

# 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.)
- Natural Gas Processing

