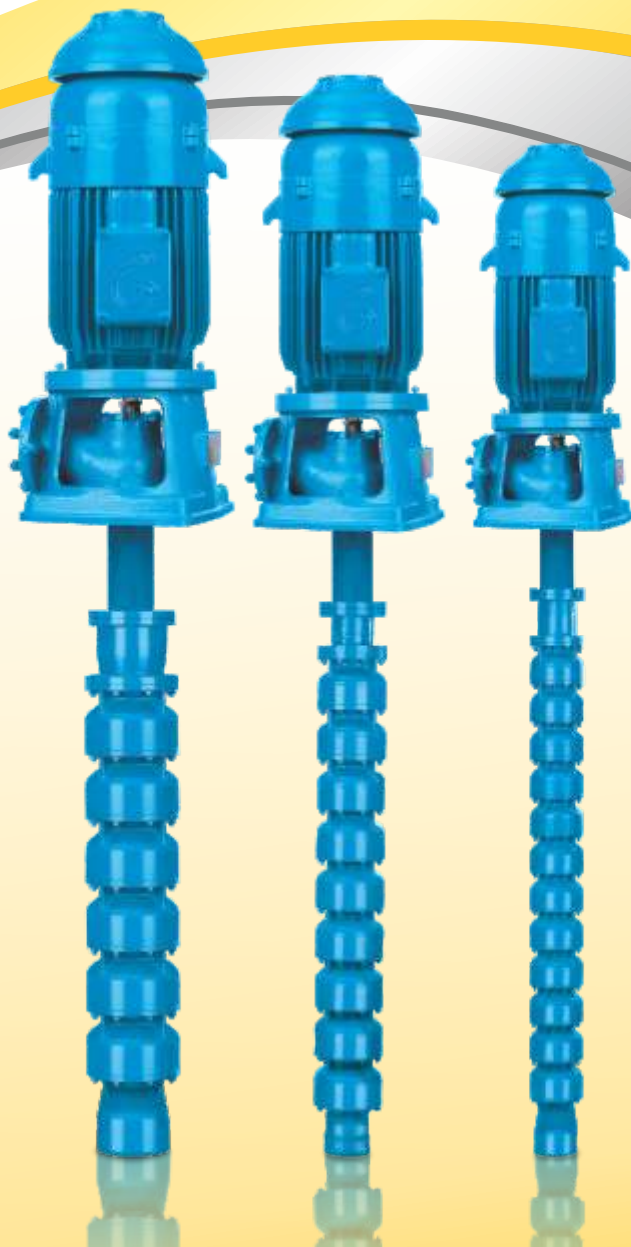


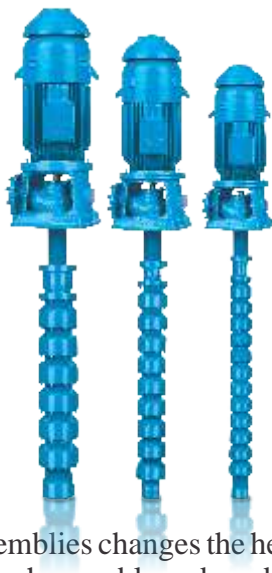


GOLDEN

Deep Well Turbine Pumps



GOLDEN Deep Well Turbine Pumps



Function:

Deep well turbine pumps are basically centrifugal pumps which are used for high head, high efficiency and constant flow. The bowl assembly is submerged in the fluid to be pumped. Deep well turbine pumps push fluid to the surface through a column pipe and then through a head assembly.

Vertical line-shaft pumps with submerge pump bowl, line-shaft and drive unit on the surface for the installation in deep wells or tanks. Featuring an extremely solid and reliable construction design, they ensure great application flexibility.

The bowl assembly which may be a single stage or multi-stage (according to the head efficiency requirement), is radially split and the intermediate bowls are interchangeable. Increase or decrease of bowl

assemblies changes the head efficiency of the pump. Same like, column pipes and column shafts are also interchangeable and used according the required head efficiency.

Deep well turbine pumps are single / multistage centrifugal pumps operating in a vertical position. Although their constructional and operational features underwent a continuous evolution over the years, their basic operational principle remained the same. Produced liquids, after being subjected to great centrifugal forces caused by the high rotational speed of the impeller, lose their kinetic energy in the diffuser where a conversion of kinetic to pressure energy takes place. This is the main operational mechanism of radial and mixed flow pumps.

The pump shaft (column shaft) is connected to a hollow shaft motor / gear (at the surface) through column pipes. Water enters the pump through an intake side and is lifted by the pump stages.

Application:

These types of pumps are suitable for water supply in housing societies / municipalities, irrigation, construction sites, high raise buildings, industrial and commercial usage.

Pump Construction:

This pump consist on three main parts i.e. bowl assembly, column pipes & shaft assembly and discharge head.

Bowl assembly in grey cast iron and specially designed dynamically balanced impeller in bronze. Column pipes in MS material and column shafts are in carbon steel. Top shaft and shaft used in bowl assembly in stainless steel for more reliable and durable pump operation. Discharge head in grey cast iron is used.

Hollow-shaft electric motors with 4 poles (1450 rpm) is suitable for these kinds of pumps.

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GOLDEN Deep Well Turbine Pumps

Pump Performance Data:

Max. Capacity:	2. cusec (max.)
Max. Head:	75 m (max.)
Speed:	1450 rpm
Max. Outlet:	8"

The pumped liquid has to be chemically and mechanically suitable for the utilized materials.

Maximum temperature of pumps liquid:	-15°C to +70°C
Maximum ambient temperature:	40°C
Maximum working pressure:	7.5 bar (max.)

Installation

The deep well turbine pump can only be positioned with vertical axis always with the motor upwards.

These pumps can be operated both with electric hollow-shaft motors or with diesel engines and they ensure unequalled service efficiency.

Performance Chart:

Class 'L' (Hz: 50):

MODEL	DISCHARGE SIZE	rpm	MAX. HEAD (ft)	DISCHARGE (CUSEC)
G - 8 - L	3" ~ 4"	1450	~ 250	1.15
G - 10 - L	5" ~ 6"		~ 250	2.00

Class 'H' (Hz: 50):

MODEL	DISCHARGE SIZE	rpm	MAX. HEAD (ft)	DISCHARGE (CUSEC)
G - 6 - H	3"	1450	~ 250	0.25
G - 7 - H	3" ~ 4"		~ 250	0.50
G - 8 - H	4"		~ 250	0.75
G - 10 - H	5" ~ 6"		~ 250	1.60
G - 12 - H	6" ~ 8"		~ 250	2.00

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