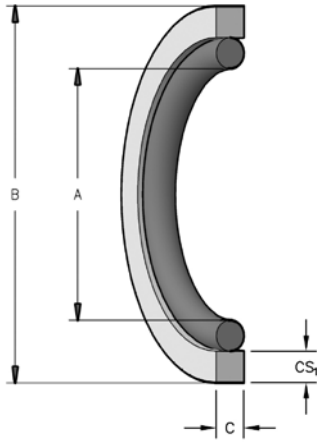
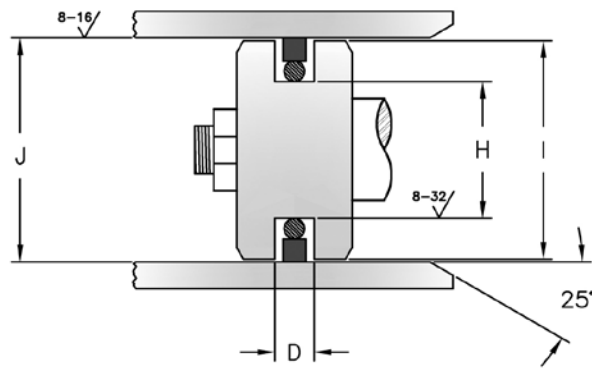
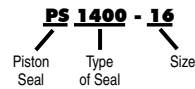


STYLE PS1400 GLASS FILLED PTFE PISTON SEALS

The PS1400 seals offer low friction and high strength in a compact double-acting piston seal design. The PTFE seal ring, combined with a rubber energizer, assures positive contact with the dynamic surface. The PS1400 is designed to fit ANSI/B93.32-1973 groove standards. Piston diameter "I" dimensions are given for pistons without wear rings.



PART NUMBERS



SEAL INFORMATION	
MATERIAL	15% GLASS FILLED PTFE SEAL RUBBER ENERGIZER
TEMPERATURE RANGE	-40° TO +220° F
PRESSURE RANGE	0 TO 5,000 PSI
SPEED	12 FT/SEC

Part Number	A Nom. ID	B Nom. OD	C Nom. Ht	C WIDTH	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	CS ₁ RING CROSS SECTION
PS1400-16	.74	1	.07	.070 ±.005	.083 ±.002	.740 ±.002	.997 ±.001	1.000 ^{+.002} _{+.000}	.070 ±.005
PS1400-18	.865	1-1/8	.07	.070 ±.005	.083 ±.002	.865 ±.002	1.122 ±.001	1.125 ^{+.002} _{+.000}	.070 ±.005
PS1400-20	.99	1-1/4	.07	.070 ±.005	.083 ±.002	.990 ±.002	1.247 ±.001	1.250 ^{+.002} _{+.000}	.070 ±.005
PS1400-22	1.115	1-3/8	.07	.070 ±.005	.083 ±.002	1.115 ±.002	1.372 ±.001	1.375 ^{+.002} _{+.000}	.070 ±.005
PS1400-24	1.24	1-1/2	.07	.070 ±.005	.083 ±.002	1.240 ±.002	1.497 ±.001	1.500 ^{+.002} _{+.000}	.070 ±.005
PS1400-26	1.233	1-5/8	.109	.109 ±.010	.122 ±.002	1.233 ±.002	1.622 ±.001	1.625 ^{+.002} _{+.000}	.109 ±.010
PS1400-28	1.358	1-3/4	.109	.109 ±.010	.122 ±.002	1.358 ±.002	1.747 ±.001	1.750 ^{+.002} _{+.000}	.109 ±.010
PS1400-30	1.483	1-7/8	.109	.109 ±.010	.122 ±.002	1.483 ±.002	1.872 ±.001	1.875 ^{+.002} _{+.000}	.109 ±.010
PS1400-32	1.608	2	.115	.115 ±.010	.129 ±.002	1.608 ±.002	1.996 ±.001	2.000 ^{+.002} _{+.000}	.115 ±.010
PS1400-34	1.733	2-1/8	.115	.115 ±.010	.129 ±.002	1.733 ±.002	2.121 ±.001	2.125 ^{+.002} _{+.000}	.115 ±.010
PS1400-36	1.858	2-1/4	.115	.115 ±.010	.129 ±.002	1.858 ±.002	2.246 ±.001	2.250 ^{+.002} _{+.000}	.115 ±.010
PS1400-38	1.983	2-3/8	.115	.115 ±.010	.129 ±.002	1.983 ±.002	2.371 ±.001	2.375 ^{+.002} _{+.000}	.115 ±.010

