



ITT

Lowara



Z8 Series  
Submersible pumps for 8" wells  
manufactured in stainless steel



*Engineered for life*



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## The Z8 Series

### Submersible pumps manufactured in stainless steel for 8" wells

- **Robust design**
- **High corrosion resistance**
- **Economical operation**
- **Reliability**
- **All hydraulic parts built in stainless steel**

### 50 - 60 Hz versions available

50 Hz Versions:

Delivery up to 180 m<sup>3</sup>/h; head up to 550 m

60 Hz Versions:

Delivery up to 215 m<sup>3</sup>/h; head up to 550 m

This robust and lightweight pump is easy to disassemble and resists corrosion even in aggressive environments. Impellers, diffusers, shaft and coupling manufactured in stainless steel.

Guide bearings on all the stages ensure resistance to wear and guarantee constantly reliable hydraulic characteristics over time. The new "dynamic" wear ring reduces hydraulic losses to a minimum and keeps the pump from blocking during stand-by periods.

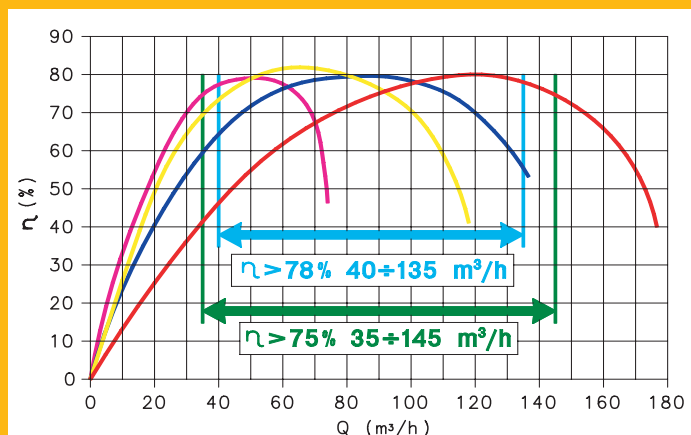
All pumps can be coupled to NEMA-Standard motors.

### Version on request

- Pump completely manufactured in DUPLEX stainless steel particularly used in highly aggressive water applications.

### Applications

- Water supply from deep wells
- Pressure boosting and water distribution in civil and industrial systems
- Water level control
- Irrigation
- Fire-fighting
- Mining



### ALWAYS THE IDEAL CHOICE

All the Z8 Series pumps offer efficiency of between 80 - 82% and therefore all the work points selected between 40 and 135 m<sup>3</sup>/h have efficiencies always equal to or higher than 78%.



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## THE Z8 8" SERIES IN STAINLESS STEEL

