

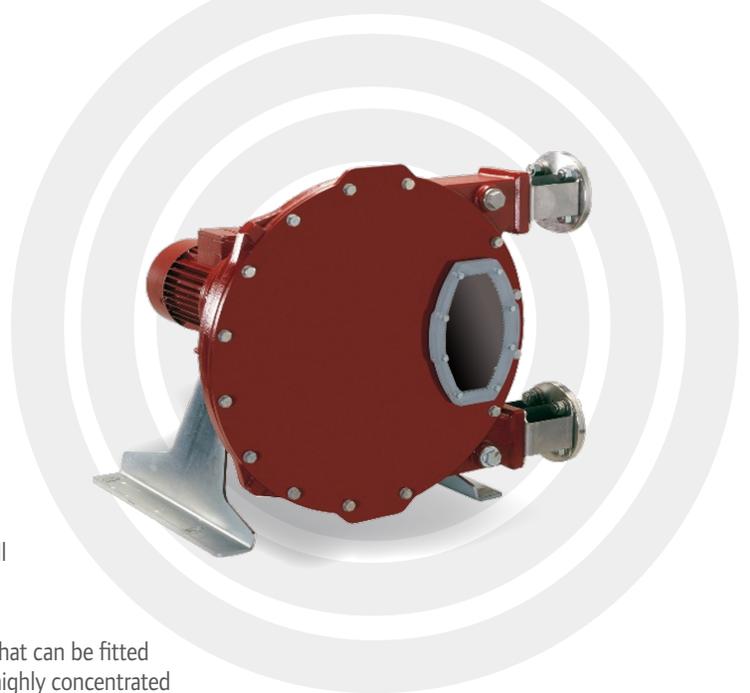


# EVO Series™ Competitive Zone vs Hose Pumps

The EVO Series™ pumps combine with a unique set of features not found in another positive displacement pump technology.

EVO Series™ is a process ready pump with a unique sealless technology that have changed the competitive landscape by giving the pump the full controllability, as a consequence, giving a high level of excellence for the process.

EVO Series™ is able to configure for a variety of applications and fluids that can be fitted with materials to pump everything from high-solid, abrasive material to highly concentrated caustic chemical like sludge, muds, oils, chemicals, pulps and wastes.



## EVO Series™ pump advantages include:

- Gives a smooth fluid transfer through the very low pulsation, no need for pulsation dampener.
- Eliminates leakage through primary containment to the environment with the exclusive Sealless / Leak Free Design - integrated with a secondary containment for fluid and oil, and a standard automatic leak detection system.
- Gives a better process controllability and stability certified by an integrated pump system that sets the process to deliver in a high performance rate.
- Pump is protected from peak pressure caused by inlet valve interruption. The True Deadhead with the closed loop control immediately stops, while holding and maintaining the line pressure.
- Connectivity: your pump integrated to any supervisory system thru the factory installed IOT interfaces ready to integrate to PLC or basic pressure/flow devices.
- Easy serviceability and pump footprint allow to repair the pump in process, no need to relocate the pump to body shop.
- EVO pump can run dry without any damage to hardware. No need to add any particular fluid to start up the pump as it's a self-priming pump
- High durability - designed to attend up to 20.000 hours in high load conditions using long life diaphragms. No surprises with added costs: all key components are part of standard package - no need to buy extra accessories
- Your process protected with the highest Safety standards - Hazardous duty certifications covering environments with presence of hazardous liquids and gases.



	Most Favorable	Least Favorable	Acceptable/Equivalent	EVO Series™	HOSE
Maintenance Cost					
Ease of Service					
Chemical Compatibility					
Flow / Pressure Range					
Stall Capability					
Portability					
Leak Detection					
Pulsation & Vibration					
Efficiency					
Deadhead					
Size / Weight					
Reversibility					
Maximum Hard Particle Size					

# EVO Series™ Pump Competitive Zone

## vs Hose Pumps



### Target Hose Pump Applications:

- Highly acidic / basic fluids
- Bulk fluid transfer
- Filter presses
- Various / changing process fluids
- Hazardous applications

