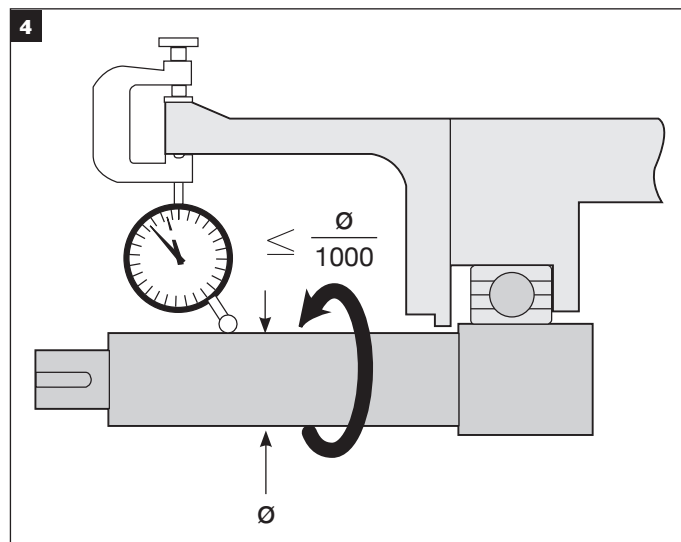
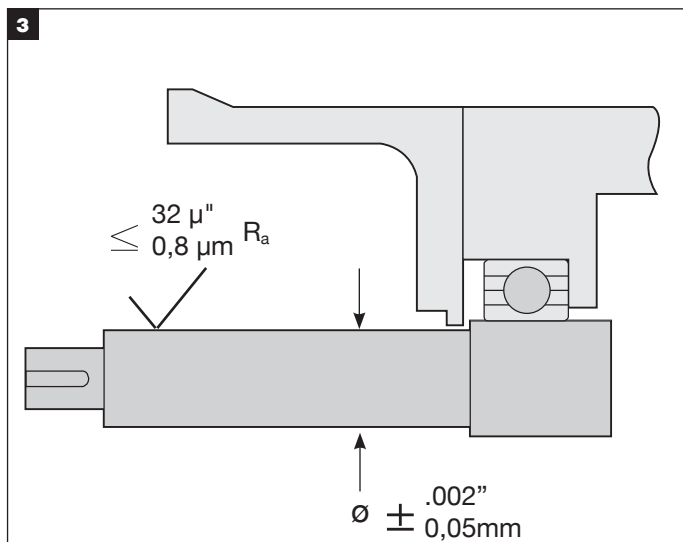
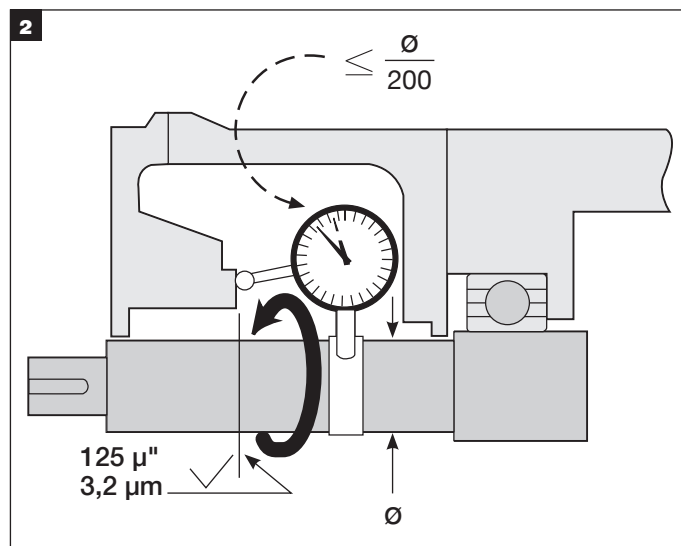
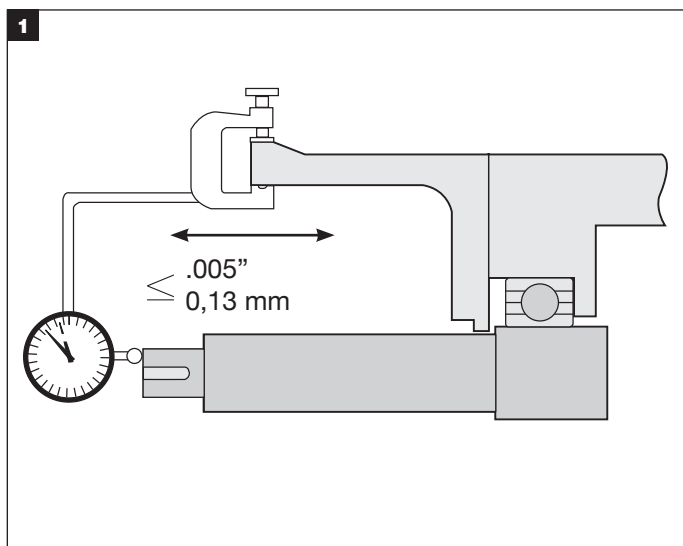




150L™ Cartridge Single Seal Installation Instructions

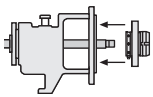
EQUIPMENT PREPARATION



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.

