

# Vertical sulfuric acid pump type Ensival Moret VAS

The VAS pump range has been specifically designed for sulfuric acid pumping applications. Due to its engineered design, the VAS acid pump range minimizes the corrosion wear effect while offering high efficiency and reliability. Superior operational performance has been demonstrated with its longer maintenance-free operation from initial startup.

## Main applications

The VAS acid pump range has been designed to meet the requirements in  $H_2SO_4$  production plants such as

- Absorption tower
- Drying tower
- Heat recovery system

## Design

- Vertical turbine pump with discharge through column
- Single stage closed impeller with diffuser
- Absence of radial loads
- Axial loads fully balanced by front and rear casing wear rings
- Simple shaft sealing by throttle bushing with liquid back to the tank
- Auxiliary packing rings to prevent acid vapors (for safety and maintenance)



## VAS pump for heat recovery system

The VAS pump range also offers reliable and safest solutions for pumping sulfuric acids with temperatures of up to 250°C / 480°F.



- High corrosion resistance
- Long service life
- Easy assembly
- Maintenance friendly



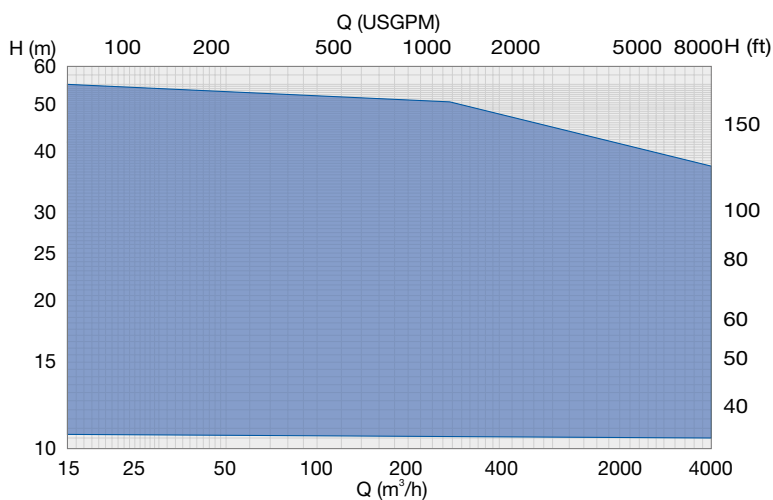
# Materials

Part	Material
Pump casing	Acid-proof cast iron or special stainless steel
Impeller, wear rings	Special stainless steel
Sleeve bearings	Ferro-silicium or special alloy
Shaft	Duplex stainless steel with FEP lining

# Operating data

	50 Hz	60 Hz
Capacities	up to 4'000 m <sup>3</sup> /h	up to 17'500 USgpm
Heads	up to 45 m	up to 148 ft.
Pressures	up to 20 bar	up to 290 psi
Temperatures	up to 140°C	up to 291°F
Maximum speed of rotation	up to 1'500 rpm	up to 1'800 rpm

# Performance range



Oil and gas



Pulp, paper and board



Hydrocarbon processing



General industry



Power generation



Chemical process industry