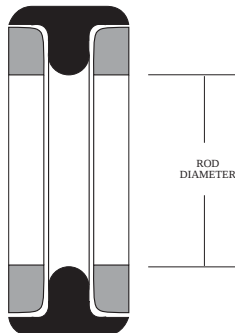


ROD T-SEALS

T-Seals combine a resilient sealing ring with a hard, split back-up ring on each side of the sealing element. The assembly installs in a standard o-ring groove. T-seals are non-spiraling and extrusion resistant to 10,000 P.S.I. with improved tolerances.



PART NUMBERS

TR - 001
 | |
 Type of Size
 Seal

SEAL INFORMATION

MATERIAL	HARD PLASTIC BACK-UPS BUNA-N RUBBER SEAL
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 10,000 PSI

Part Number	Rod Diam.	O-Ring Groove Dash #.	List Price
TR-001.....	3/16	-106	\$ 3.25
TR-004.....	3/8	-204	3.25
TR-006.....	1/2	-206	2.18
TR-008.....	5/8	-208	2.30
TR-009.....	11/16	-209	2.36
TR-010.....	3/4	-210	2.36
TR-012.....	7/8	-212	2.54
TR-014.....	1	-214	2.84
TR-015.....	1-1/2	-215	2.86
TR-016.....	1-1/8	-216	2.88
TR-017.....	1-3/16	-217	3.00
TR-018.....	1-1/4	-218	3.06
TR-020.....	1-3/8	-220	3.33
TR-022.....	1-1/2	-222	3.77
TR-023.....	1-1/2	-325	4.00
TR-024.....	1-5/8	-326	4.31
TR-025.....	1-3/4	-327	4.52
TR-026.....	1-7/8	-328	4.85
TR-027.....	2	-329	5.05
TR-028.....	2-1/8	-330	5.33
TR-029.....	2-1/4	-331	5.95
TR-030.....	2-3/8	-332	6.20
TR-031.....	2-1/2	-333	6.24

Part Number	Rod Diam.	O-Ring Groove Dash #.	List Price
TR-032.....	2-5/8	-334	\$ 6.26
TR-033.....	2-3/4	-335	7.13
TR-034.....	2-7/8	-336	7.31
TR-035.....	3	-337	7.65
TR-036.....	3-1/8	-338	8.18
TR-037.....	3-1/4	-339	8.75
TR-038.....	3-3/8	-340	9.06
TR-039.....	3-1/2	-341	9.73
TR-040.....	3-5/8	-342	10.18
TR-041.....	3-3/4	-343	10.78
TR-042.....	3-7/8	-344	11.13
TR-043.....	4	-345	11.83
TR-045.....	4-1/4	-347	12.87
TR-046.....	4-3/8	-348	14.61
TR-047.....	4-1/2	-349	14.62
TR-048.....	5	-429	18.43
TR-049.....	5-1/4	-431	23.56
TR-050.....	5-1/2	-433	22.56
TR-052.....	6	-437	23.32
TR-058.....	7-1/2	-443	42.04
TR-059.....	8	-445	48.63
TR-060.....	9	-447	56.22

WIDE BASE ROD T-SEALS

Intermediate and Wide Base T-seals are designed to fit MIL-G-5514F o-ring glands only and interchange with 1 o-ring/1 back-up ring and 1 o-ring/2 back-up ring grooves, respectively.

PART NUMBERS

TR - 027 WB
 | | |
 Type of Size Wide
 Seal Base

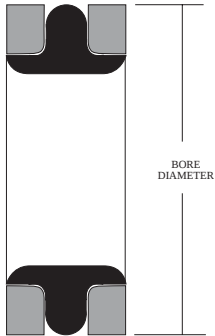
Part Number	Rod Diam.	Seal Base Width	List Price
TR-027WB	2	.405	\$ 10.94

SEAL INFORMATION

MATERIAL	HARD PLASTIC BACK-UPS BUNA-N RUBBER SEAL
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 10,000 PSI

PISTON T-SEALS

T-Seals combine a resilient sealing ring with a hard, split back-up ring on each side of the sealing element. The assembly installs in a standard o-ring groove. T-seals are non-spiraling and extrusion resistant to 10,000 P.S.I. with improved tolerances.



