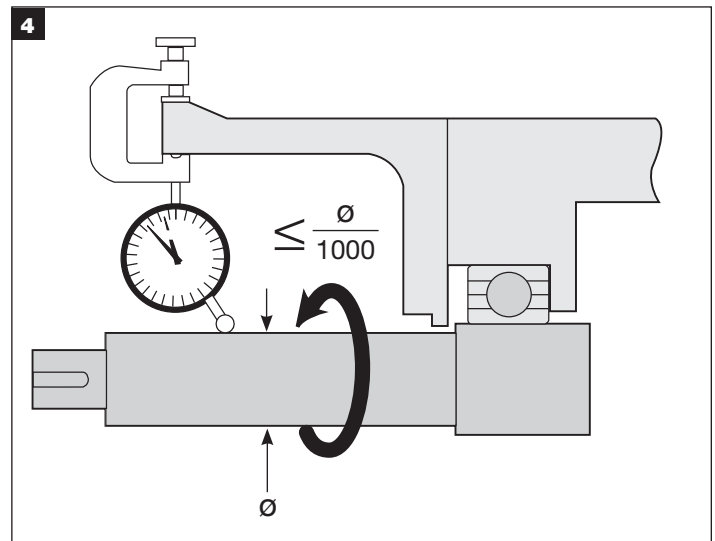
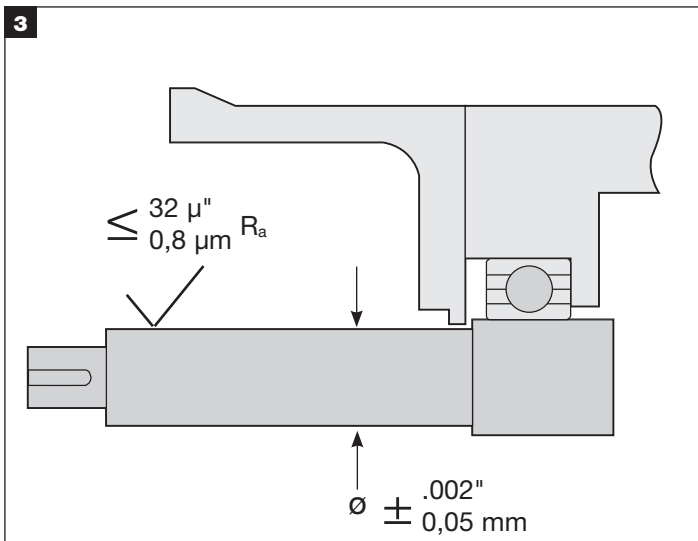
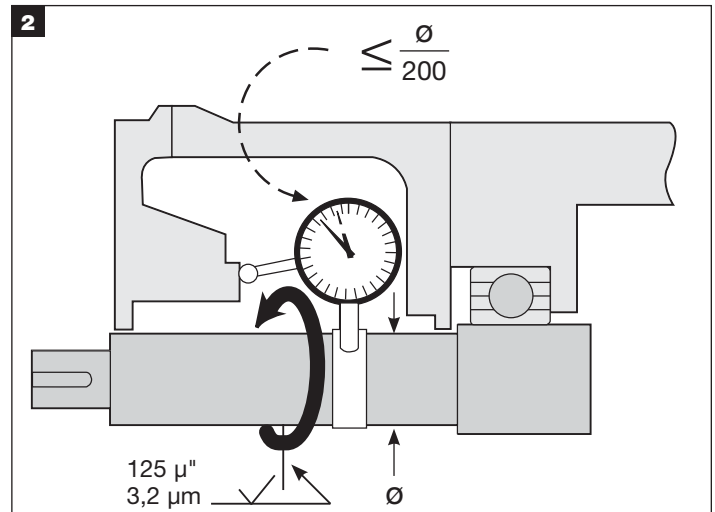
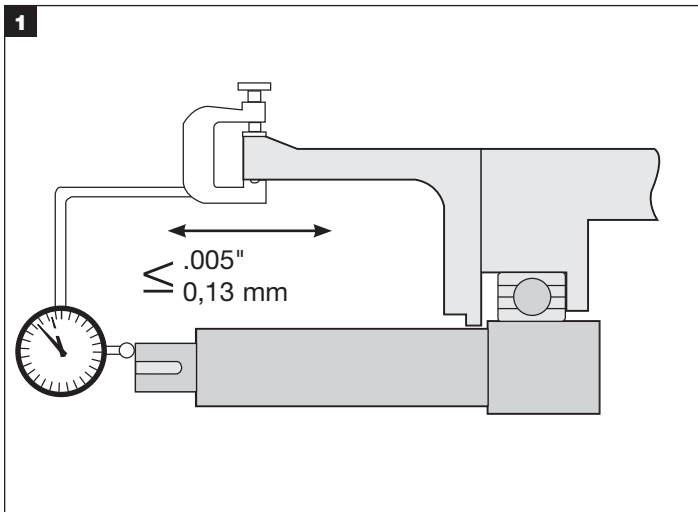




