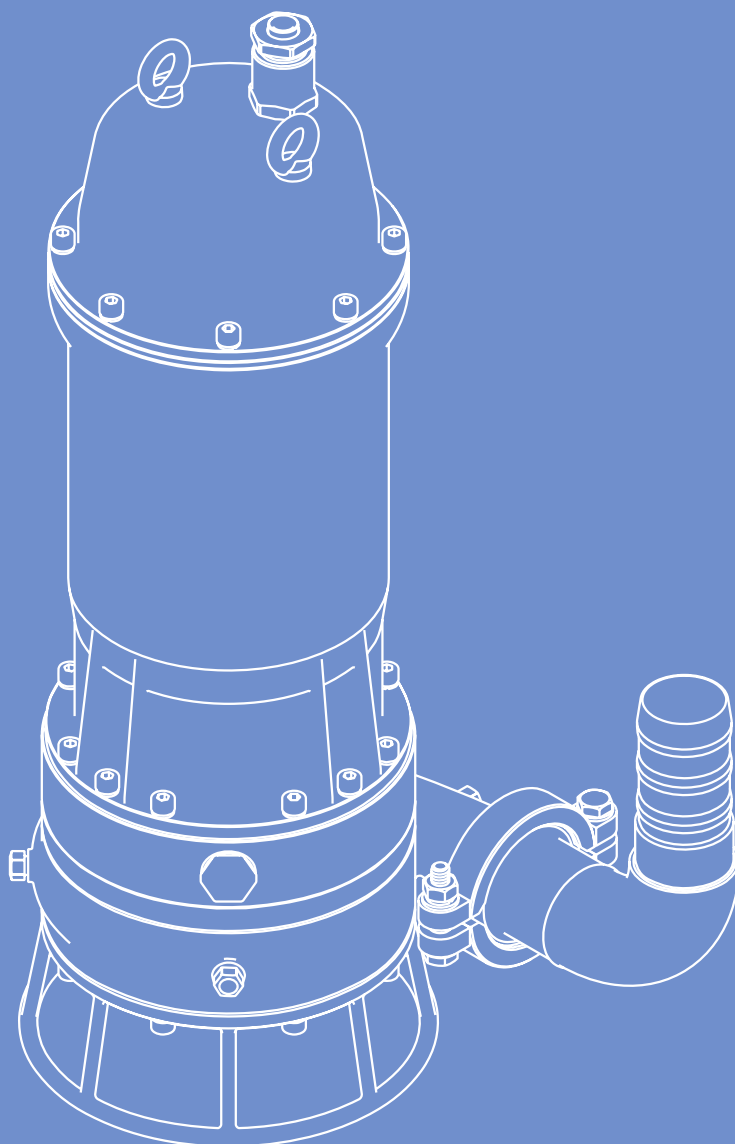


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Submersible pumping station

SN-30.30.1,1R1-03.50.30.5,5.2T

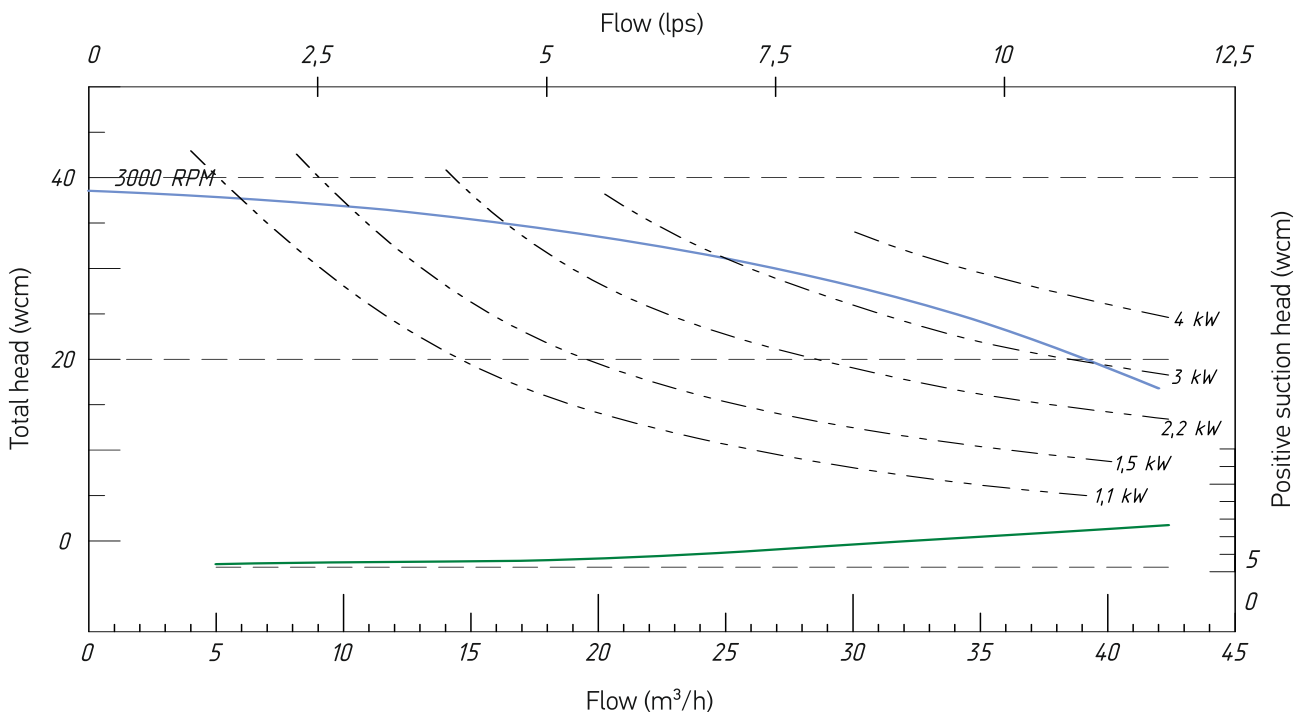
SUBMERSIBLE PUMPING STATION SERIES SN-30.30.1,1R1-03.50.30.5,5.2T

Submersible pumping station SN-30.30.1,1R1-03.50.30.5,5.2T is designed for pumping a high volume of liquids of various viscosities and compositions, including liquids with a high content of solid particles and abrasive contaminant:

- for pumping groundwater in construction sites and mines;
- for supplying water from ponds, wells, boreholes and reservoirs to ensure water supply;
- for filling tanks, irrigation systems, swimming pools, etc.
- for draining swamps, foundation pits, lakes and other reservoirs;
- for dredging, washing up of shore, desludging, etc.;
- for maintenance and repair of gas pipelines in swampy and flooded areas;
- for the purpose of remedying the consequences of natural disasters;
- for pumping domestic and industrial wastewater;
- for pumping drilling mud and process effluent of oil producing and oil refinery.

