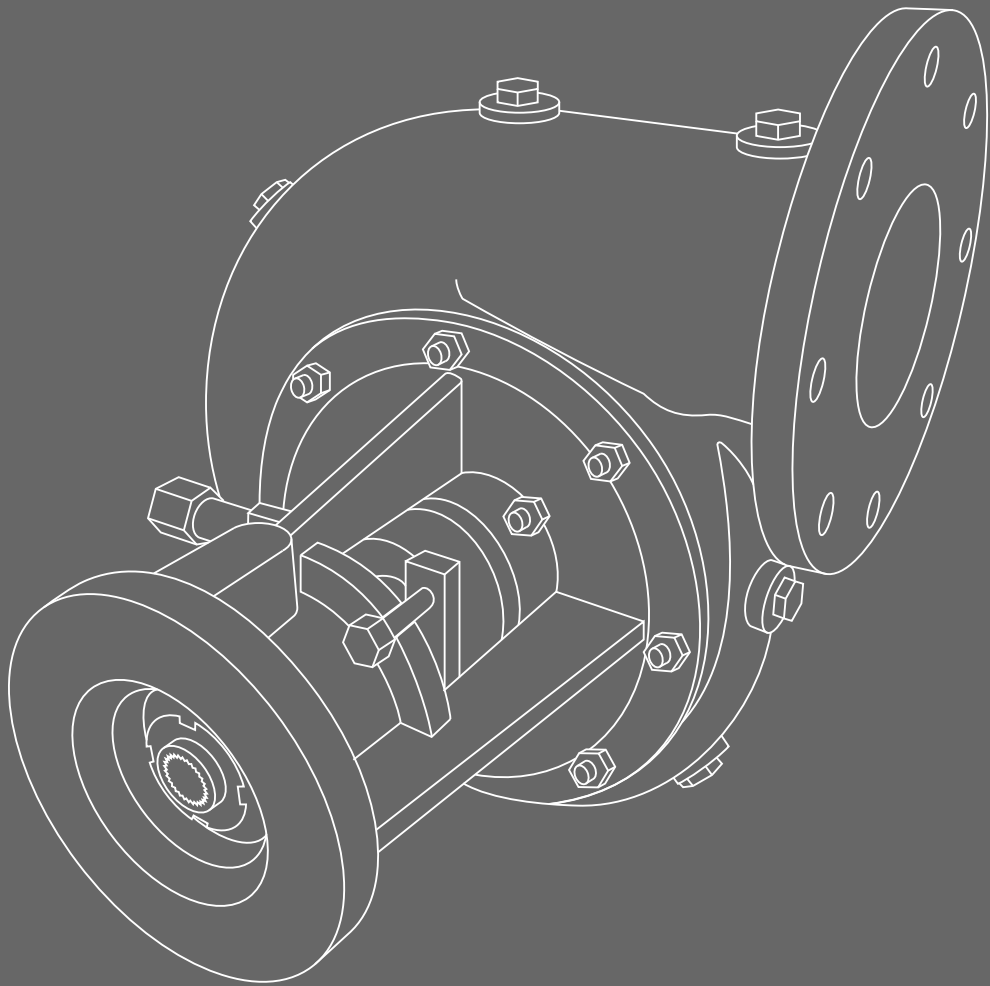




RNGI



Centrifugal pump

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**NC-300R1**

## NC-300R1 SERIES CENTRIFUGAL PUMP

Centrifugal pumps of **NC-300R1** series is intended to pump various liquids:

- abrasive hydraulic fluids (clay and gravel mortars, mixtures of water and sand, ore, etc.);
- flushing liquid used in the course of well drilling;
- household and industrial waste waters;
- spent flushing liquid (into cyclone plant to clean it of drilled solids);
- cement mortars.

### Advantages of centrifugal pump NC-300R1:

- simple maintenance;
- light weight;
- compact size;
- extreme durability;
- minimal installation space requirements;
- all parts are steel casted;
- stainless steel impeller;
- increased wearing resistance of pump components;
- horizontal or vertical layout;
- versatile, modular design that allows customers to purchase only the parts necessary for repairs;
- ability to alter rotation direction, which is possible because it is simple to install an impeller suitable for the necessary rotation and volute direction (only the impeller is to be replaced, while all other parts remain the same);
- exposed impeller.

