

# ДРЕНАЖНЫЕ НАСОСЫ WNQ



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# ДРЕНАЖНЫЕ НАСОСЫ WNQ



**WNQ Submerged Dredge Pumps** are also known as onboard dredge pumps it can be installed onboard either of the dredging vessels or in the suction pipe or cutter ladder as submerged pump. Onboard dredge pumps are the primary power source for transporting the mixture to the hopper or discharge location. The dredge pumps are also essential for mixture transport in stationary dredgers and at pipeline booster stations.

## Design Features:

- **Heavy Duty** - a double-walled pump construction fully equipped with interchangeable wear parts. Excellent configuration for the most demanding operations.
- **Performance** - a single-walled construction furnished with, where possible, replaceable wear parts. An all purpose dredge pump and balanced option as regards weight, size and replaceable wear parts.
- **Easy** - for operations that are less demanding. This is a single-walled construction without any replaceable wear parts - a pump construction with as few components as possible.
- **Benefits** - reliable long-term operation and long lifetime, full range to suit all needs, up to 90 percent efficiency, minimum local wear, robust and easy maintainable.

All WNQ submersible mud pump configurations are available for onboard, inboard, submerged and booster applications, and with suction diameters ranging from 300 to 1,000mm.

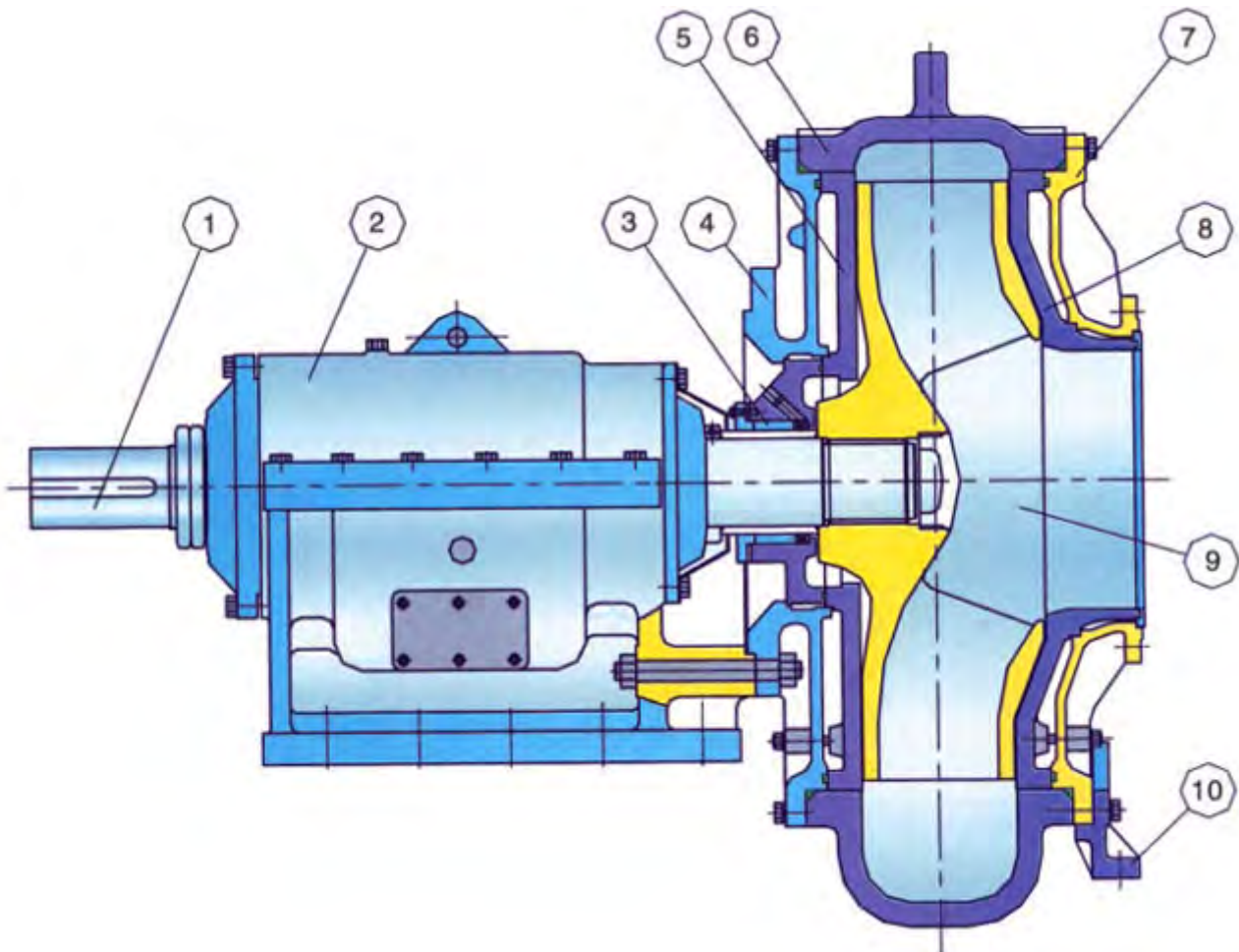
## Applications

WNQ Submerged Dredge Pumps Performance Parameters:

Model	Capacity (m <sup>3</sup> /h)	Head (m)	Speed (rpm)	Eff. $\eta$ (%)	NPSHr (m)	Inlet Dia. (mm)	Outlet Dia. (mm)	Max. Particles (mm)
300WNQ	1800-2200	20-65	300-550	70-78	<4	350	300	240
450WNQ	3200-3800	20-67	250-550	70-78	<4.5	600	450	240
500WNQ	4500-5800	20-65	250-550	74-80	<4.5	650	500	240
600WNQ	5000-7000	20-65	250-550	74-80	<4.5	660	600	250
650WNQ	6000-9000	20-70	200-400	75-85	<5.5	700	650	260