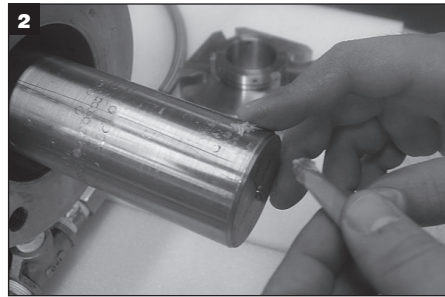
All necessary auxiliary arrangements for successful operation (heating, cooling, flushing) as well as safety devices must be employed. These decisions are to be made by the user. The chemical listing is intended as a **general** reference for this seal **only**. The decision to use this seal or any other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



PREPARATION FOR SEAL INSTALLATION

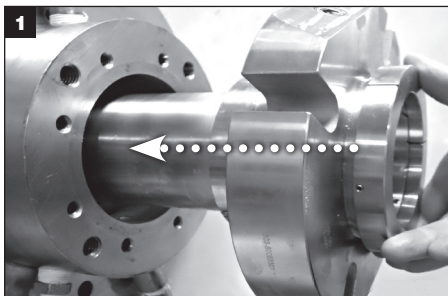


1
Check chemical listing to determine if the O-Rings installed in this seal are compatible with the fluid (s) being sealed.

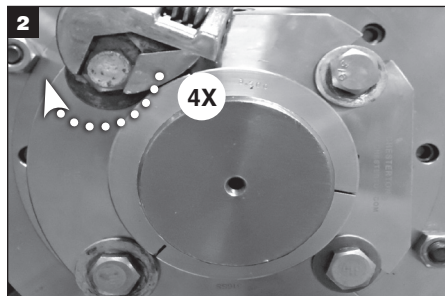


2
Apply a thin film of grease to shaft diameter.

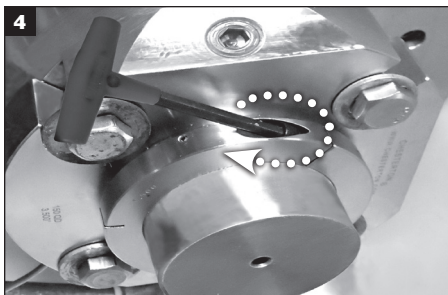
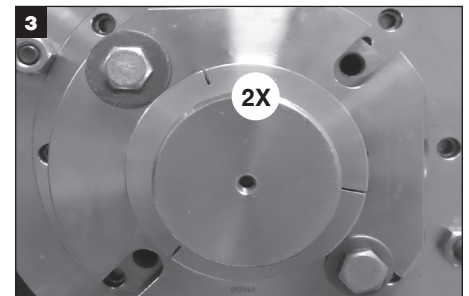
SEAL INSTALLATION



1
Slide seal onto shaft.



2
Align gland slots with bolt holes in stuffing box face and install bolts. Tighten gland bolts evenly.

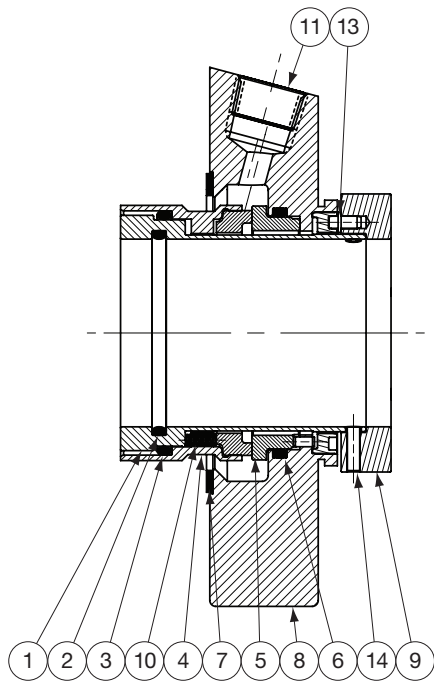


4
Tighten lock ring socket head cap screw.

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"

