

TC.NS

Stainless steel sanitary pumps



| Main Characteristics

A range of **high-performance** and robust stainless steel sanitary centrifugal pumps **specially developed to cope with the most demanding and adverse process conditions.**

Suitable for **uses in the agro-food, chemical-pharmaceutical and water treatment industries.**



Versions

Range of sanitary centrifugal pumps in stainless steel, with high strength and specifically designed in order to face the most demanding and adverse employment conditions. **The particular mechanical structure gives to the pump high resistance and stability** even in situations where the pressure on the inlet pipe line can reach up to 40 Bar, and the transferred fluid is discontinuous and non-homogeneous.

Furthermore, the design of the pump guarantees **easy and complete disassembly of each component of the hydraulic body** for inspection and cleaning.

The Heart

Made of stainless steel AISI 316 by micro-casting process and redesigned with open blades to reach high performances and to improve the flow conditions.

Type

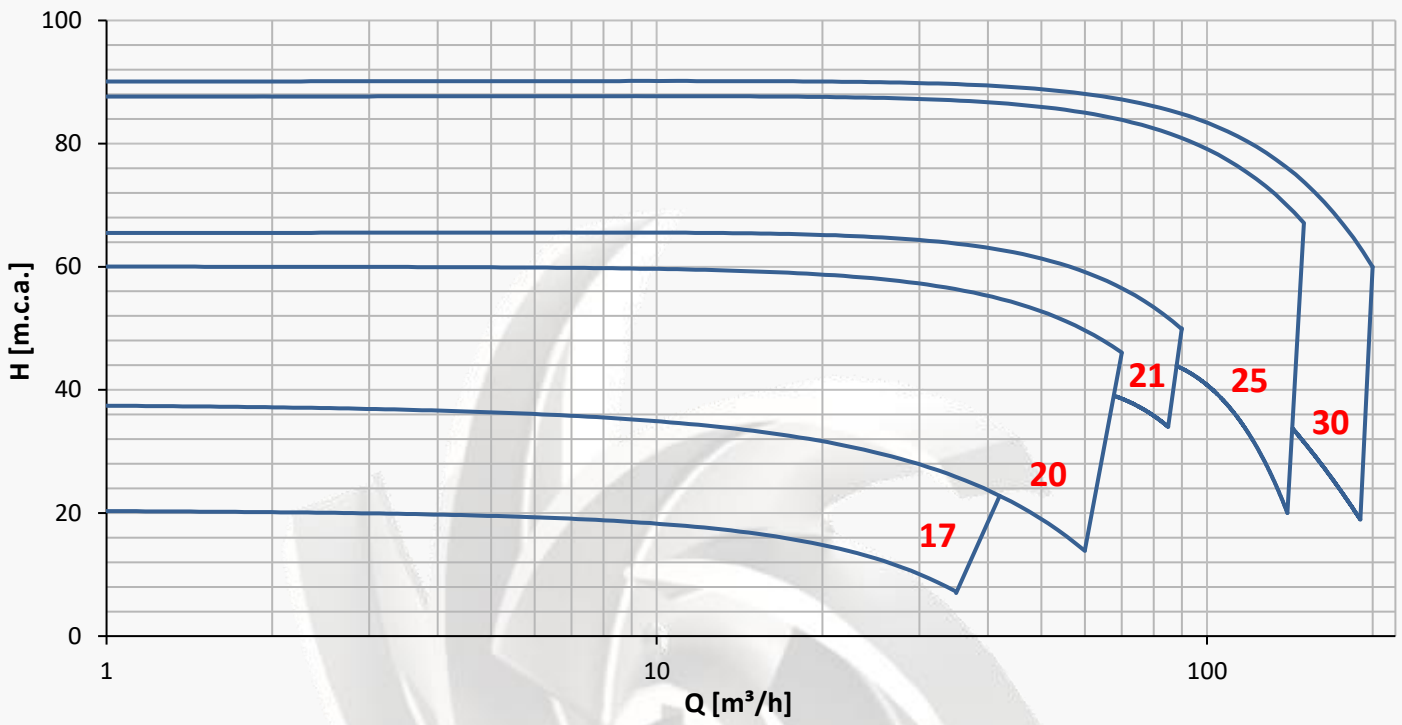
The TC.NS pump series is equipped with an 'semi-open' type centrifugal impeller with 6 profiled blades.

