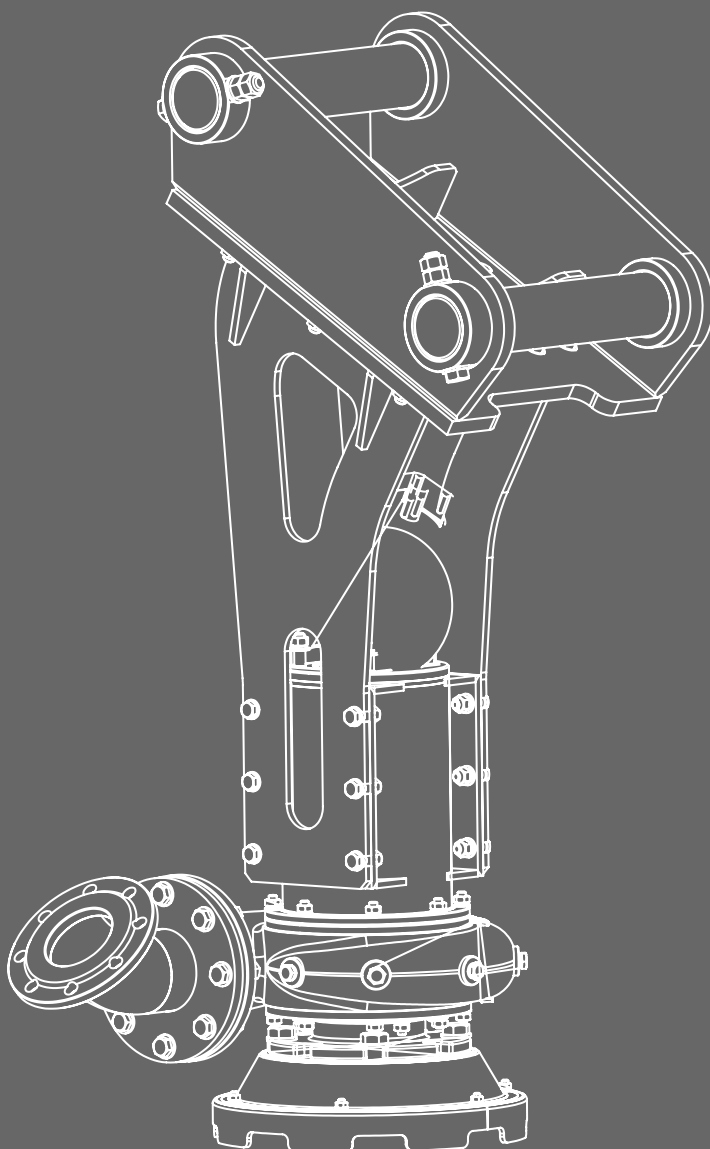




**RNGI**

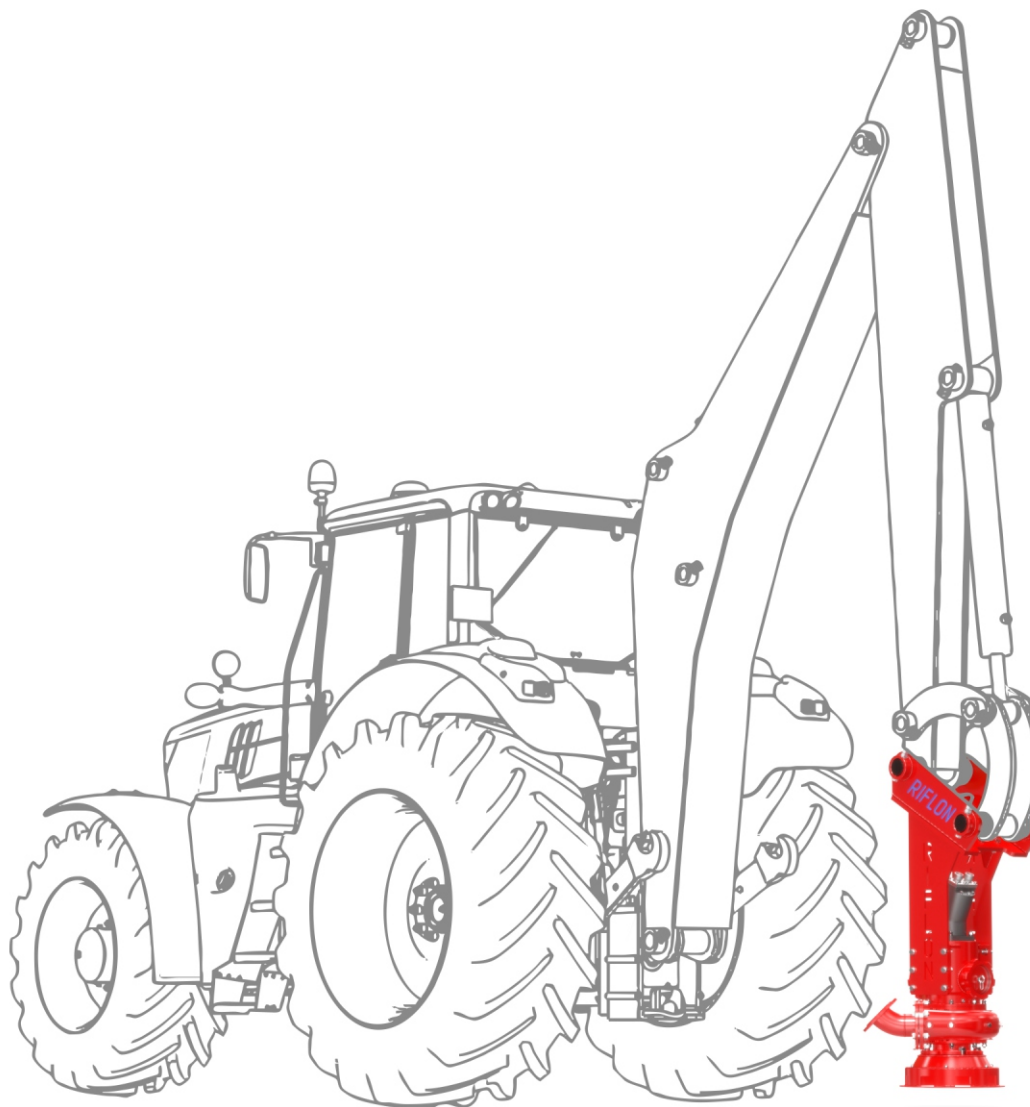


**Submersible pumping station  
for hitching on a tractor**

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**SN-180R1-02**

An example of installing a pumping station SN-180R1 on a tractor boom.



**Advantages of SN-180R1-02 series submersible pumping station for hitching on a tractor:**

- the power of the station comes from the tractor hydraulic system, thereby reducing the cost of equipment;
- simple maintenance;
- light weight;
- compact size
- extreme durability;
- minimal installation space requirements;
- all parts are steel casted;
- impeller made of stainless steel;
- increased wearing resistance of pump components;
- versatile, modular design that allows customers to purchase only the parts necessary for repairs;
- exposed impeller.

## SN-180R1-02 SERIES SUBMERSIBLE PUMPING STATION FOR HITCHING ON A TRACTOR

### Pumping station SN-180R1-02 are intended :

- to pump abrasive hydraulic fluids (clay and gravel mortars, mixtures of water and sand, ore, etc.);
- to swamp drainage, unwatering of foundation, drainage of lakes and other water bodies;
- to bottom dredging, bank alluviation, desliming and etc;
- for maintenance and repair of gas pipelines in swampy and flooded areas;
- for pumping drill cuttings (cuttings slurry, waste drilling mud), blackwater, industrial waste-water, oil contaminated soil, process effluent of oil-production enterprise and oil refinery.

