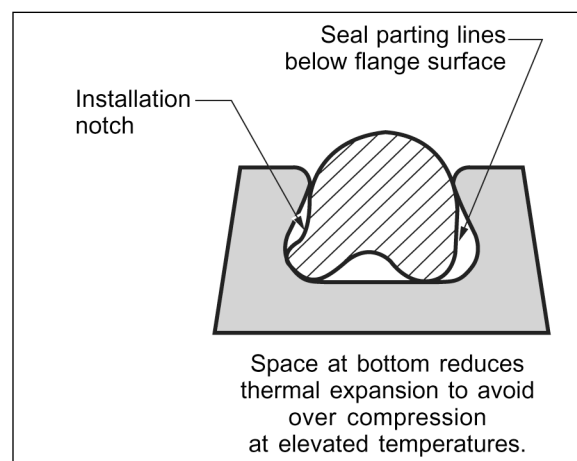
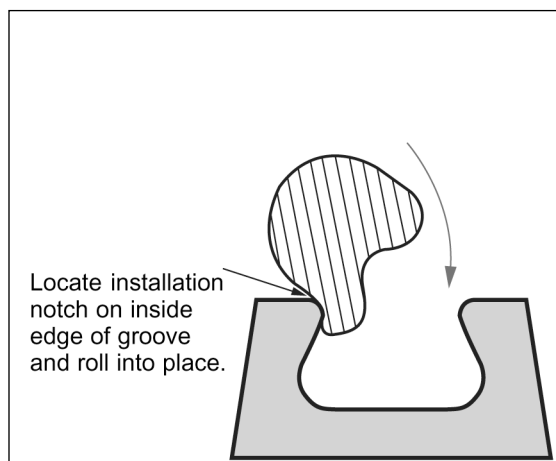


DuPont™ Kalrez® TriLobe™ Seals

Unique Seal Design + Material Performance
= Longer Seal Life

Technical Information—Rev. 3, July 2010

DuPont has developed a seal design to improve seal life in dovetail grooves. This design combines the excellent chemical, thermal and plasma resistance of DuPont™ Kalrez® perfluoroelastomer parts with a unique cross-sectional shape that eliminates many of the problems associated with semi-dynamic seal applications using a dovetail groove. These problems include installation difficulties as well as short seal life and particle generation due to seal wear and degradation.



Features and Benefits

- Molded notch makes installation a snap!
- Reduces installation time.
- Avoids improper installation.
- Geometry interlocks in groove to prevent seal from rolling and twisting during installation.
- Bottom lobes lock seal in place to resist pullout and movement during actuation.
- Seal parting lines are maintained below the flange surface, eliminating direct exposure to plasma or process chemicals.
- Seal design and compound selection combine to yield **REDUCED PARTICLE GENERATION** and **SIGNIFICANTLY INCREASED SEAL LIFE!**



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Suggested Applications

- Slit valve doors
- Gate valves
- Semi-dynamic sealing applications that utilize a dovetail groove configuration

Availability

- Molds have already been developed for a number of common slit valve door seal part sizes.
- A DuPont™ Kalrez® TriLobe™ seal can be developed to fit any size dovetail groove.
- The Kalrez® TriLobe™ seal is available in a variety of compounds. DuPont or its authorized distributors can help you determine the best compound to optimize seal performance for your set of process conditions.
- Contact an authorized distributor of Kalrez® parts for pricing and availability.

Visit us at kalrez.dupont.com or vespel.dupont.com

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