PART NUMBERS

TP - 009
| |
Type of Seal Size

SEAL INFORMATION	
MATERIAL	HARD PLASTIC BACK-UPS BUNA-N RUBBER SEAL
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 10,000 PSI

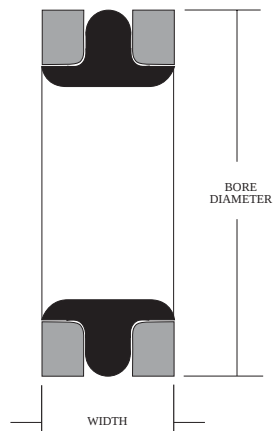
Part Number	Bore Diam.	O-Ring Groove Dash #.	List Price
TP-009	7/8	-208	\$ 4.16
TP-011	1	-210	4.61
TP-013	1-1/8	-212	1.96
TP-015	1-1/4	-214	2.96
TP-017	1-3/8	-216	2.96
TP-018	1-7/16	-217	3.01
TP-019	1-1/2	-218	3.06
TP-021	1-5/8	-220	3.33
TP-022	1-3/4	-222	4.13
TP-023	1-7/8	-325	4.22
TP-024	2	-326	4.31
TP-025	2-1/8	-327	4.52
TP-026	2-1/4	-328	4.80
TP-027	2-3/8	-329	5.05
TP-028	2-1/2	-330	5.33
TP-029	2-5/8	-331	5.79
TP-030	2-3/4	-332	5.85
TP-031	2-7/8	-333	6.07
TP-032	3	-334	6.30
TP-033	3-1/8	-335	6.57
TP-034	3-1/4	-336	7.31
TP-035	3-1/2	-338	8.01
TP-036	3-5/8	-339	8.72
TP-037	3-3/4	-340	9.06
TP-038	3-7/8	-341	11.72

Part Number	Bore Diam.	O-Ring Groove Dash #.	List Price
TP-039	4	-342	\$ 10.10
TP-041	4-1/4	-344	11.62
TP-042	4-3/8	-345	12.32
TP-043	4-1/2	-346	12.54
TP-045	4-3/4	-348	17.51
TP-046	4-7/8	-349	17.61
TP-047	5	-350	18.30
TP-049	5-1/4	-427	20.05
TP-051	5-1/2	-429	22.02
TP-053	5-3/4	-431	22.49
TP-054	5-7/8	-432	23.05
TP-055	6	-433	24.29
TP-057	6-1/4	-435	24.98
TP-058	6-1/2	-437	25.04
TP-060	7	-439	29.07
TP-062	7-1/2	-441	31.77
TP-064	8	-443	37.03
TP-068	9-1/2	-447	52.91
TP-069	10	-448	53.99
TP-070	10-1/2	-449	63.81
TP-071	11	-450	70.83
TP-072	11-1/2	-451	80.97
TP-073	12	-452	86.48

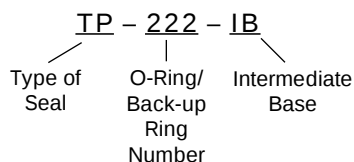
T-SEALS

INTERMEDIATE & WIDE BASE PISTON T-SEALS

Intermediate and Wide Base T-seals are designed to fit MIL-G-5514F o-ring grooves only and interchange with 1 o-ring/1 back-up ring and 1 o-ring/2 back-up ring grooves, respectively.



