

# PRX-VMS Program

Building on 160+ years of Goulds Pumps experience, PRO Services provides an array of services focused on reducing equipment total cost of ownership (TCO) and increasing plant output, including predictive monitoring, maintenance contracts, field service, engineered upgrades, inventory management, and overhauls for pumps and other rotating equipment.

## What is PRX-VMS?

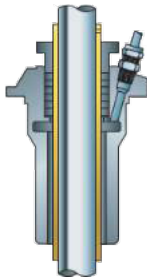
The PRX-VMS is a program designed to facilitate upgrading of the seal interface on vertical pumps from packed gland to mechanical seal. The mechanical seal interface used in this upgrade is in accordance with the Goulds Pumps vertical product standards. These products were established in 1969 and Goulds Pumps has over 15,000 vertical pumps installed globally.



## The Difference

### Packed Gland

Early method of sealing the pump shaft by means of compressing multiple flexible rings to create a seal.



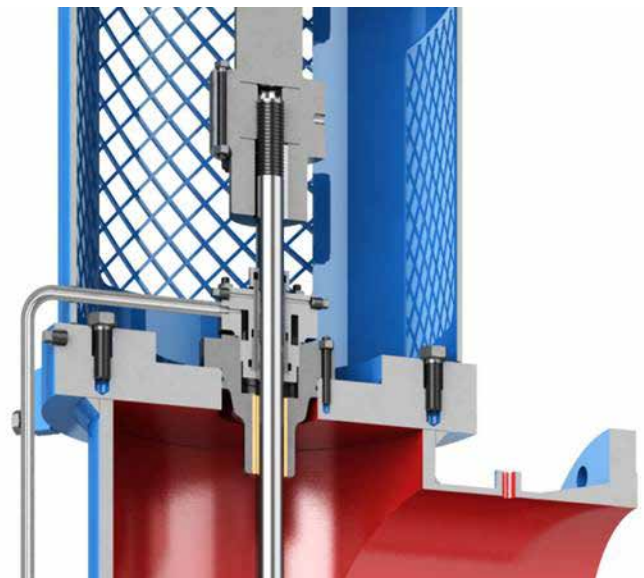
### Mechanical Seal

Modern precision sealing device which seals the pump through close running stationary and rotating faces.



## The Benefits

- **Increased reliability**  
Eliminates fretting or grooving of the shaft due to wear which **reduces operating cost** associated with the replacement of sleeves and shafts.
- **Reduced maintenance**  
Provides for reduced pump maintenance as seal does not need to be tightened like a packed gland.
- **Improved environmental impact**  
More precise and reliable control over leakage of pump fluid.



## Standard Upgrade Scope

Generally, packed gland pumps have a non-spacer coupling. If you need to service the mechanical seal without removing the motor, you will need the items identified in image 1.

