	-178	9-3/4	9-15/16
-119	15/16	1-1/8	-139	2-3/16	2-3/8	-159	5	5-3/16			
-120	1	1-3/16	-140	2-1/4	2-7/16	-160	5-1/4	5-7/16			
-121	1-1/16	1-1/4	-141	2-5/16	2-1/2	-161	5-1/2	5-11/16			

OR-200 Series 1/8in cross-section/actual .139in

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-201	3/16	7/16	-210	3/4	1	-219	1-5/16	1-9/16	-228	2-1/4	2-1/2
-202	1/4	1/2	-211	13/16	1-1/6	-220	1-3/8	1-5/8	-229	2-3/8	2-5/8
-203	5/16	9/16	-212	7/8	1-1/8	-221	1-7/16	1-11/16	-230	2-1/2	2-3/4
-204	3/8	5/8	-213	15/16	1-3/16	-222	1-1/2	1-3/4	-231	2-5/8	2-7/8
-205	7/16	11/16	-214	1	1-1/4	-223	1-5/8	1-7/8	-232	2-3/4	3
-206	1/2	3/4	-215	1-1/16	1-5/16	-224	1-3/4	2	-233	2-7/8	3-1/8
-207	9/16	13/16	-216	1-1/8	1-3/8	-225	1-7/8	2-1/8	-234	3	3-1/4
-208	5/8	7/8	-217	1-3/16	1-7/16	-226	2	2-1/4	-235	3-1/8	3-3/8
-209	11/16	15/16	-218	1-1/4	1-1/2	-227	2-1/8	2-3/8	-236	3-1/4	3-1/2



O-Ring Size Chart

OR-200 Series 1/8in cross-section/actual .139in continued

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-237	3-3/8	3-5/8	-249	4-7/8	5-1/8	-261	6-3/4	7	-273	9-3/4	10
-238	3-1/2	3-3/4	-250	5	5-1/4	-262	7	7-1/4	-274	10	10-1/4
-239	3-5/8	3-7/8	-251	5-1/8	5-3/8	-263	7-1/4	7-1/2	-275	10-1/2	10-3/4
-240	3-3/4	4	-252	5-1/4	5-1/2	-264	7-1/2	7-3/4	-276	11	11-1/4
-241	3-7/8	4-1/8	-253	5-3/8	5-5/8	-265	7-3/4	8	-277	11-1/2	11-3/4
-242	4	4-1/4	-254	5-1/2	5-3/4	-266	8	8-1/4	-278	12	12-1/4
-243	4-1/8	4-3/8	-255	5-5/8	5-7/8	-267	8-1/4	8-1/2	-279	13	13-1/4
-244	4-1/4	4-1/2	-256	5-3/4	6	-268	8-1/2	8-3/4	-280	14	14-1/4
-245	4-3/8	4-5/8	-257	5-7/8	6-1/8	-269	8-3/4	9	-281	15	15-1/4
-246	4-1/2	4-3/4	-258	6	6-1/4	-270	9	9-1/4	-282	16	16-1/4
-247	4-5/8	4-7/8	-259	6-1/4	6-1/2	-271	9-1/4	9-1/2	-283	17	17-1/4
-248	4-3/4	5	-260	6-1/2	6-3/4	-272	9-1/2	9-3/4	-284	18	18-1/4