### Pumped fluid properties:

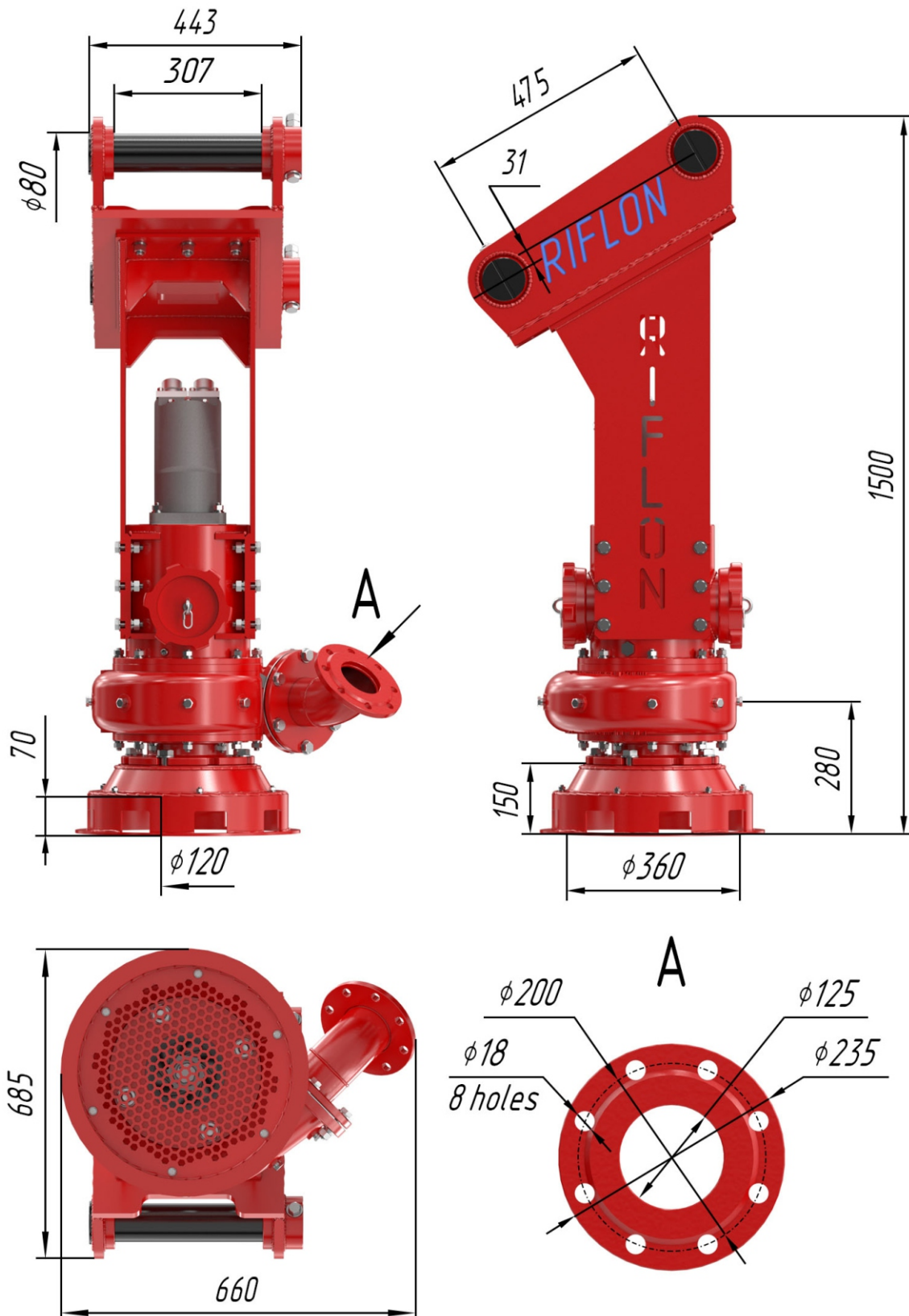
Hydraulic fluid density, kg/m <sup>3</sup>	up to 2500
Temperature, °C	+5 ... +55
Solid particle content	up to 60%
Solid particle maximal size, mm	at most 30

### Parameter name:

Nominal height of lift, Mpa	0,4
Nominal flow, m <sup>3</sup> /h	180
Rated speed, rpm	1400
Maximum rotations per minute	2400
Base pump model	NC-127R1
Hydromotor	
Brand	310.3(4).80
Motor displacement, cc/rev	80
Power, kW:	
nominal	40
full	70
Inlet pressure, Mpa:	
nominal	20
maximum	35
Flow, lpm:	
rated	120
full	220
Dn suction flange, mm	150
Dn pressure flange, mm	125
Dimensions LxWxH, max, mm	685x660x1500
Station weight, kg, ±3%	350

