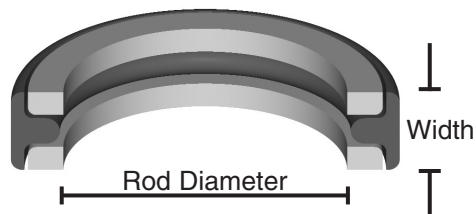


ROD T-SEALS



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 5,000 psi with improved tolerances.



SEAL INFORMATION

MATERIAL	BUNA-N RUBBER SEAL- HARD PLASTIC BACK-UPS
TEMPERATURE RANGE	-35° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (Size)

Part Number	Rod Diameter	O-Ring Groove Dash Number
TR-001	3/16	-106
TR-004	3/8	-204
TR-006	1/2	-206
TR-008	5/8	-208
TR-009	11/16	-209
TR-010	3/4	-210
TR-012	7/8	-212
TR-014	1	-214
TR-015	1-1/16	-215
TR-016	1-1/8	-216
TR-017	1-3/16	-217
TR-018	1-1/4	-218
TR-020	1-3/8	-220
TR-022	1-1/2	-222
TR-023	1-1/2	-325
TR-024	1-5/8	-326
TR-025	1-3/4	-327
TR-026	1-7/8	-328
TR-027	2	-329
TR-028	2-1/8	-330
TR-029	2-1/4	-331
TR-030	2-3/8	-332
TR-031	2-1/2	-333
TR-032	2-5/8	-334
TR-033	2-3/4	-335

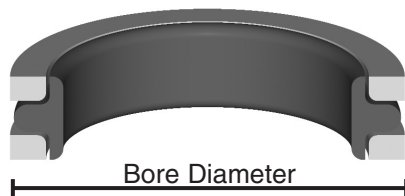
Part Number	Rod Diameter	O-Ring Groove Dash Number
TR-034	2-7/8	-336
TR-035	3	-337
TR-036	3-1/8	-338
TR-037	3-1/4	-339
TR-038	3-3/8	-340
TR-039	3-1/2	-341
TR-040	3-5/8	-342
TR-041	3-3/4	-343
TR-042	3-7/8	-344
TR-043	4	-345
TR-045	4-1/4	-347
TR-046	4-3/8	-348
TR-047	4-1/2	-349
TR-048	5	-429
TR-049	5-1/4	-431
TR-050	5-1/2	-433
TR-052	6	-437
TR-058	7-1/2	-443
TR-059	8	-445
TR-060	9	-447
Intermediate and Wide Base T-Seals are designed to fit MIL-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.		
TR-027WB	2	.405

T-SEALS



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 5,000 psi with improved tolerances.



SEAL INFORMATION

MATERIAL	BUNA-N RUBBER SEAL- HARD PLASTIC BACK-UPS
TEMPERATURE RANGE	-35° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (Size)

T-SEALS

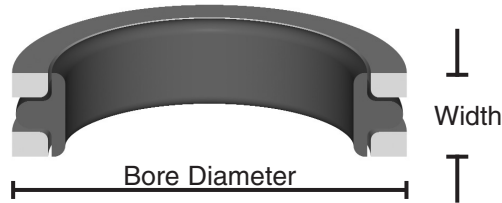
Part Number	Bore Diameter	O-Ring Groove Dash Number
TP-009	7/8	-208
TP-011	1	-210
TP-012	1-1/16	-211
TP-013	1-1/8	-212
TP-014	1-3/16	-213
TP-015	1-1/4	-214
TP-016	1-5/16	-215
TP-017	1-3/8	-216
TP-018	1-7/16	-217
TP-019	1-1/2	-218
TP-021	1-5/8	-220
TP-022	1-3/4	-222
TP-023	1-7/8	-325
TP-024	2	-326
TP-025	2-1/8	-327
TP-026	2-1/4	-328
TP-027	2-3/8	-329
TP-028	2-1/2	-330
TP-029	2-5/8	-331
TP-030	2-3/4	-332
TP-031	2-7/8	-333
TP-032	3	-334
TP-033	3-1/8	-335
TP-034	3-1/4	-336
TP-035	3-1/2	-338
TP-036	3-5/8	-339
TP-037	3-3/4	-340
TP-038	3-7/8	-341

Part Number	Bore Diameter	O-Ring Groove Dash Number
TP-039	4	-342
TP-040	4-1/8	-343
TP-041	4-1/4	-344
TP-042	4-3/8	-345
TP-043	4-1/2	-346
TP-045	4-3/4	-348
TP-046	4-7/8	-349
TP-047	5	-350
TP-048	5-1/8	-426
TP-049	5-1/4	-427
TP-051	5-1/2	-429
TP-053	5-3/4	-431
TP-054	5-7/8	-432
TP-055	6	-433
TP-057	6-1/4	-435
TP-058	6-1/2	-437
TP-060	7	-439
TP-062	7-1/2	-441
TP-064	8	-443
TP-065	8-1/4	-444
TP-066	8-1/2	-445
TP-067	9	-446
TP-068	9-1/2	-447
TP-069	10	-448
TP-070	10-1/2	-449
TP-071	11	-450
TP-072	11-1/2	-451
TP-073	12	-452

INTERMEDIATE & WIDE BASE PISTON SEALS



Intermediate and Wide Base T-Seals are designed to fit MIL-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.



