

1810PR Pumping Ring Seal Supplemental Instructions

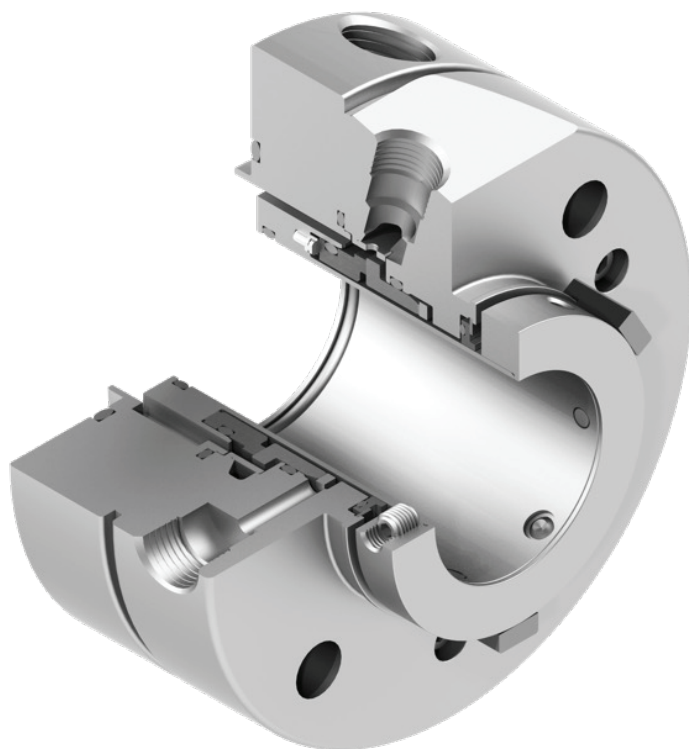


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Seal Data Reference

(From Box Label)

ITEM# _____

SEAL _____

(Example: 1810PR 1.875 SA CB/SSC S FKM)