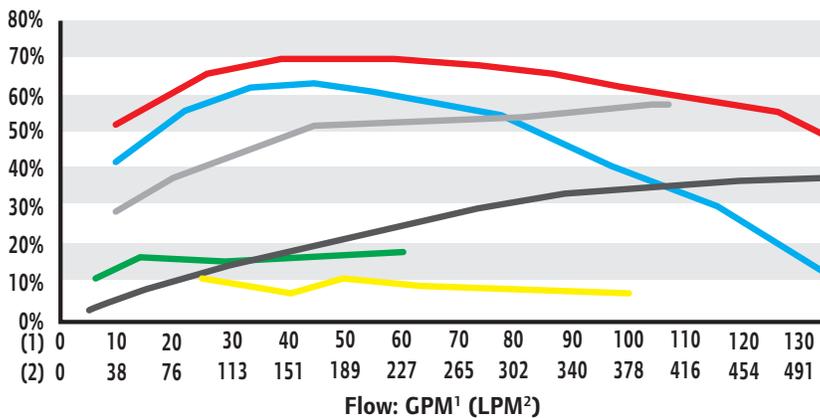


### Hose pump customer problems range from:

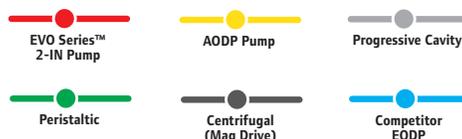
- The hose pump is large and heavy. 2" hose pump weights 2,000 lbs (907 kg)
- Expensive maintenance costs due to the high frequency of wear parts like hoses
- Hose pump's design brings more potential for leaks, contaminating the fluid and pump's lubrication system.
- Deadhead or stall can damage the hose pump system
- Maintenance may require intensive labor cost with large hose pumps (~2-3 people)
- Hose leaks may cause product contamination due to lubrication exposure
- Hazardous use is often followed by special requirements
- Energy loss due to the high compression force and sliding friction that causes elevated apparent surface temperatures of the pump housing during operation
- Set up and shimming are necessary to maintain performance & maintain hose life
- Suction conditions: <sup>1</sup> Long suction lengths rapidly wear out the hose; <sup>2</sup> Undersized suction pipe work drastically fatigues the hose
- Frequent shimming set ups are necessary to maintain performance & maintain hose life.



### EVO Series™ brings the highest level of energy and Sustainability



EVO Series™ brings the highest level of energy and Sustainability  
Up to 50% more global energy efficiency compared to a peristaltic pump



**EVO SERIES™**  
THE EVOLUTION IN PROCESS PUMPS

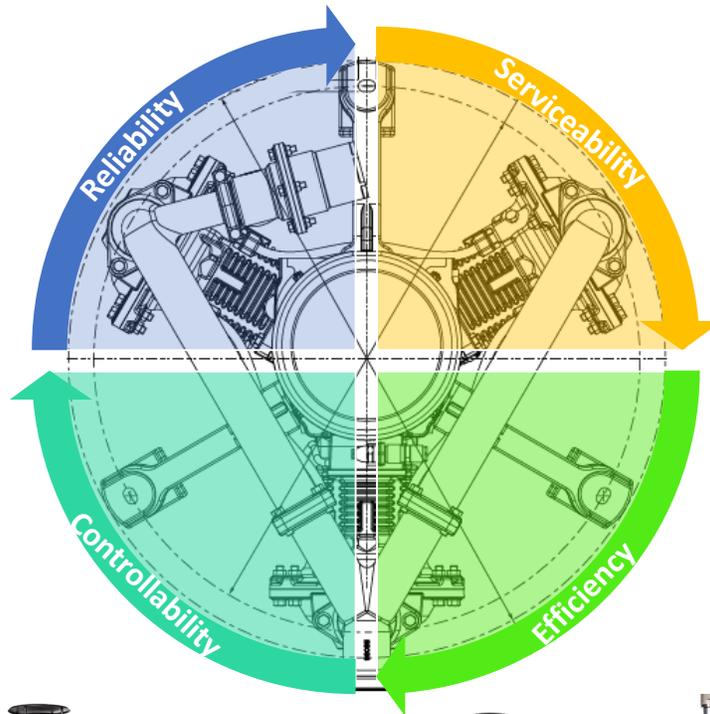
# EVO Series™ Pump Competitive Zone

## vs Hose Pumps



### Key tips to EXP diaphragm pump technology:

- The exclusive multi-layer Diaphragm design protects the pump from premature diaphragm failure
- The automotive e-coat surface grade prevents the pump from corrosive environments
- Anodized parts promote no wear from pump handling, installation, and use
- Lubricated crankcase mechanism to protect hardware from traction and heating
- Able to communicate with multiple protocol options
- High spec gear motor with multiple thermal protection system that covers the whole unit (pump, motor & drive)
- Integrated system with motor, encoder and drive – high data accuracy, no slippage
- Different voltage options to attend the worldwide industrial electric applications



**EVO SERIES™**  
THE EVOLUTION IN PROCESS PUMPS

# EVO SERIES™

THE EVOLUTION IN PROCESS PUMPS

**ARO**®

**IR** *Ingersoll Rand*®