

## O-RING GROOVE DESIGN

### Contact Us for Assistance or Samples

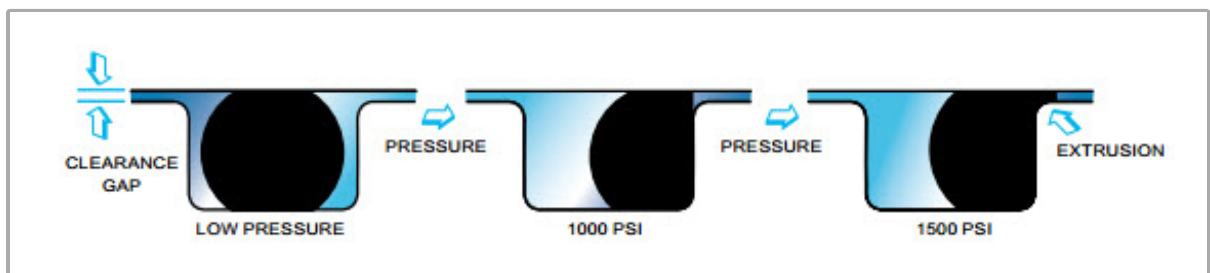
Designing the parts of an application where o-rings will be applied is broadly termed "o-ring groove design". In order to seal properly the o-ring has to deform in the application by being compressed and stretched in any number of ways. The design of the groove where the o-ring sits plays a major role in how the o-ring performs its sealing role.



**Extrusion Limits**  
**Standard AS568B**  
**Metric**  
**Dovetail**

## EXTRUSION LIMITS & O-RING CLEARANCE GAPS

An o-ring is



contained in a gland and forced to flow into the surface imperfections of the glands and any clearance gaps available to it.

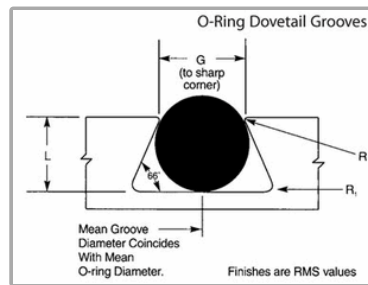
An o-ring can perform sealing by means of squeeze under low pressure conditions. The extent of extrusion depends upon the hardness of O-ring, the pressure, and the size of the clearance gap.

**Learn more about Extrusion Limits**

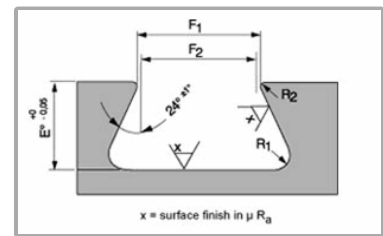


equipment. An undercut or dovetail groove has proven beneficial in many applications to keep the o-ring in place. This is an expensive groove to machine, however, and thus should be used only when absolutely necessary.

## Learn more about Dovetail O-Ring Grooves



**Standard Dovetail Grooves**



**Metric Dovetail Grooves**

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