INSTALLATION DATE _____

Equipment Dimensions

SHAFT _____

BORE _____

BOLT SIZE _____

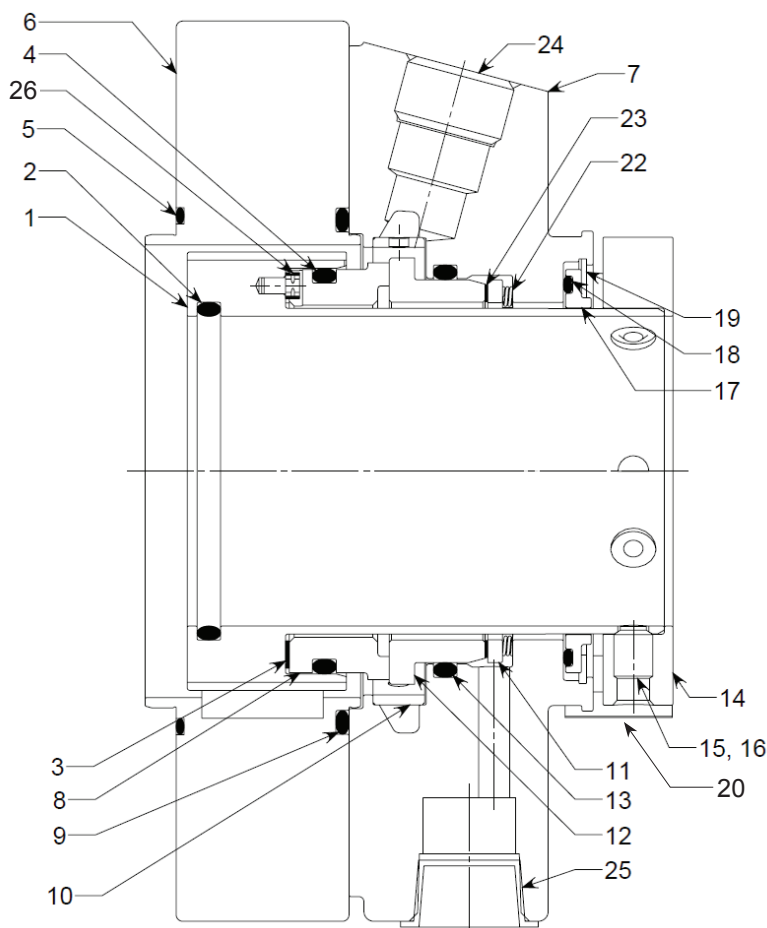
BOLT CIRCLE _____

OD OBSTRUCTIONS _____

FIRST AXIAL OBSTRUCTIONS _____

1.0 DESCRIPTION

1.1 Parts Identification



KEY

- 1 - Sleeve Assembly
- 2 - Shaft O-ring (V)
- 3 - Rotary Cushion
- 4 - Rotary O-ring (W)
- 5 - Stuffing Box O-ring (U)
- 6 - Adapter
- 7 - Gland
- 8 - Rotary Seal Ring
- 9 - Adapter O-Ring (X)
- 10 - Injector
- 11 - Follower Assembly
- 12 - Stationary Seal Ring
- 13 - Stationary O-Ring (Y)
- 14 - Lock Ring
- 15 - 1/4 Dog Set Screw
- 16 - Cup Point Set Screw (not shown)
- 17 - Bushing
- 18 - Bushing O-Ring (Z)
- 19 - Snap Ring
- 20 - Centering Clip
- 21 - Flat Head Screw - (not shown)
- 22 - Spring
- 23 - Stationary Cushion
- 24 - Pipe Plug
- 25 - Cap Plug
- 26 - Drive Tube

1.2 Operating Parameters*

Pressure Limits:

1810PR Seals can withstand operating pressures from vacuum (710 mm or 28" Hg) to the maximum pressures.

25 mm – 120 mm (1.000" – 4.750") up to 40 barg (600 psig)*

Standard Materials:

All Metal Parts: 316 Stainless Steel/EN 1.4401

Bronze

Springs: Alloy C-276/EN 2.4819

Rotary Face: CB; SSC;

Stationary Face: SSC;

Elastomers**: FKM, EPDM, FEPM, or FFKM

****Other materials available upon request****

1.3 Intended Use

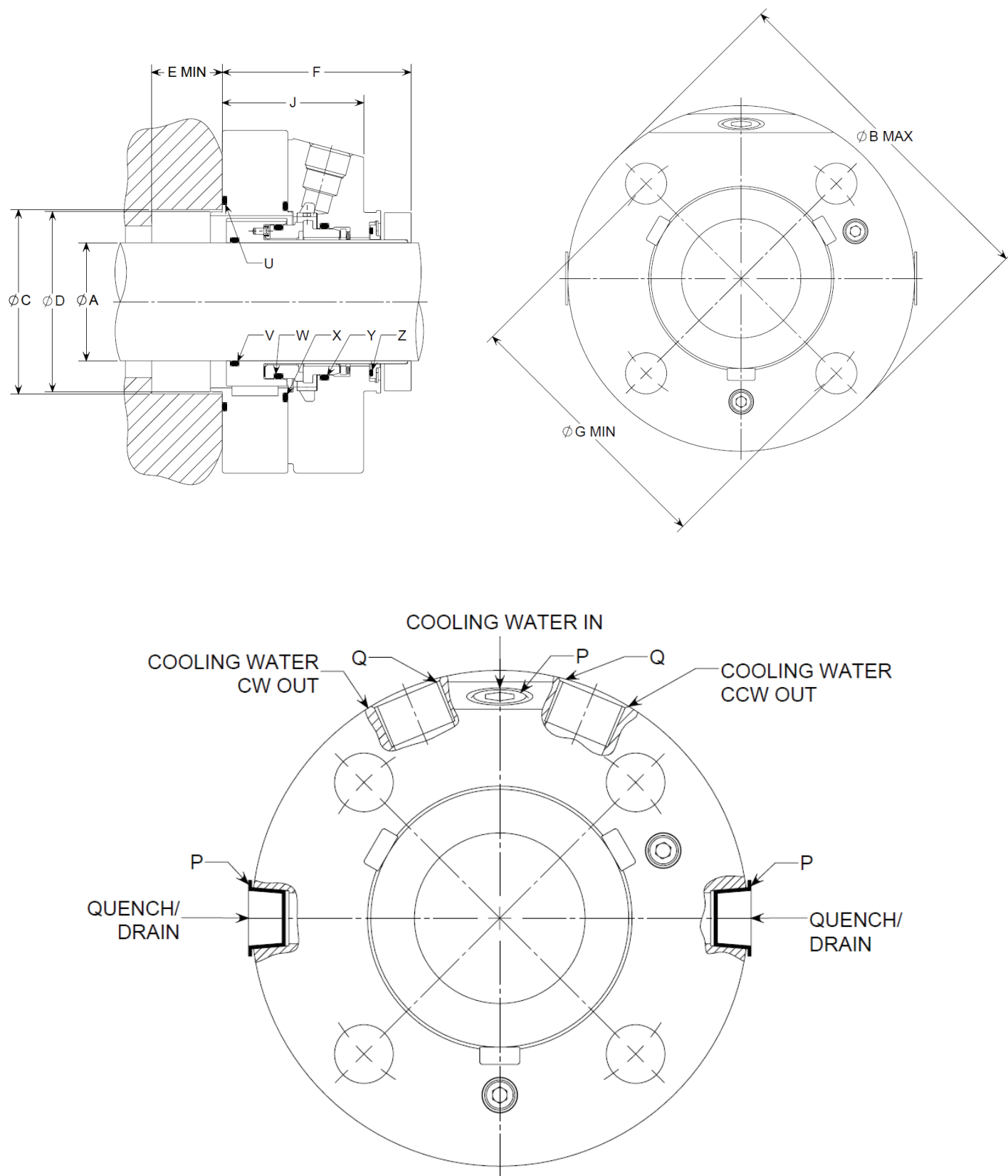
The mechanical seal is to be operated within the operating parameters as specified. For use beyond the intended application and/or outside the operating parameters, consult Chesterton Mechanical Seal Application Engineering to confirm the suitability of the mechanical seal prior to putting the mechanical seal in operation.

