

Reference List: Water Pumps

JANUARY, 2014

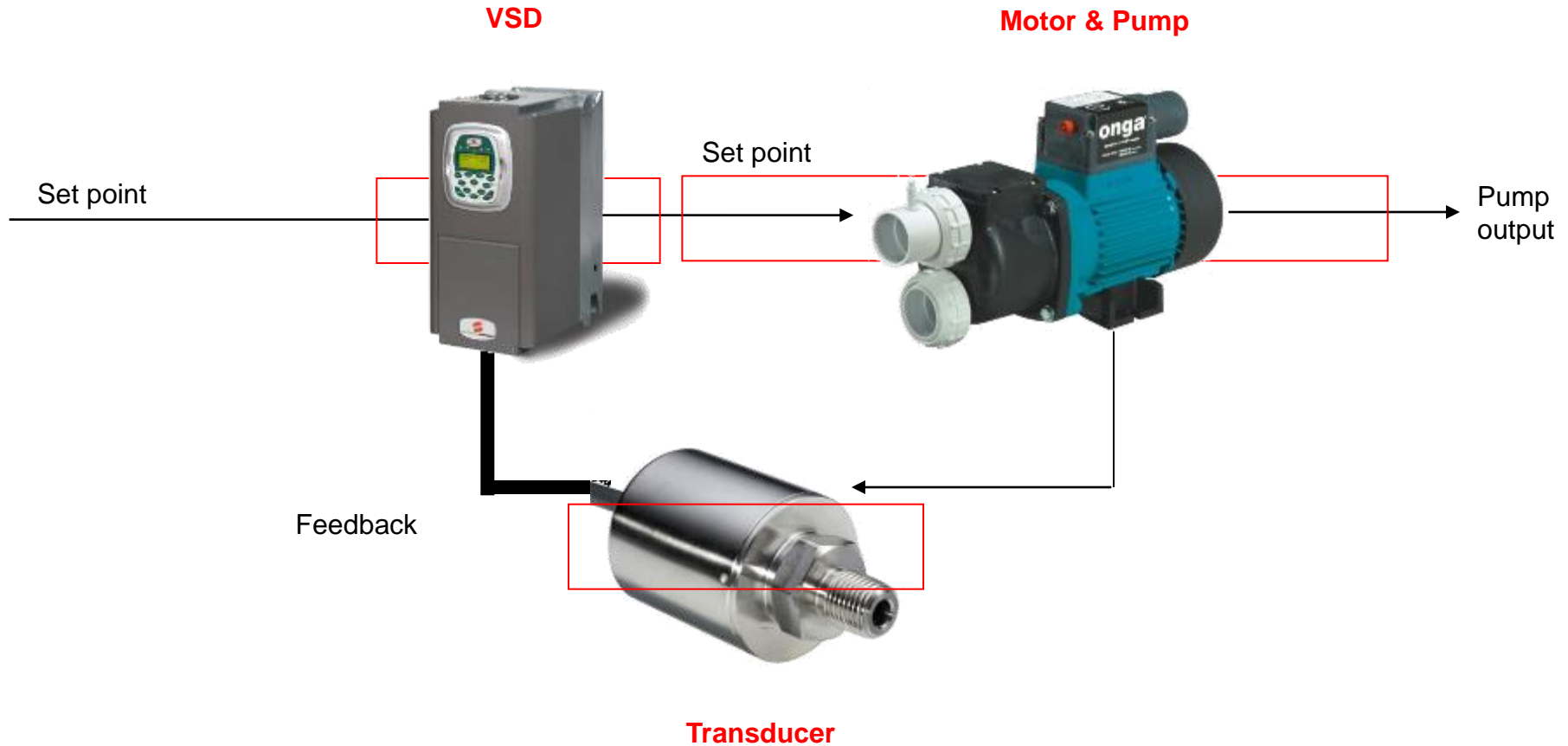
STRICTLY CONFIDENTIAL



Waste Water Business

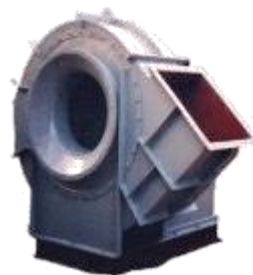
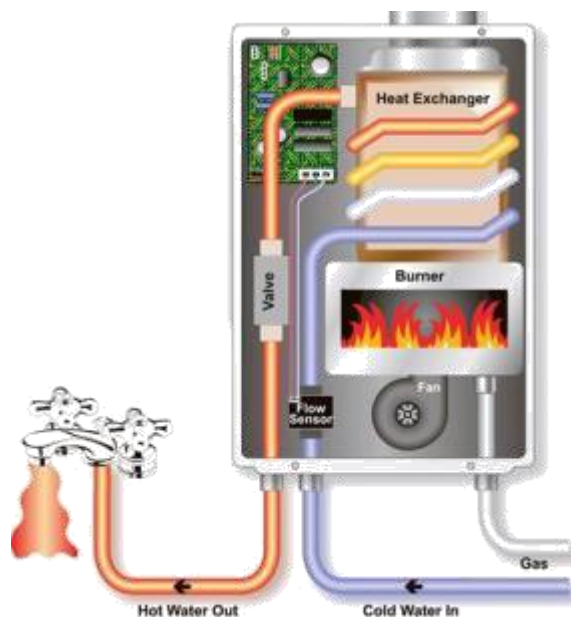


Water Treatment: Multipump control



Water Treatment: Multipump application

Multipump software is a free software which can be used in any kind of application which uses a pump for keeping the flux constant (L/s), the level (mt.), the pressure (kPa), vacuum (Hg) or temperature ($^{\circ}$ C).



Water Treatment: Products



Biomass Plant | Udine – Italy



Industrial Sector: Water

Application: Pumps

Connection date: 2012

Customer: Solarfotonica srl

Products : 20 Sinus Penta 4T- 800 kW

Key Notes:

Solarfotonica Srl manufactures solar simulators for testing individual photovoltaic cells and photovoltaic. Solarfotonica engineering has recently specialized in the production of lighting systems in public and private LEDs (lamps and pacemakers) designed for a long autonomy for Biomass Plant



Repumping Station | Torino – Italy



Industrial Sector: Water
Application: Pumps
Connection date: 2011
Customer: Iren Energia

Products :

- N. 8 - 800 kW Sinus Penta

The Pumping Station includes two series-connected units, one for delivery network and one for return network of district heating

- N. 3 - 90 kW + N. 1 - 35 kW Sinus Penta

Used for the district heating pressurization station

- N. 8 - 800 kW Sinus Penta

For district heating in the Repumping station



POLICLINICO and BAGGIOVARA Hospital | Modena – Italy



Industrial Sector: Water
Application: Pumps
Connection date: 2011
Customer: CPL CONCORDIA SC.
Products : Sinus Penta IP54



Key Notes:

It 'a multi-utility cooperative group founded in 1899, with 1500 employees and 80 companies. The activities are: technological networks (gas, water, district heating), distribution and sale of gas installations and measures of decompression gas odorant, global services and facility management, public lighting, photovoltaics and biogas, cogeneration and trigeneration systems, remote control systems and services ICT. CPL CONCORDIA work abroad in 10 countries in Europe, Africa, South America and Asia.



Public Utility for Water Supply | Moscow – Russia



Industrial Sector: Water

Application: Manual/Automatic control of the water flow in different pipe sites

Connection date: 2011

Customer: MosVodoKanal



Products :

- 1 Sinus Penta 0366 4T
- 4 Sinus Penta 0312 4T
- 3 Sinus Penta 0150 4T
- 1 Sinus Penta 0017 4T
- 8 Sinus M 0014 4T
- 10 Sinus M 0002 2S/T
- 6 ASA0238-5-24-4
- 3 ASAC-1-022-4-1

Key Notes:

- With the installation of Santerno inverters and soft starters the existing pumping plant is now automated in order to optimize the water consumption.
- Manual/automatic control of the water flow
- Unit installed into a cabinet IP54 , because of further requirement from the end user



Water Supply and Sanitation | Mexico City – Mexico



Industrial Sector: Water

Application: Pumps

Connection date: 2009

Customer: Water treatment Company Mexico City

Products : Soft Starter ASAMV



Water Treatment | Ferrara – Italy



Industrial Sector:	Water
Application:	Pumps
Connection date:	2009
Customer:	C.A.D.F. SpA
Products :	Sinus Penta Box and Cabinet

Key Notes:

The purpose of C.A.D.F. consist of the associated management of the entire cycle of collection, treatment, purification and distribution of water for multiple uses, especially for human uses.

