

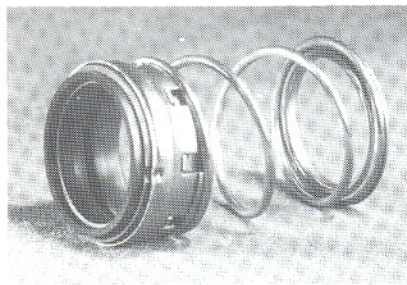
ESP

ESSENTIAL SEALING PRODUCTS, INC.

MECHANICAL SEALS

For Compressors and Pumps

TYPE CP1



DIMENSIONAL SPECIFICATIONS

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
5/8	1.093	1.312
3/4	1.218	1.312
7/8	1.343	1.375
1	1.500	1.562
1-1/16	1.625	1.593
1-1/8	1.625	1.625
1-3/16	1.812	1.625
1-1/4	1.812	1.625
1-3/8	1.875	1.687
1-7/16	2.000	1.687
1-1/2	2.000	1.687
1-9/16	2.250	1.687
1-5/8	2.250	2.000
1-3/4	2.375	2.000
1-7/8	2.500	2.125
2	2.625	2.125
2-1/16	2.812	2.375
2-1/8	2.812	2.375
2-1/4	2.937	2.375

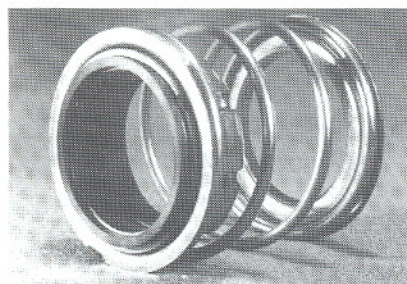
SHAFT SIZE	SEAL O.D.	WORKING LENGTH
2-3/8	3.062	2.500
2-1/2	3.187	2.500
2-5/8	3.375	2.750
2-3/4	3.500	2.750
2-7/8	3.625	2.875
3	3.750	2.875

Metric Sizes Available upon Request

FEATURES

The CP1 is a fully convoluted elastomeric bellows, single spring seal, designed to fit into narrow cross section stuffing boxes. It can be used in a wide range of services from water and oil, to chemicals and corrosives, at temperatures of -40°F to 400°F, pressures up to 425 PSI in unbalanced form, and 1200 PSI in balanced form, depending on shaft size and faces selected. Available with 304SS, 316SS, and monel metallurgy, with nitrile, viton, neoprene, butyl and EPR elastomers. Options are carbon, nickel TC and silicon carbide.

TYPE CP2



DIMENSIONAL SPECIFICATIONS

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
5/8	1.312	.875
3/4	1.437	.875
7/8	1.562	.937
1	1.750	1.062
1-1/16	1.875	1.062
1-1/8	1.875	1.062
1-3/16	2.000	1.062
1-1/4	2.000	1.062
1-3/8	2.187	1.125
1-7/16	2.312	1.125
1-1/2	2.312	1.125
1-5/8	2.718	1.375
1-3/4	2.750	1.375
1-7/8	2.875	1.500
2	3.000	1.500
2-1/8	3.250	1.687
2-1/4	3.375	1.687
2-3/8	3.500	1.812
2-1/2	3.625	1.812

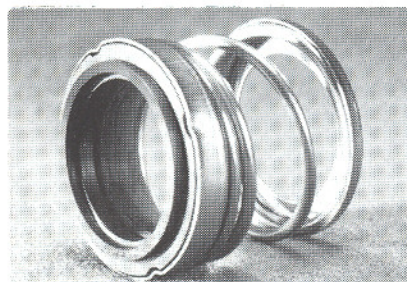
SHAFT SIZE	SEAL O.D.	WORKING LENGTH
2-5/8	3.875	1.937
2-3/4	4.000	1.937
2-7/8	4.125	2.062
3	4.250	2.062

Metric Sizes Available upon Request

FEATURES

The CP2 is a fully convoluted elastomeric bellows, single spring seal, designed for equipment that has limited gland depth. It can be used in a wide range of services from water and oil to chemicals and corrosives at temperatures of -40°F to 400°F, pressures up to 425 PSI in unbalanced form, and 1200 PSI in balanced form, depending on shaft size and faces selected. Available with 304SS, 316SS, and monel metallurgy, with nitrile, viton, neoprene, butyl and EPR elastomers. Face options are carbon, nickel TC, and silicon carbide.