170 Slurry Cartridge Seal Installation Instructions

EQUIPMENT PREPARATION



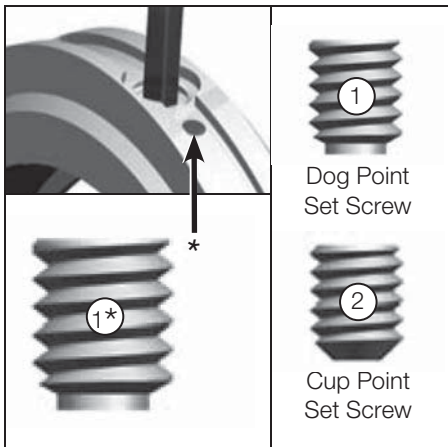
CAUTIONS

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.

170 LOCK RING ASSEMBLY AND TORQUE TABLE

TABLE 1: SET SCREW AND BOLTING TORQUE TABLE



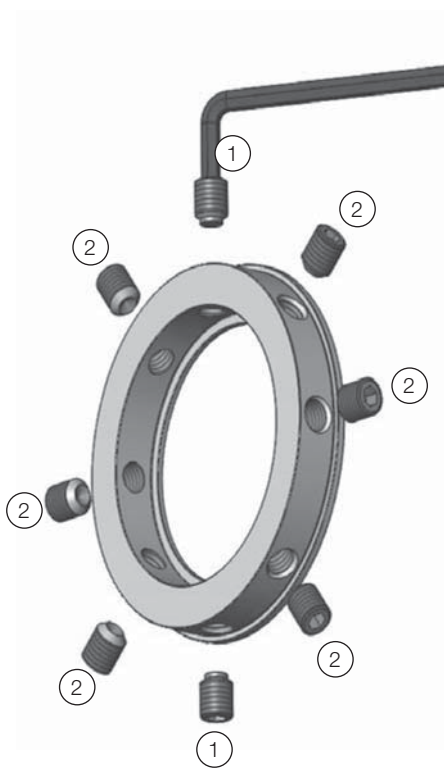
* See marks on OD of lock ring for Dog Point Set Screw location.

SEAL SIZE	DOG POINT SET SCREWS	CUP POINT SET SCREWS	GLAND BOLTS**
1.500" to 2.500" (38 mm – 60 mm)	45 – 55 in-lbf (5,0 – 6,2 Nm)	45 – 55 in-lbf (5,0 – 6,2 Nm)	20 – 30 ft-lbf (27 – 40 Nm)
2.625" to 3.875" (65 mm – 95 mm)	55 – 65 in-lbf (6,2 – 7,3 Nm)	55 – 65 in-lbf (6,2 – 7,3 Nm)	25-35 ft-lbf (34 – 48 Nm)
4.00" to 7.00" (100 mm – 180 mm)	110 – 120 in-lbf (12,4 – 13,5 Nm)	110 – 120 in-lbf (12,4 – 13,5 Nm)	40-60 ft-lbf (54 – 81 Nm)
7.25" to 12.00" (190 mm – 260 mm)	—	120 – 135 in-lbf (13,6 – 15,3 Nm)	40-60 ft-lbf (54 – 81 Nm)***

