



ITT

Lowara



New  
Z6 Series  
Stainless Steel  
Submersible pumps for 6" wells

*Engineered for life*



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**We take care of your most precious resource!**



**The extensive use of stainless steel for the main parts in contact with the pumped liquid minimize the risk of water contamination.**

***You drink the water as at the source***

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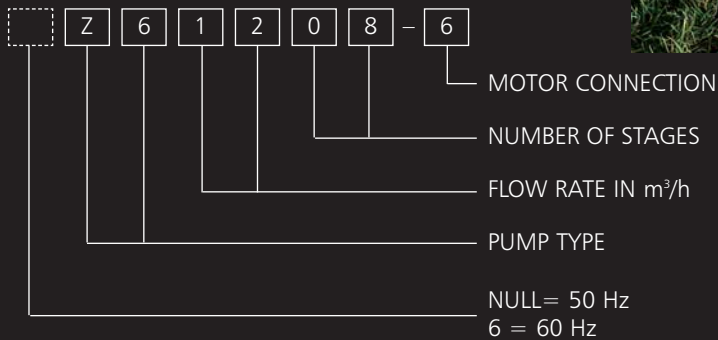
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- The hydraulic design results in the **maximum pressure per stage** which **reduces the length (less stages)** and weight of the pump: **Robust design- Easy to handle!**
- The **delivery head** made of **precision cast Stainless Steel** prevents and **protects** the pump from **water hammer** and ensures a rigid and **safe connection to the pipe.**
- For an easy connection to the safety rope the delivery head is equipped with **two safety hooks** and **two locking screws** for the pipe to ensure your pump is always secure.
- The **motor adapter** made of **precision cast Stainless Steel** ensures a **robust and rigid connection** to the motor
  - available for different motor connections, 4", 6" and 8" **NEMA standard**

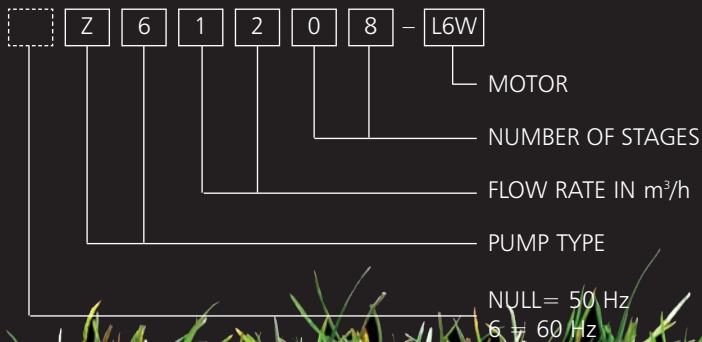


### IDENTIFICATION CODE



EXAMPLE:

6" STAINLESS STEEL ELECTRIC PUMP WITH 6" MOTOR CONNECTION, FLOW RATE 12 m<sup>3</sup>/h; 8 STAGES. THE SAME PUMP, WITH SPECIAL FLANGE AND COUPLING, COUPLED TO A 4" MOTOR, IS IDENTIFIED AS Z612 08-4



EXAMPLE: Z612 08-L6W

6" STAINLESS STEEL ELECTRIC PUMP WITH 6" MOTOR FILLED WITH COOLING LIQUID, FLOW RATE 12 m<sup>3</sup>/h; 8 STAGES WITH L6W MOTOR