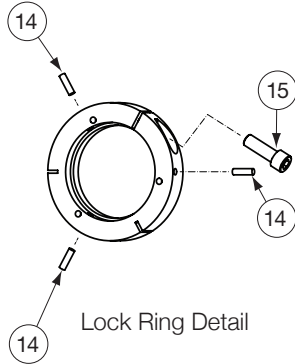
PARTS IDENTIFICATION



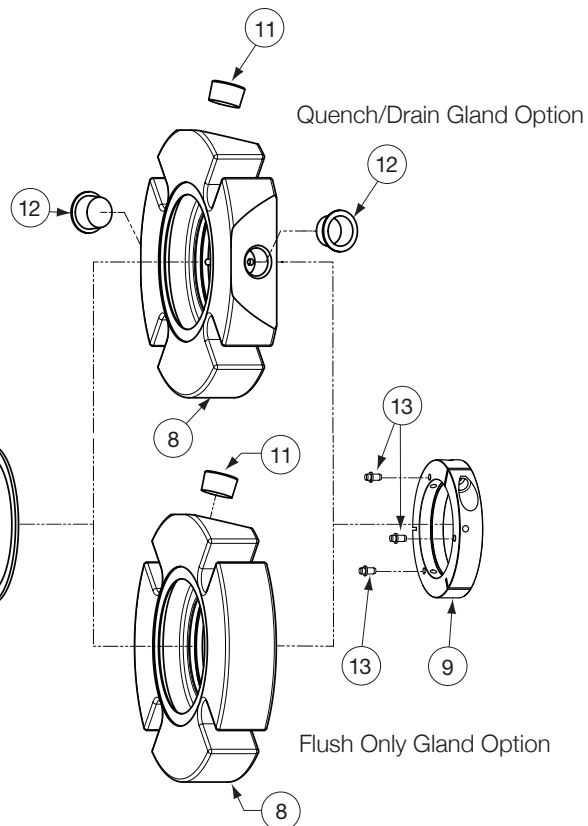
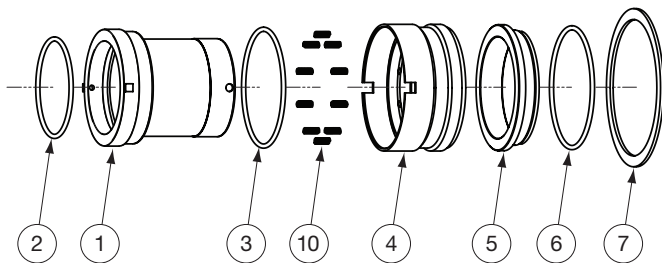
Shown with Quench/Drain Gland Option

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

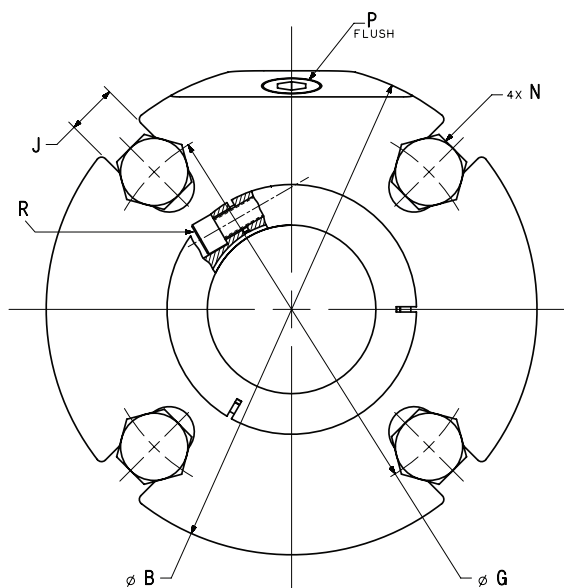
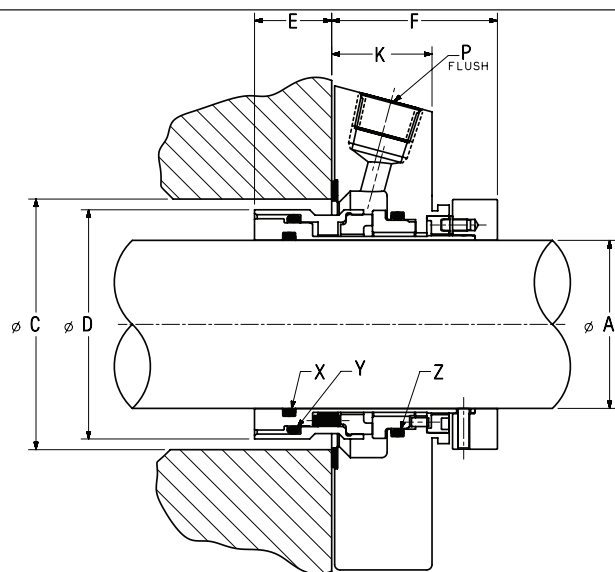


Lock Ring Detail



Flush Only Gland Option

DIMENSIONAL DATA



A	B	C		D MAX	E	F	G MIN			J	K	P	X	Y	Z
		MIN	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: 7 bar g (28" Hg Vacuum to 100 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



DISTRIBUTED BY:

Chesterton ISO certificates available on www.chesterton.com/corporate/iso

860 Salem Street
 Groveland, MA 01834 USA
 Telephone: 781-438-7000 Fax: 978-469-6528
www.chesterton.com

© 2025 A.W. Chesterton Company.
 ® Registered trademark owned by A.W. Chesterton Company
 in USA and other countries.

FORM NO. EN14065 REV. 5

03/25