

T, TP

Peripheral Pumps



Construction

Close-coupled peripheral pumps (regenerative pumps) with turbine impeller.
 T, TP: version with pump casing and lantern bracket in cast iron.
 B-T, B-TP: version with pump casing and lantern bracket in bronze (the pumps are supplied fully painted).

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
 For increasing network pressure (follow local specifications).
 For the reduced dimensions, these pumps are very well suitable to be mounted in cooling and air-conditioning machines and equipments, circulation, boiler feed.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
 Ambient temperature up to 40 °C.
 Total suction lift up to 7 m.
 Maximum permissible working pressure: 12,5 bar (16 bar for TP).
 Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n \approx 2900$ rpm).
T, TP: three-phase 230/400 V $\pm 10\%$ up to 3 kW;
 400/690 V $\pm 10\%$ from 4 to 7,5 kW;
TM, TPM: single-phase 230 V $\pm 10\%$ with thermal protector.
 Capacitor inside the terminal box.

Insulation class F.
 Protection IP 54.

IE3 efficiency class for three-phase motors (IE2 up to 0,65 kW).
 Constructed in accordance with: EN 60034-1; EN 60034-30-1.
 EN 60335-1, EN 60335-2-41.

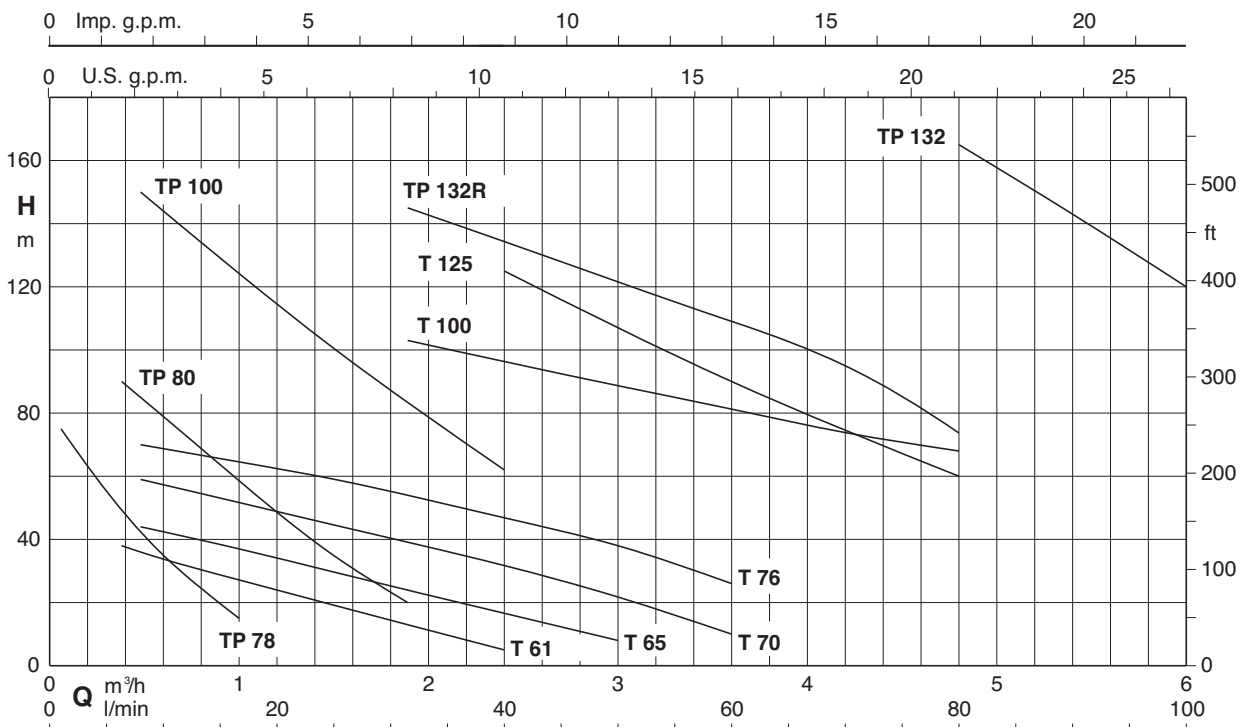
Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal.
- Higher or lower liquid or ambient temperatures.
- Construction with bearing bracket.