*Limits can change depending on operating conditions, size and seal ring material.

Consult Chesterton Mechanical Seal Application Engineering for operating conditions with a given application.

1.0 DESCRIPTION cont.

1.4 Dimensional Data (Drawings)



1.0 DESCRIPTION cont.

1.4.1 Dimensional Data

METRIC - Millimeters

SHAFT SIZE	GLAND OD	STUFFING BOX BORE	IB SEAL DIA	SB DEPTH	OB LENGTH	BOLT CIRCLE
A	B MAX	C MIN	D MAX	E MIN	F MAX	G MIN
25	104	*	51	5	77	*
28	104	*	54	5	77	*
30	104	*	56	5	77	*
32	104	*	58	5	77	*
33	111	*	59	5	77	*
35	111	*	61	5	77	*
38	114	*	64	5	77	*
40	127	*	66	5	77	*
42	127	*	68	5	77	*
43	127	*	69	5	77	*
45	139	*	71	5	77	*
48	139	*	74	5	77	*
50	139	*	76	5	77	*
53	152	*	80	5	77	*
55	152	*	81	5	77	*
58	152	*	86	5	77	*
60	152	*	86	5	77	*
65	164	*	92	5	77	*
70	196	*	104	5	91	*
75	202	*	110	5	91	*
80	203	*	114	5	91	*
85	212	*	120	5	91	*
90	215	*	124	5	91	*
95	222	*	129	5	91	*
100	228	*	135	5	91	*
105	229	*	142	5	91	*
110	238	*	145	5	91	*
115	242	*	151	5	91	*
120	267	*	155	5	91	*

*Customer defined upon order.

3.0 DESCRIPTION cont.

1.4.2 Dimensional Data

INCH

SHAFT SIZE	GLAND OD	STUFFING BOX BORE	IB SEAL DIA	SB DEPTH	OB LENGTH	BOLT CIRCLE
A	B MAX	C MIN	D MAX	E MIN	F MAX	G MIN
1.000	4.10	*	2.00	0.19	3.02	*
1.125	4.10	*	2.13	0.19	3.02	*
1.250	4.10	*	2.25	0.19	3.02	*
1.375	4.36	*	2.38	0.19	3.02	*
1.500	4.49	*	2.50	0.19	3.02	*
1.625	4.99	*	2.63	0.19	3.02	*
1.750	5.48	*	2.75	0.19	3.02	*
1.875	5.48	*	2.88	0.19	3.02	*
2.000	5.48	*	3.00	0.19	3.02	*
2.125	5.99	*	3.13	0.19	3.02	*
2.250	5.99	*	3.25	0.19	3.02	*
2.375	5.99	*	3.38	0.19	3.02	*
2.500	6.45	*	3.50	0.19	3.02	*
2.625	6.45	*	3.63	0.19	3.02	*
2.750	7.71	*	4.08	0.19	3.55	*
2.875	7.83	*	4.19	0.19	3.55	*
3.000	7.94	*	4.32	0.19	3.55	*
3.125	7.99	*	4.44	0.19	3.55	*
3.250	8.19	*	4.57	0.19	3.55	*
3.375	8.31	*	4.69	0.19	3.55	*
3.500	8.44	*	4.82	0.19	3.55	*
3.625	8.49	*	4.94	0.19	3.55	*
3.750	8.72	*	5.07	0.19	3.55	*
3.875	8.84	*	5.19	0.19	3.55	*
4.000	8.96	*	5.32	0.19	3.55	*
4.125	8.99	*	5.44	0.19	3.55	*
4.250	8.99	*	5.57	0.19	3.55	*
4.375	9.34	*	5.69	0.19	3.55	*
4.500	9.49	*	5.82	0.19	3.55	*
4.625	9.49	*	5.94	0.19	3.55	*
4.750	10.49	*	6.07	0.19	3.55	*

*Customer defined upon order.



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