NEO-PUMP

VFD for the automatic
control of water pumping
systems

motive
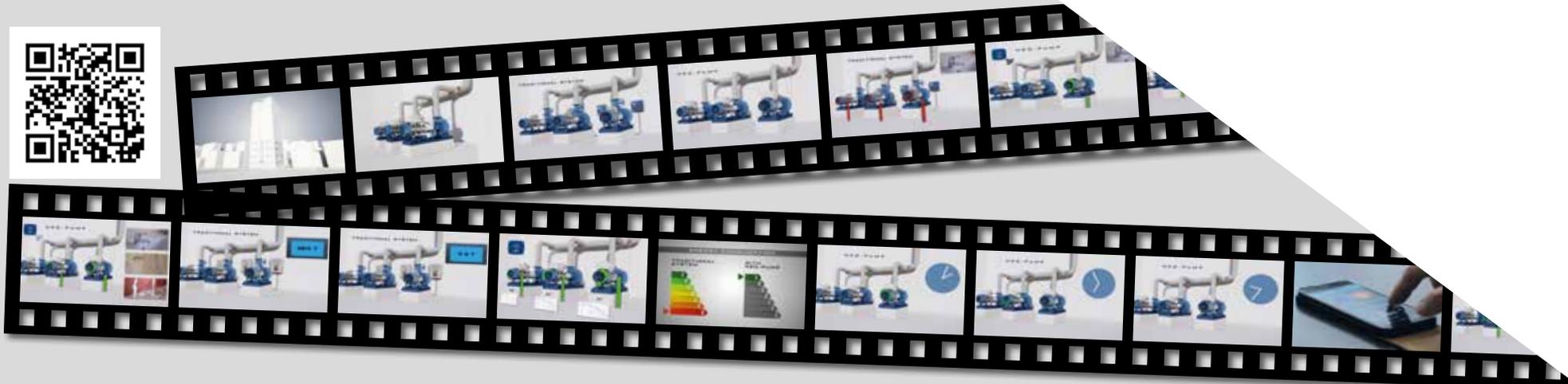
... evolution of the famous remote controlled patented "NEO-WiFi" drive, NEO-PUMP is designed for the automatic control of hydraulic systems pressure

Motive lists 7 main reasons :

to use **NEO-PUMP**

Motive 1: less equipment

With **NEO-PUMP** you don't need anymore:

- shutter/valve
- cabinet
- knife switch
- motor overload protection automatic switch
- motor control relay

TRADITIONAL SYSTEM

NEO-PUMP

>

Motive 2: energy saving

TRADITIONAL SYSTEM

With traditional systems you always consume the max power of all pumps together, no matter how much water is really needed