<b>700WNQ</b>	7500-1200	20-75	200-400	78-85	<5.5	760	700	280
<b>800WNQ</b>	10000-15000	20-78	200-380	80-84	<6	900	800	300
<b>900WNQ</b>	12000-19000	20-75	810-350	80-85	<6	960	900	320
<b>1000WNQ</b>	16000-25000	20-78	180-350	80-85	< 6	1200	1000	350

**WNQ Submerged Dredge Pumps Structural Drawing:**

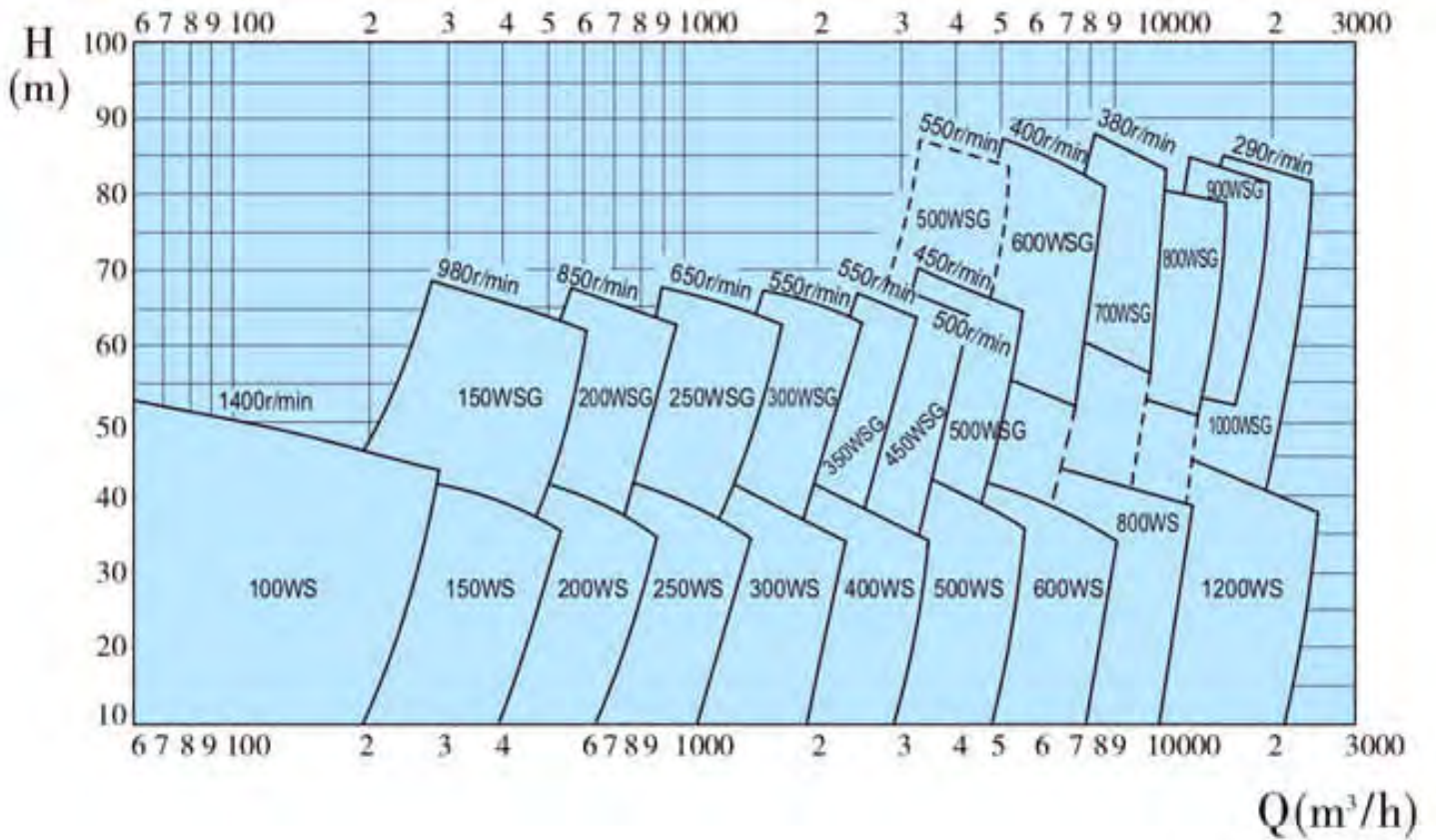


**Main Part Number At The Drawing**

- 1 – Shaft
- 2 – Frame
- 3 – Mechanical Seal Assembly
- 4 – Connecting Plate
- 5 – Rear Liner
- 6 – Pump Casing
- 7 – Cover Plate
- 8 – Front Liner
- 9 – Impeller
- 10– Support

## DREDGE PUMP SELECTION CHART

Cv	Q(m <sup>3</sup> /h)																
30%	30	6	9	12	15	18	24	300	6	9	12	15	18	24	3000	6000	9000
20%	20	4	6	8	10	12	16	200	4	6	8	10	12	16	2000	4000	6000
10%	10	2	3	4	5	6	8	100	2	3	4	5	6	8	1000	2000	3000



Note: Approximate Performance For Clear Water, To Be Used For Primary Selection Only.



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