

THE HEAVY-DUTY SEAL
in the 1500E Series

PPC'S HEAVY DUTY

1500EHD

CARTRIDGE SEAL



- **METAL SHROUD** prevents damage to the rotating Silicon Carbide face and allows for even thermal expansion.
- **NO PRESS-FIT FACES** (Monolithic design) eliminates face warpage.
- **TANGENTIAL FLUSHING** directs abrasive particles away from seal faces.
- **DESIGNED FOR IMPROVED PERFORMANCE** in highly viscous services, off-curve pumping, slurries, etc.
- **SETTING THE SEAL IS AUTOMATIC**, utilizing positioning buttons that do not require removal.
- **SPRINGS ARE STATIONARY** and are not affected by angular misalignment or centrifugal force, as well as being isolated from the product.

MATERIALS OF CONSTRUCTION

Metal Parts: 316 Stainless Steel
Springs: Alloy C-276
Elastomers: EP, Aflas*, FKM, Perfluoroelastomers (FFKM),

Face Combinations:

<i>Stationary Face</i>	<i>Rotary Face</i>
Carbon, Tungsten Carbide or Silicon Carbide	Sintered Silicon Carbide

*Aflas is a registered trademark of Asahi Glass company Ltd.

TECHNICAL DATA

Temperatures: 0° to 400° F
Pressure: To 300 PSIG, depending on shaft size and speed.
Speed: Up to 4500 SFPM

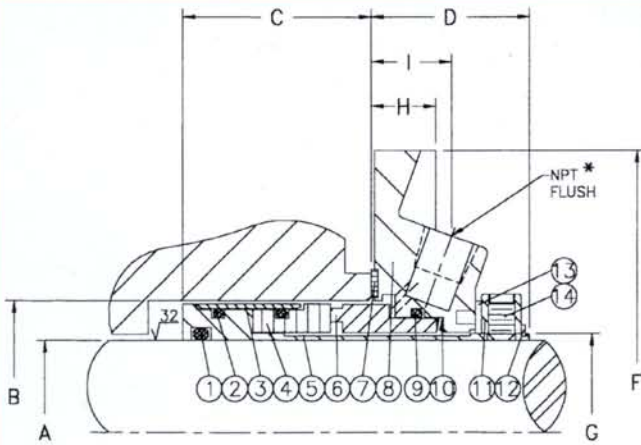
For specific applications or those outside the listed parameters, contact your local PPC representative.



Solutions to Mechanical Seal Problems

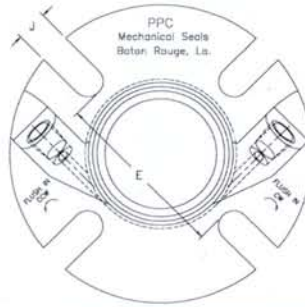


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INSTALLATION INSTRUCTIONS:
AFTER TIGHTENING GLAND BOLTS PUSH SET SCREW COLLAR AGAINST SETTING BUTTONS, THEN TIGHTEN SET SCREWS. SETTING BUTTONS ARE NOT REMOVED.

* .250 NPT FOR SEAL SIZES UP TO 2.625
.375 NPT FOR SEAL SIZES 2.750 AND ABOVE



ITEM	DESCRIPTION
1	O-RING
2	O-RING
3	SHROUD
4	ROTARY FACE
5	SLEEVE
6	STATIONARY FACE
7	GASKET
8	GLAND
9	O-RING
10	SPRINGS
11	COLLAR
12	SPIROLOX
13	SETTING BUTTONS
14	SET SCREWS

1500EVD SERIES ALSO AVAILABLE TO FIT VIKING PUMPS.

1500EHD MECHANICAL SEAL ASSEMBLY

A SEAL SIZE	B (MIN)	B (MAX)	C	D	E	F	G	H (MAX)	I	J
1.000	1.625	2.010	1.79	1.50	2.31	4.11	1.125	.98	.71	.44
1.125	1.750	2.040	1.79	1.50	2.44	4.24	1.250	.98	.71	.44
1.250	1.875	2.270	1.79	1.50	2.69	4.36	1.375	.98	.71	.56
1.375	2.000	2.430	1.79	1.50	2.75	4.36	1.500	.98	.71	.44
1.500	2.250	2.630	1.79	1.50	2.94	4.99	1.625	.98	.71	.56
1.625	2.375	2.690	1.79	1.50	3.06	4.99	1.750	.98	.71	.56
1.750	2.500	2.810	1.79	1.50	3.19	5.48	1.875	.98	.71	.56
1.875	2.625	2.940	1.79	1.50	3.31	5.49	2.000	.98	.71	.56
2.000	2.750	3.190	1.79	1.50	3.44	5.49	2.125	.98	.71	.56
2.125	2.875	3.440	1.79	1.50	3.81	5.99	2.250	.98	.71	.69
2.250	3.000	3.560	1.79	1.50	3.94	6.24	2.375	.98	.71	.69
2.375	3.125	3.590	1.79	1.50	4.06	6.24	2.500	.98	.71	.69
2.500	3.250	3.810	1.79	1.50	4.19	6.48	2.625	.98	.71	.69
2.625	3.375	4.070	1.79	1.50	4.75	7.62	2.750	.98	.71	.69
2.750	3.750	4.190	2.14	1.80	4.88	7.74	3.000	1.20	.83	.69
3.000	4.000	4.440	2.14	1.80	5.06	8.00	3.250	1.20	.83	.69
3.125	4.125	4.565	2.14	1.80	5.25	8.12	3.375	1.20	.83	.69
3.250	4.250	4.690	2.14	1.80	5.38	8.25	3.500	1.20	.83	.69
3.375	4.375	4.815	2.14	1.80	5.50	8.38	3.625	1.20	.83	.81
3.500	4.500	4.940	2.14	1.80	5.62	8.50	3.750	1.20	.83	.81
3.625	4.625	5.065	2.14	1.80	5.75	8.62	3.875	1.20	.83	.81
3.750	4.750	5.190	2.14	1.80	5.88	8.75	4.000	1.20	.83	.81
4.750	5.750	6.190	2.14	1.80	6.81	9.75	5.000	1.20	.83	.81

1500EHD+ MECHANICAL SEAL ASSEMBLY FOR OVERSIZE STUFFING BOX

1.125+	2.500	2.906	1.79	1.50	3.31	4.62	1.250	.98	.71	.44
1.375+	2.781	3.219	1.79	1.50	3.53	5.31	1.500	.98	.71	.44
1.750+	3.469	4.188	1.79	1.50	4.50	6.31	1.875	.98	.71	.56
1.875+	3.406	4.062	1.79	1.50	4.41	6.25	2.000	.98	.71	.56
2.125+	3.347	4.375	1.79	1.50	4.81	7.12	2.250	.98	.71	.69
2.500+	4.156	5.187	1.79	1.50	6.75 BC	7.88	2.625	.98	.71	.69 HOLE
2.625+	4.156	4.812	1.79	1.50	5.44	7.50	2.750	.98	.71	.56

WARRANTY

PPC seals and seal parts are guaranteed to be free from defects in material and workmanship and are guaranteed to render satisfactory service when used for the purpose for which they are designed.



PPC

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