

The Motive Neo-Pump

VSD with automatic pressure control

Specialized in the design and production of electric motors, mechanical gearboxes and inverters, Italian company Motive has recently evolved its remote controlled and patented Neo-Wifi, with the Neo-Pump, a variable frequency drive with automatic pressure control in hydraulic pumping systems.

Motive says there are seven reasons why the company created the Neo-Pump and one of the most important is that installation is much easier because it makes a 90 second auto-tuning of the pump curve to adjust its work to the system features without any calculation or manual setting. It also

enables users to control it via a wireless connection with a smartphone, its hand-held key pad or PC. Its keypad allows flexible control with remote programming up to approximately 20 m.

The pump needs fewer components, such as a shutter or valve, a

cabinet, a knife switch, a motor overload protection automatic switch or a motor control relay. This means a far simpler system, which is less subject to anomalies and offers more efficiency, because the inverter uses a power that is proportional to the water quantity that's needed. There are energy savings because it only uses exactly what's required. In fact, a lower Lt/h flow means a lower motor rpm speed and an exponential kWh power saving. In more conventional plants that operate without an inverter, maximum power is always consumed by all pumps, irrespective of the real water demand.

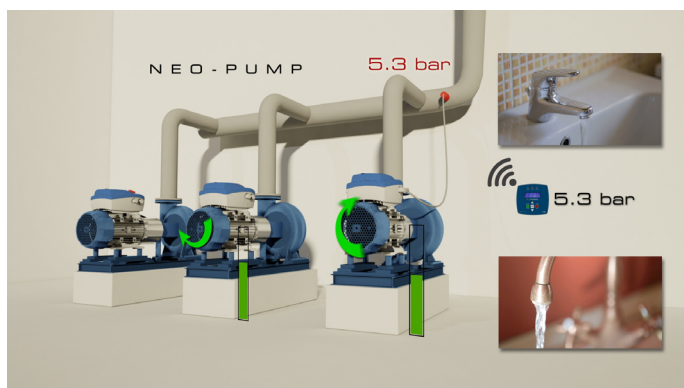
Another good reason for the creation of the Neo-Pump is that it has a soft start, unlike traditional systems which have an abrupt start and an overcurrent.

The Neo-Pump allows an alternate operation, optimized and targeted

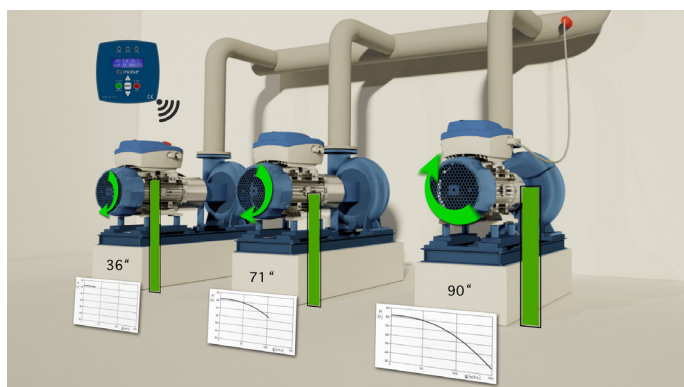
to maximize the service life of each pump. The prearranged internal algorithms can detect and eventually adjust the pressure in fully automatic modality, without needing any manual intervention.

There are two models, one with 3 kW of power and one featuring 11 kW. In master-slave connection, their power multiplies and suits any size of pumping system. It's also very easy to adjust the pressure from both the master and the slaves.

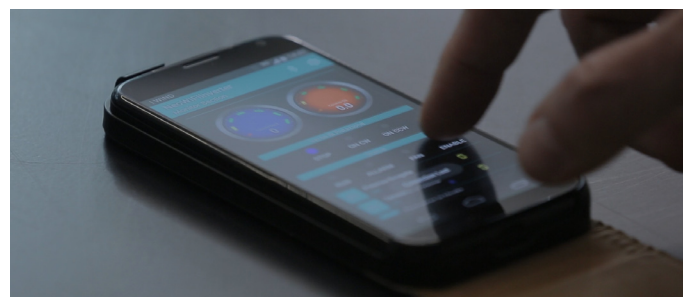
In comparison with standard pump inverters that require the input of various data concerning the pump flow rate and head, Neo-Pump carries out auto-tuning automatically. This allows detecting and registering the characteristic pump curve and adapting its operation to the system, without needing eventual additional calculations and/or inputs. ●



Neo-Pump specific inverters for automatic water pumping control.



Neo-Pump alternates work to maximize each pump's lifespan.



Neo-Pump can be controlled via its own radio keypad, a tablet, PC or Smartphone