

Tri-Loc[®] Seat Retention System

- Over 30 years of proven dependability.
- The Tri-Loc seat retention system provides positive mechanical retention of the valve seat while allowing easy adjustment or replacement.
- The seat is secured by three methods: clamp force, through-bolting, and opposing machined shoulders in the disc and seat retaining ring. Clamp force is provided by tightening the cap screws. Tightening the screws applies pressure to the seat retaining ring, which in turn creates a “clamp force” on the Buna-N molded seat. These same cap screws provide through-bolting seat retention by passing through precision molded holes in the Buna-N seat. Finally, molded recesses in the Buna-N seat are captured by machined shoulders in the disc and retention ring preventing outward movement of the seat.
- In addition to the Tri-Loc system, Nylok[®] bolts are utilized to further ensure trouble free operation. Nylok[®] bolts include a nylon insert that prevents the bolt from loosening due to vibration in severe service applications. An example of a severe application with extremely high vibration where Nylok[®] bolts are commonly used is in snowmobile running tracks. The bolts are subjected to severe abuse but maintain their position.
- The Tri-Loc system has been field proven for over 30 years in thousands of installations throughout the world.