TYPE CP21



DIMENSIONAL SPECIFICATIONS

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
3/8	.812	.812
7/16	.937	.812
1/2	.937	.812
9/16	1.062	.875
5/8	1.062	.875
3/4	1.187	.875
7/8	1.312	.937
1	1.687	1.000
1-1/8	1.812	1.062
1-3/16	1.937	1.062
1-1/4	1.937	1.062
1-3/8	2.062	1.125
1-7/16	2.187	1.125
1-1/2	2.187	1.125
1-5/8	2.500	1.375
1-3/4	2.625	1.375
1-7/8	2.625	1.500
2	2.875	1.500
2-1/8	2.968	1.687
2-1/4	3.125	1.687

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
2-3/8	3.250	1.812
2-1/2	3.343	1.812
2-5/8	3.343	1.937
2-3/4	3.750	1.937
2-7/8	3.750	2.062
3	4.000	2.062

Metric Sizes and other working lengths available upon request.

FEATURES

The CP21 is a general purpose elastomeric bellows, single spring seal, designed to seal a wide range of rotating equipment. It can be used in services from water and oil to chemicals and corrosives, at temperatures of -40°F to 400°F, pressures up to 150 PSI, and speeds up to 2500 feet per minute depending on shaft size and face selection. Available with 304SS, 316SS, and monel metallurgy, nitrile, viton, neoprene, butyl and EPR elastomers. Face options are carbon, nickel TC and silicon carbide.

TYPE CP6



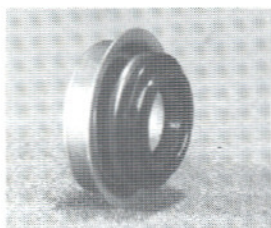
DIMENSIONAL SPECIFICATIONS

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
3/8	1.062	.625
1/2	1.062	.656
5/8	1.218	.718 & .812
3/4	1.343	.718 & .812
1	1.687	.812

FEATURES

The CP6 is manufactured as a compact rotating seal and is designed for low pressure, small shaft applications. It can be used in water, oil and limited chemicals at pressures up to 75 PSI, temperatures up to 400°F and speeds up to 1000 feet per minute. Available in 304SS metallurgy, nitrile or viton elastomers, phenolic or carbon faces, commonly used in well pumps, swimming pool pumps, automotive water pumps and appliance pumps.

TYPE CP6A



DIMENSIONAL SPECIFICATIONS

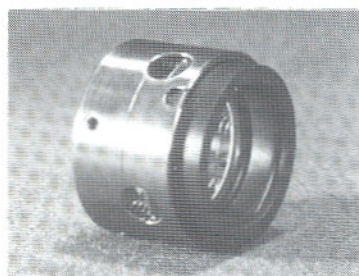
SHAFT SIZE	BORE	WORKING LENGTH
3/8	1.125	.343
1/2	1.125	.350
5/8	1.437	.350
3/4	1.575	.380

FEATURES

The CP6A is manufactured as a stationary press fit seal and is designed for low pressure, small shaft applications. It can be used in water, oil and limited chemicals at pressures up to 75 PSI, temperatures up to 400°F and speeds up to 2500 feet per minute depending on shaft size. Available in 304SS metallurgy, nitrile or viton elastomers, phenolic or carbon faces, commonly used in well pumps, swimming pool pumps, automotive water pumps and appliance pumps.

