



# Vulcan Encapsulated O-rings

## Vulcan **BLEED LINE FREE** vs **Q-GRADE** Production



All Vulcan Bleed Line Free & Q grade FEP O rings are **manufactured to our tightest, published tolerances.**



All Vulcan Bleed Line Free & Q grade FEP O rings utilise the very highest quality **Dupont FEP/PFA tubing, Viton core and industry leading Silicone compound.**



All Vulcan Bleed Line Free & Q grade FEP/PFA Tubing is **FDA, USP Class VI & Sanitary 3A** compliant.



All Vulcan Bleed Line Free & Q grade FEP O rings meet the same **Temperature, Pressure, Shore Hardness, Chemical compatibility specifications.**

## So why specify **BLEED LINE FREE** production???



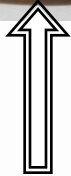
Bleed Line Free FEP 'O' rings are produced using a Special Moulding process cycle some **THREE** times that of Q-grade FEP 'O' rings. It is this moulding process that creates;

- 1) **An exact tolerance Weld Area.** This ensures any reduction between the Cross Section and Weld area is minimised. In our experience, such quality is generally specified in highly critical Chemical and Valve applications.
- 2) **A Weld area without impression marks.** Due to the moulding process of Q-grade FEP 'O' rings, an Impression mark is left within the Weld Area that is commonly known as a 'Scratch' Mark. Such mark is present in 75% of the worlds FEP 'O' rings and will not present a problem to most applications. Vulcan Bleed Line Free 'O' rings eradicate such impression mark to deter any potential customer complaints or queries.



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Example pictures of **Q-grade** and **Bleed Line Free Production**



**Bleed Line Free Production**  
**NO Impression mark**

**Q-grade Production**  
**Impression mark**