# Pumping station SN-180R1-02. Dimensions.

Picture 1

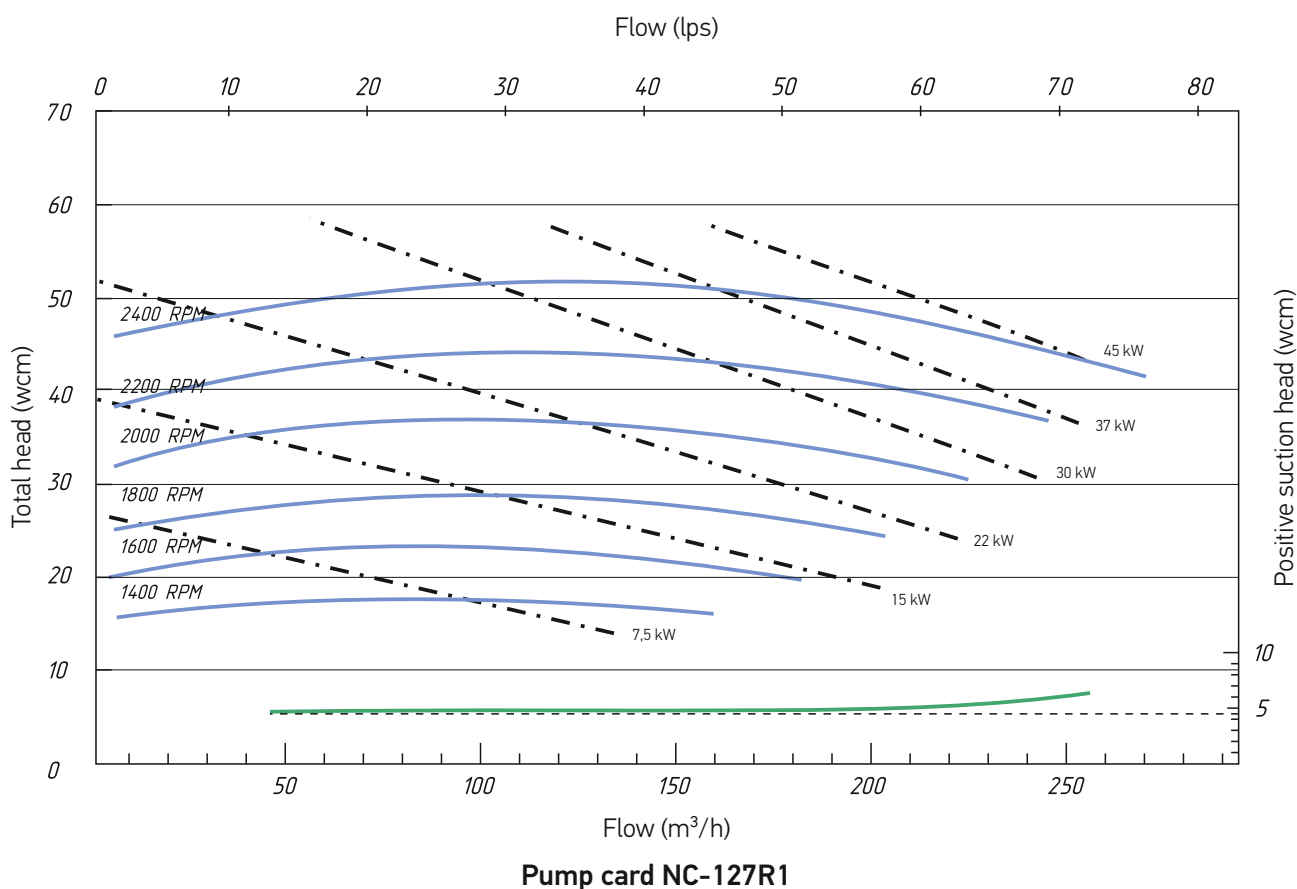


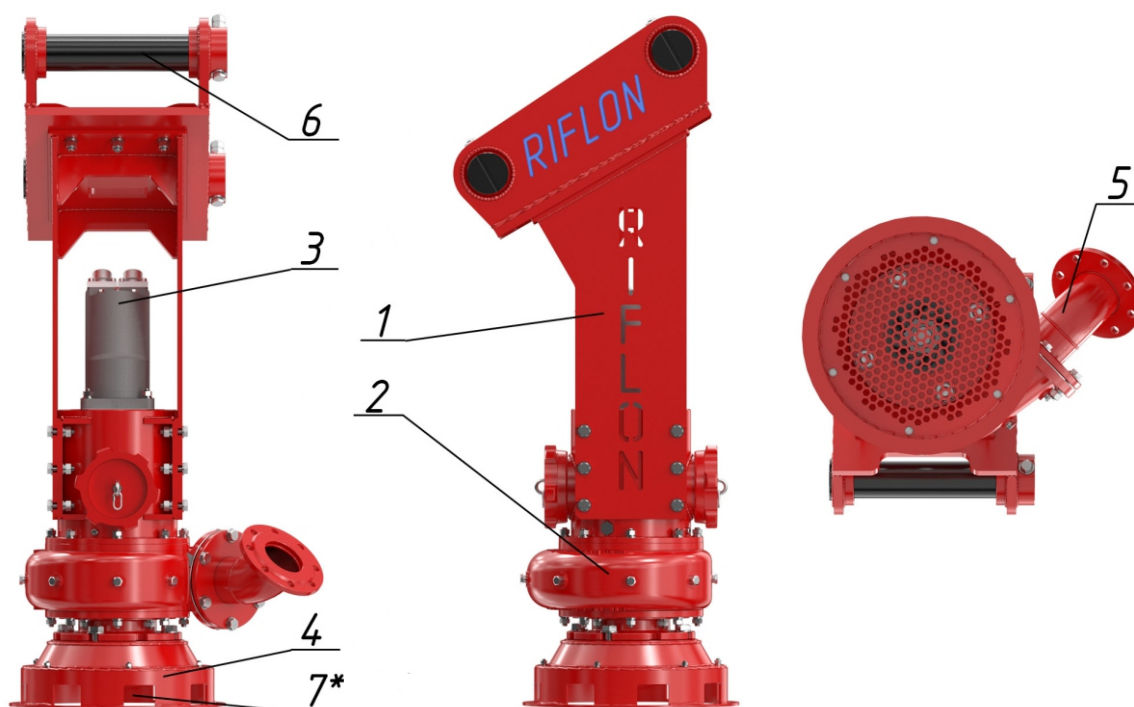
This pump station is intended for installation in the standard place on the shovel boom instead of the bucket.

Pumping station SN-180R1-02 it consists of a suspension, in the lower part of which a centrifugal pump NC-127R1 of size 6"x5"x10" is installed. The centrifugal pump is driven by a hydraulic motor powered by the standard excavator hydraulic system. A mechanical filter with a cell diameter of 30 mm is installed on the inlet fitting of the centrifugal pump. A 45 ° bend (item 5) is installed at the pump tube assembly outlet for connecting a pressure hose (sludge pipe).

The pumping station is attached to the shovel boom with load pins.

Pump body made of steel 40HL, impeller made of stainless steel 20H13. The use of these materials allows you to increase the pump life several times.





**Pumping station SN-180R1-02. Structure.**

- |    |                                       |
|----|---------------------------------------|
| 1  | Suspension                            |
| 2  | Centrifugal pump NC-127R1 (6"x5"x10") |
| 3  | Hydromotor                            |
| 4  | Mechanical filter                     |
| 5  | Bend                                  |
| 6  | Pins                                  |
| 7* | Stumper                               |

\* - Not included as standard. Delivered at the request of the customer.



**RNGI**

phone:  
+1 (512) 861-19-64

e-mail: [manager@rngi.net](mailto:manager@rngi.net)  
[www.rngi.net](http://www.rngi.net)