OR-300 Series 3/16in cross-section/actual .210in

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-309	7/16	13/16	-331	2-1/4	2-5/8	-353	5	5-3/8	-375	9-1/2	9-7/8
-310	1/2	7/8	-332	2-3/8	2-3/4	-354	5-1/8	5-1/2	-376	9-3/4	10-1/8
-311	9/16	15/16	-333	2-1/2	2-7/8	-355	5-1/4	5-5/8	-377	10	10-3/8
-312	5/8	1	-334	2-5/8	3	-356	5-3/8	5-3/4	-378	10-1/2	10-7/8
-313	11/16	1-1/16	-335	2-3/4	3-1/8	-357	5-1/2	5-7/8	-379	11	11-3/8
-314	3/4	1-1/8	-336	2-7/8	3-1/4	-358	5-5/8	6	-380	11-1/2	11-7/8
-315	13/16	1-3/16	-337	3	3-3/8	-359	5-3/4	6-1/8	-381	12	12-3/8
-316	7/8	1-1/4	-338	3-1/8	3-1/2	-360	5-7/8	6-1/4	-382	13	13-3/8
-317	15/16	1-5/16	-339	3-1/4	3-5/8	-361	6	6-3/8	-383	14	14-3/8
-318	1	1-3/8	-340	3-3/8	3-3/4	-362	6-1/4	6-5/8	-384	15	15-3/8
-319	1-1/16	1-7/16	-341	3-1/2	3-7/8	-363	6-1/2	6-7/8	-385	16	16-3/8
-320	1-1/8	1-1/2	-342	3-5/8	4	-364	6-3/4	7-1/8	-386	17	17-3/8
-321	1-3/16	1-9/16	-343	3-3/4	4-1/8	-365	7	7-3/8	-387	18	18-3/8
-322	1-1/4	1-5/8	-344	3-7/8	4-1/4	-366	7-1/4	7-5/8	-388	19	19-3/8
-323	1-5/16	1-11/16	-345	4	4-3/8	-367	7-1/2	7-7/8	-389	20	20-3/8
-324	1-3/8	1-3/4	-346	4-1/8	4-1/2	-368	7-3/4	8-1/8	-390	21	21-3/8
-325	1-1/2	1-7/8	-347	4-1/4	4-5/8	-369	8	8-3/8	-391	22	22-3/8
-326	1-5/8	2	-348	4-3/8	4-3/4	-370	8-1/4	8-5/8	-392	23	23-3/8
-327	1-3/4	2-1/8	-349	4-1/2	4-7/8	-371	8-1/2	8-7/8	-393	24	24-3/8
-328	1-7/8	2-1/4	-350	4-5/8	5	-372	8-3/4	9-1/8	-394	25	25-3/8
-329	2	2-3/8	-351	4-3/4	5-1/8	-373	9	9-3/8	-395	26	26-3/8
-330	2-1/8	2-1/2	-352	4-7/8	5-1/4	-374	9-1/4	9-5/8			

OR-400 Series 1/4in cross-section/actual .275in

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-400	1-3/8	1-7/8	-408	2-3/8	2-7/8	-416	3-3/8	3-7/8	-424	4-3/8	4-7/8
-401	1-1/2	2	-409	2-1/2	3	-417	3-1/2	4	-425	4-1/2	5
-402	1-5/8	2-1/8	-410	2-5/8	3-1/8	-418	3-5/8	4-1/8	-426	4-5/8	5-1/8
-403	1-3/4	2-1/4	-411	2-3/4	3-1/4	-419	3-3/4	4-1/4	-427	4-3/4	5-1/4
-404	1-7/8	2-3/8	-412	2-7/8	3-3/8	-420	3-7/8	4-3/8	-428	4-7/8	5-3/8
-405	2	2-1/2	-413	3	3-1/2	-421	4	4-1/2	-429	5	5-1/2
-406	2-1/8	2-5/8	-414	3-1/8	3-5/8	-422	4-1/8	4-5/8	-430	5-1/8	5-5/8
-407	2-1/4	2-3/4	-415	3-1/4	3-3/4	-423	4-1/4	4-3/4	-431	5-1/4	5-3/4

O-Ring Size Chart



OR-400 Series 1/4in cross-section/actual .275in continued

Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD	Dash #	ID	OD
-432	5-3/8	5-7/8	-443	7-1/2	8	-454	12-1/2	13	-465	18	18-1/2
-433	5-1/2	6	-444	7-3/4	8-1/4	-455	13	13-1/2	-466	18-1/2	19
-434	5-5/8	6-1/8	-445	8	8-1/2	-456	13-1/2	14	-467	19	19-1/2
-435	5-3/4	6-1/4	-446	8-1/2	9	-457	14	14-1/2	-468	19-1/2	20
-436	5-7/8	6-3/8	-447	9	9-1/2	-458	14-1/2	15	-469	20	20-1/2
-437	6	6-1/2	-448	9-1/2	10	-459	15	15-1/2	-470	21	21-1/2
-438	6-1/4	6-3/4	-449	10	10-1/2	-460	15-1/2	16	-471	22	22-1/2
-439	6-1/2	7	-450	10-1/2	11	-461	16	16-1/2	-472	23	23-1/2
-440	6-3/4	7-1/4	-451	11	11-1/2	-462	16-1/2	17	-473	24	24-1/2
-441	7	7-1/2	-452	11-1/2	12	-463	17	17-1/2	-474	25	25-1/2
-442	7-1/4	7-3/4	-453	12	12-1/2	-464	17-1/2	18	-475	26	26-1/2

