



# Features & Benefits

## Leak-Proof Seal

AISI 304 series stainless steel components and high impact polyamide (nylon) securing cage provide sufficient band load to ensure a water-tight, leak-proof seal that is resistant to both infiltration and exfiltration.

Large surface cylindrical contact and sealing area.

A bedding channel on both sides of the tension bands ensures reliable and secure band guidance.

Stainless steel tension bands with click-lock mechanism ensure reliable, rapid and uniform assembly.





# Features & Benefits

## Corrosion Resistant

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AISI 304 series stainless steel components provide highly effective corrosion resistance in a variety of environments; such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates.





## Features & Benefits

# Withstands Tension & Compression

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Injection molded EPDM rubbers permit a substantial degree of distortion without change in basic physical resistance, unlike other manufacturers' thermoplastic gasket materials. Molded rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth, natural erosive properties of soil and normal sewer gases. More pliable and easier to install in cold weather applications than an elastomeric PVC gasket.



## Features & Benefits PVC vs. Rubber

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Internationally, the overwhelming trend is for local bodies to exclusively specify vulcanized rubber elastomers. This choice is made simple due to the **long term advantages vulcanized rubber elastomers offer over plasticized PVC.**

**Stress Relaxation** and **Compression-Set** are very important parameters for long term performance.



# Features & Benefits

## PVC vs. Rubber

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### Stress Relaxation:

A coupling achieves and maintains an effective seal by resisting compression under stress, thus imparting an interface pressure against the pipe surface. Over time all materials will relax under this pressure and the seal effectiveness will be diminished. **The elastomers ability to resist this relaxation determines the overall amount of time it will retain an effective seal.**



# Features & Benefits

## PVC vs. Rubber

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### Stress Relaxation:

PVC materials typically relax at a rate of 15% per decade, compared to 6% relaxation per decade of rubber. It can be seen that from the same initial contact pressure, the higher rate of relaxation of the PVC material means the joint drops below acceptable sealing threshold in as little as 1000 hrs., whereas **rubber elastomers retain an effective barrier against infiltration, exfiltration and root intrusion for well over 100 years.**



# Features & Benefits

## PVC vs. Rubber

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### **Compression-Set:**

This property of an elastomer is probably its most essential.

A seal under compression must not lose its resistance to being compressed. An elastomer must fit tightly between two fixed surfaces. If the fit isn't tight, fluid will leak, and the purpose of the elastomer is violated.



# Features & Benefits

## PVC vs. Rubber

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### Compression-Set:

By its chemical nature PVC has little or no resistance to compression. The plasticizer which makes the PVC non-rigid will migrate, leach and dissipate causing the elastomer to shrink.

The chemical bonds which connect the individual polymers within a rubber compound provide the primary resistance to compression. Plastics are void of such chemical bonds and consequently, have poor resistance to compression.





## Features & Benefits Joint Movement Restraint

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The coupling's rugged construction provides superior load bearing control between the coupling and pipe surface, for excellent resistance to shear forces and deflection; helping with alignment, while maintaining flexibility.

Deflection is possible on each side up to 3°.