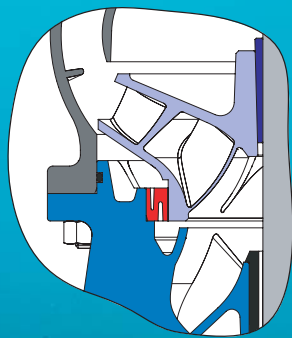
**BUILT-IN  
NON-RETURN VALVE**

**DIFFUSERS**

**IMPELLER**

**PUMP SHAFT**

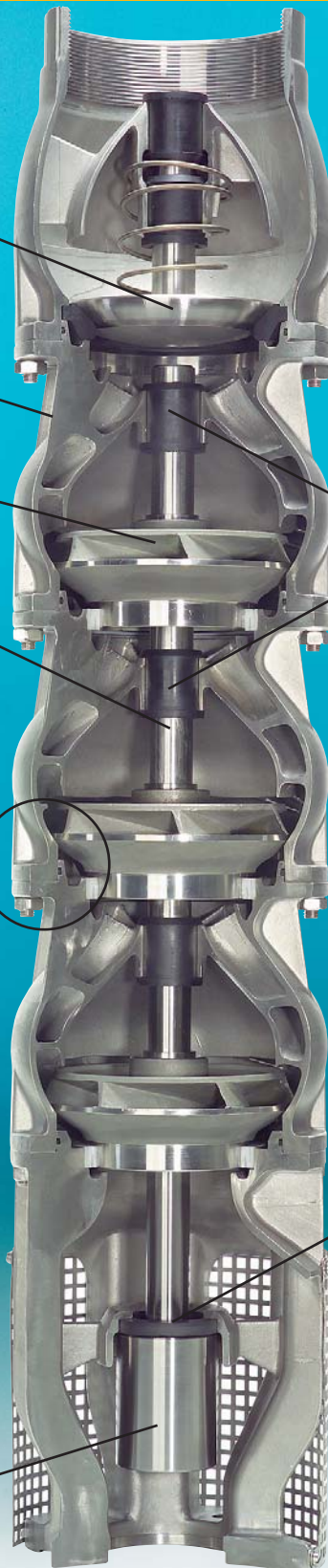
**GUIDE BEARINGS ON  
ALL THE STAGES  
LUBRICATED BY THE  
PUMPED LIQUID  
ENSURE CONSTANT AND  
RELIABLE OPERATION  
OVER TIME**



**DYNAMIC WEAR RINGS.  
THE INNOVATIVE DESIGN OF  
THESE "DYNAMIC" WEAR  
RINGS OPTIMISES  
HYDRAULIC PERFORMANCE  
AND PREVENTS THE PUMP  
FROM BLOCKING DURING  
STAND-BY PERIODS.**

**UP-THRUST BEARING.  
ALL THE Z8 SERIES  
PUMPS COUPLED TO  
NEMA-STANDARD  
MOTORS ARE EQUIPPED  
WITH UP-THRUST  
BEARING THAT  
PROTECTS THE PUMP  
DURING STARTING**

**COUPLING IN DUPLEX**





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## COMPONENTS IN STAINLESS STEEL



### VALVE BODY

The built-in non-return valve was designed to reduce pressure losses due to friction during pump operation. The spring ensures the efficient operation of the valve under all conditions and protects the hydraulic system from damage of water hammering.



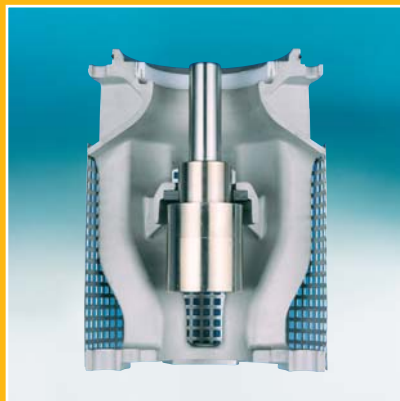
### IMPELLER

The design of the new Z8 Series impellers combined with the constructive technology employed guarantees high performance and stable efficiency over time.



### STAGE CASING

The new Series Z8 stage casing designed using by FEA (Finite Element Analysis) has permitted the use of light weight and high mechanical strength components. Pressure guaranteed to 550 mcw.



### SUCTION SUPPORT

The stainless steel suction support ensures stiffness and stability in coupling with all NEMA Standard motors.