OR-900 Series Tube fitting O-rings

Dash #	Tube OD	ID actual	c/s actual	Dash #	Tube OD	ID actual	c/s actual
-901	3/32	.185	.056	-911	11/16	.863	.116
-902	1/8	.239	.064	-912	3/4	.924	.116
-903	3/16	.301	.064	-913	13/16	.986	.116
-904	1/4	.351	.072	-914	7/8	1.047	.116
-905	5/16	.414	.072	-916	1	1.171	.116
-906	3/8	.468	.078	-918	1-1/8	1.355	.116
-907	7/16	.530	.082	-920	1-1/4	1.475	.118
-908	1/2	.644	.087	-924	1-1/2	1.720	.118
-909	9/16	.706	.097	-928	1-3/4	2.090	.118
-910	5/8	.755	.097	-932	2	2.337	.118

Fractions & Decimals

Fraction	Decimal	Fraction	Decimal
1/64	.016	1/2	.500
1/32	.031	9/16	.562
1/16	.062	5/8	.625
1/8	.125	11/16	.687
3/16	.187	3/4	.750
1/4	.250	13/16	.812
5/16	.312	7/8	.875
3/8	.375	15/16	.937
7/16	.437	1	1.000

Standard Conversions & Formulas

Inch to Metric: 1in = 25.4mm

Cut Length: (ID + c/s) x 3.1416 = Cut Length in inches



Rod Wipers



D
D Wiper

Max Pressure: n/a

D wipers are classified as a snap-in style wiper. The D wiper also comes in a ribbed heel style. The ribbed heel prevents wiper inversion and increases wiper life. Slotted heel style also available.

Materials Available: Urethane, Viton, Hythane, and Polymyte



X
AN Wiper

Max Pressure: n/a

AN wipers are made to the Army/Navy Standard 6230 specifications. Their compact design allows them to be used as a snap-in wiper in applications where space is limited.

Materials Available: Buna, Urethane, Viton, and Brass



H
H Wiper

Max Pressure: 100 psi

H wipers, in a low pressure system are capable of providing both sealing and wiping functions. The wiper lip scrapes contaminants from the rod while the sealing lip provides low pressure rod sealing.

Materials Available: Urethane, and Viton



K
K Wiper

Max Pressure: n/a

K wipers are mainly designed to be used with rubber and fabric U-packing cups. Their Buna material is particularly suited for low to medium duty applications.

Materials Available: Buna, Buna/90, and Viton



BT
BT Wiper

Max Pressure: n/a

BT wipers are used to replace K wipers in applications where conditions may be more severe.

Materials Available: Urethane



HYC
Hyco® Wiper

Hyco is a registered trademark of Hyco International, Inc.

Max Pressure: n/a

Our HYC wipers are designed to be used in conjunction with our aftermarket Hyco repair kits. They are primarily used in Hyco cylinder applications.

Note: We do not imply that these parts are original equipment parts.

Materials Available: Urethane



CM
Commercial®

Commercial Intertech is a registered trademark of Parker Hannifin Corp.

Max Pressure: n/a

Our CM wipers are designed to be used in conjunction with our aftermarket Commercial repair kits. They are primarily used in Commercial Intertech cylinder applications.

Note: We do not imply that these parts are original equipment parts.

Materials Available: Urethane



C
Canned Wiper

Max Pressure: n/a

Canned wipers, also known as press-in wipers are composed of two sections, the polymer lip that does the wiping and the metal can section that improves stability. These wipers are designed to be used in cylinders seeing severe conditions; i.e. dirt & mud.

Materials Available: Urethane, and Buna



SG
Seal Guard

Max Pressure: n/a

Seal Guards are a three-piece wiper containing two brass wipers and one rubber energizer. Their design allows for easy installation and the brass wiper rings create very little friction.

These wipers are used in applications seeing severe conditions.

