

DuPont™ Kalrez® 0090 Perfluoroelastomer Parts For Ball Valves in Refineries

Ball valves are primarily used for shut-off applications in the Energy industry and must function in a wide range of chemical environments, both gas and liquid, where significant performance differences are often observed between various types of sealing materials. Kalrez® 0090 O-rings are TOTAL and Norsok compliant with exceptional chemical resistance and Rapid Gas Decompression performance making them an excellent choice for refinery, ball valve applications.

- **Chemicals:** Sour feed gas (gas/vapor)
5 to 15% H₂S, 2 to 5% CO₂
- **Process conditions:** -7 to 121 °C
71 to 85 bar
- **Incumbent solution:** Competitive FFKM
- **Incumbent performance:** 6 to 12 months before failure

Kalrez® 0090 O-ring performance:

- Thanks to the exceptional chemical resistance and outstanding RGD (Rapid Gas Decompression) performance, Kalrez® 0090 O-rings outperform competitive FFKM seals and exhibit very little or no seal degradation.
- They exceeded the performance requirements of 24 months, resulting in significant cost savings by reducing additional maintenance and associated shutdowns while increasing reliability and safety.



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(06/2022) Reference: KZE-A40121-00-0622