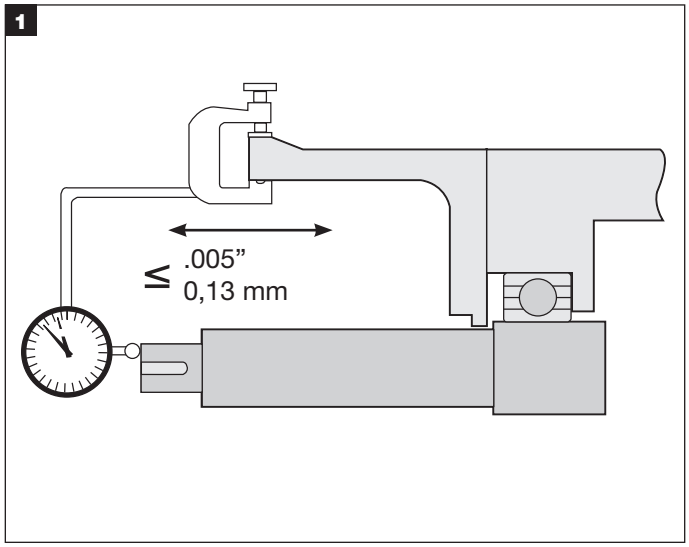
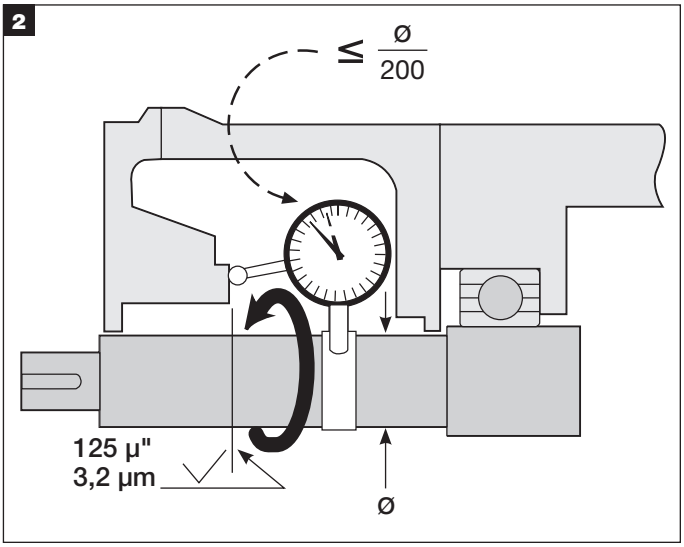
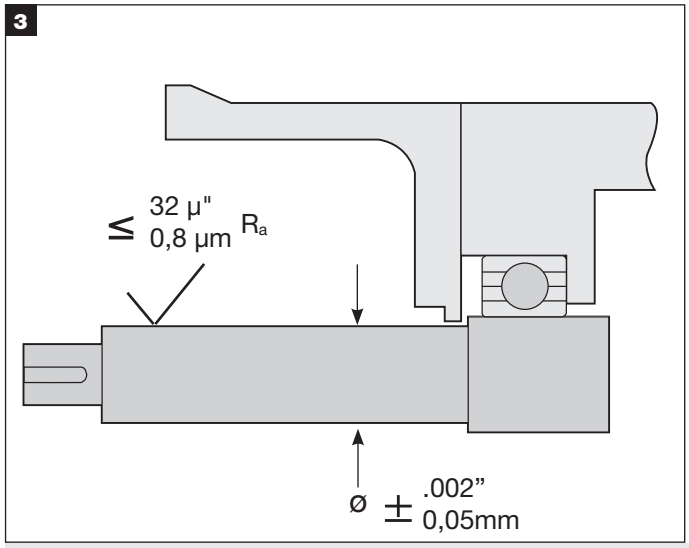
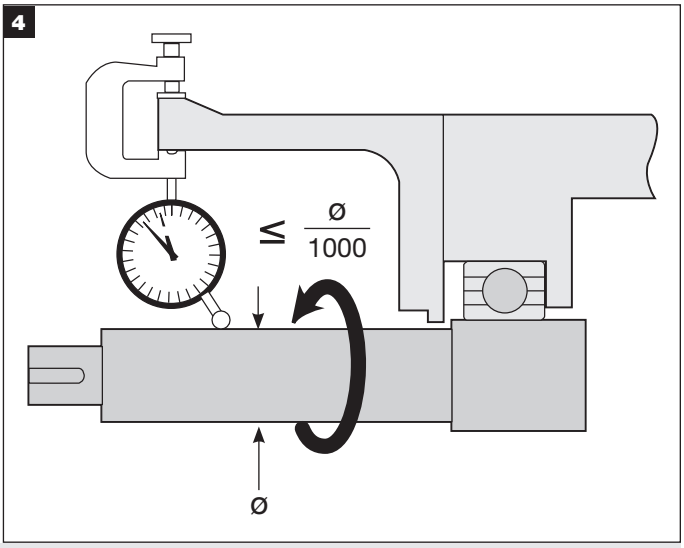
150L™ Cartridge Single Seal
Installation Instructions