Advantages

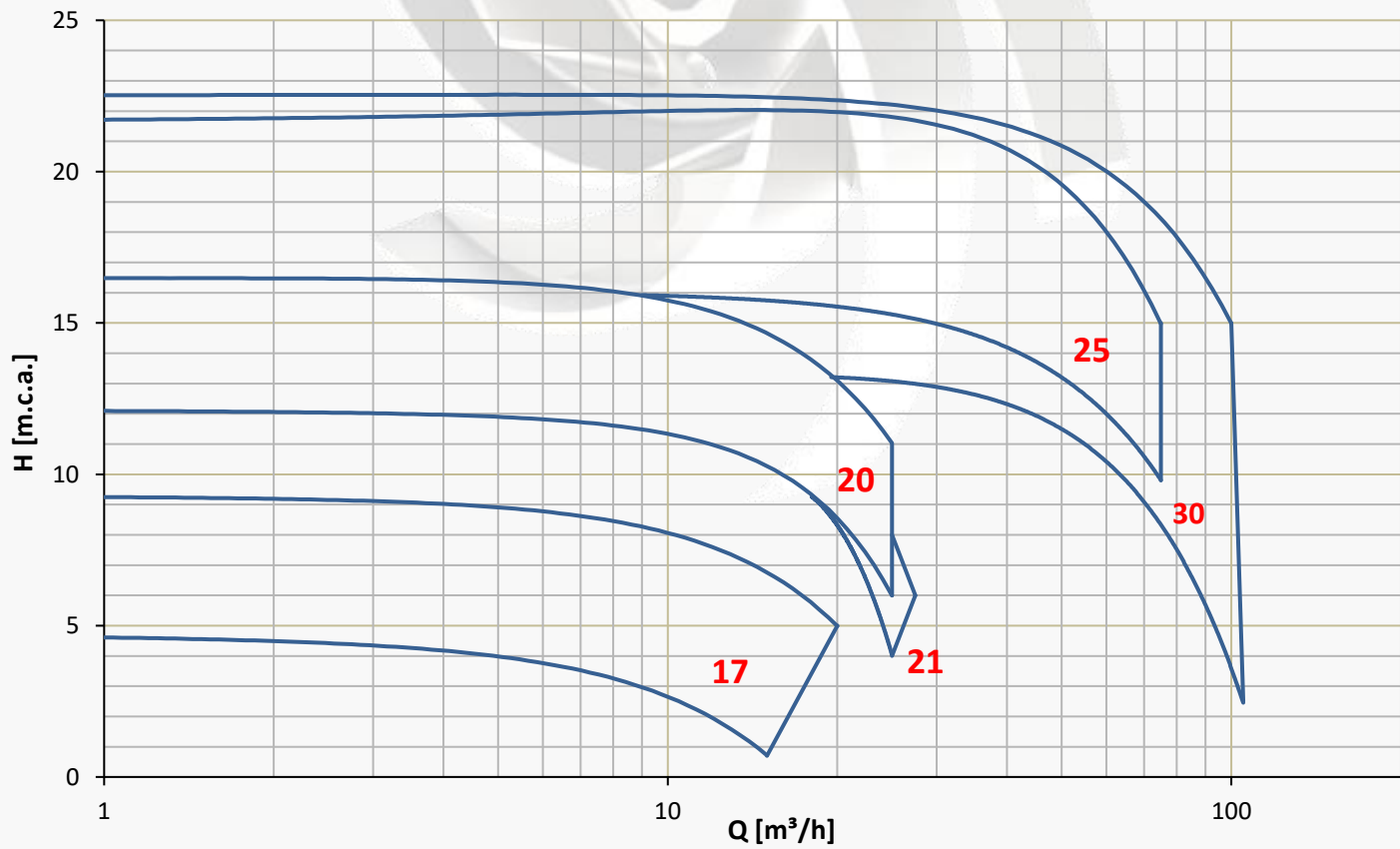
Depending on the specific requirements, it can be adapted with different blade diameter and thickness.

Range of Applications

2 Poles – 2900 r.p.m.



4 Poles – 1450 r.p.m.



Technical Specifications

Component	Type
Connections	DIN 11851 (standard), Tri-clamp, SMS, flange (regulation on request), GAS
Frame	Monobloc with B5 flange + bearings (if necessary)
	Independent frame with free end shaft + bearings(if necessary)
Mechanical Seal	Internal single execution or external double flushed, materials of the faces and the elastomers depending on the transferred fluids
Motor	3ph, according to IEC with 2 or 4 poles, insulation class depending on the transferred fluid temperature. On request even with ATEX execution or according to specific regulations (UL-CSA, NEMA)
Pump Housing Material	AISI 316L (1.4404), AISI 304L (1.4304), for extruded or laminated components; CF8 and CF8M for micro-casted components, in different configurations depending on duty



Parameters	Values
Max. Flow Rate	250 m ³ /h
Max. Head	100 m.c.a.
Temperature	between -20°C and +240°C
Max. Inlet Pipeline Pressure	15 Bar on standard versions 40 Bar on specialized versions
Max. Viscosity	300 cP
Dimensions of the Solid in Suspension	Generally for clean liquids. For specific applications, the usage limits with suspended solids are indicated on the pump technical data sheet.

Accessories

Carter

Indispensable in those applications where the pump works in wet environments or where there is a need to protect the motor from adverse environmental conditions.



Supporting Feet

They are required when the pump works in a fixed location and is not mounted on supports or pedestals.



Trolley

Useful for moving the pump from one location to another in the production department quickly and conveniently.