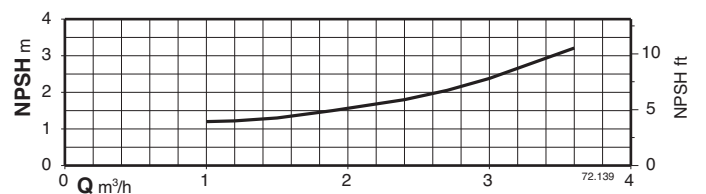
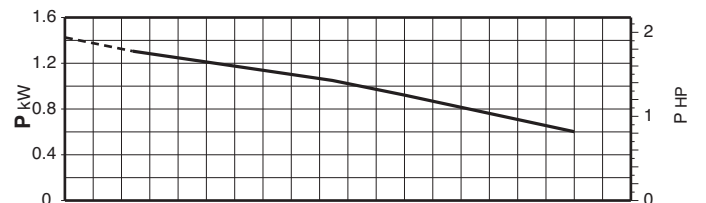
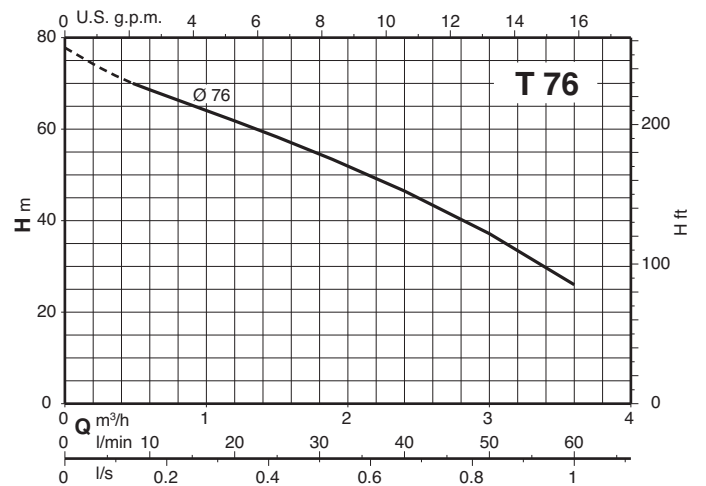
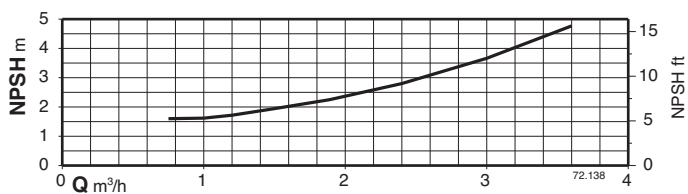
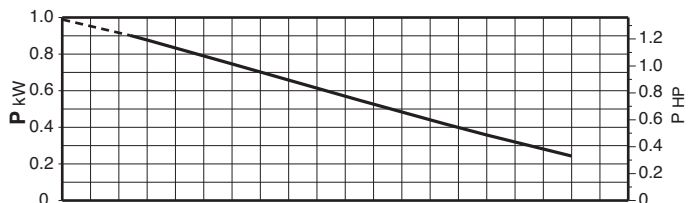
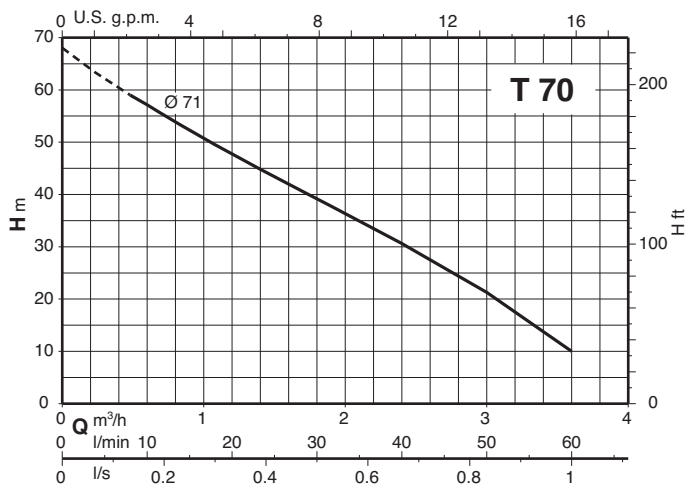