EQUIPMENT PREPARATION







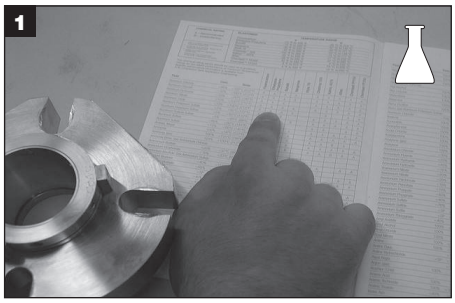


CAUTIONS

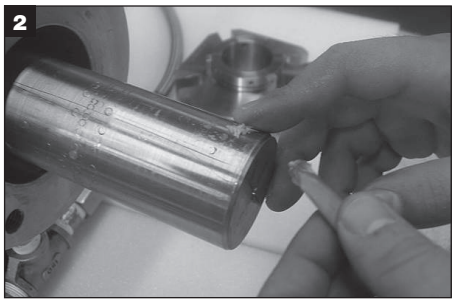
These instructions are general in nature. It is assumed that the installer is familiar with seals and certainly with the requirements of their plant for the successful use of mechanical seals. If in doubt, get assistance from someone in the plant who is familiar with seals or delay the installation until a seal representative is available.

All necessary auxiliary arrangements for successful operation (heating, cooling, flushing) as well as safety devices must be employed. These decisions are to be made by the user. The chemical listing is intended as a **general** reference for this seal **only**. The decision to use this seal or any other Chesterton seal in a particular service is the customer’s responsibility.

PREPARATION FOR SEAL INSTALLATION

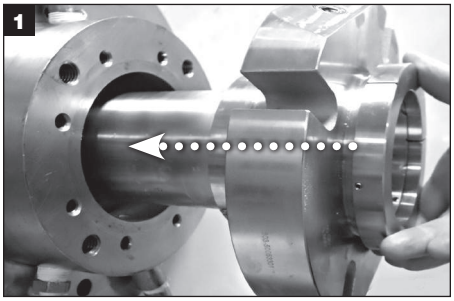


Check chemical listing to determine if the O-Rings installed in this seal are compatible with the fluid (s) being sealed.

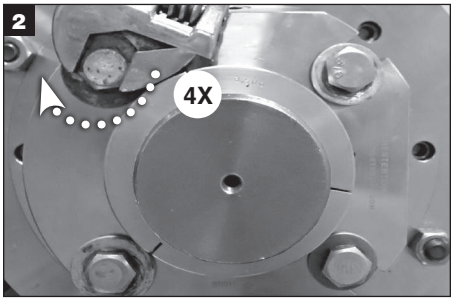


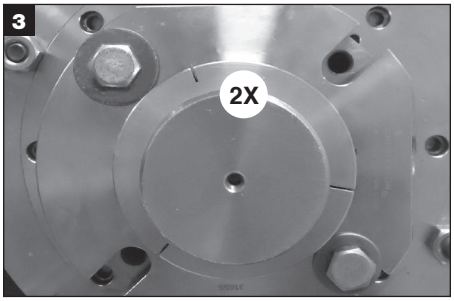
Apply a thin film of grease to shaft diameter.