NEO-PUMP

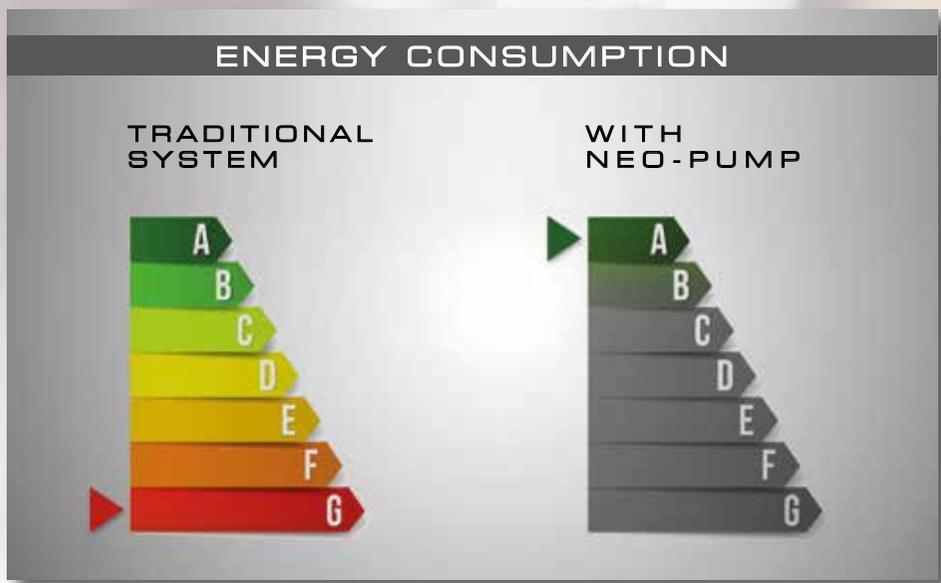With **NEO-PUMP** the used power is proportional to the water quantity that is really needed in each moment
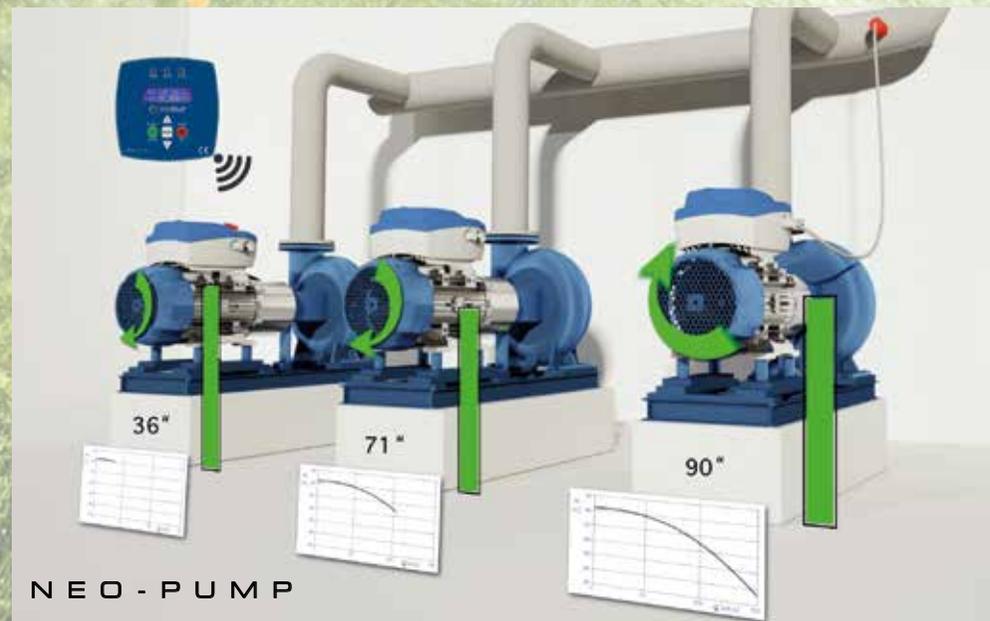
Motive 3: Soft start

Traditional systems have an abrupt start and overcurrent.

NEO-PUMP has a soft start

ENERGY CONSUMPTION

TRADITIONAL
SYSTEM

WITH
NEO-PUMP

A
B
C
D
E
F
G

N E O - P U M P

Motive 4:

To fit well with the pump traditional drives for pumps require a sophisticated data setting

TRADITIONAL SYSTEM

m3/h ?

H m ?

36"
71"
90"

NEO-PUMP

NEO-PUMP is much easier to be installed since it makes an 90 seconds auto-tuning of the pump curve to suit its work to the system features without any calculation and manual setting

Motive 5:

alternate work
to maximize
each pump
lifespan

Motive 6:

control and interface via wifi keypad,
via PC, via PLC or via smartphone

Motive 7:

NEO-PUMP adjusts the hydraulic
system pressure automatically without
any need of external intervention

Physical quantity	Symbol	UOM	NEO-PUMP-3kW	NEO-PUMP-11kW
NEO protection degree			IP65	IP65
Inverter supply voltage	V_{1n}	V	3 x 200-460	3 x 200-460
Inverter supply frequency	f_1	Hz	50-60	50-60
Inverter output frequency	f_2	Hz	max f_1 x 110%	max f_1 x 110%
Rated output current from the inverter (to the motor)	I_{1n}	A	8.0	25
Maximum Starting torque / Rated torque ratio	Cs/Cn	%	150%	150%
Maximum WiFi keypad-inverter communication distance out in the open		mt	20	20

Further characteristics	NEO-PUMP-3kW	NEO-PUMP-11kW
Programmer with built-in clock and battery (to make it possible to plan starts and stops)	NO	YES
EMC for INDUSTRIAL ENVIRONMENT (ref. EN 50081-2)	YES	YES Class A - Cat C2
EMC for DOMESTIC, AND LIGHT INDUSTRIAL ENVIRONMENT (ref. EN 50081-1, para 5)	YES Class A - Cat C1	optional
3PH power knife switch	optional	optional
Communication Protocol	MODBUS	MODBUS

Download the technical manual from
http://www.motive.it/manuali/manuale-NEO-Pump-eng.pdf

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TÜV SÜD
ISO 9001