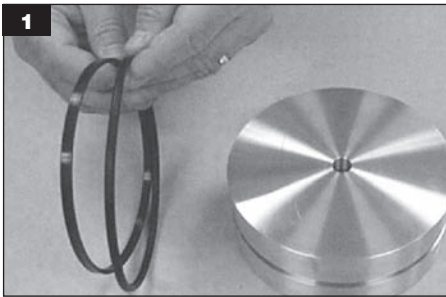


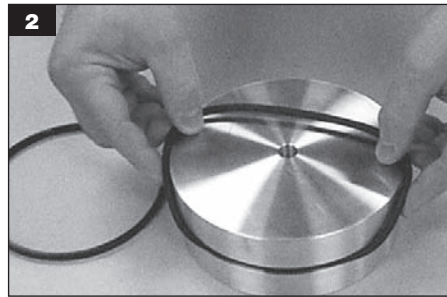


Custom Cap Seals (CCS)

PISTON SEAL INSTALLATION



CCS Components: Piston ring and O-Ring.



The O-Ring should be initially placed into the piston groove.

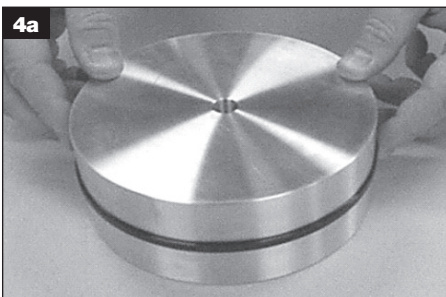


Piston ring made from polyurethane material is easily stretched.



The Piston ring made from modified PTFE material should be stretched minimally to place into the equipment groove. The modified PTFE materials need to be uniformly compressed into the groove. Care should be taken to avoid inconsistent stretching or overstretching.

3a and 3b. The piston ring is stretched over the equipment. If the piston ring is installed over wear ring grooves, the grooves should be either filled or covered with some type of plastic filler/tape.



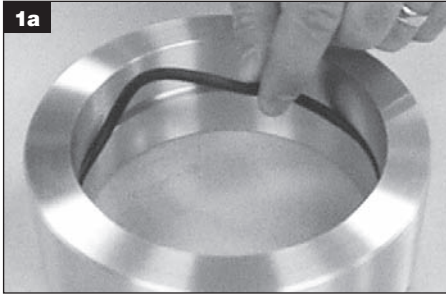
Piston ring made from polyurethane materials placed into the equipment groove.



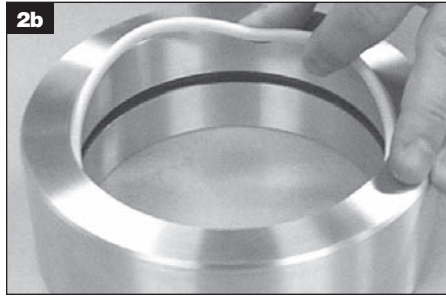
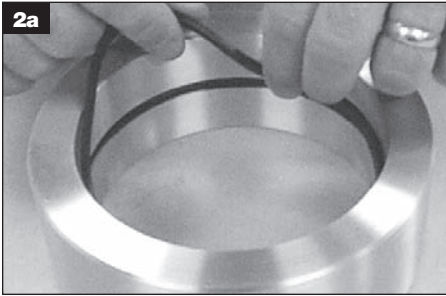
The modified PTFE materials need to be uniformly compressed into the groove.

4a and 4b. The piston ring is seated into the equipment groove. Installation of the piston head into the cylinder bore may be difficult if the leading edge of the bore is not large enough to accommodate the stretched piston ring. A compression sleeve can be used to resize the OD to the bore diameter. Care should be taken not to damage the OD surface of the piston ring.

ROD SEAL INSTALLATION



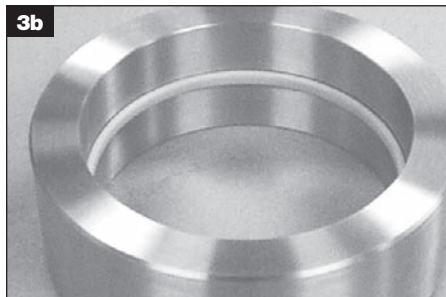
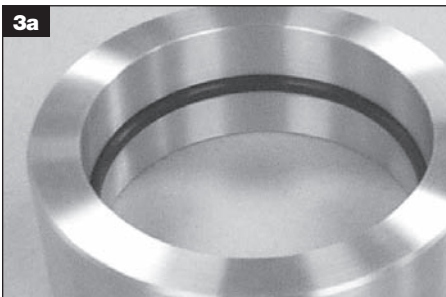
1a and 1b. The O-Ring should be initially placed into the rod groove.



2a and 2b. Rod ring is place into the equipment cavity.

Rod ring made from polyurethane material is deformed slightly to fit into equipment.

Rod ring made from modified PTFE material should be deformed minimally to place into the equipment groove. Care should be taken to avoid excessive deformation.



3a and 3b. Rod ring is placed into equipment groove.

Rod ring made from polyurethane materials snap into the groove.

Rod ring made from modified PTFE materials need to be uniformly seated into the groove.

All statements pertaining to pressures, temperatures, speeds and service ratings are based on general service experience. Because of a wide variety of applications of our products, the broad range of products available, and the wide range of equipment conditions encountered, together with unpredictable human factors involved in the installation of these products by the ultimate user, we do not encourage reliance on recommendations shown without specific prior service experience.

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

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