PART NUMBERS



SEAL INFORMATION

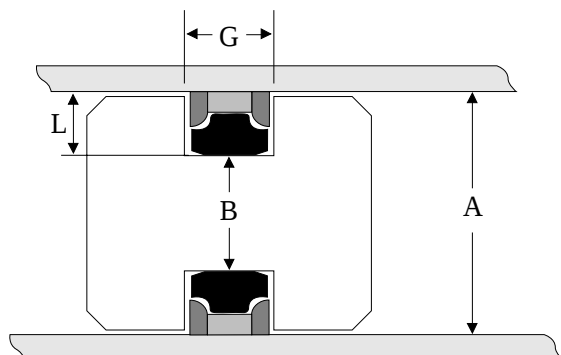
MATERIAL	HARD PLASTIC BACK-UPS BUNA-N RUBBER SEAL
TEMPERATURE RANGE	-65° TO +220° F
PRESSURE RANGE	0 TO 10,000 PSI

Part Number	Bore Diam.	Seal Base Width	Groove Width	List Price
TP-222-IB.....	1-3/4	.215	.235	\$ 10.18
TP-326-IB.....	2	.312	.334	10.18
TP-328-IB.....	2-1/4	.312	.334	10.86
TP-328-WB.....	2-1/4	.405	.424	11.53
TP-330-IB.....	2-1/2	.312	.334	11.14
TP-330-WB.....	2-1/2	.405	.424	12.16
TP-333-WB.....	2-7/8	.405	.424	16.61
TP-334-IB.....	3	.312	.334	17.79
TP-334-WB.....	3	.405	.424	18.70
TP-338-IB.....	3-1/2	.312	.334	18.55
TP-338-WB.....	3-1/2	.405	.424	20.21
TP-342-WB.....	4	.405	.424	23.86
TP-346-IB.....	4-1/2	.312	.334	35.57
TP-346-WB.....	4-1/2	.405	.424	28.87
TP-347-IB.....	4-5/8	.312	.334	34.03

Part Number	Bore Diam.	Seal Base Width	Groove Width	List Price
TP-350-WB.....	5	.405	.424	\$ 37.07
TP-425-IB.....	5	.450	.475	40.69
TP-425-WB.....	5	.550	.579	50.02
TP-429-IB.....	5-1/2	.450	.475	41.17
TP-433-IB.....	6	.450	.475	47.15
TP-433-WB.....	6	.550	.579	52.44
TP-435-IB.....	6-1/4	.450	.475	53.59
TP-439-IB.....	7	.450	.495	55.48
TP-439-WB.....	7	.550	.579	60.50
TP-443-WB.....	8	.550	.579	74.57
TP-444-IB.....	8-1/4	.450	.475	68.87
TP-446-IB.....	9	.450	.475	100.74
TP-448-IB.....	10	.450	.475	115.20
TP-450-IB.....	11	.450	.475	110.23

CAPPED PISTON T-SEALS

A heavy duty double-acting assembly, the capped piston T-seal exhibits excellent sealability, extrusion resistance, and wearability. T-seals with "BR" suffix utilize a Bronze Filled PTFE cap instead of the standard Glass Filled PTFE cap.