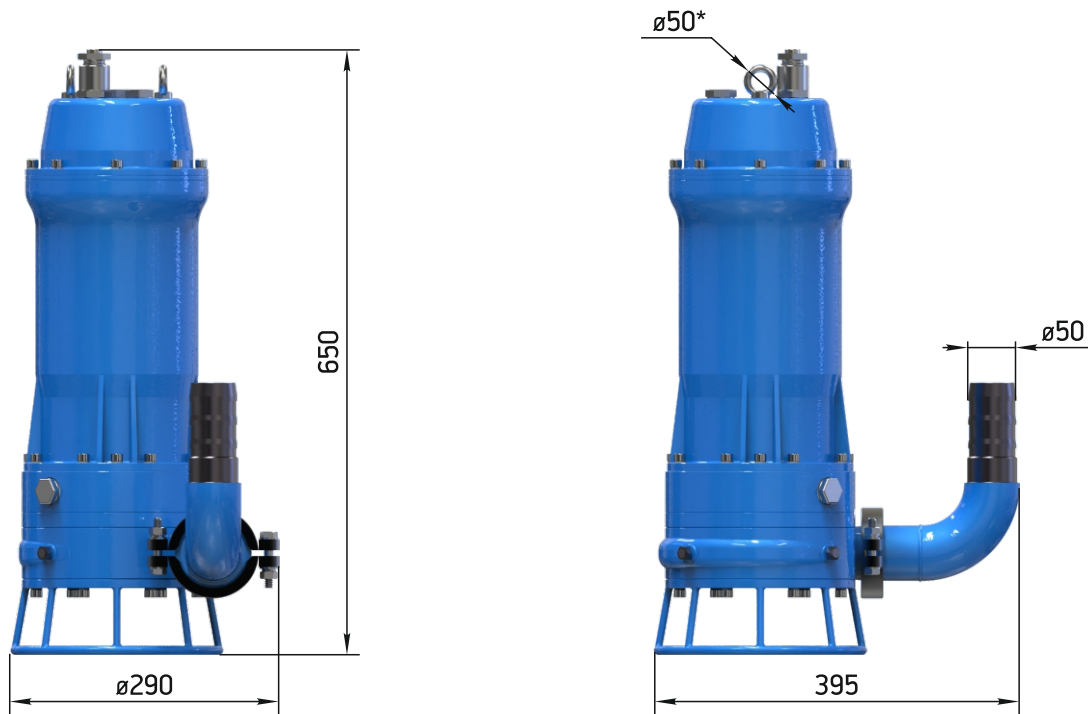


Figure 1.



Graph 1 - Graph of the pump shaft rotation speed and power consumption* for a density of 1000 kg/m³

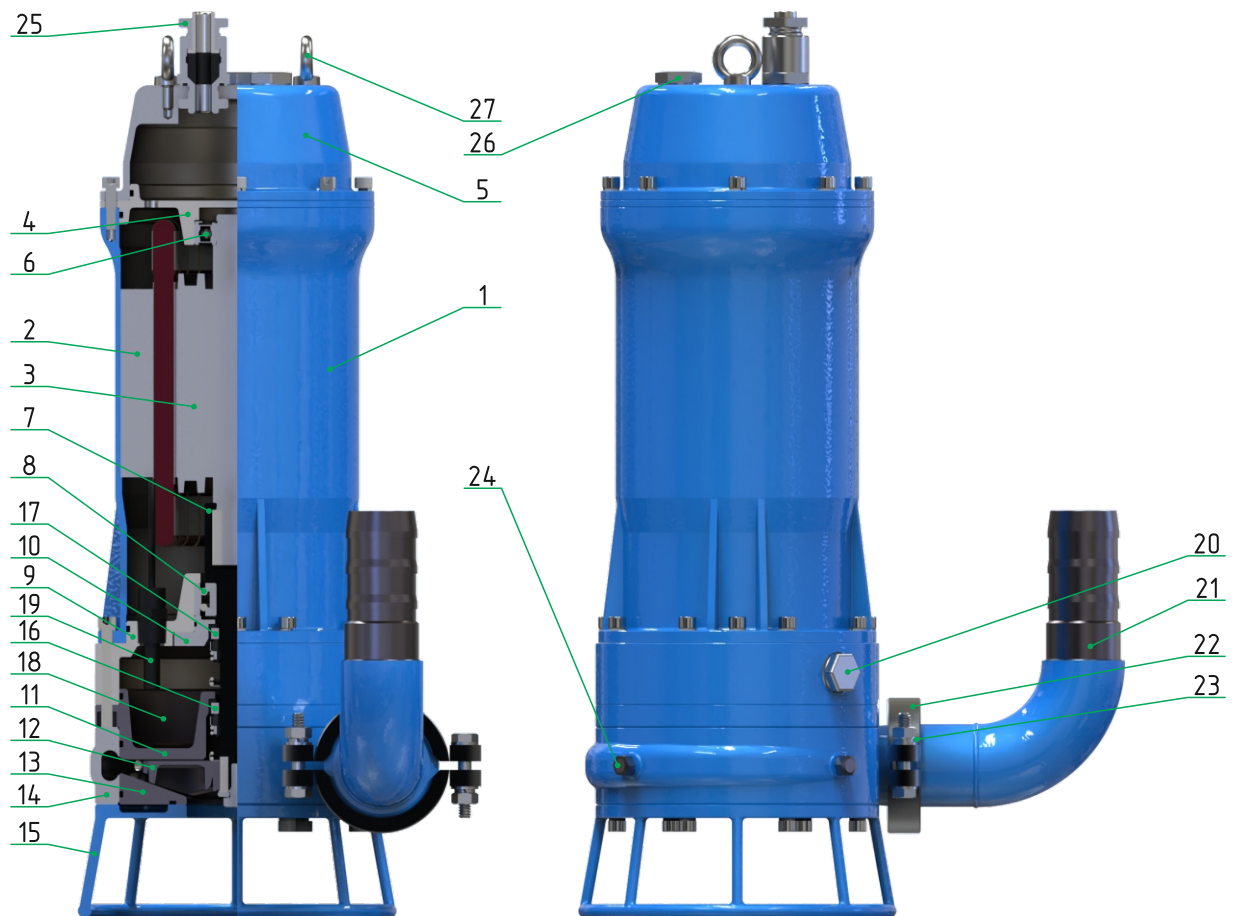
Hydraulic power is designed for water and other liquids that have viscosity and density properties similar to water. For liquids with other densities and viscosities, recalculation of the hydraulic characteristics is required.