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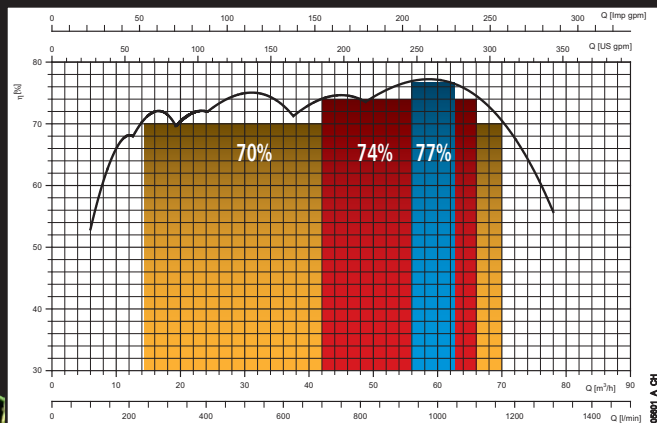
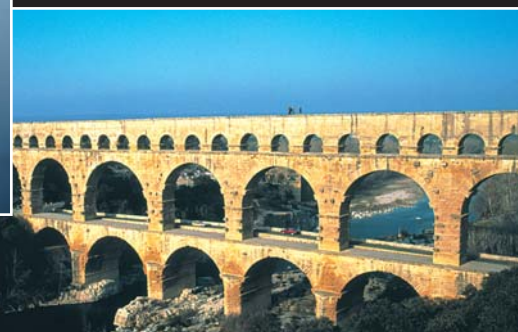
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- A combination of using tungsten carbide bearings, floating wear rings and protection of the shaft by the stainless steel sleeves ensures the **best resistance to sand abrasion.**
- The design of the impellers manufactured in pressed Stainless Steel minimizes the momentum of inertia of the pumps ensuring a **minimum torque requirement** of the motor during the starting phase: **longer life of the motors!**
- The Strips are designed to resist the maximum pump pressure and give the best stiffness to the unit.

## APPLICATIONS

- Municipal water supply
- Irrigation
- Mines
- Fire fighting Booster sets
- Golf Turf Irrigation
- Water level control
- Fish farming



All the new Z6 series pumps offer a **superior efficiency** and therefore all points selected between 14 m³/h and 70 m³/h have always efficiency equal to or higher than 70% with a **max efficiency of 77%** within the overall Z6 range.

**Reduced energy consumption!**

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**Precision cast head** - high protection against **water hammer** and ensures a rigid and safe connection to the delivery pipe

**Bearing made of Tungsten Carbide** that ensures the best shaft alignment in the worst conditions

**Modular design** with limited parts - easy to maintain

Improved design of the shaft grooves for easy and **fast disassembling**

**Removable coupling**, for easy repair and disassembling

Motor adapter made of **cast Stainless Steel** ensures a **rigid connection to the motor**. Available for 4"-6" and 8" motor connections

**Safety hook** - easy to connect the safety rope

**Safety screws** to lock the delivery pipe

Integrated **non return valve**

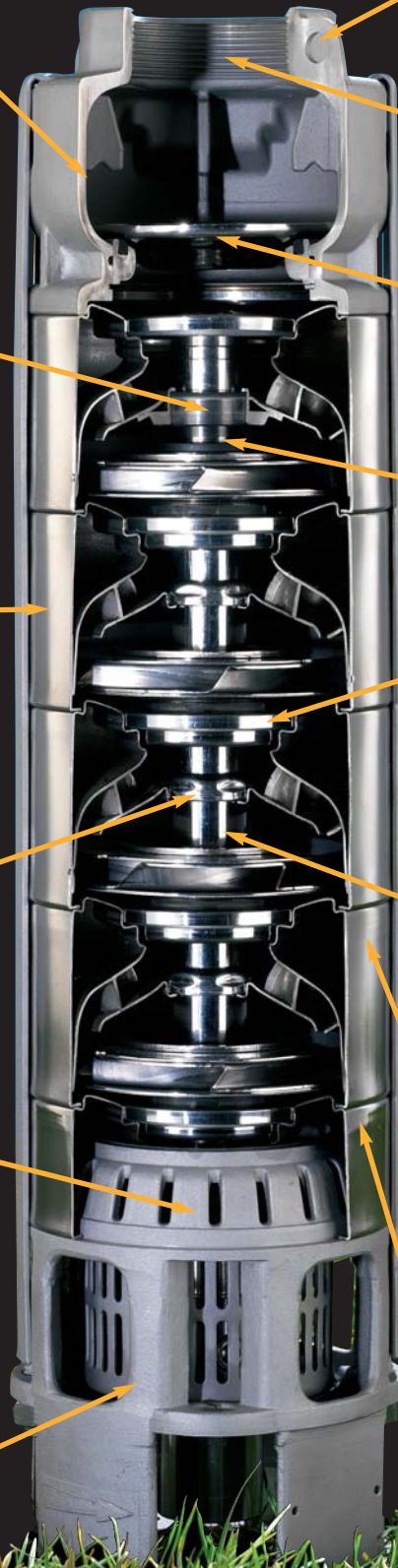
Integrated **up thrust bearing**

Suction part of the impeller with removable wear ring - **low cost maintenance**

The **pump shaft is protected** by the Stainless Steel spacers

Strips designed to resist to the max pump pressure

Pump bowl made in one single piece without external welding for a **better resistance** to the well environment and to the pump pressure



