

# STANDARD SINGLE CARTRIDGE SEALS

## VGS - VERSATILE GENERAL SERVICE SEAL

The springs in the **VGS** are located in the seal gland and are not subjected to centrifugal forces permitting operation on high PV applications. The stationary design eliminates seal face misalignment and is ideal in pulp & paper, chemical processing, wastewater treatment, and wherever high speed applications are found.

### Stationary Design

The seal faces are squared 90° to the centerline of the shaft preventing misalignment and allowing for better control of the parallel sealing gap eliminating axial adjustments that cause wear.

### Cartridge-Mounted

A completely self-contained unit pre-assembled and pre-set at the factory for ease of installation.

### Compact

The narrow cross-section allows for installation on stuffing boxes with minimal radial space without requiring modifications. This includes small ANSI pumps with 5/16" radial space.

### Versatile

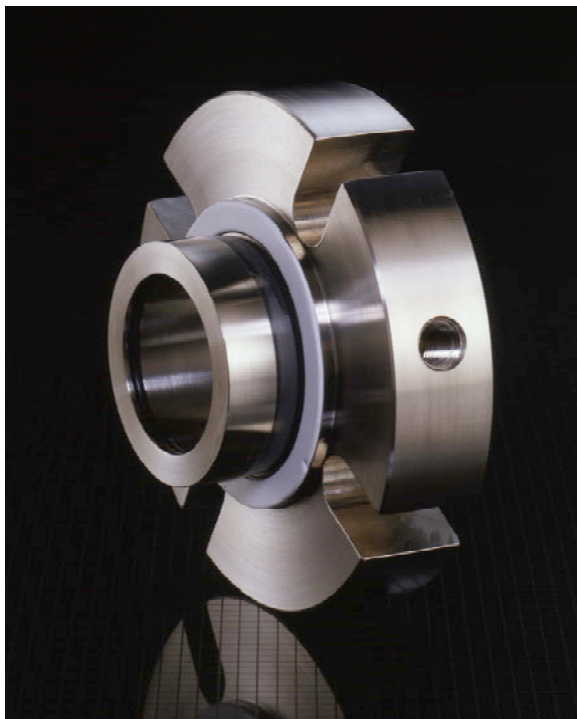
The seal gland is slotted to provide versatility for mounting and machined for superior strength and corrosion resistance.

### Hydraulically Balanced

Internal balancing provides for operation in higher pressures and reduces hydraulic loads providing for cooler operation and extended reliability. The balance feature also reduces power consumption.

### Isolated Multiple Springs

Multiple springs provide even mechanical loads for cooler operation and are isolated to prevent clogging from process fluids containing suspended solids.



## VGS - SPECIFICATIONS

### Metal Parts:

Standard metal parts and set screws: 316 SS  
Standard springs: Hastelloy® C

### Face Materials:

Standard: High quality chemical grade carbon-graphite, solid nickel bound tungsten carbide, silicon carbide, and ceramic

### O-ring Materials:

Standard: Viton®, EPR and Aflas™  
Optional: Perfluorinated Elastomers

### Operating Capabilities:

Pressure: To 350 psig (24 bar g)  
Temperature: 32° to 400°F (0° to 205°C)  
Speeds: 7500 fpm (38 m/s)