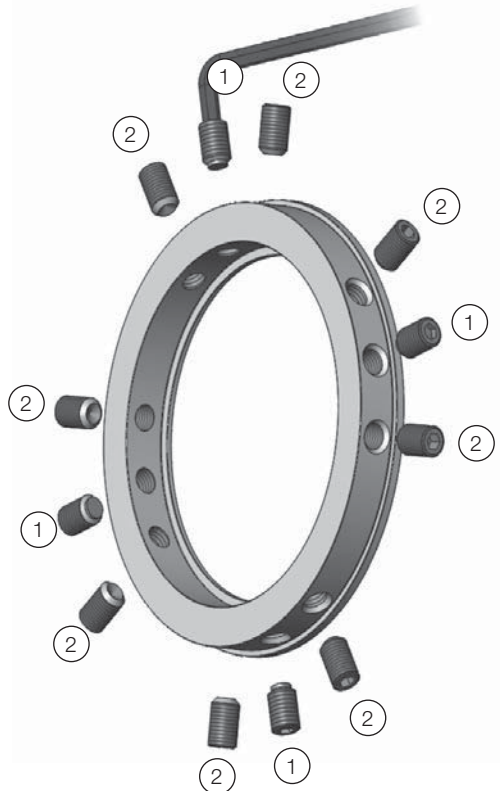
** Gland bolt torques are based on use of full quantity of bolts (i.e. 4 bolts on a gland with 4 holes/slots). Torque values should not exceed max. recommended by pump/agitator equipment manufacturer. Contact Chesterton Mechanical Seal Application Engineering for specific torque values.

*** For M20 (3/4") Gland Bolts

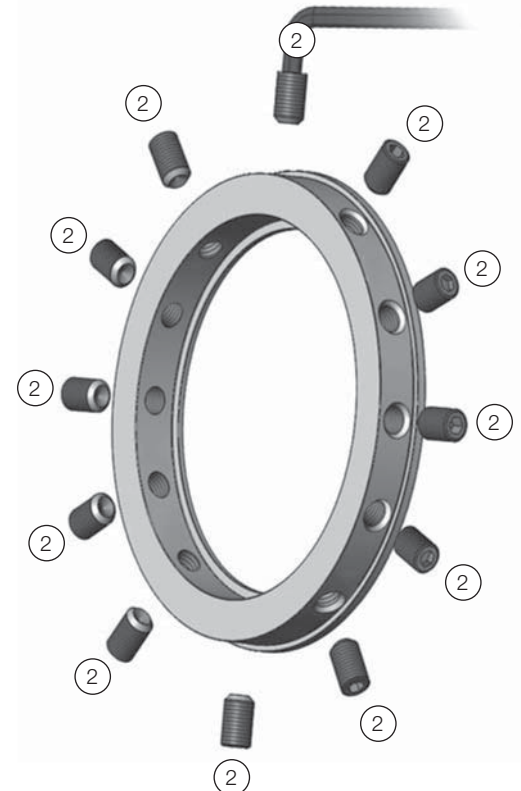
Small and Large 1.500" to 3.750" (38 mm to 95 mm)



Extra Large 4.00" to 7.00" (100 mm to 180 mm)



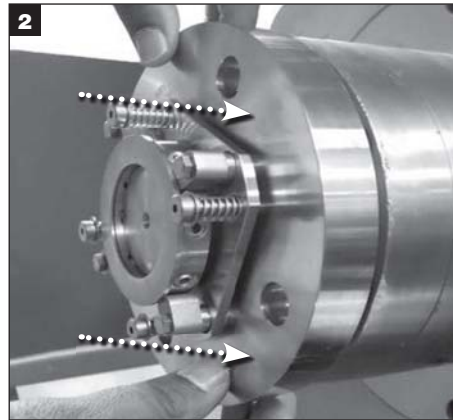
Jumbo 7.25" to 12.00" (190 mm to 260 mm) Cup Point Set Screws Only



