

**Table 7.1 Artesian water and oil leakages drain deep semi-submersible Pumps  
A, NA (VS1)**

Pump Name	Rated Flow, m <sup>3</sup> /hr	Head. m	Speed, rpm	Motor Rated Power. kW
20A-18x1	600	28	1500	75
20A-18x2	600	56	1500	160
20A-18x3	500	85	1500	250
20A-22x3	600	68	1500	160
24A-18x1	1200	45	1500	250
20A-22x2	600	44	1500	132
20NA-22x2 (A20HA-22x2)	600	44	1500	132
A20NA-22x3 (A20HA-22x3)	600	65	1500	160
A12NA-9x4 (A12HA-9x4)	80	43	1500	15

**Artesian water and oil leakages drain deep semi-submersible Pumps  
A, NA (VS1)**

Artesian pumps and units of type A and NA are designed for pumping and pumping out of buried tanks water (A), oil, oil products (NA) and other liquids, non-aggressive to ferrous metals and rubber, with the content of mechanical impurities not exceeding 0.1% (by weight).

The pump units consist of an electric motor mounted on a support casing, a transmission part and a pumping part. The pumping part is a centrifugal vertical pump with axial liquid supply. The transmission part of pumps type A and NA is a shaft line with intermediate bearings, connecting the pump with the electric motor and mounted inside the pressure pipe. The transmission part is structurally designed in the form of sections. Shafts of transmission sections are connected by threaded coupling.

Lubrication of bearings of pumping and transmission parts is carried out by pumped liquid. Thrust bearings are lubricated with oil. Thrust bearings are mounted in the support housing.

Shaft sealing of pumps intended for water pumping is by gland packing, and of pumps intended for oil and oil products pumping - by mechanical seal.