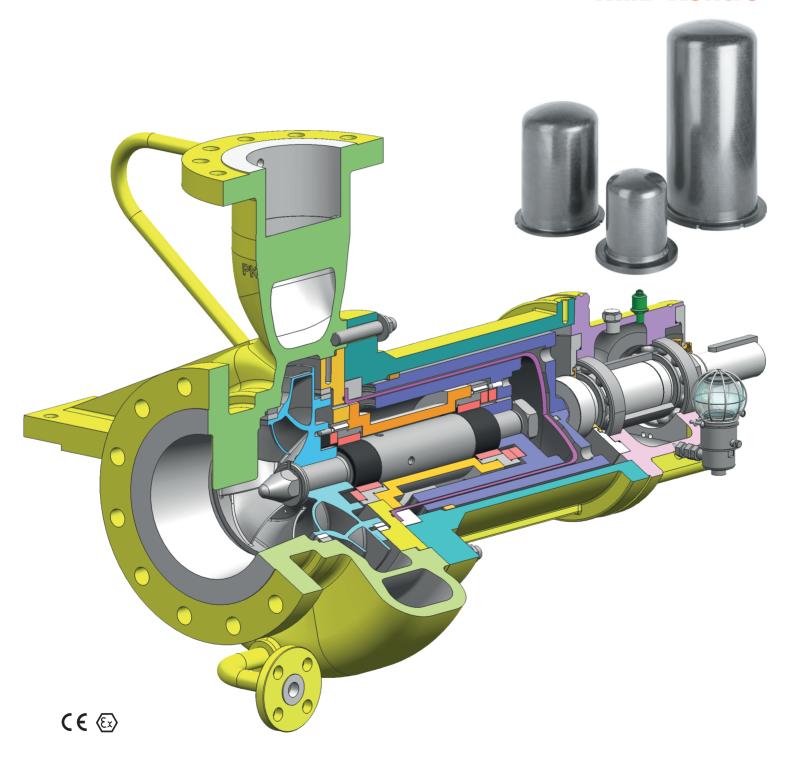


# **ZeroLoss<sup>™</sup> Containment Shells**

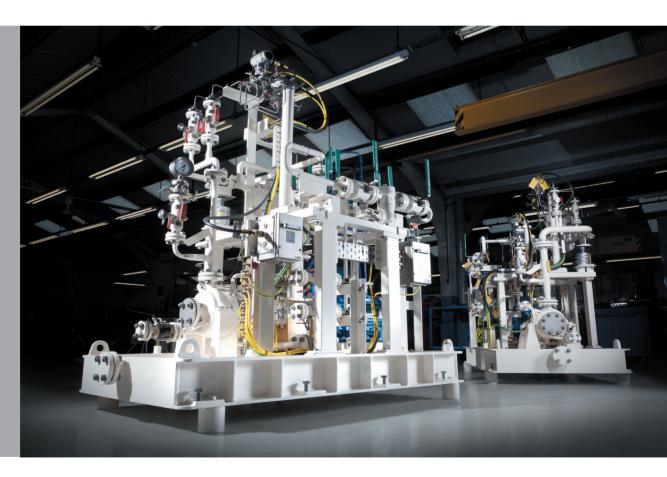
## **HMD Kontro**





# Eddy Current **Elimination**

The elimination of induced eddy current losses gives the ZeroLoss<sup>™</sup> containment shell its name. Heat dissipation can be an issue with magnetic drive pumps and the composite ZeroLoss<sup>™</sup> shell provides a step change to this problem by eliminating inductive heating.



This significantly increases the margin-to-flash safety factor and is particularly important when pumping volatile and heat sensitive liquids.

Five times lighter than steel but as strong, the ZeroLoss™ shell is engineered from a composite material of poly-ether-ether-ketone (PEEK) and carbon fibers. In addition to its higher specific strength, the material is tough and durable.





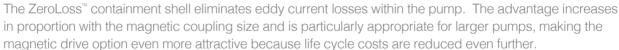
# Some Benefits of the

# **ZeroLoss<sup>™</sup> Shell**

- More robust design for closed discharge or potential dry run circumstances.
- Reduced power consumption for significant energy savings.
- Potentially lower capital costs from smaller motor and magnetic coupling.
- Lower utility costs, both for installation and ongoing consumption.
- Reduced heat into the liquid being pumped.
- Improved handling of liquefied gases and heat sensitive liquids.
- May be retrofitted to existing Sundyne HMD Kontro GSP pumps.

## **Reduction in**

# **Energy Consumption**



Lower power consumption not only results in reduced running costs but also potentially provides lower initial capital costs, as smaller motors can be specified. Also installation costs can be reduced, as lower-rated cabling may be required.

You will also be reducing your carbon footprint, further enhancing the environmental benefits of adopting sealless pumps.

## **Composite Material for**

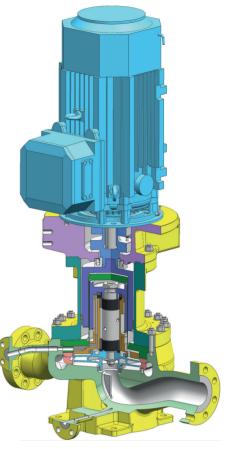
## **PEEK Performance**

The Sundyne HMD Kontro ZeroLoss™ containment shell is engineered from a combination of Carbon Fiber and PEEK (Poly Ether Ether Ketone).

#### Some of the benefits of this material include the following:

- High tensile strength
- High electrical resistivity
- Chemical resistant
- Excellent fatigue properties
- Fire and heat resistant
- Resistant to thermal shock
- Single part complex shapes
- Recyclable
- No porosity
- Impact resistant

- Thin wall structures
- Low mass
- Low co-efficient of thermal expansion



All of the above properties make the material very suited for use in sealless pumps and in the majority of process applications.



# **Applicable to Pump Ranges**

(limited for operation up to 250°F)

GSA/GSI Frames 1 & 2

GSP Frames 1, 2 & 3 GSPV Frames 1 & 2

GSPVS Frames 1 & 2 **GSPLF** Frame 2

LMV-801S

# ZeroLoss<sup>™</sup> Sealless Pumps Parameters

Temperature	-150°F to +250° F / -100°C to +120°C
Flow Rates	8800 USgpm / Up to 2000m <sup>3</sup> /h
Heads	Up to 1140ft differential / 350m
Viscosity	Maximum 200cP
Pressure	Up to 580 psi / 40 bar
Solids	Up to 5% wtwt, with a particle size of 150 microns
	Up to 8% wtwt and 500 microns with filtration
Power	440kW 60Hz / 365kW 50Hz
Standards	API685 (API610) / ASME B73.3



Environmentally Friendly



Strong 8



High



Money



Energy



High Pressure

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Sundyne HMD Kontro ZeroLoss 2.1 04/21 AM Letter