

HYDRAULIC POWER UNITS AND CONTROL SYSTEMS





INTRODUCTION



Since 1980 Oleodinamica REVA designs and manufactures hydraulic power units and hydraulic special bespoke solutions, especially to deal with customers' special requests and to satisfy design specifications, such as ambient temperature, installation place, specific certifications, regulations of sites installation, offering optimal solutions in terms of functionality, weight and size.

ENGINEERING

- Optimized design in order to reduce the use of tubes and fittings, favoring realizations with manifolds in order to reduce the overall dimensions and the leakage possibility
- Careful design to ergonomic with easy access of all components for maintenance
- Choice of components and better materials
- Adequate security measures to ensure people protection

FLUID TYPE

- MINERAL OIL
- PHOSPHATE ESTER
- WATER BASED FLUID
- (others)

- **Pressure:** UP TO 355 BARG
- **Temperatures:** - 60°C / +85°C
- **Electrical power:** 50 KW
- **Flow rates:** 50cc/min - up to 1000 lt/min
- **Materials:** AISI 316-316L, Carbon steel, aluminum and special alloys
- **Directives / Regulations most significant:**
2014/34/EU ATEX - 2014/68/EU PED - IEC 60079 IECEX
IEC 61508 SIL - 2006/42/EC MACHINERY DIRECTIVE

Painting to customer specific and surface treatments depends on steel construction type and on the installation environment.

Particular care is taken for cleaning and flushing tanks and equipment during assembling and prior to delivery, in order to provide the NAS required level

Documentation, available in different languages.

- 2D and 3D drawings
- Test certificates
- Datasheets and certificates of components assembled
- Material certificates
- Operating and maintenance instructions, assembly instructions
- EC declarations of conformity, declarations of incorporation

Accessories

- Identification labels of components and functional plates in stainless steel or plastic laminate
- Identified and certified lifting points

HYDRAULIC POWER UNITS

Pressure and flow rate in different operating conditions
Control and setting ad hoc for diagrams and design specifications

Oleodinamica REVA manufactures appropriate HPUs to be installed in hazardous areas "zone 1 & 2" classified. HPUs are designed and built according to the customer needs.

The explosion proof versions are available in full compliance with European directive 2014/34/EU ATEX or with other international standard as IEC or NEC.

The most used protection methods are ex-d / e / m / i and Oleodinamica REVA can supply also mixed system i.e. explosion proof + intrinsically safe.

- Tanks and stainless steel piping for marine or aggressive environments
- Low noise solutions
- Watertight constructions or open due to environmental conditions up to -60°C
- Tanks with variable capacity depending on the customer needs
- Pump units with variable power
- Possibility of providing structural calculations of the containment carpentry
- Executions all in stainless steel

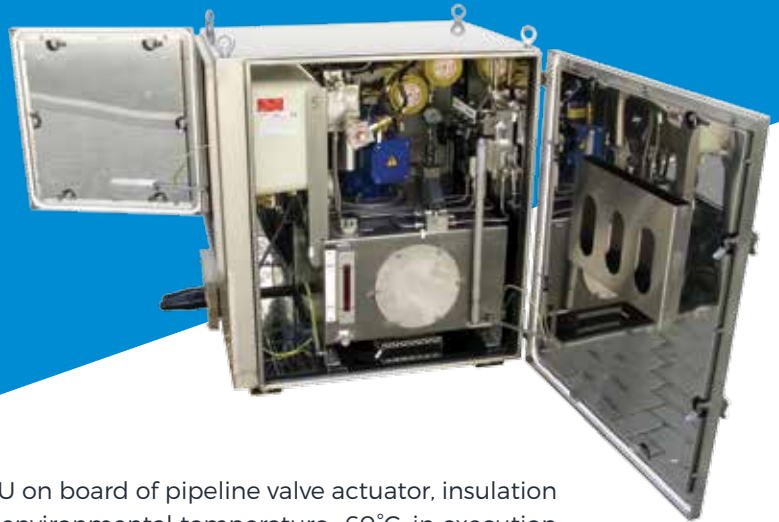


OIL & GAS

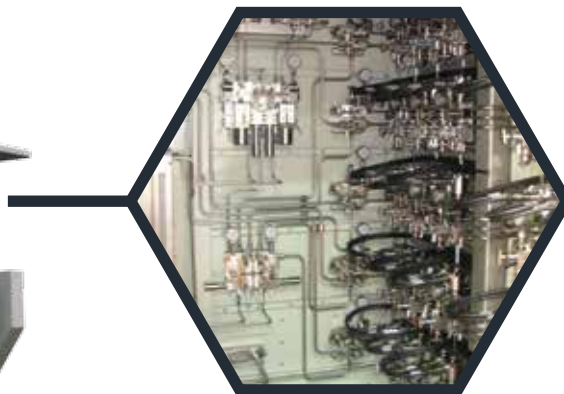
HPUs for actuators control and actuation valves installed on onshore terminals, on offshore platforms, in pumping stations and pipeline.



