



## SN-R1 PUMPING STATIONS

SN-R1 pumping station is designed for pumping the various liquids:

- abrasive hydraulic fluids (clay and gravel solutions, slurry solutions, a mixture of water and sand, ore, etc.);
- Washing solution used in wells drilling;
- domestic and industrial wastewater;
- spent washing solution in a hydrocyclone plant for cleaning from drill cuttings;
- cement slurries.

Pumped medium specifications;

- hydraulic fluid density up to 2500 kg/m<sup>3</sup>;
- temperature from +5 to +55 C°;
- open impeller provides free movement of coarse particles

Stations are produced on the basis of **NC-R1 centrifugal pumps**. The pumping station is light, compact, maintenance-friendly, requires minimal installation space. Stations layout may be vertical or horizontal. SN-R1 pumping station consists of: NC-R1 centrifugal pump, a motor, a positioning ram, and rotary body protection cover.

Benefits:

- ease of maintenance;
- light weight and compactability;
- minimal installation space;
- increased wear resistance of all parts;
- universal design that allows the Customer to purchase only those parts that are necessary for repair.

Additional options for SN-R1 pumping plants:

- various positioning rams;
- flanged pipelines or pipelines for welding, shut-off valves.
- HC control desk;
- smooth start unit;
- frequency transducer for smooth electric motor shaft rotation speed;
- advanced environmental protection level (for street use).

Potential supply upon customer's request:

- pumping plant with the electric motor drive;
- pumping plant with the diesel engine drive;
- pumping plant with the hydraulic motor drive;



Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-76R1 (4x3) centrifugal pump

Indicants	SN-125R1 / SN-125R1-01	SN-160R1 / SN-160R1-01
Max. head, wcm	16.5	75
Feed, m <sup>3</sup> /h - max. pressure, Atm.	125 - 1.2	160 - 5
Weight, kg	248 / 270	358 / 365
Dimensions, L x S x H*, mm	1300x470x500 / 580x460x1500	1370x450x540 / 580x500x1520
Electric motor		
Brand	5AMX160S4	5A200M2
Voltage, kW	15	30
Rotation rate, rot./min.	1500	3 000

Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-100R1 (5x4) centrifugal pump

Indicants	SN-126R1 / SN-126R1-01	SN-225R1 / SN-225R1-01
Max. head, wcm	20	55
Feed, m <sup>3</sup> /h - max. pressure, Atm.	126 - 0.6	225 - 3.6
Weight, kg	248 / 270	358 / 365
Dimensions, L x S x H*, mm	1300x470x500 / 580x460x1500	1370x450x540 / 580x500x1520
Electric motor		
Brand	5AMX132S4	5A200M2
Voltage, kW	7.5	30
Rotation rate, rot./min.	1500	3 000



