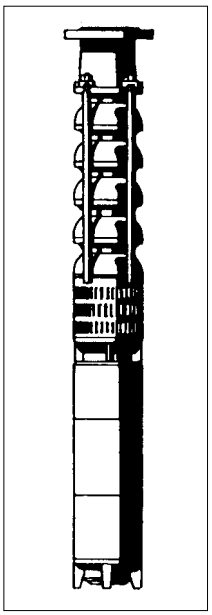
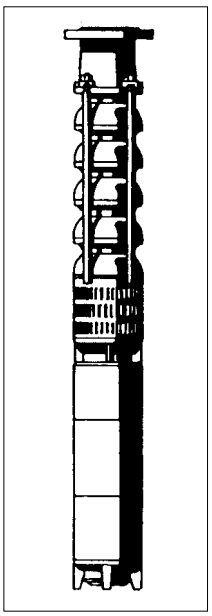
66 series

Submergible electropumps for deep wells





PUMPS

ITUR

DESCRIPTION

Vertical submergible multicellular centrifugal electropumps, of superimposed stages, with submergible motor and rigid coupling between pump and motor. Discharge outlets accept screwed fittings or flanges.

The design of the impellers, diffusers and bowls has been carefully developed in order to obtain minimum assembly diameters with maximum output. Thus, the low-flow pumps are of the radial impeller type, with replaceable diffusers and independent bowls. The medium and high-flow pumps have *semiaxial* impellers, with wide diffuser-bowls.

The semiaxial pumps have an anti-sand protection system, successfully tried out over a long period. Basically, the bearings at both ends (upper and lower) are protected against any ingress of sand, and the passage of sand through the pump intermediate bearings is facilitated by these being of special grooved rubber with a steel core.

APPLICATIONS

The **66-Series** of **ITUR Pumps** has been specially designed for the pumping of clean water (fresh or salt) from deep wells, and is therefore ideally suited in:

*** Agriculture**
- Sector irrigation
- Sprinkler irrigation
- Drip irrigation
- Decanting

*** Public Works and Town Planning**
- Gauging of wells
- Cleaning of wells
- Water supplies
- Fountains
- Jets and Geysers

*** Industry**
- Industrial supply
- Anti-fire service
- Climatization installations
- Pressurized water service

RANGE OF THE SERIES

The **66-Series** consists of 19 sizes of pump, which, combined with the number of stages available and their corresponding motors, reaches a total of 321 different types of electropump.

Service limits in standard use

Minimum well diameter	6" to 20" Ø
Discharge flanges size	DN-40 to DN-200
Threaded outlet sizes	1½" to 8"
Maximum flow	450 m³/h
Maximum manometric head	350 w.c.m.
Maximum pressure	40 bar
Rotational speed at 50 Hz	2.900 r.p.m.
Rotational speed at 60 Hz	3.500 r.p.m.
Maximum water temperature	22 ºC

ELECTROPUMP CODING

66-13/6/92

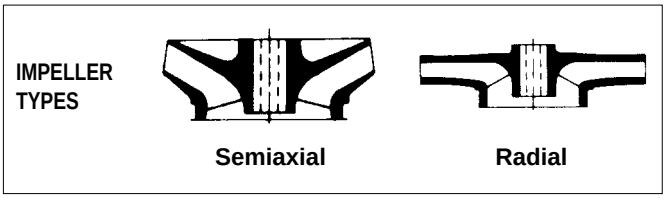
- 92 — Motor power in kW
- 6 — Number of pump stages
- 13 — Pump type

CONSTRUCTION

The ***suction casing*** contains the ***lower bearing***, self-lubricated by the fluid itself, and protected against the ingress of sand. It carries a stainless-steel ***strainer*** which prevents the entry of large solids.

The ***discharge casing*** contains the ***upper bearing***, self-lubricated by the fluid itself, and protected against the ingress of sand. The discharge connection can be by means of a DIN-2501, PN-25 or PN-40 flange, depending on the size, with an "RF" finish to DIN-2526 form C, or even by means of a BSP thread. Optionally, either case can be supplied with a built-in check-valve.