SEAL INFORMATION

MATERIAL	BUNA-N RUBBER SEAL- HARD PLASTIC BACK-UPS
TEMPERATURE RANGE	-35° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (Size) - (IB or WB)

Part Number	Bore Diameter	Seal Base Width	Groove Width
TP-218-WB	1-1/2	.270	.304
TP-221	1-11/16	.170	.185
TP-222-IB	1-3/4	.215	.235
TP-326-IB	2	.312	.334
TP-328-IB	2-1/4	.312	.334
TP-328-WB	2-1/4	.405	.424
TP-330-IB	2-1/2	.312	.334
TP-330-WB	2-1/2	.405	.424
TP-333-WB	2-7/8	.405	.424
TP-334-IB	3	.312	.334
TP-334-WB	3	.405	.424
TP-338-IB	3-1/2	.312	.334
TP-338-WB	3-1/2	.405	.424
TP-342-WB	4	.405	.424
TP-346-IB	4-1/2	.312	.334
TP-346-WB	4-1/2	.405	.424

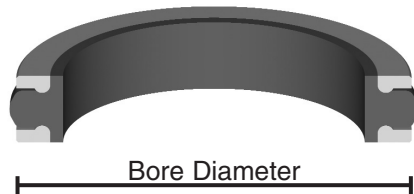
Part Number	Bore Diameter	Seal Base Width	Groove Width
TP-347-IB	4-5/8	.312	.334
TP-350-WB	5	.405	.424
TP-425-IB	5	.450	.475
TP-425-WB	5	.550	.579
TP-427-WB	5-1/4	.550	.579
TP-429-IB	5-1/2	.450	.475
TP-433-IB	6	.450	.475
TP-433-WB	6	.550	.579
TP-435-IB	6-1/4	.450	.475
TP-439-IB	7	.450	.495
TP-439-WB	7	.550	.579
TP-443-WB	8	.550	.579
TP-444-IB	8-1/4	.450	.475
TP-446-IB	9	.450	.475
TP-448-IB	10	.450	.475
TP-450-IB	11	.450	.475

T-SEALS



STYLE TP-L PISTON T-SEALS

The Style TP-L seal is a zero drift piston seal for bi-directional pressure applications. The locking anti-extrusion rings provide for an easier installation. It is designed to retrofit O-Ring and standard T-seal grooves. The 70 shore A NBR is designed specifically for performance in compression type dynamic seals. Other features include a net molded dynamic sealing surface and backup chamfers.



SEAL INFORMATION

MATERIAL	BUNA-N RUBBER SEAL- HARD PLASTIC BACK-UPS
TEMPERATURE RANGE	-35° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
PART NUMBER	(Prefix) - (Size)

T-SEALS

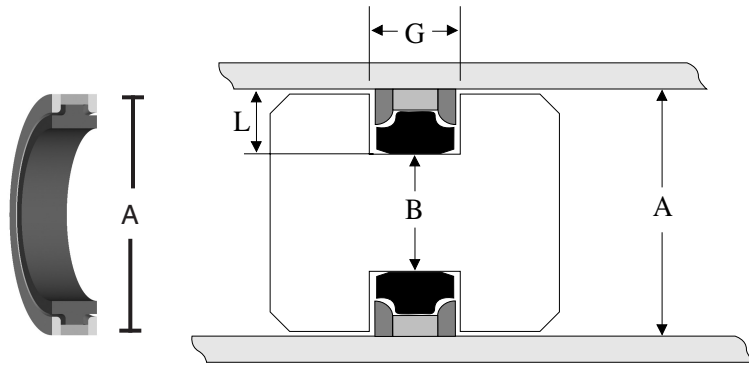
Part Number	Bore Diameter	O-Ring Groove Dash Number
TP-009-L	7/8	-208
TP-011-L	1	-210
TP-013-L	1-1/8	-212
TP-015-L	1-1/4	-214
TP-017-L	1-3/8	-216
TP-019-L	1-1/2	-218
TP-021-L	1-5/8	-220
TP-022-L	1-3/4	-222
TP-023-L	1-7/8	-325
TP-024-L	2	-326
TP-025-L	2-1/8	-327
TP-026-L	2-1/4	-328
TP-027-L	2-3/8	-329
TP-028-L	2-1/2	-330
TP-029-L	2-5/8	-331
TP-030-L	2-3/4	-332