SEAL INSTALLATION

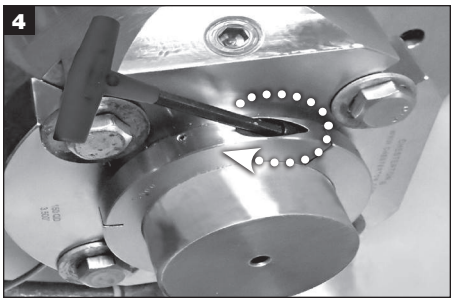


Slide seal onto shaft.





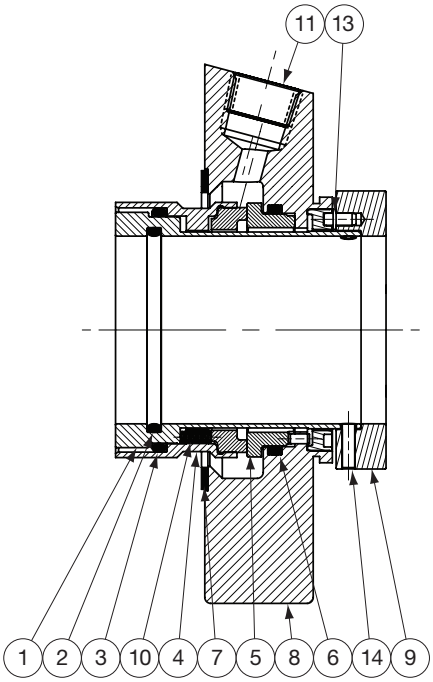
Align gland slots with bolt holes in stuffing box face and install bolts. Tighten gland bolts evenly.



Tighten lock ring socket head cap screw.

HARDWARE DATA

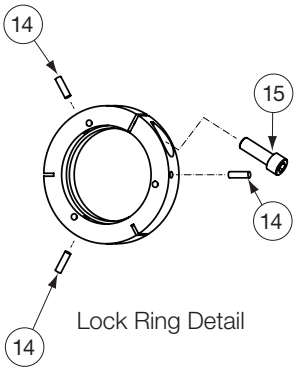
A (SHAFT SIZE)	(1.125" - 1.500")	(1.625" - 2.625")	(2.750" - 4.750")
P — NPT Size	1/4 - 18 NPT	3/8 - 18 NPT	1/2 - 14 NPT
R — Torque Value	5,7 - 6,8 Nm (50 - 60 in-lbf)	5,7 - 6,8 Nm (50 - 60 in-lbf)	24,9 - 27,1 Nm (220 - 240 in-lbf)
HEX KEY SIZE	3/16"	3/16"	1/4"