Picture 2 - Pumping station SN-R1-03. Dimensions.

Technical specifications of pumping station SN-R1-03

<p>Pumped fluid properties: hydraulic fluid density, kg/m³ temperature, °C solid particle content solid particle maximal size, mm</p>	<p>SN-30.30.1,1R1-03.50.30.5,5.2T up to 1100 +5 ... +20 up to 20% at most 4</p>
<p>Attributes: Max head, wcm (bar) Rated head, wcm (bar) Max flow, m³/h (lps) Rated flow, m³/h (lps) Discharge manifold DN, mm Dimensions, LxBxH, mm Depth capability, m Station weight, kg, ±3%</p>	<p>38 (3.8) 30 (3) 40 (11.1) 30 (8.3) 50 395x290x650 20 65</p>
<p>Electric motor: Power, kW Rate speed, rpm Rated current, A Characteristic curve</p>	<p>5,5 3000 11 220V/50Hz</p>



Picture 3 - Pumping station SN-R1-03. Structure.

The pumping station SN-30.30.1,1.R1-03.50.30.5,5.2T (Figure 3) is a device consisting of motor enclosure (pos.1), a stator (pos.2), an armature (pos.3), a top bearing support (pos.4), a motor protective cover (pos.5), top single-row ball bearing (pos.6), a pump shaft (pos.7), bottom radial double-row ball bearing (pos.8), bearing housing assembly (pos.9), open cover (pos.10), rear wear disc (pos.11), an impeller (pos.12), front wear disc (pos.13), a volute (pos.14), a base (pos.15), a primary mechanical seal (pos.16), a secondary mechanical seal (pos.17), intermediate oil chamber (pos. 18), a drain plug (pos.20), outlet pipe 2" (pos.21), clamp (pos.22), O-ring (pos.23), plug for cleaning the flow part of the volute (pos.24), sealed cable gland (pos.25), hole cap (pos.26), eyebolt (pos.27). Optionally, a moisture sensor (pos.19) can be installed in the oil chamber.

At the customer's request, the pumping station can be equipped with a control box in which various equipment can be installed: variable speed drive, soft starter, pumping station protection controller, etc.

Pump parts are made of AISI 5140 steel with heat treatment. At the request of the customer, it is possible to "nitrid" the flow part; the nitrided surface is resistant to abrasive and corrosive wear. Or make the flow part from corrosion-resistant steel (stainless steel).

Pumping station SN-R1-03. Additional options.