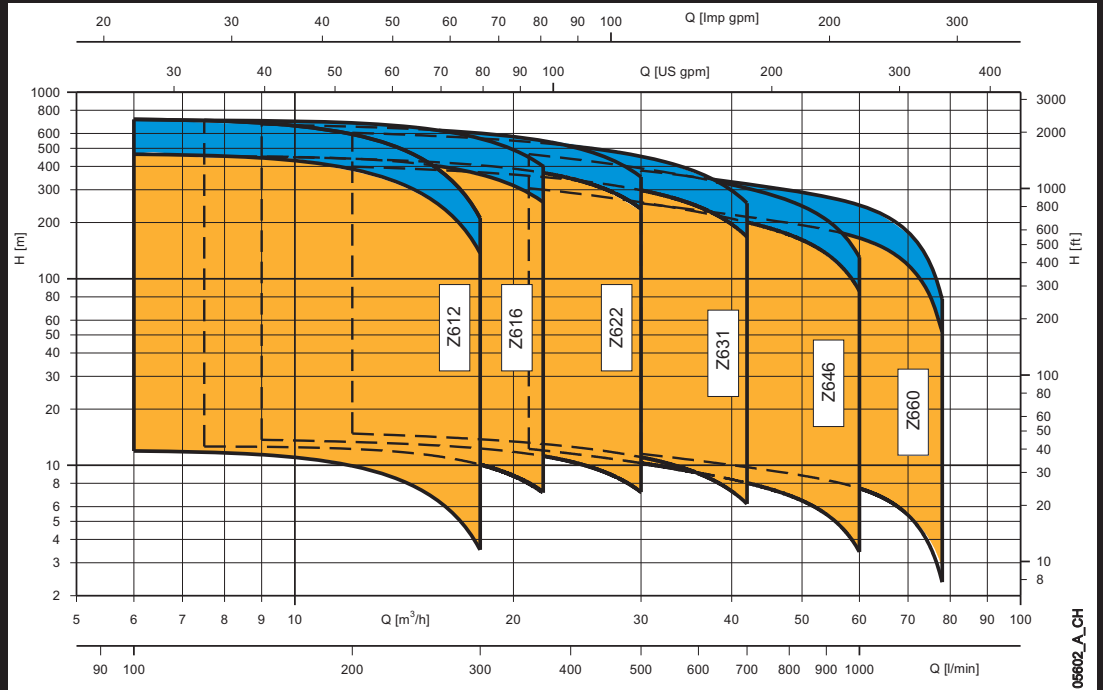
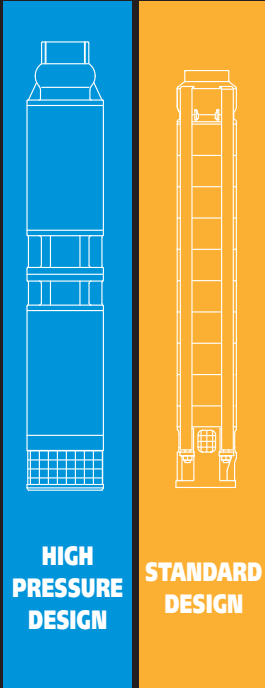
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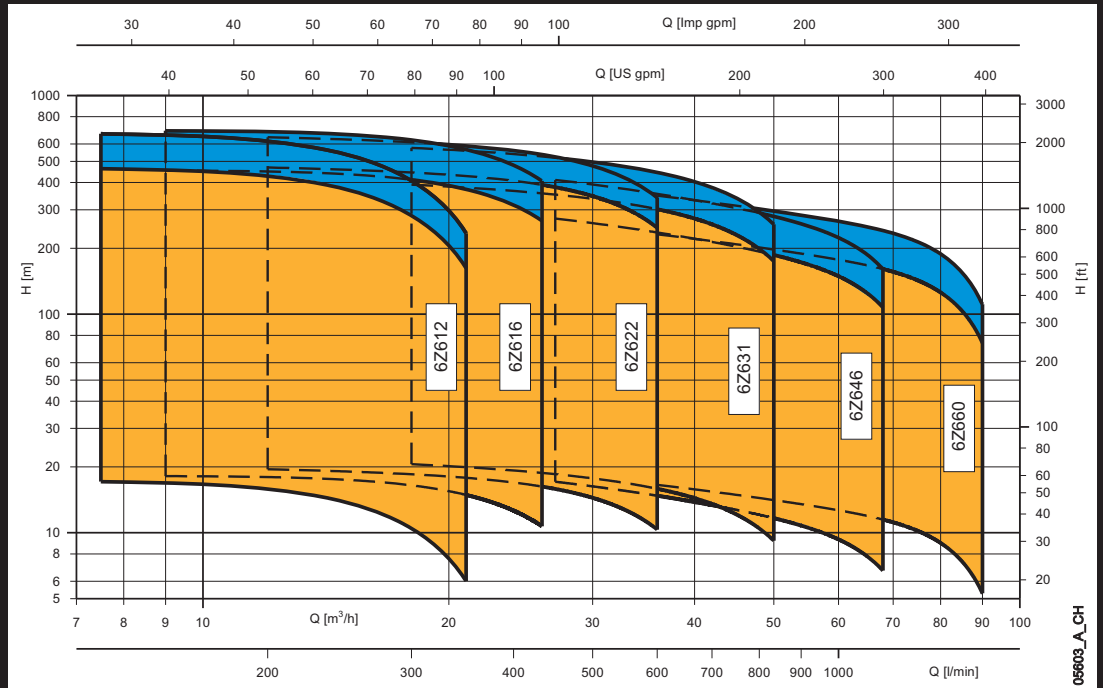
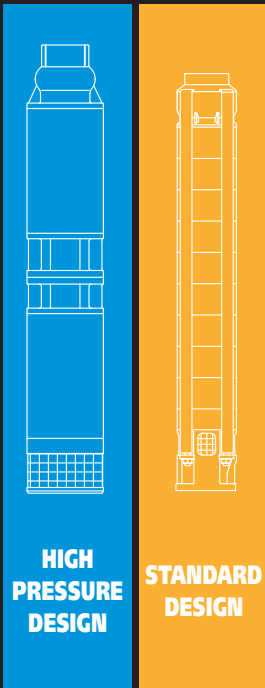
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## Z6 SERIES OPERATING CHARACTERISTICS AT 50 Hz



