

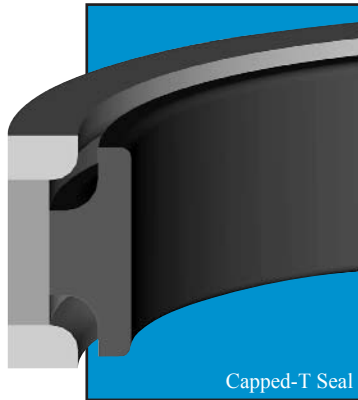


MACROTECH POLYSEAL, INC.

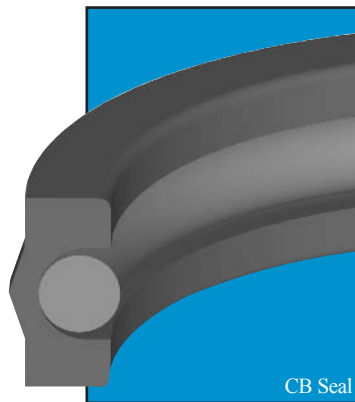
# *Modular Piston Seal Group*



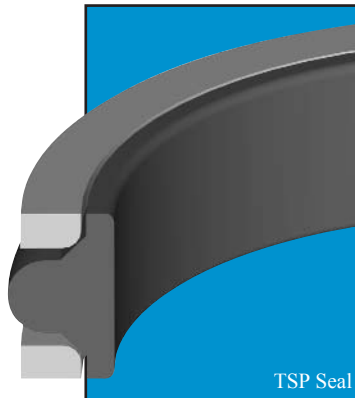
AY Seal



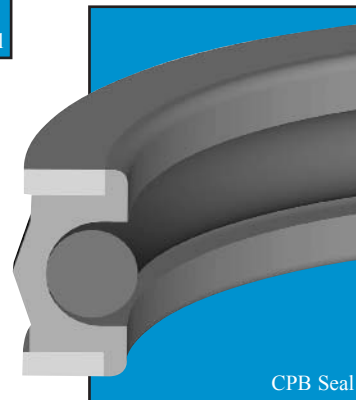
Capped-T Seal



CB Seal



TSP Seal



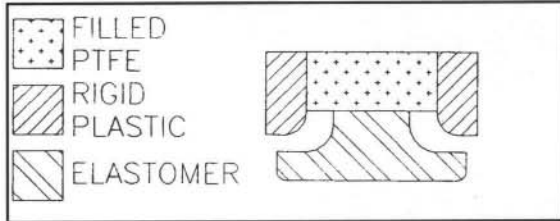
CPB Seal

## Modular Piston Seal Group

This Polyseal piston seal group consists of 5 different styles of piston seals, these seals will retrofit the same groove. This allows the user to customize the choice of a piston seal to the demands of a particular application.

### Capped T Seal (CT)<sup>TM</sup>

The capped T seal consists of a filled PTFE cap energized by an elastomeric element. These 2 elements are protected by 2 split rigid plastic anti extrusion rings.



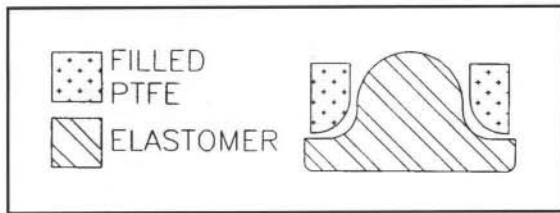
### T Seal (TSP)

The T seal consists of an elastomeric sealing element protected by 2 split rigid plastic anti extrusion rings.



### AY Seal (AY)

The AY seal consists of an elastomeric sealing element protected by 2 solid filled PTFE anti extrusion rings.



### Crown Seal (CP)

The crown seal consists of a Lubrithane sealing element energized by an elastomeric o-ring.



### Crown Seal w/ Backups (CPB)

The CPB seal consists of a Lubrithane sealing element energized by an elastomeric o-ring. The Lubrithane element is protected by 2 split rigid plastic anti extrusion rings.



## APPLICATION GUIDELINES

STYLE	TEMPERATURE RANGE	PRESSURE CAPABILITY	LIFE EXPECTANCY	SEALABILITY	EASE OF INSTALLATION	COST	FRICTION
CT	-65°F to 400°F	HIGH	HIGH	GOOD	MODERATE	HIGH	LOW
TSP	-65°F to 400°F	GOOD	GOOD	HIGH	VERY	MODERATE	HIGH
AY	-65°F to 400°F	GOOD	GOOD	HIGH	MODERATE	MODERATE	MODERATE
CP	-65°F to 220°F	HIGH	HIGH	GOOD	MODERATE	LOW	MODERATE
CPB	-65°F to 220°F	HIGH	HIGH	GOOD	MODERATE	MODERATE	MODERATE

Temperature ranges shown are limited by the functional range of the seal assembly. Pressure capability is limited by the functional range of the seal assembly and the hardware tolerance of mating parts.