Materials Available: Brass with Buna or Viton energizer

Piston & Rod Seals



PS14
Square

Max Pressure: 8000 psi



CTP
Capped T Seal

Max Pressure: 6500 psi



PS18
Rectangular

Max Pressure: 8000 psi



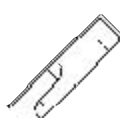
PS755
Type 755

Max Pressure: 5000 psi



TP
Piston T Seal

Max Pressure: 10,000 psi



PR
Piston Ring

Max Pressure: 10,000 psi



PSU
PSU Piston Seal

Max Pressure: 5000 psi



BFR
Rod Buffer Ring

Max Pressure: 5000 psi



TR
Rod T Seal

Max Pressure: 10,000 psi

PS14 square piston seals are two piece piston seals, combining a Teflon outer seal with an O-ring expander seal. This seal can be used in either hydraulic or pneumatic cylinders. *Materials Available: Glass filled and Bronze filled Teflon with Buna energizer*

The CTP style capped T seal is a compact, double acting, 4-piece piston seal assembly, designed to be used in low to high pressure and medium to heavy duty applications. *Materials Available: Bronze filled Teflon with Buna energizer and Thermoplastic split anti-extrusion rings*

PS18 rectangular piston seals are two piece piston seals, combining a Teflon outer seal with a square ring expander. PS18 can be used in hydraulic and pneumatic applications. *Materials Available: Glass filled and Bronze filled Teflon with Buna energizer*

PS755 rectangular piston seals are a two piece piston seal design, combining a urethane outer seal with a square ring expander. These seals are commonly used in low to medium pressure hydraulic applications. *Materials Available: Urethane with Buna energizer*

TP piston seals, also known as T seals are used to replace many different seals on double acting pistons. The T shaped Buna ring's design eliminates roll over and spiral failure, while the two anti-extrusion rings provide seal support. *Materials Available: Buna or Viton with Nylon or Teflon rings*

PR style piston rings are cast iron rings that are designed to be used in high pressure/ high temperature applications. Generally, multiple rings are used to seal double acting cylinders. The Endlap joint is the preferred style available. *Materials Available: Cast Iron, and Stainless Steel*

PSU piston seals are one piece, double acting piston seals that commonly replace various piston seals. OD oil groove(s) allows for better seal lubrication, while the ID functions as an energizer assuring seal performance in a variety of pressures. *Materials Available: Dual durometer Urethane*

BFR rod buffer rings are two piece seals designed to be used with a secondary rod seal. The rod buffer ring absorbs the pressure spikes, thus increasing the life of the secondary rod seal. *Materials Available: Bronze filled Teflon with Buna expander*

TR rod seals, also known as T seals are used to replace many different styles of rod seals. The T shaped Buna ring's design eliminates roll over and spiral failure, while the two anti-extrusion rings provide seal support. *Materials Available: Buna or Viton with Nylon or Teflon rings*



Oil Seals



OS
Single Lip

Max Pressure: 10 psi

Single lip oil seals are the most economical seal for general service sealing. The outer case is rubber coated with a spring loaded sealing lip. These seals are typically used in pump and electric motor applications.

Materials Available: Carbon steel case with Buna or Viton lip



OS
Double Lip

Max Pressure: 10 psi

Double lip oil seals provide light dirt exclusion, while the sealing lip provides the same sealing abilities as a single lip seal.

Double lip oil seals are rubber coated and spring loaded.

Materials Available: Carbon steel case with Buna or Viton lip



CR
CR Oil Seal

Max Pressure: 5-10 psi

CR is considered by many to be a pioneer in oil seal technology. Made in the USA, CR oil seals are used by some of the nations largest OEMs. CR produces seals for every type of application.

Materials Available: Steel case with Buna or Viton lip



63X
Garlock Klozure

Max Pressure: 5 psi

The 63X Garlock Klozure seal is made specifically for smaller shafts (.250 to 3.000in). This style combines a heavy duty inner and outer case with a finger spring and rubber lip. Other Garlock Klozure seal styles are available. Call for availability.

Materials Available: Stainless steel case with Buna lip



JM
Clipper Seal

Max Pressure: n/a

JM Clipper seals are available in sizes from .375 to 60.000in. For easier installation, pre-split seals are available in a variety of sizes. Clipper seals are unique in that they are composed of an Aramid fiber composite and contain no metallic case.

Materials Available: Buna, and Viton



JM-HP
High Pressure

Max Pressure: 300 psi

JM High Pressure Clipper seals are designed to handle rotary or reciprocating motion at high speeds and pressures. These seals work in applications with temperatures of -40°F to +400°F, and pressures up to 300 psi and 4,000 FPM.