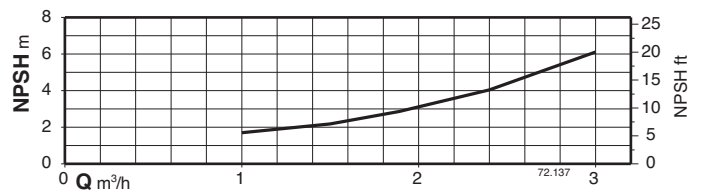
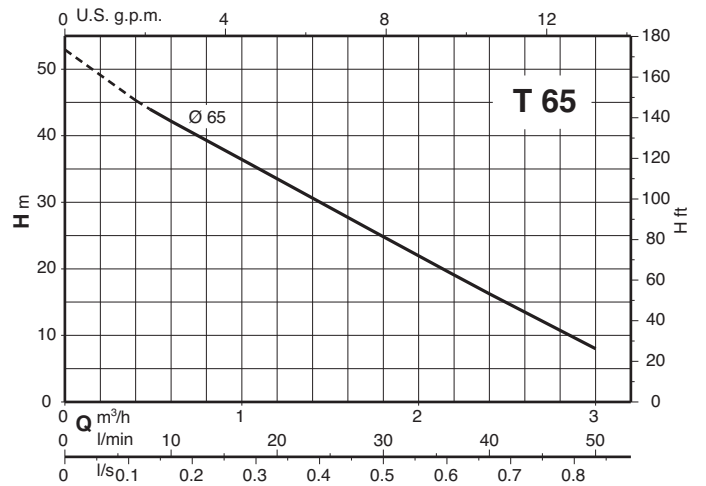
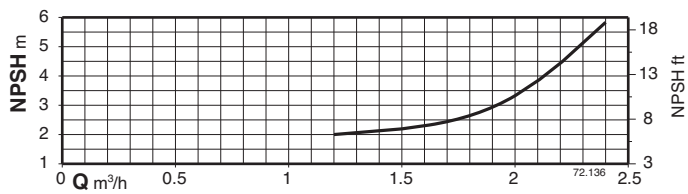
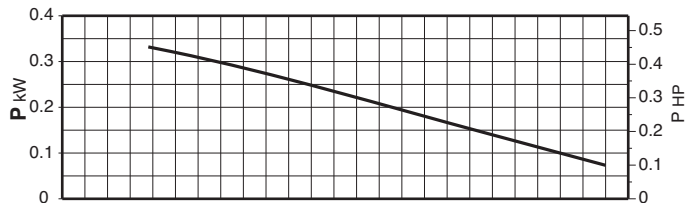
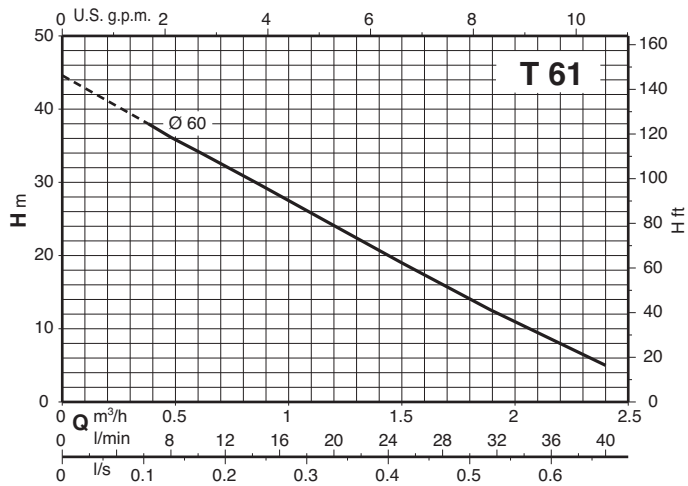
Materials