HPU in execution all in stainless steel 316, ATEX (Project TEMPA ROSSA - Total, Italy)



HPU on board of pipeline valve actuator, insulation for environmental temperature -60°C, in execution all in stainless steel 316, EAC CU-TR (Project BOVANENKOVO - UTHA P/L - Gazprom - Russia)



CONTAINER HPU and WELLHEAD CONTROL PANEL, in execution all in stainless steel 316 (painting cycle according to ISO 12944 C5M), ATEX (Project BARZAN - Rasgas - Qatar)



ENERGY PRODUCTION

HPUs for the actuator drive and control valves installed on power plants from renewable sources
 HPU GEOTHERMAL, installed to altitude 4500 mt (Project CERRO PABELLON - Enel - Chile)



PETROLCHEMICAL



HPUs and electro-on-off systems and proportional in EX version for the process valves actuators' control and for the movement of machinery intended to exhaust products.
 HPU for emergency actuation valves
 (Project LAFFAN REFINERY - Qatargas - Qatar)



ROPEWAYS

HPUs, assembled on cableway installations for people transport, allow the functioning of the breaking systems and of the main cable tension.
 HPU for tensioning systems (Project INNSBRUCKER NORDKETTENBAHNEN - INB GmbH - Austria)



PORT INDUSTRY

HPUs for port cranes for ropes' tension, anti-hunting (anti-sway), for the spreader positioning (trim-list-skew) and for the protection of accidental collision (anti-snag).



HPU to drive piston pump at H₂O high pressure for cutting pipes of large dimension



INDUSTRIAL

HPUs for different services and uses



HPU valves test bench

CONTROL PANELS AND CABINETS

Oleodinamica REVA can realize hydraulic systems in open or watertight executions (cabinets), that contain the electro-hydraulic components of regulation and control of the main hydraulic functions, typically mounted on board actuator or adjacent.

- Executions all in stainless steel
- Custom designs depending on the application
- Cabinet available up to IP67
- Transparent door
- Front side component assembly available
- Direct assembly (flanged) to the controlled device
- Single component maintainability (no needs to disassembly the others)



CONTROL CABINET
(Project VEGA PLEYADE - Total - Argentina)



CONTROL CABINET
(Project BP QUAD 204 - BP - United Kingdom)



CONTROL CABINET IP66
(Project UMM LULU - Adma Opco - Uae)



CONTROL PANEL FOR OIL PLANT

HYDRAULIC BLOCKS

Oleodinamica Reva designs and produces control and regulating blocks with solenoid valves, proportional valves, servo valves, logic elements and cartridge valves, thus guarantying high quality solutions that allow the realization of extremely complex circuits with a reduced layout.

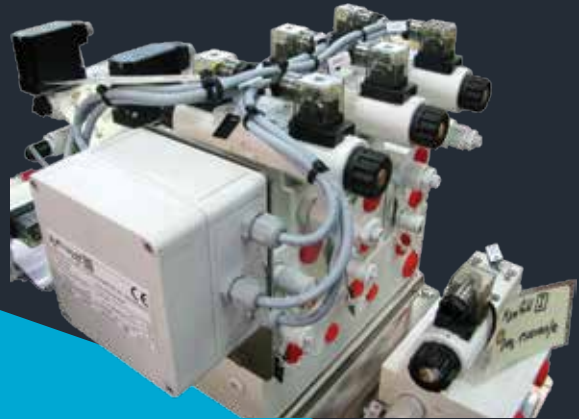
MATERIALS

- AVP
- CAST IRON
- ALLUMINUM
- STAINLESS STEEL
- SPECIAL ALLOYS

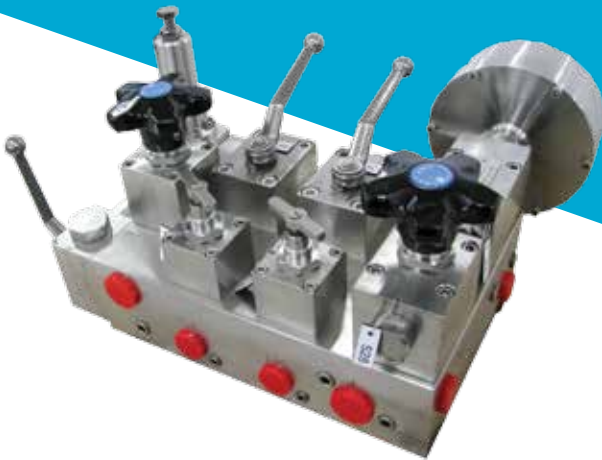
Ultrasonic examination report available upon request



High pressure gas systems safety relief valve (Project ORMEN LANGE)



Hydraulic block for drive and control systems of on board utilities, installation Motorsailer



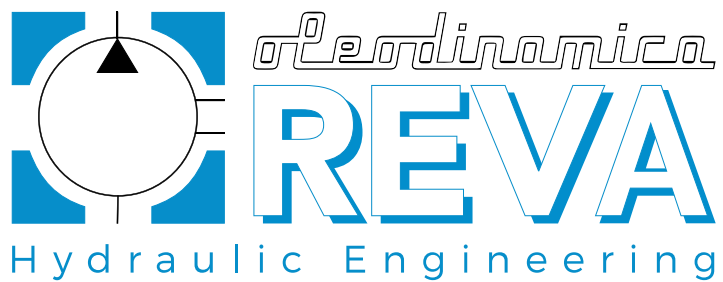
Hydraulic block in execution all in stainless steel with operated pneumatic



Hydraulic block allowing the functioning of the main cable tension on cableway installation



Hydraulic blocks allowing the functioning of breaking systems on cableway installation



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