Materials Available: Buna with molded Teflon insert



SC
Scraper

Max Pressure: n/a

Scrapers are typically used as wipers in earth moving equipment applications. The brass scraper ring removes dirt, mud, snow, or any other matter, while the rubber inner lip removes smaller particles.

Materials Available: Steel case with brass wiper and Buna lip



FVR
Forsheda V-Ring

Max Pressure: n/a

Forsheda V-rings are all rubber seals designed to be mounted directly onto the shaft. The flexible lip retains lubricants and excludes outside contaminants. This seal can be used as the primary or secondary seal.

Materials Available: Buna, and Viton



Other?
Not Listed?

If you have an oil seal whose manufacturer is not listed here, we have the capability to interchange your seal to an OS, CR, JM, or Klozure style oil seal. Call us @ (800)64-SEALS, and let one of our sales associates find a replacement seal for you.

Cylinder Packing



88-F/M
V-Pkg Adaptors

Max Pressure: n/a

88-F female (top) adaptor provides support and determines the quality and wear pattern of the set. 88-M male (bottom) adaptor provides the base for the set.

Materials Available: Buna/Fabric, Nylon, Teflon, and Viton/Fabric



88-V
V-Pkg Veels

Max Pressure: varies

88-V, V-packing center rings can be used as rod or piston seals. Combined with 88-F/M, the center rings make sets that can be used in varying pressure applications.

Materials Available: Buna/Fabric, Buna, Hythane, Viton/Fabric, and Viton



VC
Split V-Coil

Max Pressure: varies

Type VC, V-coil, performs in similar applications as the 88-F/M/V, but the ability to split large V-packing sets allows us to cut sets up to 100in inside diameter. Available in 1/4 to 1-1/8in cross section.

Materials Available: Buna/Fabric



WP
W-Packing

Max Pressure: varies

Type WP, W-packing or Uneepac is a stackable lip style packing. Unlike V-packing, W-packing does not require compression to seal. A great choice for applications with nonadjustable housing.

Materials Available: Buna/Fabric, and Buna



WP-DBU
Deep Base

Max Pressure: 1500 psi

Type WP-DBU, deep base W-packing, can be used in similar applications as standard W-packing. Single seals can be used or they can be stacked into sets.

Materials Available: 77 or 90 durometer Buna



PC
Piston Cup

Max Pressure: 3000 psi

PC style piston cups are single lip, single acting piston seals. They come with a solid (blank) center. Center holes are cut to customer dimension, with or without bolt holes. Piston cups can be placed back to back to form a double acting seal.

Materials Available: Buna/Fabric, Buna, and Leather



FLG
Flange

Max Pressure: 1500 psi

Type FLG flanges (hat packing) are used as single lip rod seals. Flange seals are generally used in older cylinder designs as the primary rod seal with low to medium pressure applications.

Materials Available: Buna/Fabric, Buna, and Leather



W2
Wear Ring

Max Pressure: n/a

Standard wear rings, type W2, are nylon bearings used to prevent rod scoring due to metal to metal contact between the piston head and the cylinder wall. W2 style Wear rings are 1/8in thick with heights varying from 1/4in to 1-1/2in.

Materials Available: Nylon, and Micarta



WS
Wear Strip

Max Pressure: n/a

WS wear strip material is designed to be used where a wear ring with a non-standard OD is required. Wear strip can be cut to customer dimensions. Available in 1/16, 3/32 and 1/8in thicknesses and 1/4, 3/8, 1/2, 5/8, 3/4 and 1in heights.

Materials Available: Nylon, and Bronze filled Teflon



Gasketing



SP-V Vellumoid Sheet

Max Pressure: 500 psi

Vellumoid is a premium grade plant fiber gasket material. This material can be easily cut into gaskets used in the sealing of mating flanges. Vellumoid can handle temperatures up to +250°F and pressures up to 500psi. *Sizes Available: 1/64, 1/32, 1/16, and 1/8in thick X 36in wide*



SP-663 General Service

Max Pressure: 500 psi

663 general service gasket material is used in applications that require sealing against water, steam, air, and non-aggressive chemicals. 663 can handle temperatures up to +750°F and pressures up to 500psi. *Sizes Available: 1/64, 1/32, 1/16, and 1/8in X 60x60in square*



SP-TFE Teflon Sheet

Max Pressure: n/a

Commercial grade Teflon gasket material is typically used in applications involving acids, alkalis, and corrosive chemicals and gases. Teflon can handle temperatures up to +500°F. *Sizes Available: 1/32, 1/16, 1/8, 3/16, and 1/4in X 48x48in square*



RBR Rubber Sheet

Max Pressure: varies

Rubber sheet packing comes in a variety of materials for all of your gasketing needs.