Components	T, TP	B-T, B-TP
Pump casing	Cast iron	Bronze
Lantern bracket	GJL 200 EN 1561	CC480K EN 1982
Casing cover	Cast iron	Bronze
	GJL 200 EN 1561	CC480K EN 1982
	Brass CW617N EN 12165 for T 61-65-70, B-T 61-70	
Impeller	Brass CW617N EN 12165	
	Bronze CC480K EN 1982 for T 125, TP 132-132R	
Shaft	Cr-Ni steel AISI 303 T 76, Tp 80-100	Cr-Ni-Mo steel AISI 316
	Chrome steel AISI 430 T 61-65-70-100-125, Tp 78-132-132R	
Mechanical seal	Carbon - Ceramic - NBR	

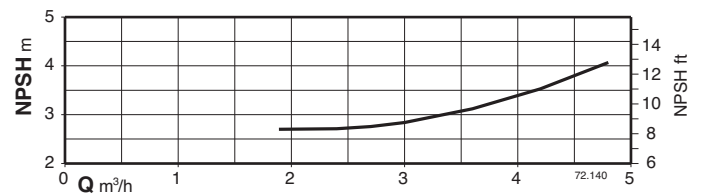
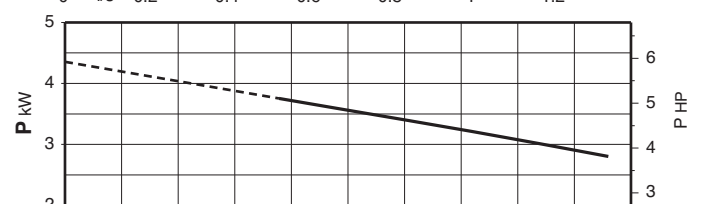
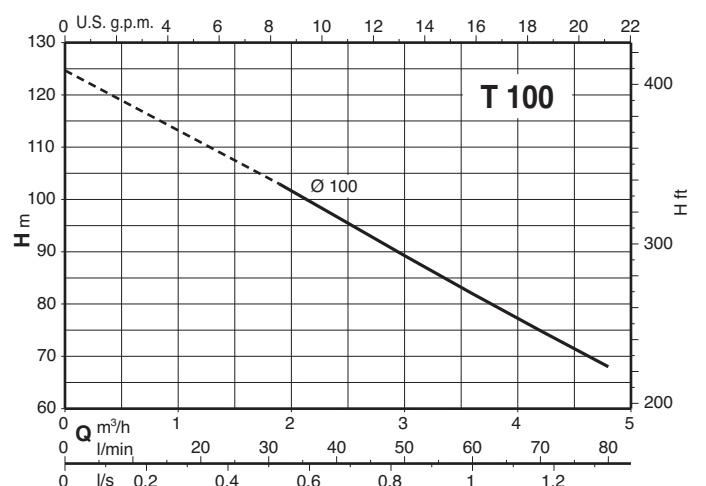
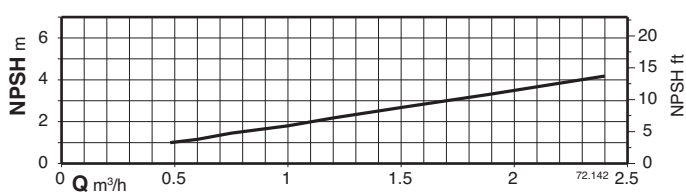
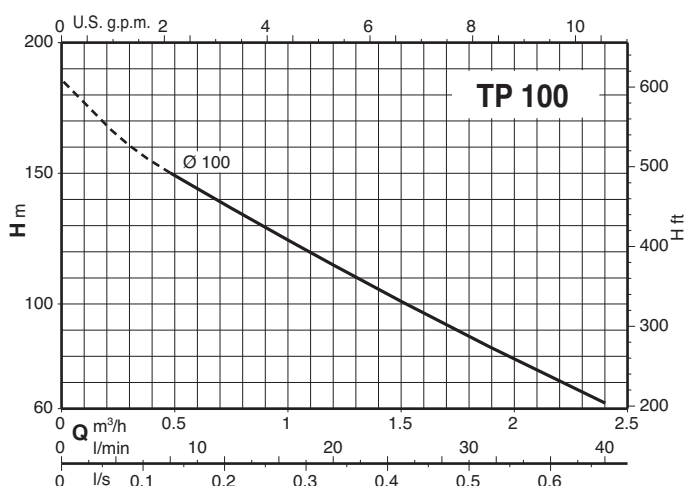
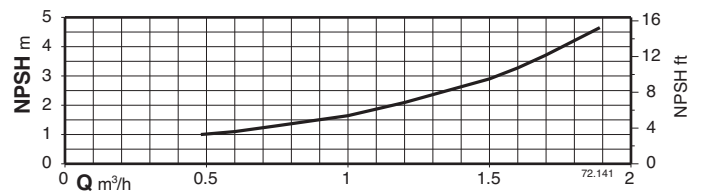
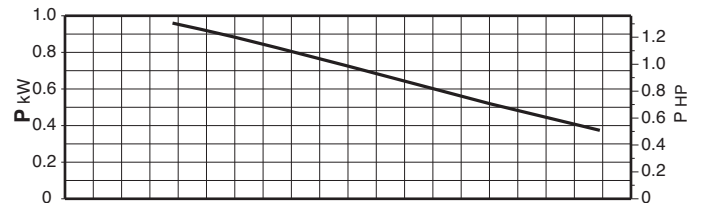
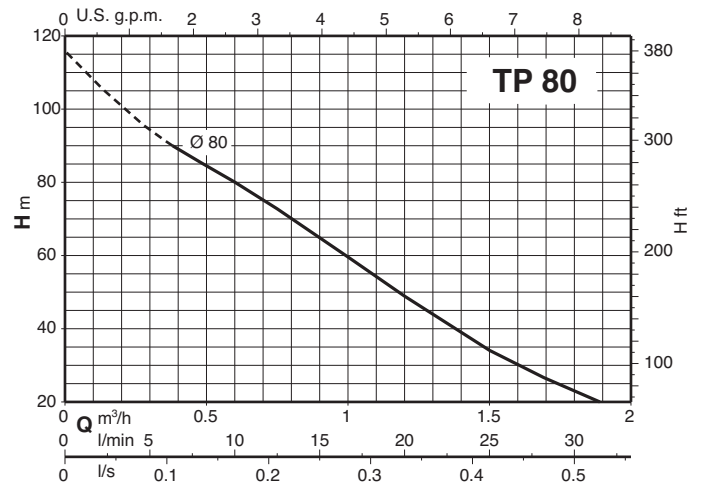
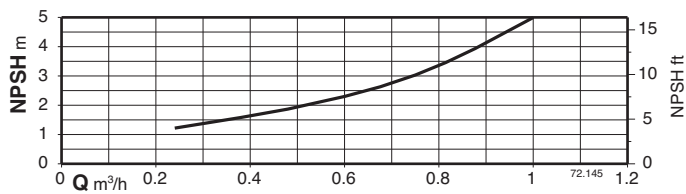
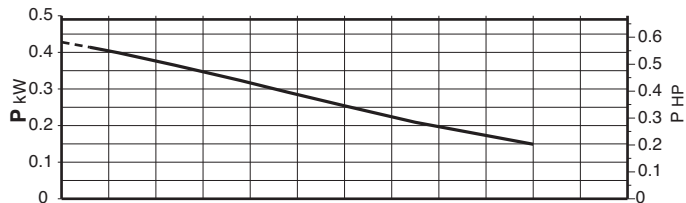
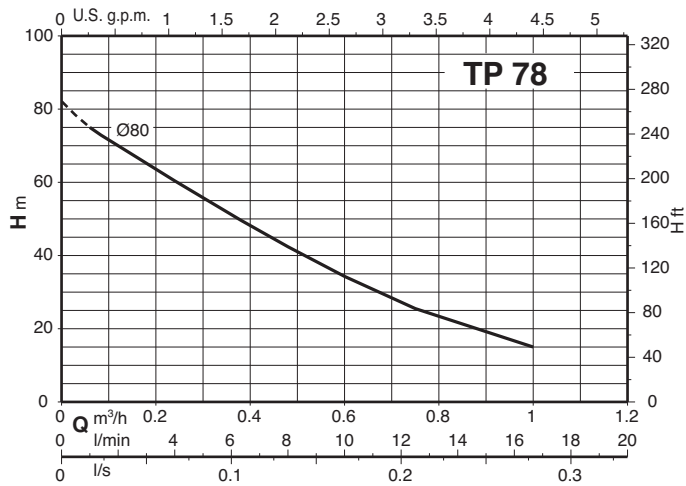
Coverage chart $n \approx 2900$ rpm