Pumping station control panel IP 54 (+5 ... +40°C). General purpose industrial version.	<input type="checkbox"/>
Pumping station control panel IP 66 in an explosion-proof design ExdIIBU (-60 ... +50°C)	<input type="checkbox"/>
Variable speed drive (V) for smooth control of the speed of rotation of the motor shaft. Installed in the control cabinet. Allows you to save up to 50% of electricity in variable operating modes.	<input type="checkbox"/>
Cabinet heating at low temperatures (at -40°C)	<input type="checkbox"/>
Motor choke to reduce interference from the frequency converter to the motor	<input type="checkbox"/>
Line choke to reduce interference from the frequency converter to the line	<input type="checkbox"/>
Oil chamber water sensor	<input type="checkbox"/>
PTC motor temperature sensor	<input type="checkbox"/>
Float sensor for pumping station shutdown	<input type="checkbox"/>
Stainless steel metalware	<input type="checkbox"/>
Tandem mechanical seal with intermediate oil chamber	<input type="checkbox"/>
Nitriding of the flow part	<input type="checkbox"/>
Flow part made of corrosion-resistant steel (stainless steel)	<input type="checkbox"/>

Varieties of submersible pumping station installation SN-R1-03

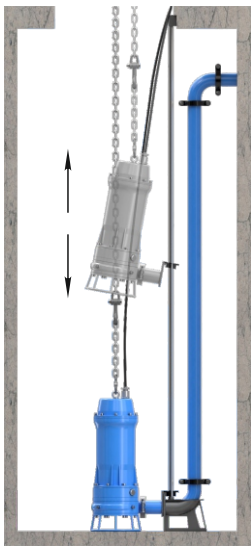


Figure 5

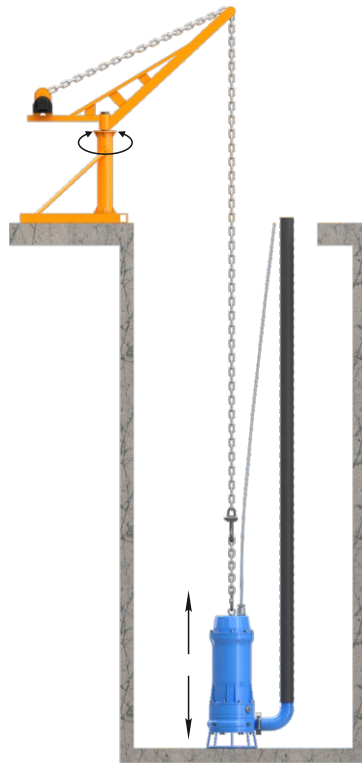


Figure 6

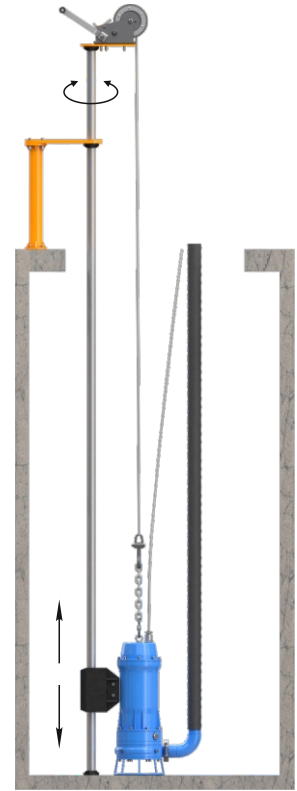


Figure 7

Stationary installation with automatic coupler (fig. 5)	<input type="checkbox"/>
Vertical mounting on support cage (fig. 6)	<input type="checkbox"/>
Vertical mounting with guide support (fig. 7)	<input type="checkbox"/>

Delivery set of submersible pump station installation SN-R1-03

Stainless steel chain for mounting/dismounting the pumping unit, length 10 m	<input type="checkbox"/>
Power cable for connecting the pumping unit, 20 m	<input type="checkbox"/>
Guide with mounting kit, guide length 6 m	<input type="checkbox"/>
Automatic coupling device	<input type="checkbox"/>
Device for raising/lowering the pumping unit (winch)	<input type="checkbox"/>
Discharge pipe for connection to a pressure pipe	<input type="checkbox"/>
Pressure pipe, length _____ m	<input type="checkbox"/>

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