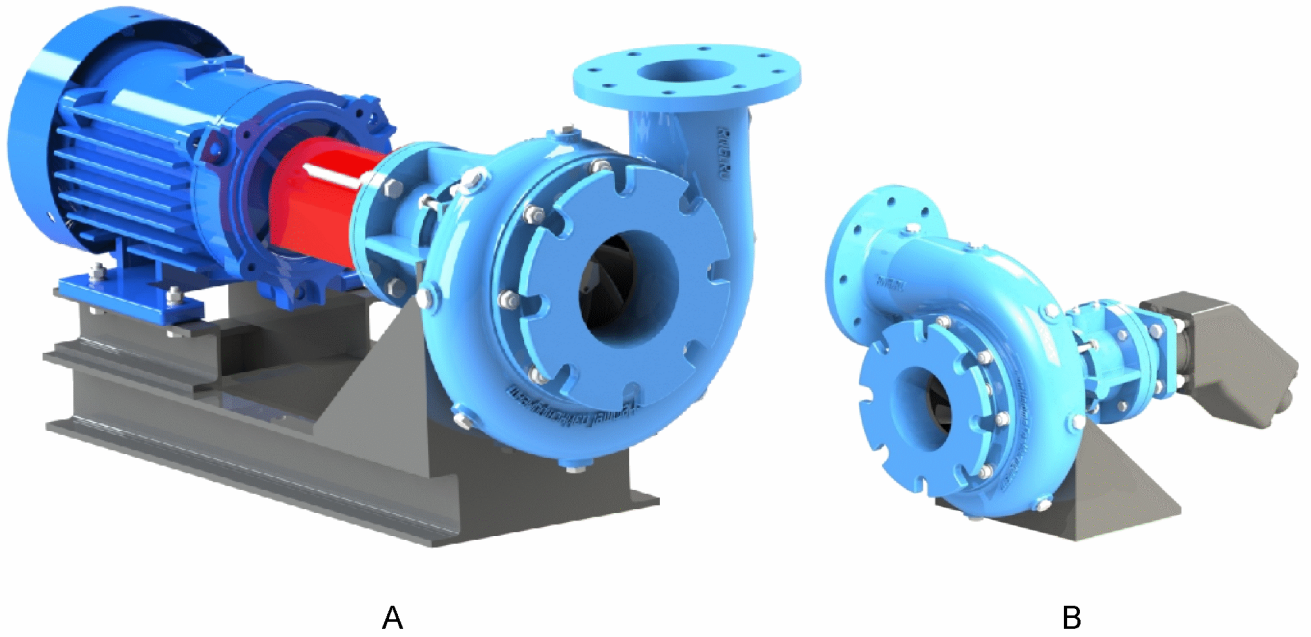


Figure 1 – Horizontal layout pumping station on the basis of NC-100R1 pump (5x4)  
(A – electric motor drive; B – hydraulic motor drive)