Part Number	Bore Diameter	O-Ring Groove Dash Number
TP-031-L	2-7/8	-333
TP-032-L	3	-334
TP-033-L	3-1/8	-335
TP-034-L	3-1/4	-336
TP-035-L	3-1/2	-338
TP-037-L	3-3/4	-340
TP-039-L	4	-342
TP-041-L	4-1/4	-344
TP-043-L	4-1/2	-346
TP-045-L	4-3/4	-348
TP-047-L	5	-350
TP-049-L	5-1/4	-427
TP-051-L	5-1/2	-429
TP-053-L	5-3/4	-431
TP-055-L	6	-433
TP-058-L	6-1/2	-437

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.



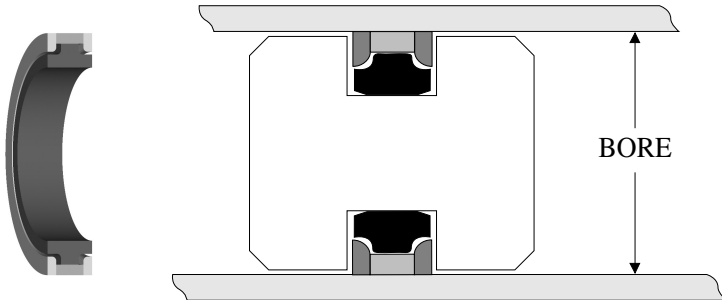
SEAL INFORMATION	
MATERIAL	PTFE CAP NYLON BACK-UP RUBBER ENERGIZER
TEMPERATURE RANGE	-40° TO +220° F
PRESSURE RANGE	0 TO 6,000 PSI
PART NUMBER	(Prefix) - (Bore Size)

Part Number	A Bore Dia.	B Groove Dia.	G Groove Width	L Groove Depth
CPS-1750BR	1.750	1.375	.424	.187
CPS-2000	2.000	1.625	.424	.187
CPS-2500	2.500	2.125	.424	.187
CPS-2750BR	2.750	2.375	.424	.187
CPS-3000	3.000	2.520	.579	.240
CPS-3000BR	3.000	2.520	.579	.240
CPS-3250	3.250	2.770	.579	.240
CPS-3500	3.500	3.020	.579	.240
CPS-3500BR	3.500	3.020	.579	.240
CPS-3750	3.750	3.270	.579	.240
CPS-4000	4.000	3.520	.579	.240
CPS-4000BR	4.000	3.520	.579	.240
CPS-4250	4.250	3.770	.579	.240
CPS-4500	4.500	4.020	.579	.240
CPS-4500BR	4.500	4.020	.579	.240
CPS-5000	5.000	4.270	.750	.365
CPS-5000BR	5.000	4.270	.750	.365
CPS-5250	5.250	4.520	.750	.365
CPS-5500	5.500	4.770	.750	.365
CPS-5500BR	5.500	4.770	.750	.365
CPS-5504BR	5.500	5.020	.579	.240
CPS-6000	6.000	5.270	.750	.365
CPS-6015	6.015	5.285	.750	.365
CPS-6250	6.250	5.520	.750	.365
CPS-6250BR	6.250	5.520	.750	.365
CPS-6500	6.500	5.770	.750	.365
CPS-6504BR	6.500	6.020	.579	.240
CPS-7000	7.000	6.270	.750	.365
CPS-7000BR	7.000	6.270	.750	.365
CPS-7250BR	7.250	6.520	.750	.365
CPS-7500	7.500	6.770	.750	.365
CPS-8000	8.000	7.270	.750	.365

T-SEALS



REPLACEMENT CAPPED PISTON T-SEALS FOR CATERPILLAR EQUIPMENT*



SEAL INFORMATION

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

T-SEALS

Part Number	Bore Diameter
CTC-3G4762	8-1/2
CTC-3G4765	10-1/2
CTC-8J3747	4-1/2
CTC-8J3749	7
CTC-8J4390	8-1/4
CTC-8J4510	7-1/4
CTC-8J5644	7-3/4
CTC-8J8703	6-1/2

Part Number	Bore Diameter
CTC-8J8767	5-1/2
CTC-9J1242	6
CTC-9J2987	11-1/2
CTC-9J3406	10
CTC-9J5558	6-1/4
CTC-9J5567	7-1/2
CTC-9J7868	5

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-sections 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 the 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.