FLOWSERVE

PEACE OF MIND

INNOMAG® Dual Drive™: The world's most advanced secondary containment system

True secondary containment is absolute, fully redundant, and completely isolated from the forces and failure modes of the pump and primary seal. Historically, the only way to achieve true secondary containment had been with a canned motor pump (CMP) — until now. Introducing the INNOMAG Dual Drive pump. It's the world's first (ANSI/ISO) process pump with double, independent, hermetic seals for the ultimate in operator safety and environmental protection.

Here's why it's a better alternative to a CMP for your most critical applications:

Choice and Availability

Unlike CMPs, which require proprietary motors, the Dual Drive pump uses the standard, readily available, off-the-shelf motor of your choice.

Standard Footprint

By replacing the standard motor coupling with a second magnetic coupling, you achieve true secondary containment and instant motor alignment within a standard footprint.

Zero Maintenance

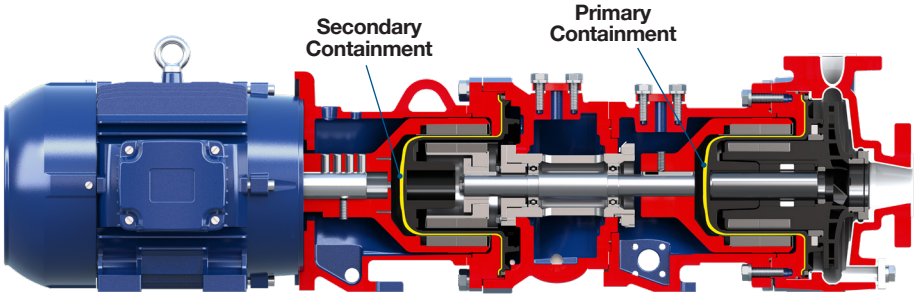
CMPs require specialized wear monitoring and extensive preventative maintenance. The Dual Drive pump is maintenance-free: just set it and forget it.

Hydraulic Versatility

CMPs operate reliably only at or near a single duty point (BEP). The Dual Drive pump is designed to operate practically anywhere on the curve.

Inherently Safer

With the Dual Drive pump, secondary containment is achieved by the pump — not the motor. This way, you avoid the inherent safety risks of using an electrical device for liquid containment.



Solids Handling

Unlike CMPs, which cannot handle solids and can only operate reliably in clean services, Dual Drive pumps can handle significant solids (40% conc. 0.25 in. particle size).

Motor Efficiency

The Dual Drive pump uses high-efficiency motors with a tight air gap. CMPs require a much larger air gap between the rotor and stator to make room for the can, resulting in a significant loss of efficiency.

Radically Simple

The Dual Drive pump is extremely simple and user-friendly. CMPs are complex, integrated, electro-mechanical devices. Repair and maintenance take more time and may require both electricians and mechanics with specialized tools and training.

Material Versatility

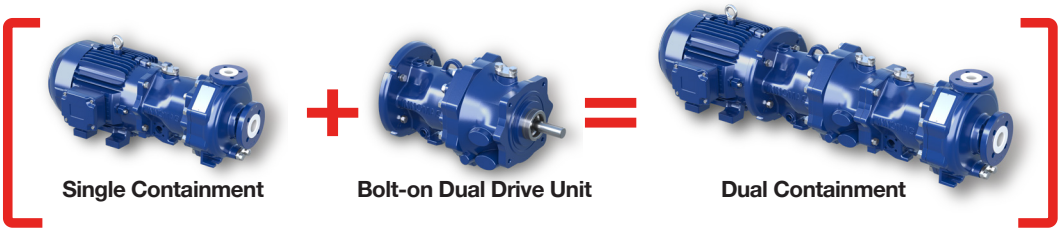
With CMPs, corrosion is inevitable. To slow it down, materials must be optimized for each application. The Dual Drive pump can cover most applications with just one material of construction that has nearly universal chemical resistance and zero corrosion.

Pump Efficiency

The Dual Drive pump uses a high-strength, non-conductive, carbon fiber containment shell. CMPs use a thin metal can. This is not only weaker but also less efficient and less forgiving due to the heat and motor drag created by eddy currents.

Modular Design

Not every application requires dual containment. But when it does, it's as simple as bolting it on.



This is why today's maintenance and reliability engineers go *sealless first*. Visit seallessfirst.com for the whole story.

- NO SHAFT SEALS TO LEAK
- INSTANT MOTOR ALIGNMENT
- RADICALLY SIMPLE AND USER-FRIENDLY
- ONE MATERIAL WITH NEAR-UNIVERSAL CHEMICAL RESISTANCE
- NO BALL BEARINGS TO FAIL
- OPERATES PRACTICALLY ANYWHERE ON THE CURVE
- 50% SMALLER FOOTPRINT
- LONGER-LASTING AND HIGHER EFFICIENCY
- NO MAINTENANCE
- SHIPS IN 5 DAYS OR LESS
- TRUE DUAL CONTAINMENT
- EFFECTIVE SOLIDS HANDLING

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