# PART NUMBERING GUIDE

## CT-3 02000

### STYLE

(CT, TSP, AY, CP & CPB)

### SERIES

3 = 3/16" CROSS SECTION

4 = 1/4" CROSS SECTION

6 = 3/8" CROSS SECTION

### NOMINAL BORE

PART NUMBERS				
CT - 302000	TSP - 302000	AY - 302000	CP - 302000	CPB - 302000
CT - 302500	TSP - 302500	AY - 302500	CP - 302500	CPB - 302500
CT - 303000	TSP - 303000	AY - 303000	CP - 303000	CPB - 303000
CT - 403500	TSP - 403500	AY - 403500	CP - 403500	CPB - 403500
CT - 404000	TSP - 404000	AY - 404000	CP - 404000	CPB - 404000
CT - 404500	TSP - 404500	AY - 404500	CP - 404500	CPB - 404500
CT - 605000	TSP - 605000	AY - 605000	CP - 605000	CPB - 605000
CT - 606000	TSP - 606000	AY - 606000	CP - 606000	CPB - 606000
CT - 607000	TSP - 607000	AY - 607000	CP - 607000	CPB - 607000

### Standard Materials

Nitrile 70A, A-8501

General service elastomer. Very good compression set and resilience. Hydraulic, hydrocarbon and water fluid service.

40% Bronze Filled  
PTFE, #741

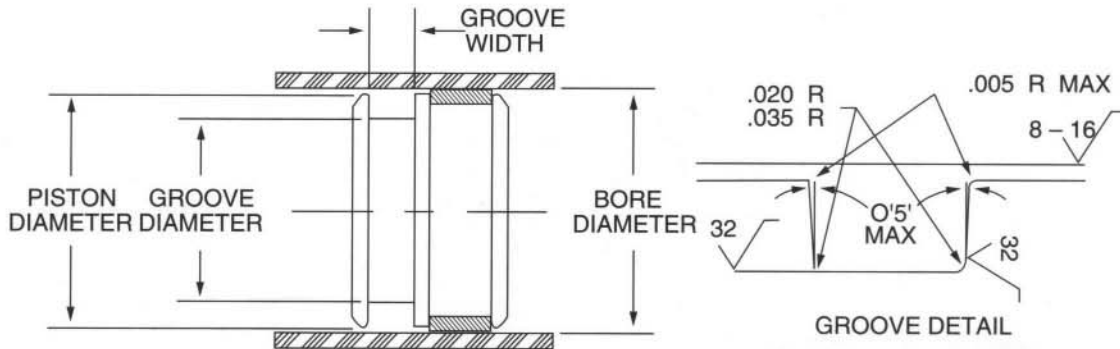
General service filled PTFE. Good wear and extrusion resistance. Hydraulic, hydrocarbon and water fluid service.

Nylon, P-2505 or # 707

General service rigid plastic. Excellent extrusion resistance. Hydraulic and hydrocarbon fluid service.

Lubrithane 95A, U-1003

General service polyurethane. Excellent wear with good compression set. Hydraulic and hydrocarbon fluid service. Water to 140°F.



BORE	BORE DIAMETER	GROOVE DIAMETER	GROOVE WIDTH	PISTON MIN WEAR RINGS	PISTON MIN
2"	2.000 $\pm .002$	1.626 $\pm .002$	.424 $\pm .010$	1.975	1.988
2-1/2"	2.500 $\pm .002$	2.126 $\pm .002$	.424 $\pm .010$	2.475	2.488
3"	3.000 $\pm .002$	2.626 $\pm .002$	.424 $\pm .010$	2.975	2.988
3-1/2"	3.500 $\pm .003$	3.020 $\pm .003$	.579 $\pm .010$	3.470	3.485
4"	4.000 $\pm .003$	3.520 $\pm .003$	.579 $\pm .010$	3.970	3.985
4-1/2"	4.500 $\pm .003$	4.020 $\pm .003$	.579 $\pm .010$	4.470	4.485
5"	5.000 $\pm .004$	4.270 $\pm .004$	.750 $\pm .010$	4.965	4.983
6"	6.000 $\pm .004$	5.270 $\pm .004$	.750 $\pm .010$	5.965	5.983
7"	7.000 $\pm .004$	6.270 $\pm .004$	.750 $\pm .010$	6.965	6.983

Piston Min refers to the minimum allowable piston diameter.

Piston Min Wear Rings refers to the minimum allowable piston diameter when wear rings are used.

## IMPORTANT NOTICE

We reserve the right to make changes without notice in our products and in the information and content of this brochure. The statements and information in the brochure are intended to serve only as guides. There are not warranties or binding descriptions of the products.

## NOTICE OF EXCLUSIVE WARRANTY AND REMEDY

Briefly, our exclusive warranty is against defects in materials and workmanship at the time of shipment. It is in lieu of all other warranties. *There is no implied warranty of merchantability or fitness for a particular purpose.* The exclusive remedy is replacement of defective products or, at our option, refund of their purchase price. *All damages exceeding the purchase price are excluded,* whether consequential or otherwise and regardless of cause. The terms and conditions on our printed quotation contain a much more complete statement of our Exclusive Warranty and Remedy.



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