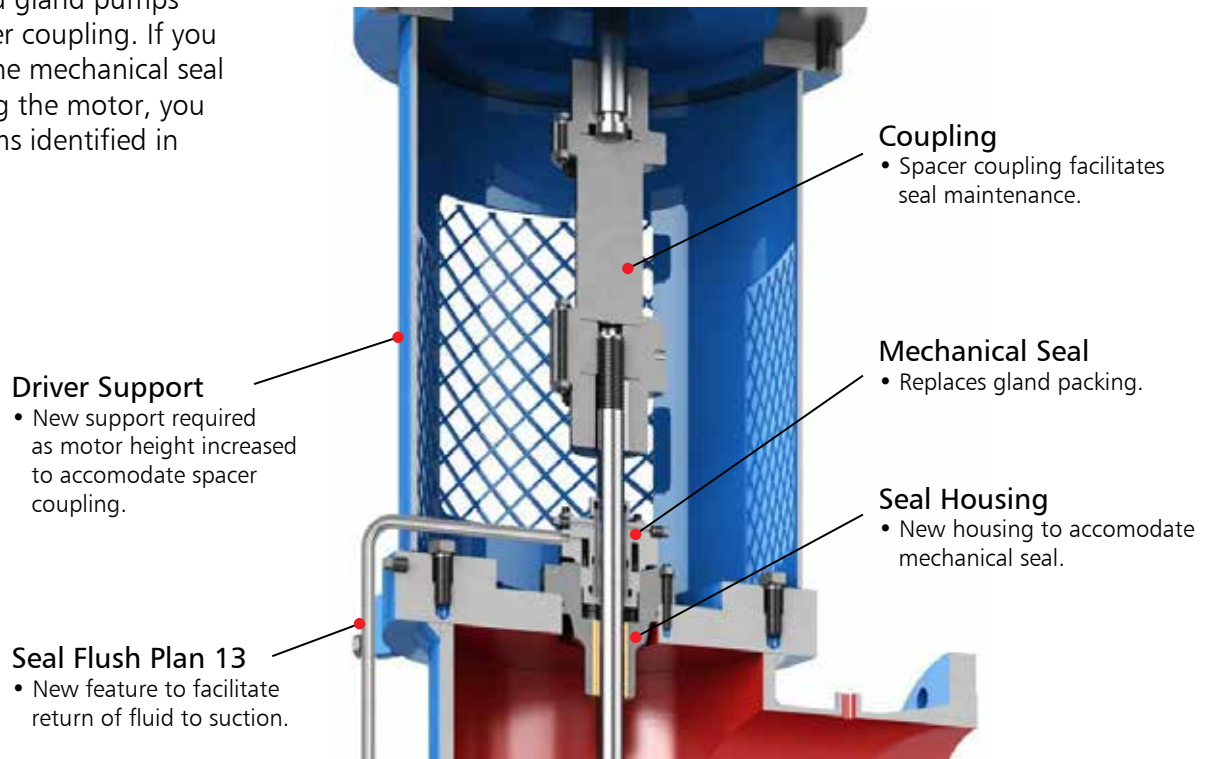


image 1

## Material Options

The most common materials are listed below; however, other materials can be provided on request.

- **Seal housing materials:**
  - Carbon Steel / Stainless Steel
  - Nickel Aluminum Bronze
  - Duplex / Super Duplex
- **Bearing materials:**
  - Bronze
  - Carbon
  - Graphalloy
  - Rubber
  - Various composite options

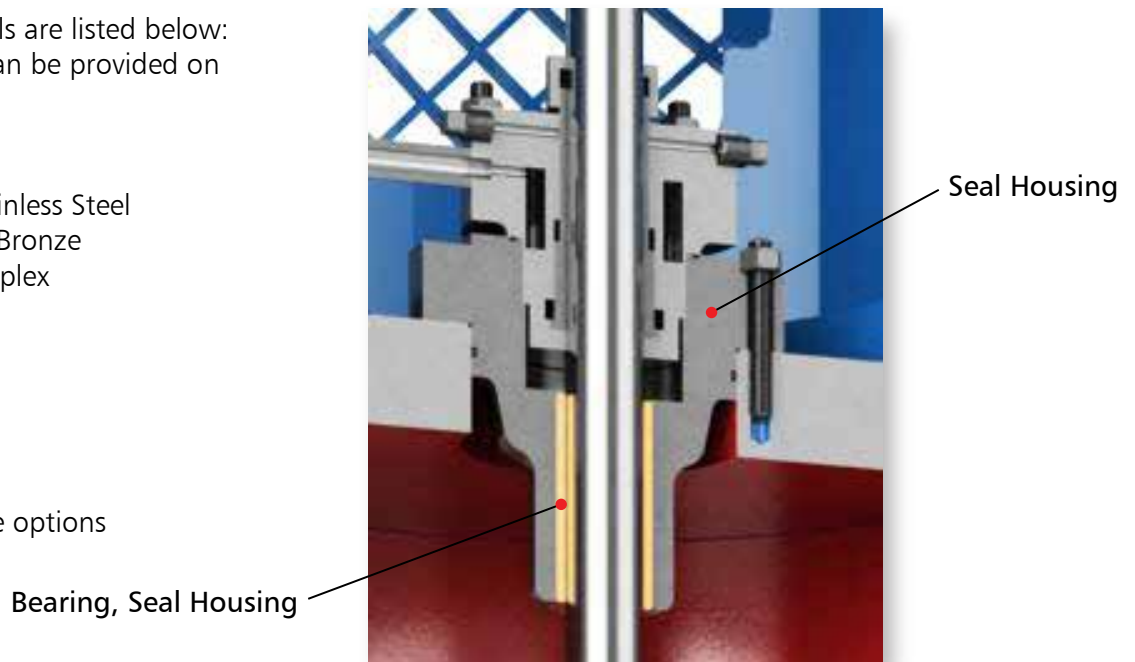


image 2