#### Pumped fluid properties:

hydraulic fluid density, kg/m<sup>3</sup>

temperature, °C

solid particle content

solid particle maximal size, mm

up to 2500

+5 ... +55

up to 60%

at most 20

#### Technical specifications:

Pump overall dimensions (LxWxH), mm

Inlet port diameter, mm

Outlet port diameter, mm

Impeller diameter, mm

Maximal speed, rpm

Weight, kg, ±3%

Maximal head, m

Maximal flow, m<sup>3</sup>/h (L/s)

Component materials:

Impeller

Other components (castings)

Other components (except castings)

1160x1080x870

350 (14") ASME/ANSI B 16.5 Class 150

305 (12") ASME/ANSI B 16.5 Class 150

535 (21")

1800

750

90

2000 (555)

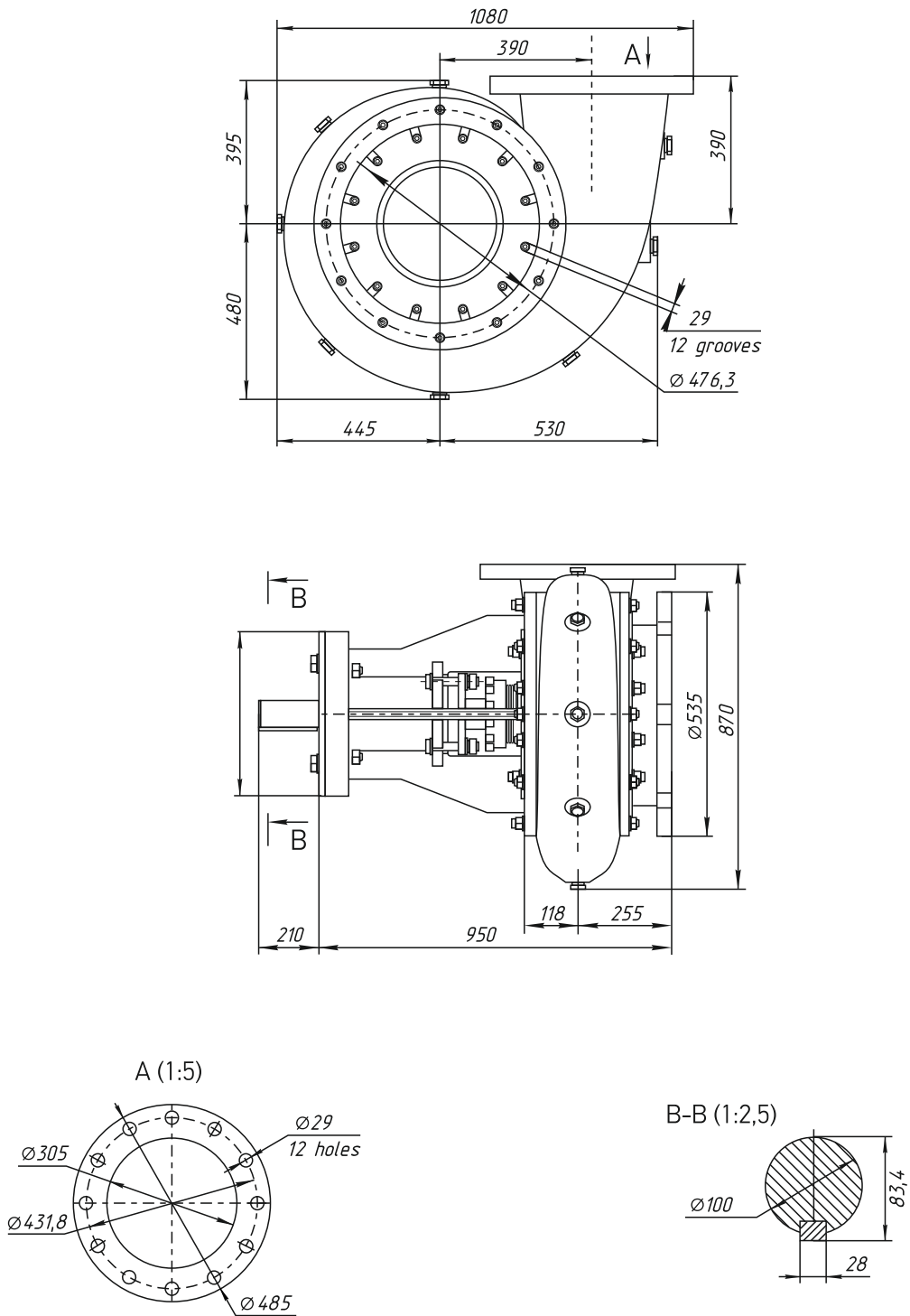
20H13L

40HL

40H

Centrifugal pump NC-300R1 (14"x12"x21"). Dimensions.