Materials Available: Buna, Neoprene, Viton, Cloth Inserted
Sizes Available: 1/64, 1/32, 1/16, 3/32, 1/8, 3/16, and 1/4in X 36 or 48in wide

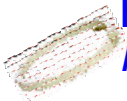


365/841 Rope Packing

Max Pressure: n/a

365 general service graphite rope packing and 841 general service Teflon rope packing work in applications involving rotary shafts and pumps. Special materials for specific applications are also available.

Sizes Available: 1/8 to 1in square on 1, 5, and 10lb spools



HBU Hyd Back-Up

Max Pressure: n/a

Hydraulic back-up material is made from white cotton duck bonded with a heat resistant rubber. The material is primarily used in applications with U-seals where excess room in the packing groove calls for a back-up ring.

Sizes Available: 1/2, 3/4, 7/8, and 1in square, cut to order



JS Joint Sealant

Max Pressure: 3000 psi

Joint sealant is a soft and pliable virgin PTFE that is primarily used in applications where there is damage to the flange. Handles temperatures up to 600°F.

Sizes Available: 1/8 to 1in by 15, 30, 50, and 100 ft rolls



PGHK Packing Hook

Max Pressure: n/a

Our flexible packing hooks are made from a solid T shaped handle with a flexible shaft and a corkscrew tip. These tools are used to remove packing from machines that are not easily disassembled. Spare tips available.

Lengths Available: 7-1/2, 11, 15, and 24in (24in not flexible)



GASKUT Gasket Cutter

Max Pressure: n/a

Make gaskets like the pros do! This manual gasket cutter allows you to make gaskets with IDs as small as 1in and ODs up to 24in. The set includes cutting board, brass gasket cutter with extensions, cutting blades, pins, tools and an instruction sheet. A must have in the field!

Seal Kits



 **Parker Hannifin**
Aftermarket Kit
Parker Hannifin is a registered trademark of Parker Hannifin Corp.

We offer aftermarket kits, made to company specifications from quality materials, at a substantial cost savings to you. Our stock includes a wide range of individual items and seal kits. Please reference Parker part numbers when ordering.
Note: We do not imply that these parts are original equipment parts.

 **Miller Fluid Power**
Aftermarket Kit
Miller Fluid Power is a registered trademark of CKD, Ltd.

We offer aftermarket kits, made to company specifications from quality materials, at a substantial cost savings to you. Our stock includes a wide range of individual items and seal kits. Please reference Miller part numbers when ordering.
Note: We do not imply that these parts are original equipment parts.

 **Hydro-Line**
Aftermarket Kit
Hydro-Line is a registered trademark of Eaton Corp.

We offer aftermarket kits, made to company specifications from quality materials, at a substantial cost savings to you. Our stock includes a wide range of individual items and seal kits. Please reference Hydroline part numbers when ordering.
Note: We do not imply that these parts are original equipment parts.

 **Caterpillar**
Aftermarket Kit
Caterpillar is a registered trademark of Caterpillar, Inc.

We offer aftermarket kits, made to company specifications from quality materials, at a substantial cost savings to you. Our stock includes a wide range of individual items and seal kits. Please reference Caterpillar part numbers when ordering.
Note: We do not imply that these parts are original equipment parts.

YOUR Your P/N
LOGO Custom Kit

Do you have a custom cylinder kit? Let us know how we can help you with our custom kit program. We will log your own unique kit part number into our system, along with all of the individual components. Then any time you need it, call us with your part number. Your kit will be built and shipped to you, most times within the same day. Want to resale your kit? We will gladly label your kit with a custom sticker for your convenience. Call for all the details!

 **ACD-DIST**
Distributor Kit

The ACD-DIST distributor kit is the most complete seal kit we offer. This kit is for seal distributors and repair shops that want to have everything!