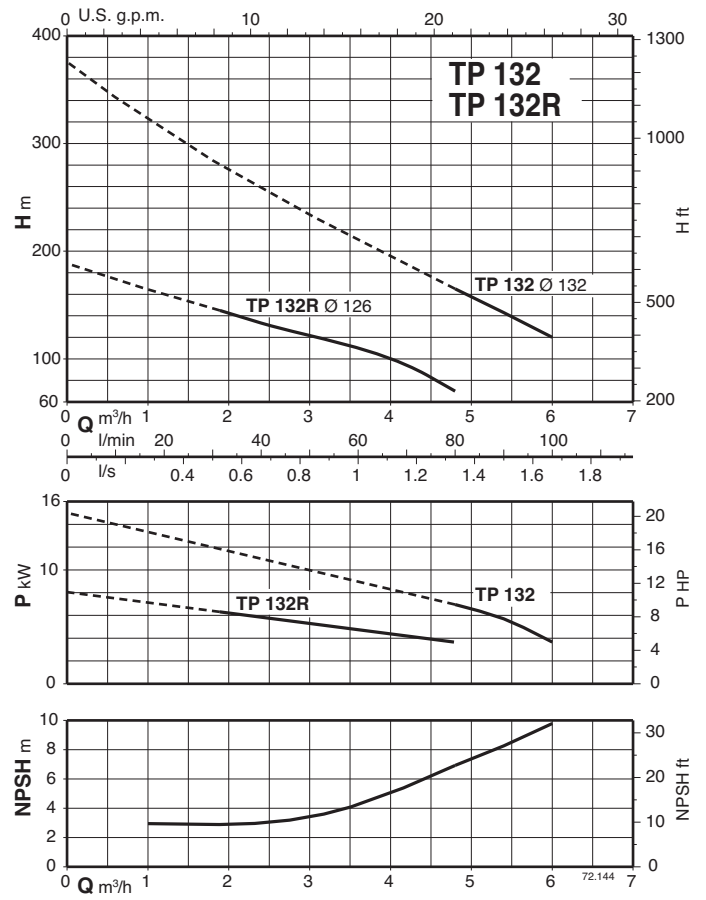
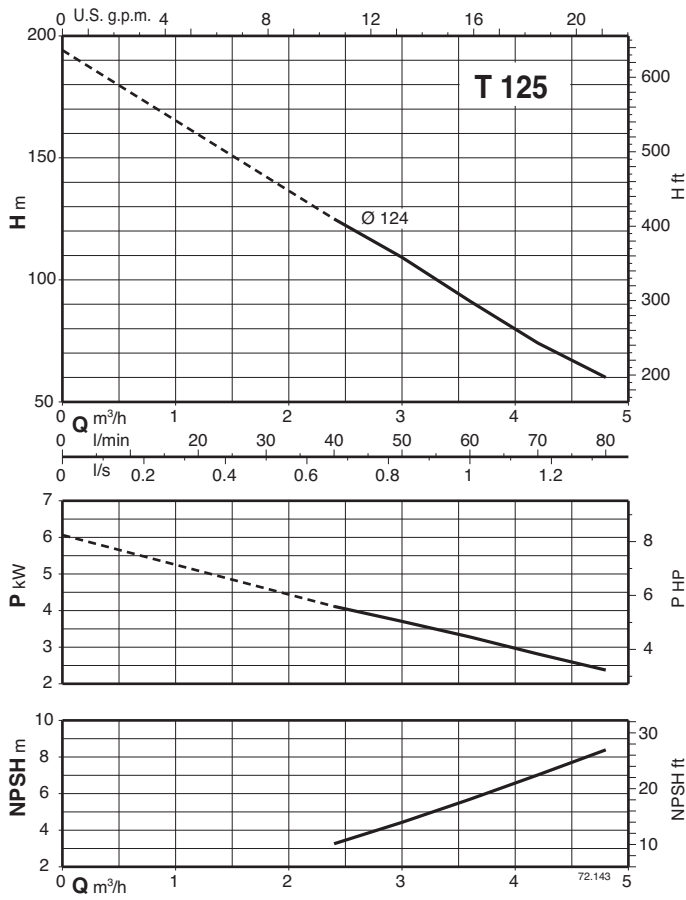
Characteristic curves $n \approx 2900$ rpm