Picture 1

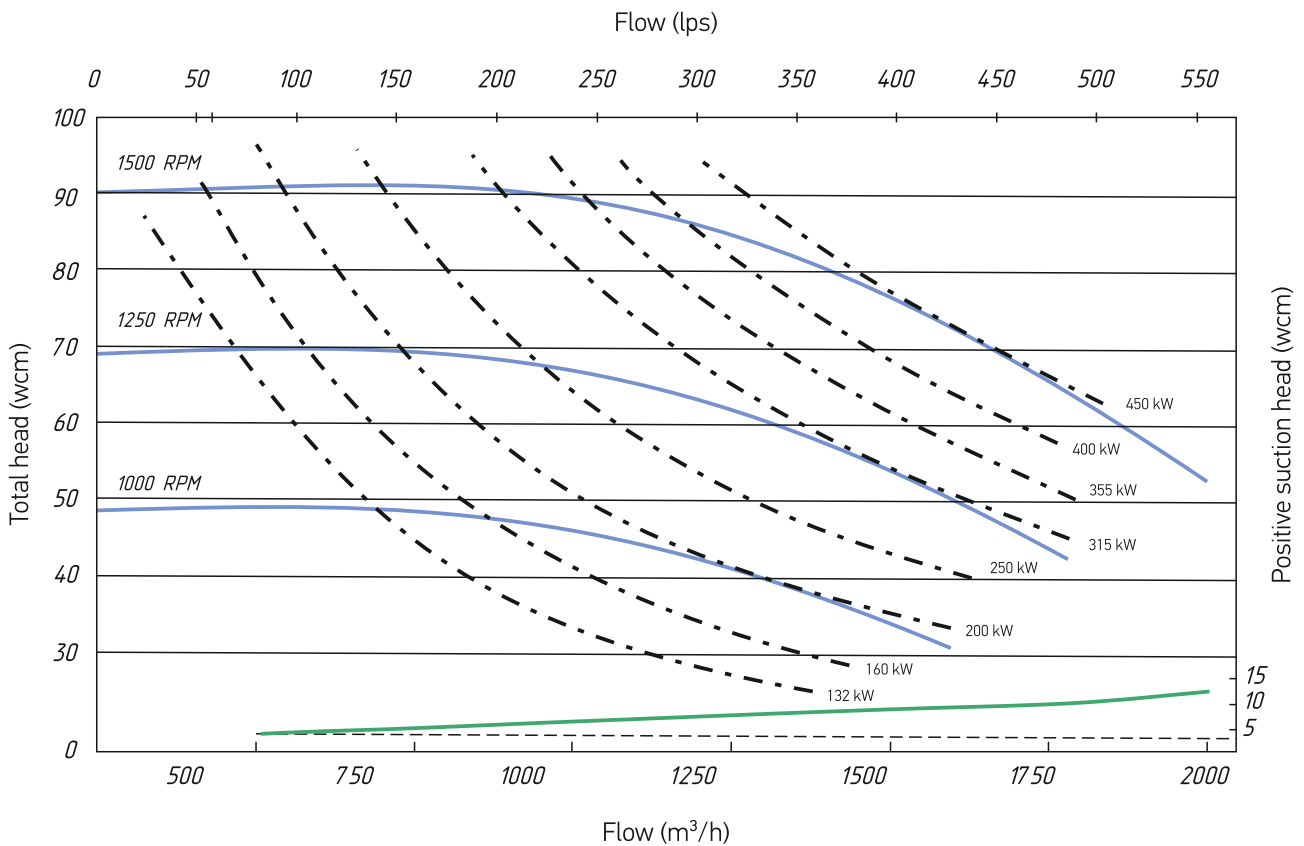


### Pump modifications

Type size	Pic.	Connection	Rotation
NC-300R1	1	Coupling	C.W.
NC-300R1-01	2	Coupling	C.C.W.

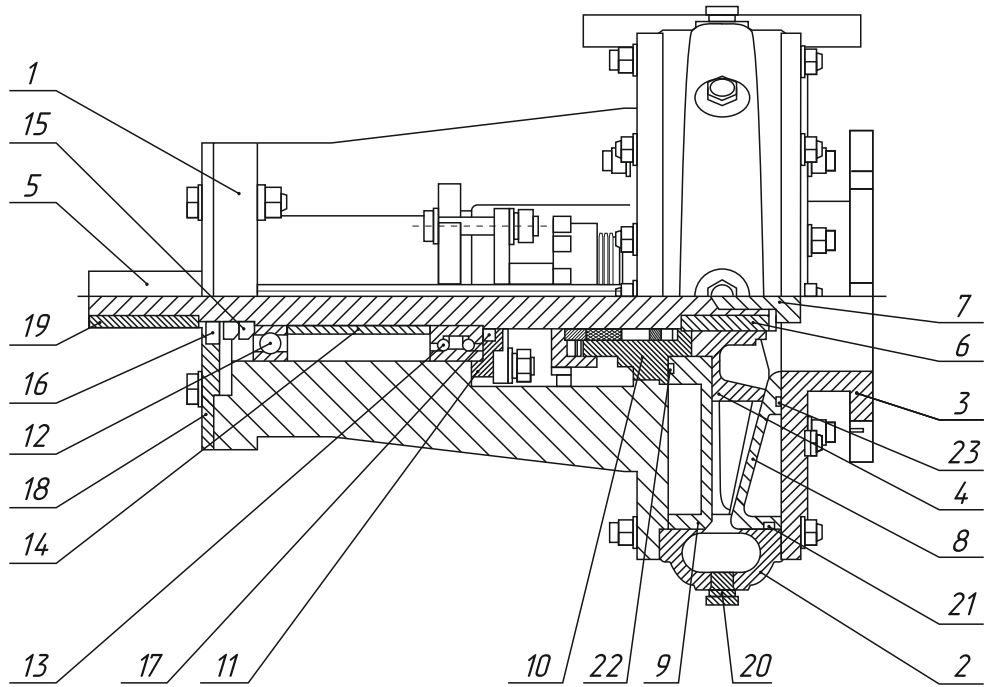
### Additional parameters

Name	The option of the performance
Shaft seal type	Gland seal
	Mechanical seal



### Pump card

Centrifugal pump NC-300R1 manufactured by Rosneftegazinstrument is a small and compact device intended for high pressure feeding of three-cylinder piston pumps involved in wells operation. It is specially designed to pump abrasive mixtures (sludge) and cement mortars. The pumps are manufactured by means of contemporary CNC equipment. Our centrifugal pumps are suitable for various industries.



Centrifugal pump NC-300R1 (14"x12"x21"). Structure.

1	body
2	volute diffuser with outlet fitting 12"
3	inlet fitting 14"
4	full opening impeller 21"
5	spindle
6	impeller keystone
7	bolt for locking the impeller to the spindle
8, 9	front and rear wear-related shrouds
10	packing assembly
11	cap
12, 13	bearings
14	spacing sleeve
15	clamping nut
16, 17	boot
18	protective washer
19	coupling key
20	slug K3/8" GOST 6111-52
21, 22, 23	o-rings GOST 9833-73



**RNGI**

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