

Duplomatic Oleodinamica in the **ENERGY** sector



Know-how for complete and performing solutions

Duplomatic Oleodinamica has acquired an extensive and specific experience in the energy sector thanks to the development and implementation, in the last thirty years, of a large number of projects in close cooperation with specialized sector technicians.

The flexibility and expertise of the technical and production department allow to develop and "customize" cutting edge products and solutions suitable to meet the market demands. Being a producer of components and plants as well, Duplomatic Oleodinamica can face any kind of market and application linked to the energy production.

The aim of Duplomatic Oleodinamica is to supply complete systems suitable to the different kinds of applications.

SERVO-ACTUATORS

with simple and double effect
and integrated circuits
controlled by
servo or proportional valves

MANIFOLD

for the management
of the turbine trip, with 2oo3
logic controlled solenoid valves
in compliance with the SIL standards

HYDRAULIC POWER UNITS (HPU)

for power
and lubrication

SOLUTIONS AND SYSTEMS FOR EVERY APPLICATION IN THE ENERGY SECTOR

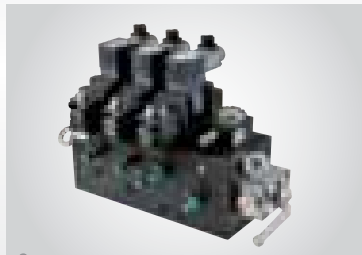
TURBOGAS



Controlling and on-off actuators for the control of globe valves.
Also available in explosion-proof version in compliance with ATEX standards



Monitored valve with special connectors for fast de-energizing



"Trip block" 2oo3 system
Also available in explosion-proof version in compliance with ATEX standards

HYDROELECTRIC

Hydraulic system for hydroelectric turbines



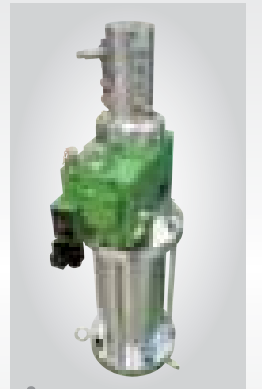
STEAM TURBINES



Systems for fire resistant fluid type "fryquel EHC" operation

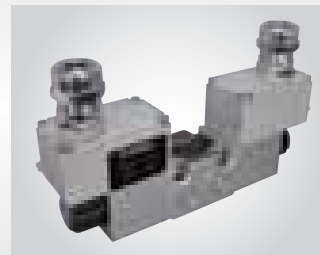


System for the control of steam valves with double rod cylinders in compliance with ISO standards



Servo-actuator for the control of steam valves in customized version

OIL & GAS



Explosion-proof proportional and on-off valves for pressure and direction control

Power-pack for the actuation of gas pipeline ball valves

WIND

Actuator for pitch control



Power-pack for the control of on-off actuators in wind turbines

GEO THERMICS AND BIOMASS

Power unit for the control of globe valves



Globe valves with servo-actuators

THERMOELECTRIC AND COGENERATION



Power unit with trip block system for thermoelectric plants with the use of biomass



Detail of the trip block



Servosystem for thermoelectric plants with on-board closed loop control

SOLAR



Actuators for motion control of parabolic trough solar collector

Sun-tracking collector system



Gas and steam turbines: safety and precision

Duplomatic has a long-lasting experience in designing simple or servo-controlled actuators for the energy sector, which, as anybody knows, is featured by specific requirements: reliability, particular designs for the integration with gas and steam control valves, precision and safety.

In the turbogas sector the company has developed controlling and stop servo-actuators with integrated "fail safe" system, which is made using spring washers suitable to guarantee a high reliability level in case of "turbine trip".



Controlling servo-cylinders for turbogas applications



Servo-proportional valves for servo-actuators control

In the controlling actuators the control function is performed by servo-valves which ensure adjusting times and positioning precision in line with the most demanding requirements.

The main feature of the on-off actuators is the intervention reliability assured by the presence of poppet solenoid valves, which do not react to fluid impurities and to long energized periods.

Manifolds for the management of the "turbine trip" are available with 2oo3 logic and in compliance with the SIL standards.

Water and other clean and renewable energy sources

Diplomatic Oleodinamica is traditionally committed in the sector of renewable energy sources. On the basis of the several geothermal applications developed from the '90s, the company has recently installed different drive systems for the production of wind and solar thermal energy.

Apart from its support to these new technologies, Diplomatic has been active for decades in the hydroelectric sector to repair and install new waterworks.

Cooperating with the main turbine manufactures, Pelton, Kaplan and Francis, Diplomatic produces hydraulic power units with strong power packs and PED certified energy storage systems.

References

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- Foster Wheeler Italia
- Franco Tosi
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- Hydroenergy
- Parcol
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