TYPE CP8-1T

TYPE CP9T



DIMENSIONAL SPECIFICATIONS

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
1/2	.937	.937
5/8	1.062	.937
3/4	1.187	.937
7/8	1.312	.937
1	1.437	1.000
1-1/8	1.562	1.000
1-1/4	1.687	1.000
1-3/8	1.937	1.375
1-1/2	1.937	1.125
1-5/8	2.250	1.156
1-3/4	2.312	1.375
1-7/8	2.500	1.375
2	2.625	1.375
2-1/8	2.812	1.687
2-1/4	2.843	1.375
2-3/8	3.000	1.687
2-1/2	3.125	1.375
2-5/8	3.250	1.687
2-3/4	3.375	1.687
2-7/8	3.500	1.687
3	3.625	1.687
3-1/8	3.750	1.687

SHAFT SIZE	SEAL O.D.	WORKING LENGTH
3-1/4	3.875	1.687
3-3/8	4.000	1.687
3-1/2	4.125	1.687
3-5/8	4.250	1.687
3-3/4	4.375	1.687
3-7/8	4.500	1.687
4	4.625	1.687

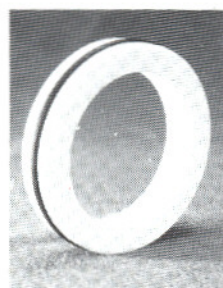
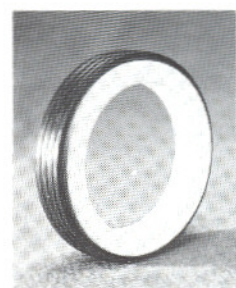
Other sizes available upon request.

FEATURES

The CP8-1T and 9T are multi spring pusher seals designed for severe service. The CP8-1T utilizes an elastomer o-ring seal at the shaft. The CP9T utilizes a wedge of either teflon or flexible graphite to seal the shaft. Both seals can be used in services from water and petrochemicals to severe corrosives at temperatures of -40°F to 500°F, pressures up to 350 PSI in unbalanced form and 750 PSI in balanced form depending on shaft size and faces selected. Available in 316SS, hastelloy B & C, monel, alloy 20 and titanium metallurgy. Orings for the CP8-1T can be supplied from most elastomers including Kalrez. Face options are carbon in several grades, nickel TC, reaction bonded SIC and alpha sintered SIC.

SEAL SEATS

CUP STYLE ORING STYLE



DIMENSIONAL SPECIFICATIONS

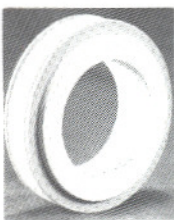
SHAFT SIZE	BORE SIZE +/- .002	WIDTH +/- .015
3/8	.875	.312
1/2	1.000	.312
5/8	1.250	.406
3/4	1.375	.406
7/8	1.500	.406
1	1.625	.437
1-1/8	1.750	.437
1-1/4	1.875	.437
1-3/8	2.000	.437
1-1/2	2.125	.437
1-5/8	2.375	.500
1-3/4	2.500	.500
1-7/8	2.625	.500
2	2.750	.500
2-1/8	3.000	.562

SHAFT SIZE	BORE SIZE +/- .002	WIDTH +/- .015
2-1/4	3.125	.562
2-3/8	3.250	.562
2-1/2	3.375	.562
2-5/8	3.375	.625
2-3/4	3.500	.625
2-7/8	3.750	.625
3	3.875	.625

Available with nitrile, viton, neoprene, and EPR elastomers. Face options are ceramic, niresist, 17-4SS, silicon carbide and nickel TC.

Other sizes are available upon request.

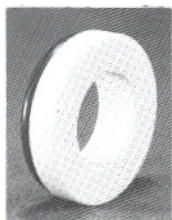
CLAMP



MODIFIED CLAMP



L-SHAPE



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