



# Magnetic-drive Multistage Centrifugal Pumps

MV series

Marine

**DESMI**  
Make life flow



**SEAL-LESS.  
EFFICIENT.  
RELIABLE.**

DESMI's new MV Series combines decades of experience in magnetic drive technology with a new generation of multistage pump design - delivering leak-free performance even in the most demanding applications.

# Why choose magnetic drive?



## 100% seal-less design

- no leakage,  
no emissions



## Hazardous Liquids

Ideal for toxic, hazardous,  
flammable, or valuable liquids



## No seal system maintenance

Reduced downtime and lower  
operating costs



## Proven Reliable Efficient

Alternative to conventional  
shaft seal pumps



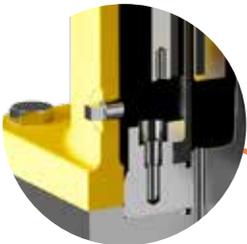
# Inside the Multistage Pump



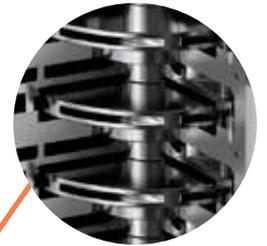
Insulated composite cannister without eddy loss to achieve high pumping efficiency.



Leakage prob is option to monitor any leakage from cannister.



PT100 built-in is capable to monitor the coupling temperature rise.



Composite material applied on seal ring & sleeve with good wear-resisting property, well lubricated by pumping medium to maintain impeller long lifetime.



Latest balancing drum design to minimize the axial thrust on shaft and bearing.



Advanced hydraulic design ensure the complete drainage capable and support gas free operation.

## Designed for performance where precision and safety are non-negotiable.

Every detail of the MV Series is engineered to deliver long-term reliability, lower lifecycle costs, and complete peace of mind - even under the toughest marine conditions.



Norminal Diameter (DN)	25 to 65
Flow rate - 50 Hz	Up to 110 m <sup>3</sup> /h (480 US gpm)
Flow rate - 60 Hz	Up to 130 m <sup>3</sup> /h (570 US gpm)
Head	Up to 300 m (980ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Min. -40°C / Max. 140°C (-40°F / 284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkhead/Wall-mounted
ATEX approved	

Class Societies approved.

Materials	Specification
Pump casing	1.4436
Impeller	1.4436
Shaft	1.4460
Inner rotor hub	1.4057 & 1.4571
Magnet	NdFeB
Seal ring & sleeve	PEEK
Canister	PEEK
The pump wet parts are also available in other stainless steel.	

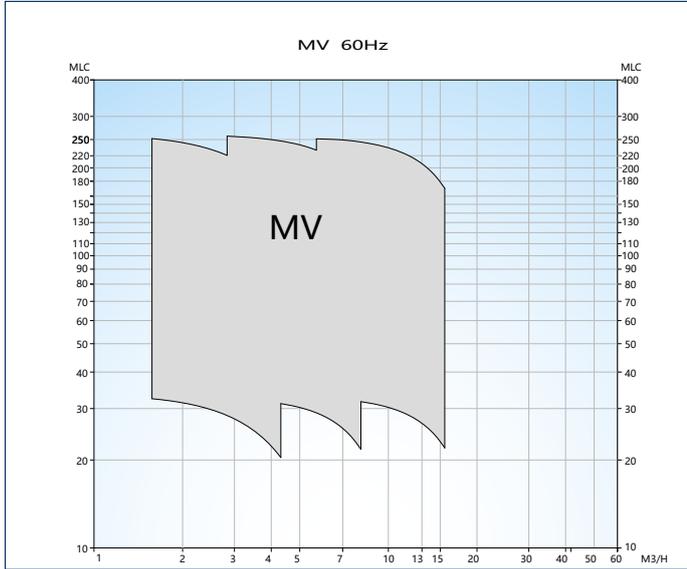
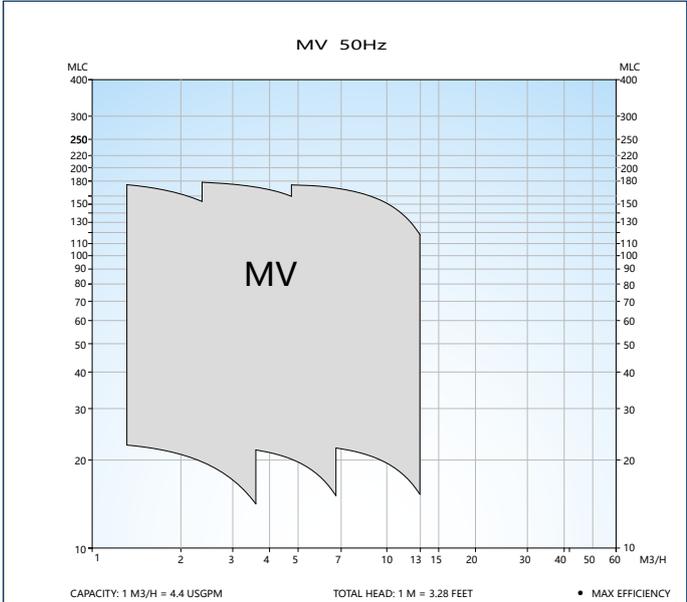
Extraordinary

# Concept Features



### Concept Features

- ✓ Double radial guide vane to gain more compact shaft structure.
- ✓ Innovated hydraulic pressure balance design to achieve minimum force on shaft, longer bearing life and higher pumping efficiency.
- ✓ Casted hydraulic parts which is high reliability and anti-corrosion by variety material options.
- ✓ Complete liquid drainage is capable by the latest pump hydraulic and structure design.
- ✓ Advanced graphite composite material applied on sealing sleeve to obtain excellent lubricating performance.



# We exist to keep your business flowing

DESMI works closely with vessel owners, operators, and shipyards to deliver critical flow processes for diverse marine applications. Our pumps and supporting systems are trusted worldwide for dependability and the lowest total cost of ownership.

No matter which flow challenges you are facing, we can help you overcome them with class-leading equipment, solutions, and services designed specifically for your applications and environment, and with factories in China, India, the US, and Denmark, you benefit from our efficient global supply chain.

Founded in Denmark in 1834, we have provided the expertise, solutions, and aftermarket support our customers need for nearly two centuries. We help you operate more efficiently and reliably, enabling your ambitions for performance, compliance, and growth whilst helping you reduce your climate impact.

Together, we can make a difference, whatever the future holds. Because we, like you, are here to **make life flow**. For more information, visit [desmi.com](https://desmi.com)

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