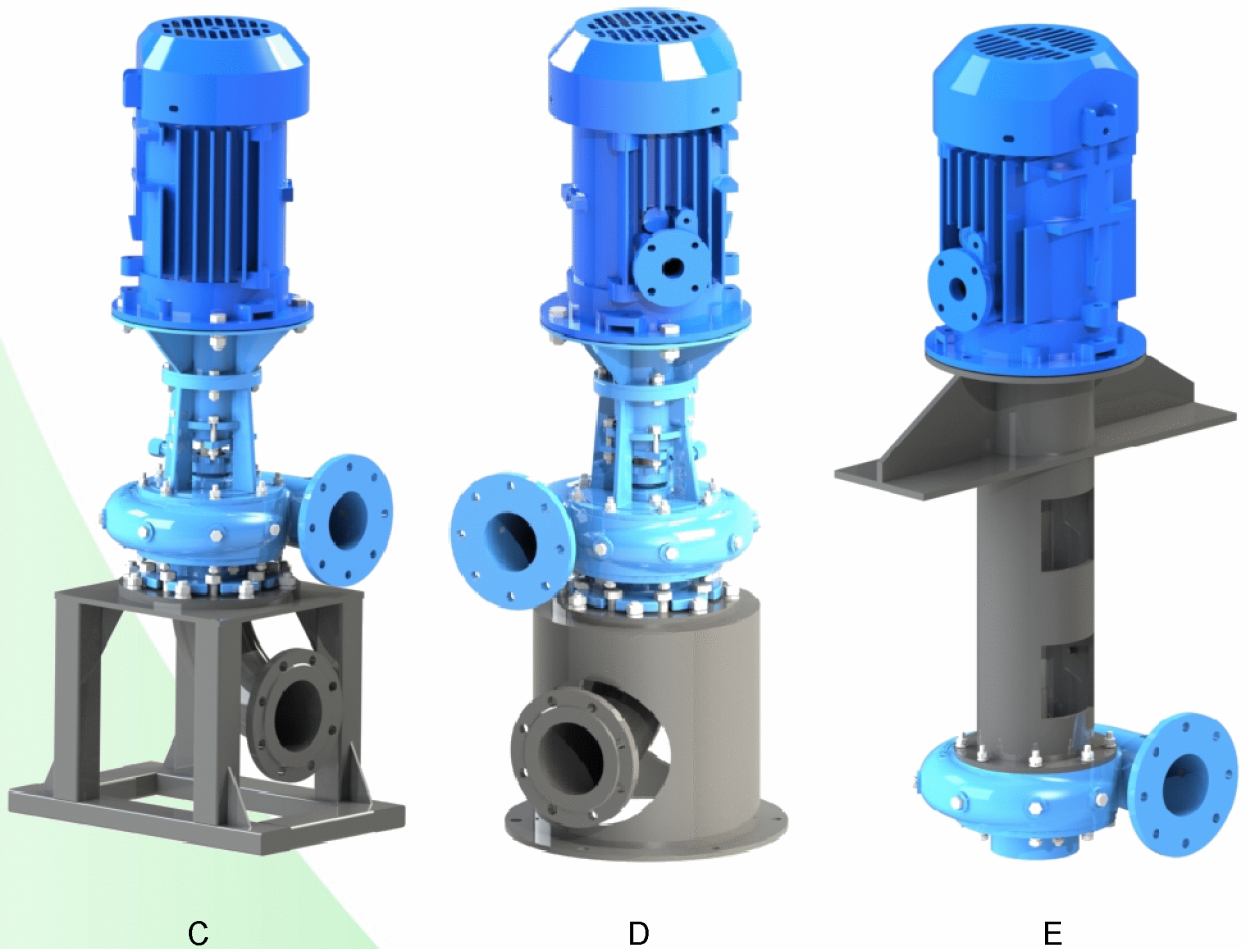


Figure 2 – Vertical layout pumping stations on the basis of NC-100R1 pump (5x4)  
(C – cube-type pedestal; D – tube-type pedestal; E – submersible layout)



Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-127R1 (6x5) centrifugal pump

Indicants	SN-180R1 / SN-180R1-01	SN-280R1 / SN-280R1-01
Max. head, wcm	20	70
Feed, m <sup>3</sup> /h - max. pressure, Atm.	180 - 1.8	280 - 5
Weight, kg	300	450
Dimensions, L x S x H*, mm	1450x500x500 / 600x500x1700	1500x500x580 / 600x550x1720
Electric motor		
Brand	5AMX160S4	5A225M2
Voltage, kW	15	55
Rotation rate, rot./min.	1500	3 000

Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-152R1 (8x6) centrifugal pump

Indicants	SN-380R1 / SN-380R1-01	SN-540R1 / SN-540R1-01
Max. head, wcm	27	84
Feed, m <sup>3</sup> /h - max. pressure, Atm.	380 - 1.5	540 - 4
Weight, kg	430	500
Dimensions, L x S x H*, mm	1550x600x600 / 700x600x1600	1600x600x680 / 700x650x1820
Electric motor		
Brand	5A200M2	5AM250S2
Voltage, kW	30	75
Rotation rate, rot./min.	1500	3 000





Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-203R1 (10x8) centrifugal pump

Indicants	SN-800R1 / SN-800R1-01
Max. head, wcm	40
Feed, m <sup>3</sup> /h - max. pressure, Atm.	800 - 2.4
Weight, kg	500
Dimensions, L x S x H*, mm	1750x800x900 / 900x900x1800
Brand	5AM250M2
Voltage, kW	90
Rotation rate, rot./min.	1500

Specifications for pumping stations with SN-R1 horizontal layout and SN-R1-01 vertical layout on the basis of NC-254R1 (12x10) centrifugal pump

Indicants	SN-1000R1 / SN-1000R1-01
Max. head, wcm	78
Feed, m <sup>3</sup> /h - max. pressure, Atm.	1000 - 2
Weight, kg	550
Dimensions, L x S x H*, mm	1800x900x1000 / 1000x1000x1800
Electric motor	
Brand	5AM280S2
Voltage, kW	110
Rotation rate, rot./min.	1500

\* L – length, S – width, H – height