Closed ***impellers***, radial or semiaxial depending upon the size of pump, incorporating axial load compensation holes.



Bowls and diffusers of meticulous design and minimum superficial roughness in order to achieve a high hydraulic efficiency. Of heavy gauge, in order to withstand at least 1,5 times the design pressure. The sealing between the bowls is effected by means of ***flat joints***.

Intermediate bearings of neoprene with a steel or stainless-steel core, with a high-slip coefficient, combine perfectly the functions of the shaft guide, shock absorption and free passage of sands.

Pump shaft of stainless-steel, with opposed keys between two impellers and distance bushes. All the assembled rotating parts (shaft, impellers and bushes) are dynamically balanced. The ***coupling*** between the pump shafts and the motor is rigid.

The entire assembly is secured by means of steel ***ties***.

Two-pole ***electric motor*** (50 or 60 Hz), submergible, with IP-68 protection and inmersed rotor. It has a sturdy axial bearing which absorbs the entire load during the pumping operation.

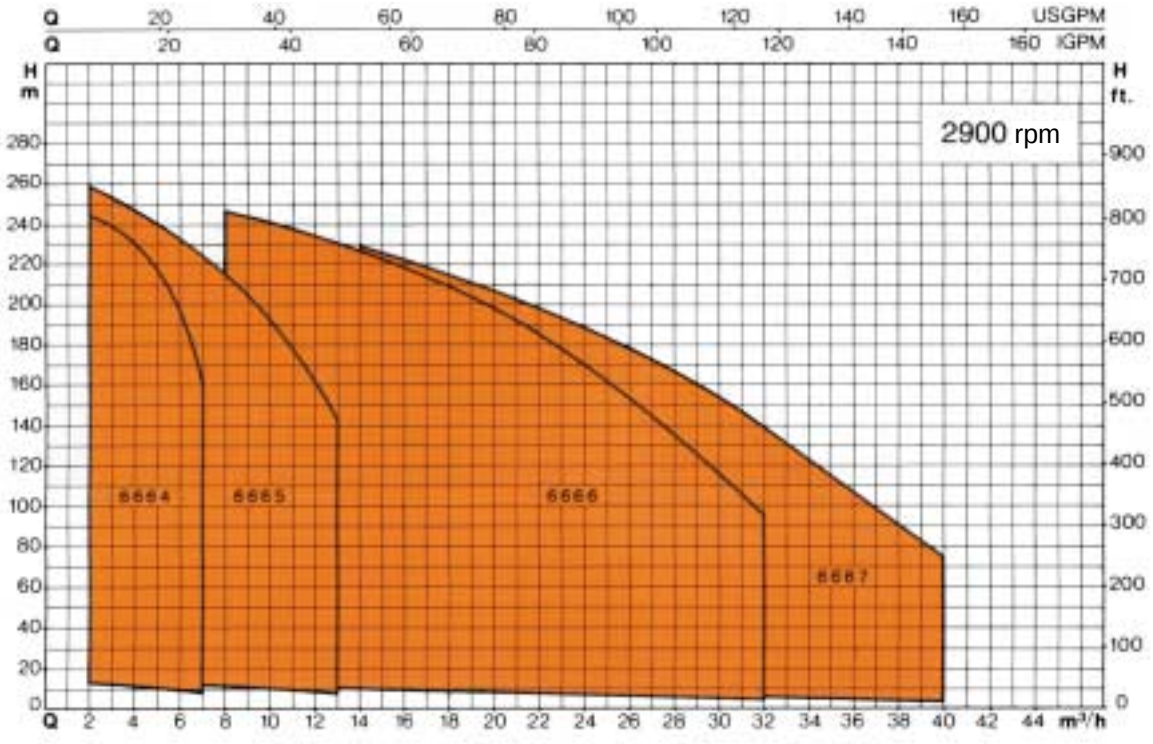
MATERIALS

In the **66-Series** of **ITUR Pumps** there exist two basic versions of use of material: one ***standar*** for pumping fresh water, and one, special ***(bronze)*** for pumping salt water.