The distributor kit comes in eight sections and can be purchased as a whole or in separate sections. The sections include:

ACD-DIST/OR A huge assortment of Buna/70 Duro standard O-Rings; -006 to -050, -110 to -163, -206 to -266, -318 to -365, and -425 to -453.

ACD-DIST/BUR The companion to the ACD-DIST/OR, this kit contains Buna/90 Duro standard back-up rings.

ACD-DIST/WR A large selection of Nylon wear rings ranging from 2 to 6in OD, in various heights. This kit also includes 3/8, 1/2, 5/8, 3/4 and 1in wear strip.

ACD-DIST/WIPERS A variety of D, X and Canned wipers.

ACD-DIST/POLYS Hundreds of loaded U-packing seals, standard and B-lip design. Sizes include 1/8 to 1/2in cross section, 1 to 6in ID, and a variety of heights.

ACD-DIST/PS A large selection of PS14, PS16, PS18, and TP piston seals.

ACD-DIST/VEES All the vees and adaptors you need to make V-packing sets with 1/4, 5/16, 3/8, and 1/2in cross sections.

ACD-DIST/PC A variety of homogenous Buna and fabric piston cups, with OD's ranging from 1 to 6in.



O-Ring Kits



ORK
O-Ring Kit

We stock a variety of O-ring kits, in a variety of sizes. From our trusted 2A kit and Boss kit to the more exotic 070 kit and Teflon kit, we've got the kit for your application.

Materials Available: Buna, Buna/90, Viton, Silicone, EPR, Neoprene, and Teflon



ORK-WRHS
Warehouse Kit

The ultimate in O-ring kits, the warehouse kit has every size you need. With over 1,100 rings, this kit will cover all the bases. Quad ring warehouse kit also available.

Materials Available: Buna, Buna/90, and Viton



ORK-BACKUP
Back-Up Kit

A great companion to our O-ring kits, our Parbak back-up kit and single turn back-up kit are sure to save you time and money.

Materials Available: Buna/90, and Teflon



QRK
Quad Ring Kit

Why buy minimums on quad rings when you can have 36 sizes in one handy kit. Our quad ring kit contains all the popular sizes. And if you are in the need of square rings, we also stock a square ring kit.

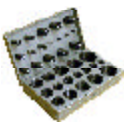
Materials Available: Buna



ORSPLK
Splicing Kit

If you deal with odd size O-rings, then you definitely need one of these kits. With our splicing kit you can make any size O-ring you need! Kit comes with various nominal cross-section O-cord, splicing tools, and adhesive. A must have in the field!

Materials Available: Buna, and Viton



ORK-METRIC
Metric OR Kit

We carry a complete line of metric O-ring kits. European metric, Japanese Industrial Standard, and metric splicing kits are in stock every day.

Materials Available: Buna, and Viton



OR-LUBE
O-Ring Lube

We've even got the lube for your application! Ask your sales associate to recommend a lube for your specific need.

Types Available: Standard lube, Super lube and Lubriplate



ORX
O-Ring Extractor

Stop damaging your cylinders! Put down that screw driver and pick up our O-ring extractor kit. This kit contains two brass O-ring extracting tools and handy plastic sleeve.

Materials Available: Brass



OR-CONE
O-Ring Cone

Why fumble with rulers, tapes, and calipers when you can get precise measurements, quickly with our O-ring cones. Our cones come in two sizes: original and large(184 sizes!) A must for any repair shop.

Metric Seals



26
Metric U-Pkg

Max Pressure: 5000 psi

Type 26 metric U-seals are symmetrical lip, non-loaded U-seals that can be used in rod seal and piston seal applications.

Materials Available: Urethane, NBR, Viton, Silicone, EPR, and Teflon



605/606
Metric U-Pkg

Max Pressure: 5000 psi

Type 605 metric U-seals are dedicated rod seals. They incorporate a twin lip design for improved sealing and stability. Type 606 metric U-seals are dedicated piston seals. They can be used for one piece or split pistons.

Materials Available: Urethane, and NBR



MOR
Metric O-Ring

Max Pressure: varies

Type MOR metric O-rings are "standard" European metric O-rings. These O-rings are used in applications similar to the type OR standard O-ring.

Materials Available: Buna, and Viton



G/P/S/V
JIS O-Ring

Max Pressure: varies

Type G, P, S, and V metric O-rings are Japanese Industrial Standard (JIS) O-rings. These O-rings are used in a variety of applications.

