

HMD Kontro GSPV Pump Upgrade & Replacement

Sealed 2 Sealless

Vertical Inline Sealless Magnetic
Drive pumps to API 685

Profile

The vertically mounted GSPV pump provides all of the benefits of a magnetic drive sealless pump in a compact package. Requiring minimum floor space, the GSPV meets all of the requirements of API 685, making it ideal for chemical and petrochemical, oil and gas applications, also offering a sealless upgrade solution to existing installations.

With nine hydraulics, and a standard design pressure of 580 psi / 40 bar, the GSPV is suitable for many applications and offers significant advantages and benefits over conventional mechanical sealed designs.

Benefits of Upgrade – Sealed 2 Sealless

By eliminating the dynamic seal users can make significant cost savings and benefit from longer MTBF with problem free process operation.

- No costly seal support systems to specify, install or maintain*
- Reduced specification time and installation costs
- Almost zero unplanned maintenance
- Option of ZeroLoss® containment shell
- Improved operator safety and protection of the environment
- No bearing box required meaning no potential for oil leaks
- Sundyne HMD Kontro worldwide service support
- No EPA monitoring required
- Environmentally safe
- Absolutely no leakages
- Complete fluid containment
- Zero emissions
- Longer MTBF
- Small footprint

*API 682 Not Applicable



Common Vertical in Line Seal Pump Design Complaints

By transitioning over to a sealless design users will eliminate the common issues experienced with seals, including the following (from field feedback):

- Extra cost for bearing box
- Coupling wear leading to shaft run out and premature failure of seal
- Seal failure caused by coupling wear, which commonly requires coupling and seal to be replaced
- Motor needs removing to replace cartridge seals.
- Limited space for seal upgrade paths
- Increased downtime – Less uptime

The GSPV does not require a bearing box, meaning there is no potential for an oil leak. This is especially relevant for installations that require a white-glove approach such as Jet Fuel Terminals where no spills from oil or process fluid on pump surfaces are acceptable.

Potential Replacements

The GSPV provides a sealless upgrade solution to many existing vertical inline seal pump installations and offers users a great opportunity to move away from a troublesome seal design with limited upgrade opportunity, toward a cost effective, more simplified installation offering a superior MTBF.

Dimensionally the GSPV range conforms to BS 4082 (in some cases pipework modifications could be required) and so is inter-changeable with other BS4082 compliant designs.

Example Applications

Working with our partners we have identified some of the most common services where inline seal units are currently installed and where space is often at a premium including:

- Crude Oil Terminals
- Pipeline Terminals
- Fuel Terminals (Jet, Gasoline Etc.)