**PISTON SEAL
ASSEMBLIES**

STYLE PS1400 GLASS FILLED PTFE PISTON SEALS

Part Number	A Nom. ID	B Nom. OD	C Nom. Ht	C WIDTH	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	CS ₁ RING CROSS SECTION
PS1400-40	2.108	2-1/2	.115	.115 ±.010	.129 ±.002	2.108 ±.002	2.496 ±.001	2.500 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-44	2.358	2-3/4	.115	.115 ±.010	.129 ±.002	2.358 ±.002	2.746 ±.001	2.750 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-48	2.608	3	.115	.115 ±.010	.129 ±.002	2.608 ±.002	2.996 ±.001	3.000 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-50	2.733	3-1/8	.115	.115 ±.010	.129 ±.002	2.733 ±.002	3.121 ±.001	3.125 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-52	2.858	3-1/4	.115	.115 ±.010	.129 ±.002	2.858 ±.002	3.246 ±.001	3.250 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-54	2.983	3-3/8	.115	.115 ±.010	.129 ±.002	2.983 ±.002	3.371 ±.001	3.375 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-56	3.108	3-1/2	.115	.115 ±.010	.129 ±.002	3.108 ±.002	3.496 ±.001	3.500 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-58	3.233	3-5/8	.115	.115 ±.010	.129 ±.002	3.233 ±.002	3.621 ±.001	3.625 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-60	3.358	3-3/4	.115	.115 ±.010	.129 ±.002	3.358 ±.002	3.746 ±.001	3.750 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-64	3.608	4	.115	.115 ±.010	.129 ±.002	3.608 ±.002	3.996 ±.001	4.000 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-68	3.858	4-1/4	.115	.115 ±.010	.129 ±.002	3.858 ±.002	4.246 ±.001	4.250 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-70.4	4.008	4.4	.115	.115 ±.010	.129 ±.002	4.008 ±.002	4.396 ±.001	4.400 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-72	4.108	4-1/2	.115	.115 ±.010	.129 ±.002	4.108 ±.002	4.496 ±.001	4.500 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-76	4.358	4-3/4	.115	.115 ±.010	.129 ±.002	4.358 ±.002	4.746 ±.001	4.750 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-78	4.483	4-7/8	.115	.115 ±.010	.129 ±.002	4.483 ±.002	4.871 ±.001	4.875 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-80	4.608	5	.115	.115 ±.010	.129 ±.002	4.608 ±.002	4.996 ±.001	5.000 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-84	4.858	5-1/4	.115	.115 ±.010	.129 ±.002	4.858 ±.002	5.246 ±.001	5.250 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-88	5.108	5-1/2	.115	.115 ±.010	.129 ±.002	5.108 ±.002	5.496 ±.001	5.500 ^{+0.002} / _{+0.000}	.115 ±.010
PS1400-92	5.232	5-3/4	.143	.143 ±.010	.159 ±.002	5.232 ±.002	5.746 ±.001	5.750 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-94	5.357	5-7/8	.143	.143 ±.010	.159 ±.002	5.357 ±.002	5.871 ±.001	5.875 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-96	5.482	6	.143	.143 ±.010	.159 ±.002	5.482 ±.002	5.996 ±.001	6.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-98	5.607	6-1/8	.143	.143 ±.010	.159 ±.002	5.607 ±.002	6.121 ±.001	6.125 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-100	5.732	6-1/4	.143	.143 ±.010	.159 ±.002	5.732 ±.002	6.246 ±.001	6.250 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-104	5.982	6-1/2	.143	.143 ±.010	.159 ±.002	5.982 ±.002	6.496 ±.001	6.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-112	6.482	7	.143	.143 ±.010	.159 ±.002	6.482 ±.002	6.996 ±.001	7.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-116	6.732	7-1/4	.143	.143 ±.010	.159 ±.002	6.732 ±.002	7.246 ±.001	7.250 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-120	6.982	7-1/2	.143	.143 ±.010	.159 ±.002	6.982 ±.002	7.496 ±.001	7.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-128	7.482	8	.143	.143 ±.010	.159 ±.002	7.482 ±.002	7.996 ±.001	8.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-130	7.607	8-1/8	.143	.143 ±.010	.159 ±.002	7.607 ±.002	8.121 ±.001	8.125 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-132	7.732	8-1/4	.143	.143 ±.010	.159 ±.002	7.732 ±.002	8.246 ±.001	8.250 ^{+0.002} / _{+0.000}	.143 ±.010

**PISTON SEAL
ASSEMBLIES**

POWER
SUPPLY COMPONENTS

STYLE PS1400 GLASS FILLED PTFE PISTON SEALS

Part Number	A Nom. ID	B Nom. OD	C Nom. Ht	C WIDTH	D GROOVE WIDTH	H GROOVE DIAMETER	I PISTON DIAMETER	J BORE DIAMETER	CS ₁ RING CROSS SECTION
PS1400-136	7.982	8-1/2	.143	.143 ±.010	.159 ±.002	7.982 ±.002	8.496 ±.001	8.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-144	8.482	9	.143	.143 ±.010	.159 ±.002	8.482 ±.002	8.996 ±.001	9.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-152	8.982	9-1/2	.143	.143 ±.010	.159 ±.002	8.982 ±.002	9.496 ±.001	9.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-160	9.482	10	.143	.143 ±.010	.159 ±.002	9.482 ±.002	9.996 ±.001	10.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-168	9.982	10-1/2	.143	.143 ±.010	.159 ±.002	9.982 ±.002	10.496 ±.001	10.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-176	10.482	11	.143	.143 ±.010	.159 ±.002	10.482 ±.002	10.996 ±.001	11.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-184	10.982	11-1/2	.143	.143 ±.010	.159 ±.002	10.982 ±.002	11.496 ±.001	11.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-192	11.482	12	.143	.143 ±.010	.159 ±.002	11.482 ±.002	11.996 ±.001	12.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-200	11.982	12-1/2	.143	.143 ±.010	.159 ±.002	11.982 ±.002	12.496 ±.001	12.500 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-208	12.482	13	.143	.143 ±.010	.159 ±.002	12.482 ±.002	12.996 ±.001	13.000 ^{+0.002} / _{+0.000}	.143 ±.010
PS1400-224	13.482	14	.143	.143 ±.010	.159 ±.002	13.482 ±.002	13.996 ±.001	14.000 ^{+0.002} / _{+0.000}	.143 ±.010

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 over-stretching 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.