## Z6 SERIES OPERATING CHARACTERISTICS AT 60 Hz



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## New Z6, your 6" Stainless Steel Pump

- Increased Life Cycle Cost - **lower energy consumption**
- No water contamination – **No paint, no rust**
- High sand handling capability **100 g/m<sup>3</sup>**
- High pressure per stage - shorter pumps - **Easy to handle and install**
- Modular design - **easy and fast to maintain/repair**
- Pump water from **deep wells (700 m)**
- **Robust design** - delivery head and motor connection made of **cast Stainless Steel**
- **Easy to connect** - delivery connection standard **2" 1/2 -3" available 3" and 4" NPT**

### AND MORE

- Different high grade materials available
- High pressure pump (above 550 m head) reinforced by outer sleeve
- Complete range in 50 Hz and 60 Hz
- Motor connection for 4"-6" and 8" submersible motors
- Delivery flange adapter
- Work in horizontal and vertical position

### PERFORMANCES RANGE

- **Z612** delivery at BEP **12** m<sup>3</sup>/h - max head 700 m.
- **Z616** delivery at BEP **16** m<sup>3</sup>/h - max head 700 m.
- **Z622** delivery at BEP **22** m<sup>3</sup>/h - max head 700 m.
- **Z631** delivery at BEP **31** m<sup>3</sup>/h - max head 660 m.
- **Z646** delivery at BEP **46** m<sup>3</sup>/h - max head 630 m.
- **Z660** delivery at BEP **60** m<sup>3</sup>/h - max head 520 m.



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