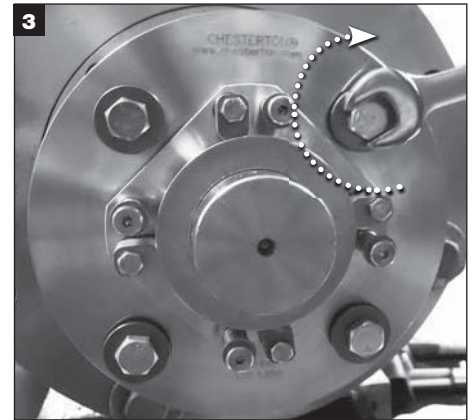
SEAL INSTALLATION



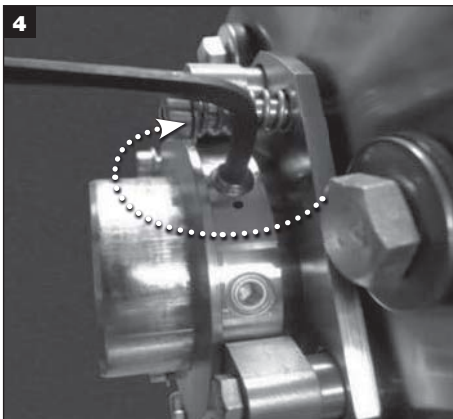
1 Remove seal from packaging and place on clean work surface.



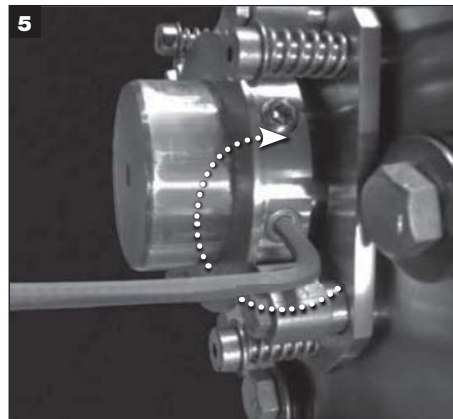
2 Apply a thin film of grease (*provided with seal*) on the shaft. Slide seal onto the shaft.



3 Tighten gland bolts as specified in **Table 1**. Reassemble the equipment. Make all necessary equipment and impeller adjustments.



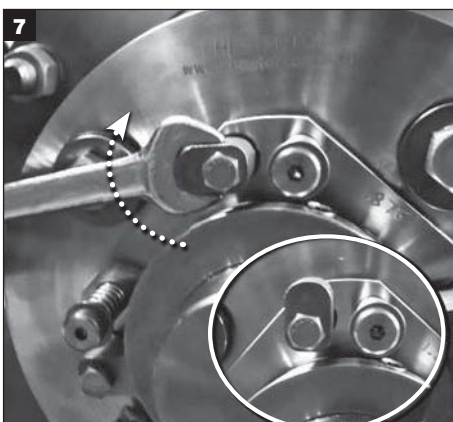
4 Alternately tighten the dog point set screws * as specified in **Table 1**.



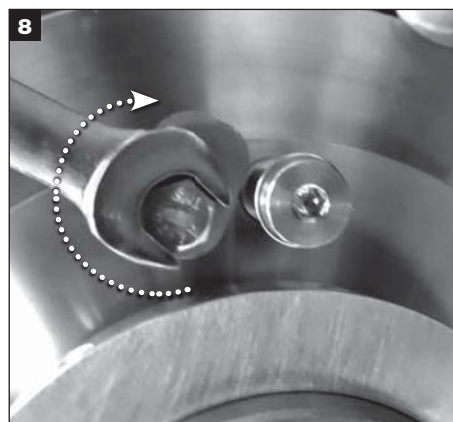
5 Alternately tighten the cup point set screws as specified in **Table 1**.



6 Loosen the hex head cap screws attached to the centering clips.



7 Turn the clips 180° from their original position.



8 Retighten the cap screws (*to hold clips in place*).

9 Make all necessary environmental control connections. Ready for Equipment Start-up.

OPERATING PARAMETERS

OPERATING LIMITS¹

For seal sizes 1.500" to 7.00" (38 mm to 180 mm)

Speed:

To 4000 FPM

Temperature:

To 400°F (205°C)

Pressure Limits:

To 250 psig (17 bar g)

For seal sizes 7.25" to 12.00" (190 mm to 260 mm)

Speed:

To 2400 FPM

Temperature:

To 400°F (205°C)

Pressure Limits:

To 150 psig (8 bar g)

STANDARD MATERIALS²

Metal Parts:

316SS

Rotary Face:

TC, SSC

Stationary Face:

TC, SSC

Elastomers:

FKM, EP, FEPM

¹ Seal pressure capabilities are dependent on the fluid sealed, temperature, speed, and seal face combination.

² Other materials available upon request.

Consult Chesterton Mechanical Seal Application Engineering for higher operating conditions.



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