

Overview

- **Product:** Low out-gassing FKM Vulc O Rings
- **Size:** 6mm cross section x 2500mm ID with tight tolerances to +/- 0.05mm on CSD
- **Application:** High precision transfer valve used in the semi-con and solar photovoltaic market



- **Additional Details:** VAT is marketing leading, assembling state-of-the-art systems in a clean environment

What's special about our solution?

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- **Zero Risk of Contamination:** The transfer valve and the seal have to provide no risk of contamination on the media being transferred through the valve
 - **To Withstand Extreme Vacuum Pressure:** Vacuum pressures of 10^{-7} bar of negative pressure can typically be seen in this process
 - **Low Compression Set and Low Out-Gassing:** The material used is a low compression set FKM put through stages of post-curing that removes chemicals which may leach out of the rubber compound
 - **Argon Gas Packaging:** The seal is packed in a clean room environment in Argon-filled bags to ensure it reaches the end user in a perfect condition

- **Unrestricted Manufacturing Valves:** Prior to NES being able to offer this solution, the customer was restricted to manufacturing gate valves with a maximum throat size of 1m, this placed commercial constraints on the customer. Bespoke NES Vulc O Ring products allowed the customer to have more flexibility around throat size that led to \$000ks of cost saving for the customer