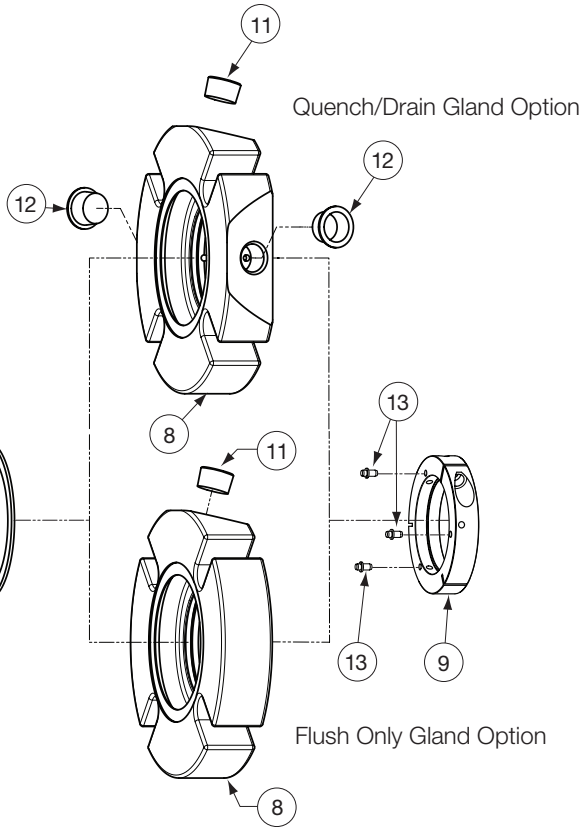
Shown with Quench/Drain Gland Option

KEY

1 – Sleeve
2 – Shaft O-Ring
3 – O-Ring
4 – Rotary Seal Ring Assembly
5 – Stationary Seal Ring
6 – O-Ring
7 – Gasket
8 – Gland
9 – Lock Ring
10 – Spring
11 – Pipe Plug
12 – Cap Plug
13 – Centering Pin
14 – Roll Pin
15 – Socket Head Cap Screw