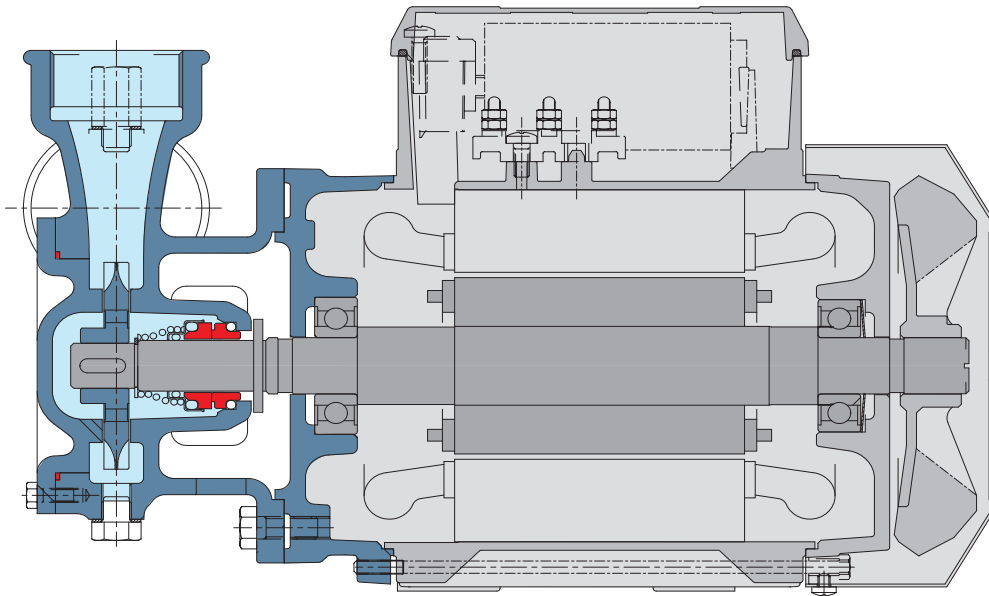


Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm



Features**Range**

The high number of pumps in the range can meet the widest range of services required by the user.

Flexible

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows T-TP series pumps to be selected for use with different types of liquids.

Reliable

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

Optimized hydraulics

The pump hydraulics are designed to ensure high performance and consistency of performance.