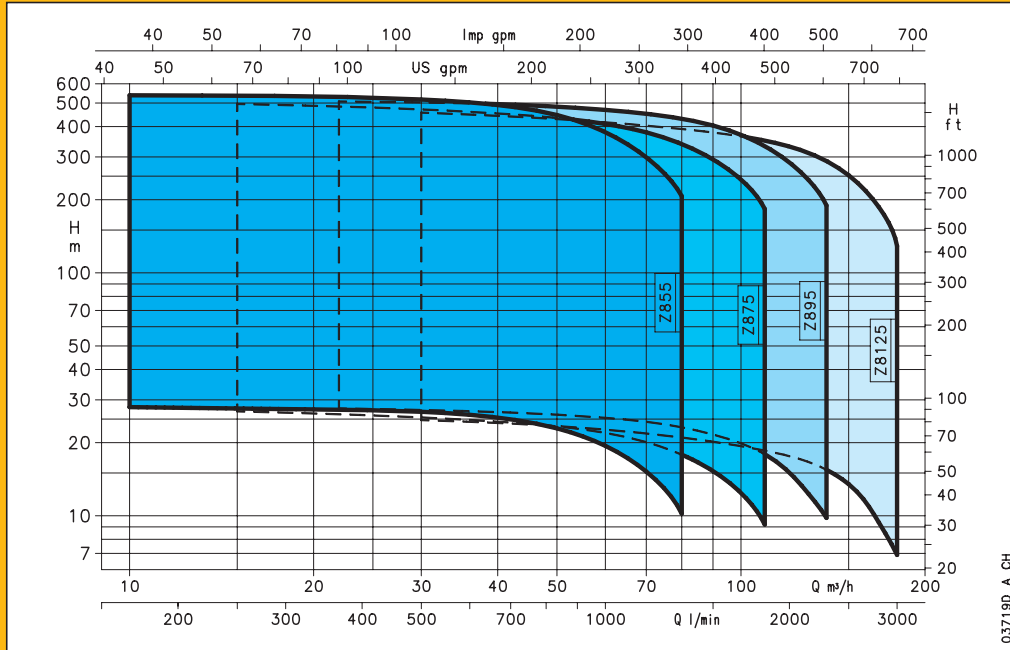


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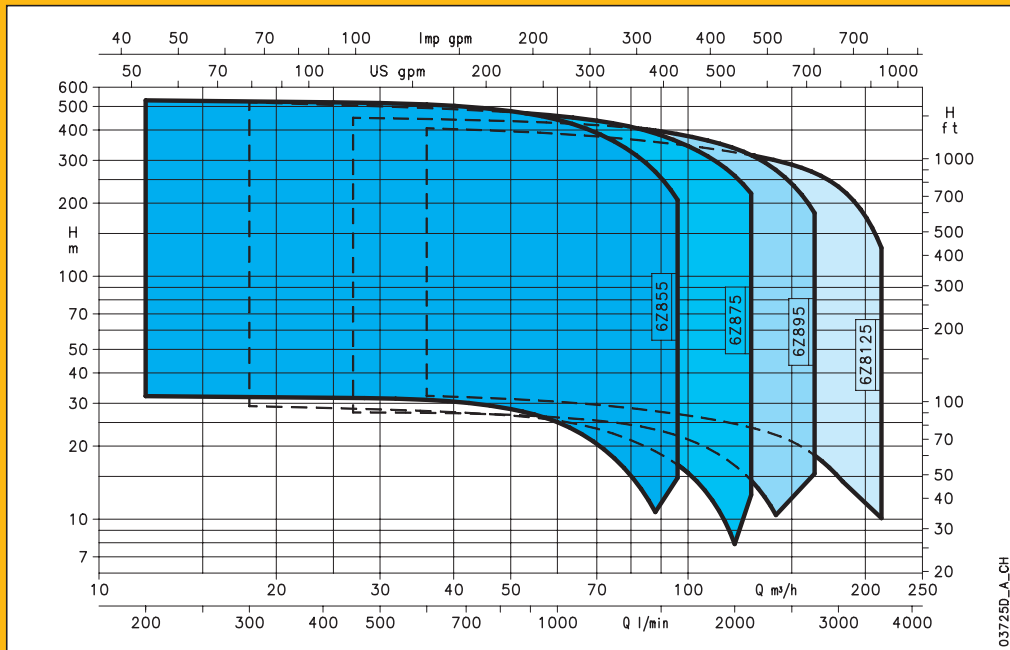
- **STRENGTH**
- **RELIABILITY**
- **EASY MAINTENANCE**

# Lowara

## Z8 SERIES OPERATING CHARACTERISTICS AT 50 Hz



## Z8 SERIES OPERATING CHARACTERISTICS AT 60 Hz





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