C.A.D.F. operates on an area of 1312.70 km ², with a resident population of 104,699 units', which in summer becomes 200,000, for a number of 68,229 users, providing drinking water for every year 10,560,000 m³.
Drinking water treatment plant - 2



Water Treatment | Bari – Italy



Industrial Sector: Water

Application: Pumps

Connection date: 2009

Customer: Acquedotto Pugliese SpA

Products : Sinus Penta Cabinet

Key Notes:

In size and capacity, the Aqueduct Pugliese is one of the most impressive and exemplary works of hydraulic engineering systems in the world.

A widespread system of systems for the isolation of the water, pipelines and interconnections located in an area wide and high population density.



Agroindustry | Andahuasi – Peru



Industrial Sector: Water

Application: Irrigation Pumps

Connection date: 2009

Customer: Esitel S.A.C.

Products : Sinus K



Mining Industry | China



Industrial Sector: Water
Application: Pumps
Connection date: 2009
Customer: Longyan Zijin Mining Industry
Products: Sinus Penta Drive + RGN

Key Notes:

Flow control and transport on demand



Water Treatment | Granarolo Faentino (BO) – Italy



Industrial Sector: Water

Application: Pumps

Connection date: 2009

Customer: Hera

Products: Sinus Penta IP54 for pumps

Key Notes:

Hera provides energy services (gas, electricity), water (water supply, sewerage and treatment plants) and environmental (waste collection and disposal) for a basin of over 2.9 million people.



Energy Services | Imola (BO) – Italy



Industrial Sector:	Water
Application:	Pumps
Connection date:	2009
Customer:	Hera
Products:	Sinus Penta IP54 for hot water pumps

Key Notes:

Hera provides energy services (gas, electricity), water (water supply, sewerage and treatment plants) and environmental (waste collection and disposal) for a basin of over 2.9 million people.



Waste-water Pump Station | Lubertsy – Russia



Industrial Sector: Multi pump

Application: Water

Connection date: 2009

Customer: Ermint

Products : Sinus Penta

Key Notes:

The controlled pump keeps the constant water level in the tank using the pressure sensor mounted in the tank bottom.

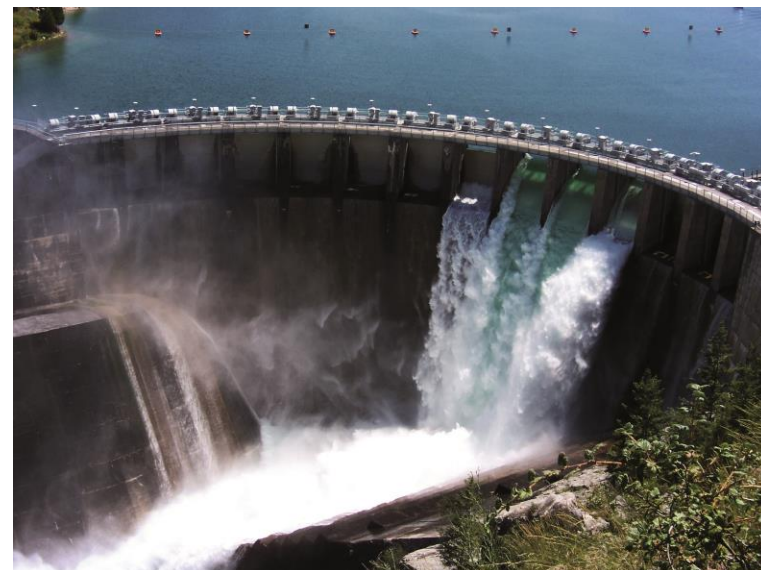
As a result often starts/stops were eliminated, and the constant water volume in the tank improved the waste water treatment biotechnology.