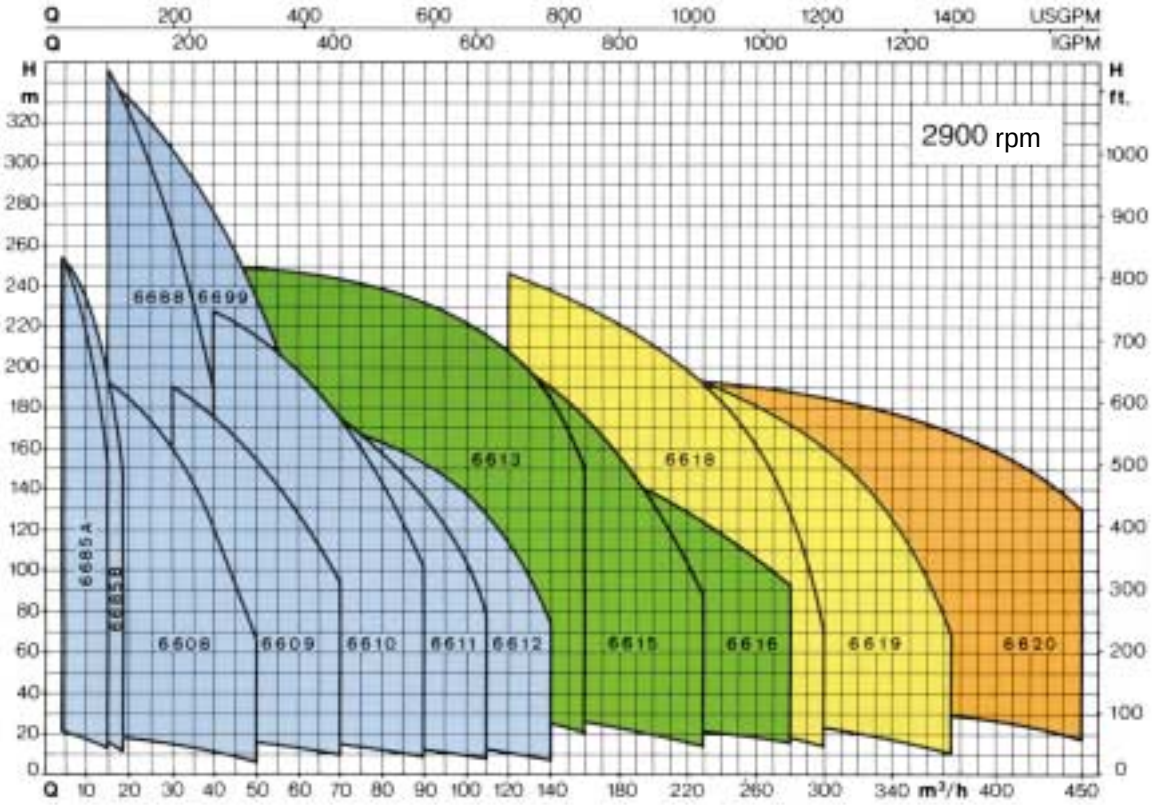
Component	STANDARD	BRONZE
Suction casing	GG-25	RG-5
Discharge casing	GG-25	RG-5
Bowls	GG-25	RG-5
Pump shaft	AISI-431-B	AISI-329
Impellers	RG-5	GSnBz10
Diffusers	GG-25	RG-5
Bearings (upper and lower)	RG-7	RG-7
Intermediate bearings	Neoprene	Neoprene

In the uses of bronze, suitable for pumping sea water, the motor is special, constructed entirely of stainless-steel. By request they can be made, with special motors for operating horizontally and/or for pumping water with a temperature above 22 °C. In these cases, please consult our Engineering Department.

SELECTION GRAPHS



Electropumps de 6”



Electropumps de 8” **Electropumps de 10”** **Electropumps de 12”** **Electropumps de 14”**

FI-Serie 66/A241-3 (02/03)

PUMPS
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