



# Quick Opening Closure Anti-Extrusion Gasket Installation



To prevent **SERIOUS INJURY** and **PROPERTY DAMAGE**, you should read, understand and follow these Operating Instructions. Keep for future reference.

# 1 Anti-Extrusion Gasket Installation

1.1 Some very large and high pressure QOC closures will have an anti-extrusion (AE) gasket rather than an O-ring. The AE gasket is “T” shape, as shown in Figure 1, rather than round and has a square metal back up ring.

If your AE gasket is “L” shaped, as shown in Figure 2, then you have the older style AE gasket and you need to contact PECOFacet for product literature about that style AE gasket. When ordering a replacement AE gasket, PECOFacet will automatically supply the current “T” shape AE gasket.

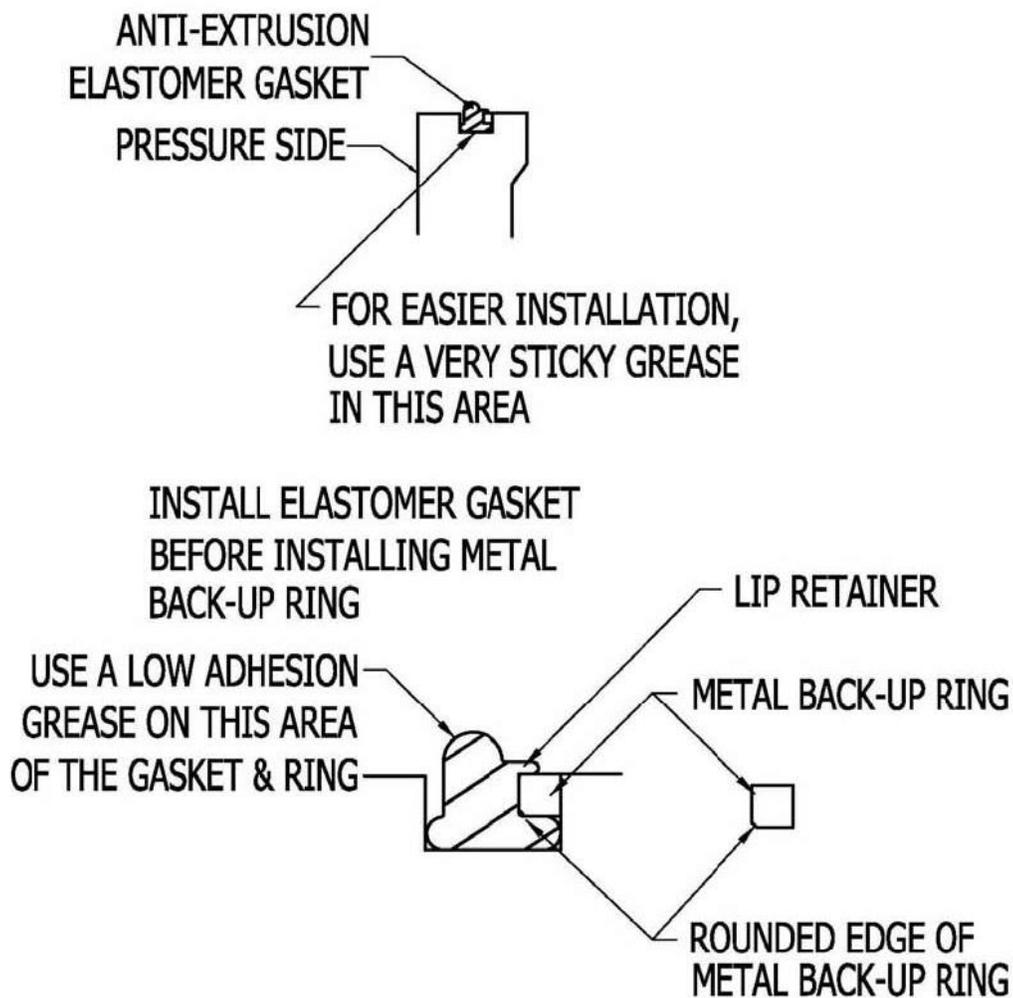
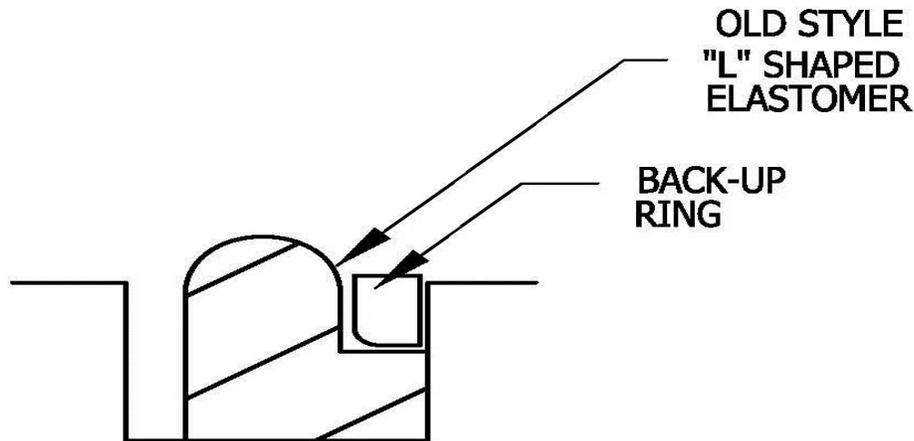


