



Data / Specification Sheet

Pikotek VCS FireSafe Isolation System

Description

The VCFS utilizes Pikotek's standard VCS Design with its twenty plus year track record of success in sealing Very Critical Service. The FS Version was created by taking a standard VCS configuration and adding a Secondary Sealing Element that is capable of maintaining a seal while subject to a 1500 degrees F Fire. The VCFS combines the VCS's proven track record of Electrical Isolation and Sealing Integrity in aggressive situations with a solution that fully passed the API 6FB, 3rd Edition Fire Test.

Service & Availability

The VCFS is suitable in all services up to and including ANSI 2500lb and is offered for Ring Type Joint (RTJ) Flanges from 6" to 24" and Raised Face Flanges from 2" to 24".

The VCFS is designed for service where the cost of Joint Failure cannot be tolerated and the Operator desires both Electrical Isolation & added Sealing Integrity in the event of a fire.

Product's Features

The VCFS consists of a PTFE Spring-Energised Primary Sealing Element and an "E" Ring Secondary Seal, all seated in a High Strength Metal Core upon which an Insulating Laminate is permanently bonded. Due to its unique pressure activated sealing mechanism, the Gasket requires far Less Bolt Stresses to seal than other gasket types. In addition, the engineering "E" Ring will serve as a Secondary Seal during normal operating conditions and the Primary Sealing Element during a fire.

Typical Physical Properties

COMPRESSIVE STRENGTH	65,000psi
DIELECTRIC STRENGTH	750 to 800 VPM
WATER ABSORPTION	0.1%
TENSILE STRENGTH	50,000psi

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