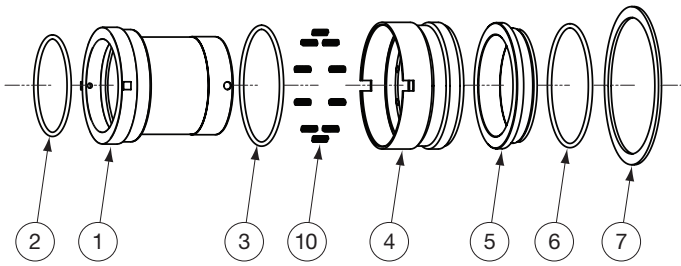


Lock Ring Detail

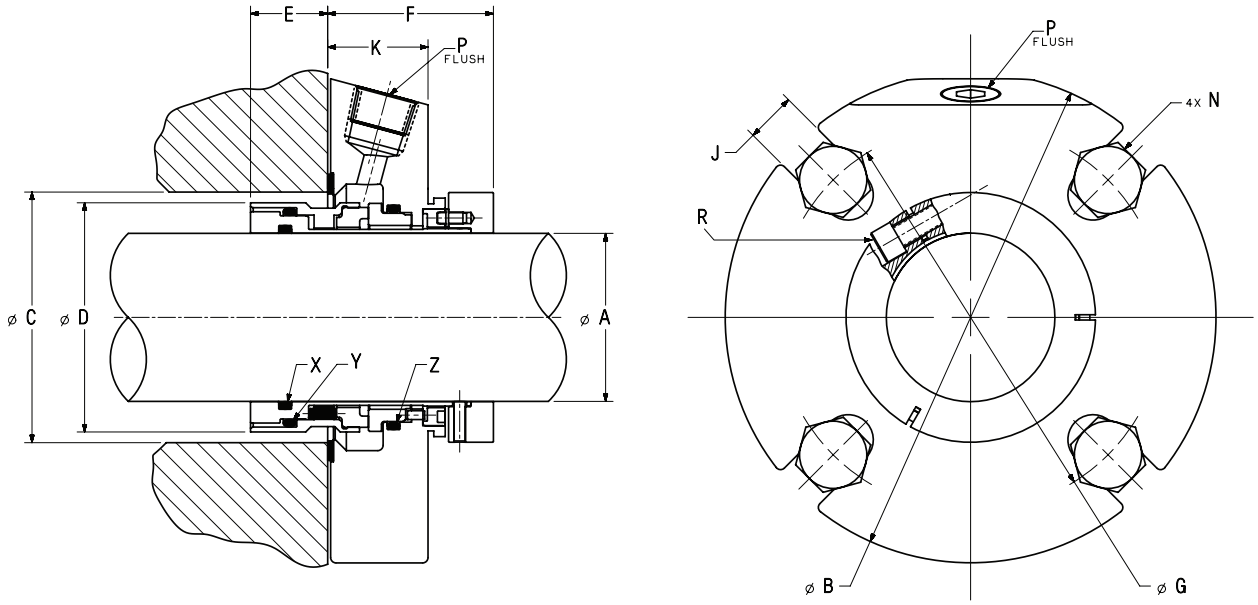


Quench/Drain Gland Option

Flush Only Gland Option



DIMENSIONAL DATA



A	B	C		D	E	F	G MIN			J	K	P	X	Y	Z
		MIN	MAX	MAX			3/8	1/2	5/8						
1.125	4.11	1.75	2.04	1.70	0.78	1.85	2.88			0.44	1.12	1/4-18 NPT	122	028	128
1.125 OS	4.49	2.50	2.75	1.70	0.78	1.85	3.71			0.44	1.12	1/4-18 NPT	122	028	128
1.375	4.36	2.00	2.33	1.95	0.78	1.85	3.13*	3.25*		0.57	1.12	1/4-18 NPT	126	030	132
1.375 OS	5.39	2.68	3.00	1.95	0.78	1.85	4.03			0.57	1.12	1/4-18 NPT	126	030	132
1.500	4.49	2.25	2.62	2.19	0.86	1.85	3.33	3.45		0.57	1.12	1/4-18 NPT	128	134	135
1.750	5.49	2.50	2.81	2.44	0.86	1.85	3.62	3.75		0.57	1.12	3/8-18 NPT	132	138	139
1.750 OS	6.64	3.37	3.75	2.44	0.86	1.85	4.63	4.75		0.57	1.12	3/8-18 NPT	132	138	139
1.875	5.49	2.63	2.94	2.57	0.86	1.85	3.75*	3.87*		0.57	1.12	3/8-18 NPT	134	140	141
1.875 OS	5.99	3.42	3.81	2.57	0.86	1.85		4.80		0.57	1.12	3/8-18 NPT	134	140	141
2.125	5.99	2.88	3.44	2.82	0.86	1.85	4.25	4.38	4.50	0.69	1.12	3/8-18 NPT	138	144	145
2.125 OS	6.99	3.75	4.25	2.82	0.86	1.85			5.37	0.69	1.12	3/8-18 NPT	138	144	145
2.500	6.49	3.25	3.81	3.19	0.86	1.85	4.62	4.75	4.87	0.69	1.12	3/8-18 NPT	144	150	151
2.500 OS	7.77	4.37	4.75	3.19	0.86	1.85			6.37	0.69	1.12	3/8-18 NPT	144	150	151
2.625	6.45	3.38	3.94	3.32	0.86	1.85	4.90	5.02	5.15	0.69	1.12	3/8-18 NPT	146	151	151
2.625 OS	6.98	4.38	4.78	3.32	0.86	1.85			5.90	0.69	1.12	3/8-18 NPT	146	151	151
							1/2	5/8	3/4						
2.750	7.70	3.75	4.38	3.68	1.38	2.27	5.42	5.55		0.69	1.47	1/2-14 NPT	232	236	238
3.000	7.94	4.00	4.69	3.93	1.38	2.27	5.65	5.77		0.69	1.47	1/2-14 NPT	234	238	240
3.000 OS	8.64	4.93	5.39	3.93	1.38	2.27	7.00	7.13	7.25	0.94	1.47	1/2-14 NPT	234	238	240
3.750	8.71	4.75	5.39	4.68	1.38	2.27	6.38	6.51	6.63	0.81	1.47	1/2-14 NPT	240	244	246
3.750 OS	9.76	5.08	6.40	4.68	1.38	2.27	8.25			0.69	1.47	1/2-14 NPT	240	244	246
4.750	10.49	5.75	6.47	5.68	1.38	2.27	7.40	7.53	7.65	0.81	1.47	1/2-14 NPT	248	252	254

*◎ Minimum bolt circle requires the use of D-washers

STANDARD MATERIALS

All Metal Parts: 316 SS / EN 1.4401
Springs: Alloy C276 / EN 2.4819
Rotary Face: Carbon; Silicon Carbide, Tungsten Carbide
Stationary Face: Silicon Carbide, Tungsten Carbide
Elastomers: Fluorocarbon, EPR, Perfluoroelastomer, FEPM

OPERATING LIMITS

Speed: Up to 3600 RPM
Process Pressure: 21 bar g (28" Hg Vacuum to 300 psig)
Temperature: Elastomers
To 150°C (300°F) EPDM
To 205°C (400°F) FEPM, FKM
Rotary Face
To 150°C (300°F) Silicone Carbide, Tungsten Carbide
To 205°C (400°F) Carbon

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