Figure 1: Anti-Extrusion Gasket Installation



**Figure 1: Anti-Extrusion Gasket (Old Style)**

- 1.2 See Quick Opening Closure Operating Instructions for complete details on O-ring gasket installation and care.
- 1.3 The AE gasket consists of a “T” shaped cross-section elastomer (rubber like) and a stainless steel square cross section back-up ring. Both the elastomer and metal back-up ring are bent into a circle that exactly fits the gasket groove. The elastomer gasket has a lip retainer that sticks out at the top and helps to hold the metal back-up ring in the groove during installation. This lip may shear off during operation of the closure, but this will not hamper the sealing capability of the AE gasket. The retainer lip is not necessary for the AE gasket to seal; it is only to aid in the installation.
- 1.4 The elastomer AE gasket should be installed before the metal back-up ring is installed. It fits tightly into the gasket groove. A small amount of sticky grease should be applied to the bottom of the gasket groove to help keep it in place during the installation process. The retainer lip goes to the outside of the QOC opposite the pressure side of the groove.
- 1.5 The metal back-up ring should be installed by working it under the lip of the elastomer AE gasket. It may take two or more people to hold the back-up ring partially in place until it is completely installed. The metal back-up ring has one rounded edge that has been ground down to eliminate the sharp edge. This edge should be the leading edge placed into the elastomer AE gasket first. See the illustration in Figure 1.
- 1.6 A light grease should be applied to the top of the elastomer AE gasket and metal back-up ring to aid in sealing.

- 1.7 Close the head (door) slowly and gently to not dislodge the backup ring from the AE gasket. Do not bump the head against the shell sub as this may dislodge the AE gasket.

If the QOC does not seem to be closing correctly when the Drawbolts are tightened; stop, back-off on the Drawbolts and check to make sure the AE gasket and backup ring have not come out of the groove.

## **NOTICE**

**If the AE gasket and metal back-up ring come out of the groove when the QOC is closed, it will damage the sealing surfaces and necessitate a costly repair. Take every precaution to keep it from coming out during the closing process.**

- 1.8 For large horizontal closures with the AE gasket, close the head (door) to within 1" of the sub gasket surface. Use a come-along attached to the handle and front vessel saddle to slowly close the head (door) the remaining 1" distance.
- 1.9 The AE gasket should be replaced every time the QOC is opened. The metal back-up ring does not have to be replaced unless damaged.