SEAL INFORMATION

MATERIAL	PTFE CAP/NYLON BACK-UP RUBBER ENERGIZER
TEMPERATURE RANGE	-40° TO +220° F
PRESSURE RANGE	0 TO 6,000 PSI

PART NUMBERS

CPS - 3000

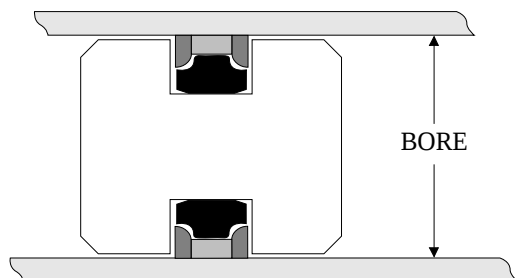
Type of Seal Bore Size

Part Number	A Bore Diam.	B Groove Diam.	G Groove Width	L Groove Depth	List Price
CPS-2000	2.000	1.625	.424	.187	\$ 29.06
CPS-2500	2.500	2.125	.424	.187	30.33
CPS-3000	3.000	2.520	.579	.240	39.14
CPS-3000BR	3.000	2.520	.579	.240	42.50
CPS-3250	3.250	2.770	.579	.240	40.43
CPS-3500	3.500	3.020	.579	.240	40.72
CPS-3500BR	3.500	3.020	.579	.240	44.22
CPS-3750	3.750	3.270	.579	.240	41.21
CPS-4000	4.000	3.520	.579	.240	42.41
CPS-4000BR	4.000	3.520	.579	.240	46.40
CPS-4250	4.250	3.770	.579	.240	44.31
CPS-4500	4.500	4.020	.579	.240	45.27
CPS-4500BR	4.500	4.020	.579	.240	47.50
CPS-5000	5.000	4.270	.750	.365	56.93
CPS-5000BR	5.000	4.270	.750	.365	57.50
CPS-5250	5.250	4.520	.750	.365	59.75
CPS-5500	5.500	4.770	.750	.365	63.53
CPS-5500BR	5.500	4.770	.750	.365	67.54
CPS-5504BR	5.500	5.020	.579	.240	61.69
CPS-6000	6.000	5.270	.750	.365	65.31
CPS-6015	6.015	5.285	.750	.365	93.09
CPS-6250	6.250	5.520	.750	.365	66.59
CPS-6250BR	6.250	5.520	.750	.365	69.00
CPS-6500	6.500	5.770	.750	.365	66.15
CPS-6504BR	6.500	6.020	.579	.240	75.31
CPS-7000	7.000	6.270	.750	.365	84.91
CPS-7000BR	7.000	6.270	.750	.365	86.20
CPS-7250BR	7.250	6.520	.750	.365	88.78
CPS-7500	7.500	6.770	.750	.365	76.19
CPS-8000	8.000	7.270	.750	.365	96.56

NOTE:

ADDITIONAL SIZES CAN BE FOUND IN THE METRIC SECTIONS

CATERPILLAR® CAPPED PISTON T-SEALS



SEAL INFORMATION

MATERIAL	HARD PLASTIC BACK-UPS BUNA-N RUBBER SEAL
TEMPERATURE RANGE	-40° TO +220° F
PRESSURE RANGE	0 TO 6,000 PSI

Part Number	Bore Diameter	List Price
CTC-3G4762	8-1/2	\$ 96.47
CTC-3G4765	10-1/2	123.61
CTC-8J3747	4-1/2	47.48
CTC-8J3749	7	79.04
CTC-8J4390	8-1/4	91.98
CTC-8J4510	7-1/4	81.61
CTC-8J5644	7-3/4	86.23
CTC-8J8703	6-1/2	76.65

Part Number	Bore Diameter	List Price
CTC-8J8767	5-1/2	\$ 65.10
CTC-9J1242	6	68.02
CTC-9J2987	11-1/2	140.70
CTC-9J3406	10	114.45
CTC-9J5558	6-1/4	69.48
CTC-9J5567	7-1/2	82.76
CTC-9J7868	5	58.02

INSTALLATION OF PTFE PISTON SEALS

Installing PTFE piston seals is not always an easy task. The use of installation tools is recommended but often not convenient when working with a wide variety of sizes and applications.

Finger installations are practical with rings of smaller cross-sections. Using fingers or a rounded plastic stick, knead the ring over the piston into the groove. With rings of larger cross-section it may be necessary to heat the ring. Warming the ring in water or oil at 130°F or 140°F for about 5 minutes will soften the material for easier installation. Always avoid inconsistent stretching or overstretching of the PTFE seal.

To prevent the PTFE ring from snapping into the wrong groove, cover wear ring grooves with plastic tape.

After seal installation, assembly of the cylinder may be difficult if the piston seal is loose on the piston or the cylinder has an inadequate leading edge chamfer. In such cases, compress the piston seal with belting or a suitable hose clamp. If the piston seal must pass threads or any other sharp edges during cylinder assembly, cover the edges with plastic tape or wrap.

NOTE: Caterpillar® part numbers are used as a reference only. We do not imply that these parts are original equipment parts.