Water Treatment | Bari – Italy



Industrial Sector: Multi pump
Application: Water
Connection date: 2009
Customer: Acquedotto Pugliese SpA



Irrigation | Ponte di Piave (TV) – Italy



Industrial Sector: Water

Application: Pumps – OEM

Connection date: 2007

Customer: Euromacchine

Products: Soft-Start serie ASA
(tropicalized for H₂O)
Sinus Penta
tropicalized for H₂O

Key Notes:

- Euromacchine produce high performance, reliable and efficient machines for all applications in the fields of energy and irrigation
- Multifunctional LAMPO - generator that powers the Sinus Penta on the Caprari pump

euromacchine



Water Treatment | Melbourne – Australia



Industrial Sector: Water
Application: Pumps
Commissioned: 2006
Customer: NHP



Water Treatment | Kurjanovo – Russia



Industrial Sector: Water

Application: Pumps

Customer: Signal-Electro

Products: Sinus Penta
ASA soft starters

Key Notes:

The equipment was delivered under the tender which was won by the ZAO Santerno's partner company Electropromcomplect. Installation and commissioning was made by the engineering company Signal-Electro with the technical support from ZAO Santerno



Agroindustry | Andahuasi – Peru



Industrial Sector: Water
Application: Pumps
Products : Sinus Penta



Other References



Azienda	Collocazione	Anno	Potenza Inverter
A.M.I. Imola Water Company (Hera Group)	Italia (Bologna)	2007	up to 132 kW
Acquedotto Pugliese SpA	Italia (Bari)	2006	Up to 132 kW
Acquedotto Pugliese SpA	Italia (Bari)	2007	up to 630 kW
Ascoli Piceno Water Company	Italia (Ascoli Piceno)	2006	up to 250 kW
Boldrocchi S.r.l	Italia (Milano)	2005	up to 200 kW
Busi Impianti SpA.	Italia (Bologna)	2005	up to 250 kW
C.A.D.F.E. SpA (Consorzio Acque Delta Ferrarese)	Italia (Ferrara)	2000-2008	up to 30 kW
C.A.D.F.E. SpA (Consorzio Acque Delta Ferrarese)	Italia (Ferrara)	2000-2008	up to 400 kW
C.A.D.F.E. SpA (Consorzio Acque Delta Ferrarese)	Italia (Ferrara)	2007	up to 30 kW
C.E.P.P.I. Srl	Italia (Cosenza)	2006	up to 315 kW
Calabria Region Water Company	Italia	2006	up to 450 kW
Consorzio Bonifica del Navarolo	Italia (Mantova)	2008	up to 315 kW
Consorzio di Bonifica Velia	Italia (Salerno)	2008	up to 250 kW

Other References



Elettromeccanica Sarvito	Italia (Bari)	2007	up to 315 kW
Frei & Runggaldier S.r.l	Italia (Bolzano)	2006	up to 75 kW
Hera Ravenna S.r.l.	Italia (Ravenna)	2007	up to 160 kW
Hera Ravenna S.r.l.	Italia (Ravenna)	2007	up to 160 kW
Hera Ravenna S.r.l.	Italia (Ravenna)	2007	up to 250 kW
Hera SpA	Italia (Rimini)	2007	up to 55 kW
Hydrowatt SpA.	Italia (Ascoli Piceno)	2008	up to 132 kW
ICET Industrie	Italia (Siena)	2006	up to 110 kW
Khimki Water Company	Russia	2009	up to 160 kW
Loris Bellini SpA	Italia (Milano)	2008	up to 315 kW
NHP	New Zeland	2007	up to 500 kW
NHP	Townsville	2008	up to 75 kW
NHP	Adelaide	2007	up 150 kW
NHP	Bendigo	2007	up to 500 kW

Other References



Romagna Acque SpA	Italia (Forlì)	2007	up to 200 kW
S.A.T. Sassuolo Water Company	Italia (Modena)	2008	up to 110 kW
SABESP Sao Paulo Water Treatment	Brasile	2007	up to 132 kW
SO.NA DE (Società Nazionale Distribution de Eaux – Tunisia Water Company)	Tunisia	2009	up to 160 kW
TVER – Volga River Pump Station	Russia	2008	up to 110 kW
Zelenograd Water Company	Russia	2007	up to 200 kW
Gesco (presso Iride Energia)	Italia	2007	up to 900 kW
ASM Brescia	Italia	2006	up to 355 kW
Garda 1	Italia	2005	Up to 200 kW
Snam Progetti (presso TEA Mantova)	Italia	2006	up to 315 kW
Termokimik Corp (Presso SEF Ferrara)	Italia	2006	up to 250 kW
Abbanoa	Italia	2007	up to 250 kW

santerno.com

JANUARY, 2014

STRICTLY CONFIDENTIAL