Materials Available: Buna, and Viton



BH
Metric H-Wiper

Max Pressure: 100 psi

The BH metric wiper is a double lip wiper that can be used as both a seal and wiper in a low pressure system. Other styles of metric snap-in and press-in wipers are available.

Materials Available: Hythane, and Urethane



T754
M-Piston Seal

Max Pressure: 5000 psi

T754 rectangular metric piston seals are a two piece piston seal design, combining a urethane outer seal with a square ring expander. These seals are commonly used in a low to medium pressure hydraulic applications.

Materials Available: Urethane with Buna expander



DAS
5-Piece Pst Seal

Max Pressure: 6000 psi

The DAS, 5-piece metric piston seal consists of a Buna seal with two split nylon back-up rings and two split nylon wear rings. This seal can be used with one piece piston and two piece piston head applications.

Materials Available: Buna with nylon back-ups and wear rings



MOS
M-Oil Seal

Max Pressure: 10 psi

Type MOS metric oil seals are usually double lip design, providing light dirt exclusion as well as sealing. These seals are typically rubber coated and spring loaded.

Materials Available: Steel case with Buna or Viton lip



88M
Metric V-Pkg

Max Pressure: 6000 psi

88M metric V-packing sets are available in common metric ID, OD and heights. Most sets come (1-5-1) with a fabric female adaptor, 3 fabric rings, 2 buna rings, and a nylon male adaptor. These sets can be used as rod or piston seals.

Materials Available: Buna/Fabric, Buna, and Nylon



Elastomers

Buna

Color: Black

Temperature Min: -40°F

Temperature Max: 250°F

Buna (aka NBR, Nitrile) is the *standard* in hydraulic and pneumatic sealing elastomers. Its oil resistant nature makes it the top choice of materials being used with petroleum based hydraulic fluids. Nitrile has a good abrasion resistance, high tensile strength and resistance to compression set.

Viton[®]

Color: Brown & Black

Temperature Min: -15°F

Temperature Max: 400°F

Viton (aka Fluorocarbon) seals are widely used in applications dealing with extreme temperature and/or extreme chemicals. Its compatibility to nearly all chemicals (exception - Skydrol, certain esters and ethers) make it a popular elastomer in chemical processing, paper and pulp mills, and various other chemical applications.

Silicone

Color: Red

Temperature Min: -65°F

Temperature Max: 450°F

Silicone compounds are generally not recommended for dynamic sealing applications due to poor tensile strength and abrasion resistance. Silicone does exhibit excellent resistance to extreme temperature and is an acceptable FDA material. Typical use for silicone is in dry heat applications and food processing applications.

EPR

Color: Black

Temperature Min: -65°F

Temperature Max: 300°F

EPR (aka EPDM, Ethylene Propylene) is used in applications that deal with ester based fluids, acids, weak alkalies, and automotive brake fluid. EPR is also an acceptable FDA material.

Neoprene

Color: Black

Temperature Min: -65°F

Temperature Max: 300°F

Neoprene is resistant to ammonia, freon, oxygen, ozone and many other fluids. An excellent material for use in pump and refrigeration applications.

Teflon[®]

Color: White

Temperature Min: -200°F

Temperature Max: 500°F

Teflon (aka PTFE, TFE) can be used in applications with extreme temperatures, extreme pressures and extreme chemicals. Since Teflon has a tendency to cold flow and has no memory, it is often filled with other materials (glass, bronze, and nickel) before it is used to make piston seals, rod seals and wipers.

Polyurethane

Color: Varies

Temperature Min: -50°F

Temperature Max: 200°F

Polyurethane (aka Hythane, Garthane) makes an excellent choice for hydraulic systems due to its good temperature range and high abrasion resistance. Urethanes are highly resistant to petroleum oils, hydrocarbon fuels, oxygen, ozone and weathering.

Polymyte

Color: Orange

Temperature Min: -65°F

Temperature Max: 275°F

Polymyte is an elastoplastic material with exceptionally high tear strength. Its high durometer makes it suitable for applications where extrusion is a problem. Polymyte can be used with petroleum based fluids, water based fluids, phosphate ester fluids, some chlorinated fluids and many solvents.

Note: Viton and Teflon are registered trademarks of duPont de Nemours and Company