CONCERN
SOUZENERGO

Manufacture of power, industrial equipment, valves and fittings
**Concern “SouzEnergo”** is a diversified company that specializes in engineering, manufacturing and supply of valves and fittings, power, industrial, technological, energy-saving equipment and construction of a high degree of complexity objects. Our enterprises supply products for thermal and nuclear power engineering, metallurgy, oil and gas, chemical, mining, cement industries.

Engineering projects in the company is carried out by special department, which is active in design and development of a competitive high-tech equipment.

The manufacture of our company is certified to ISO 9001:2008 and is fully compliant with national and international standards. Implemented internal quality control system assures compliance of products with the requirements of DSTU, DSTU GOST, GOST, OST, TU U, PNAEG, RD.

We also have the Declarations of compliance of our products and equipment with EU Directive 2014/68/EU, which confirms the high quality, manufacturability and safety of our products, and officially approves the Concern as a supplier of pipeline fittings to EU countries.

We have combined technology and experience of our employees in order to carry out task of any complexity degree in such fields as:

- Foundry;
- Forming;
- Machining;
- Welding and weldup;
- Heat treatment;
- Product laboratory testing;
- Product assembly and testing.

Our representative offices operate in Ukraine, Russia, Kazakhstan and Georgia.

We have a successful and fruitful experience in the supply of equipment to more than 30 countries, including Germany, Poland, Latvia, Estonia, Pakistan, India, Vietnam, Iran, Cuba, Belarus, Kazakhstan, Moldova, Georgia, Russia. The range of the deliveries is constantly expanding.
Concern "SouzEnergo" produces valves and fittings of different purposes and sizes, including large diameters.

General purpose industrial valves:
- Steel wedge valves
  DN 50-2600 PN 1-10 kgf/cm²;
  DN 50-1200 PN 16-25 kgf/cm²;
  DN 50-600 PN 40 kgf/cm²;
  DN 50-500 PN 63-80 kgf/cm²;
  DN 50-250 PN 160-250 kgf/cm²;
- Check valves and sealing valves PN 100-1200 PN 16-160 kgf/cm²;
- Check valve gates DN 50-1200 PN 16-80 kgf/cm²;
- Disk and sealing pivot gates DN 200-1600 PN 0.05-25 kgf/cm²;
- Cut-off valves.

Power engineering valves:
- Cast wedge valves for water and steam DN 100-450 PN 40-380 kgf/cm², t 280-560°C;
- Check valves for water and steam DN 6-80 PN 100-380 kgf/cm², t 280-560°C;
- Pulse valves DN 20 and larger, PN 0.8-42 kgf/cm², t up to 450°C;
- Cast steel check valves DN 20-400 PN 100-380 kgf/cm², t up to 560°C;
- Safety valves DN 125-400 PN 40-250 kgf/cm², t up to 560°C;
- Control valves DN 10-350 PN 100-380 kgf/cm², t up to 560°C;
- Steam coolers DN 50-1000 PN up to 250 kgf/cm², t up to 560°C;
- Water level indicators DN 10-20 PN 25-155 kgf/cm², t 450 °C.

Valves and fittings for nuclear power plants made of pearlitic and austenitic steel grades, of the types and groups 2BIIa, 2BIIIe, 2BIIIC, 3CIILb, 3CIILc according to OTT-87, meeting the requirements of PN AE G-7-008-89, which are manufactured in accordance with the regulatory guidelines:
- Pressed and welded shutters DN 50-800 PN 16 kgf/cm²; 25 kgf/cm²; 40 kgf/cm²;
- Pressed and welded shutters DN 150-250 PN 10 kgf/cm²;
- Pressed and welded shutters DN 400-600 PN 6 kgf/cm²;
- Pressed and welded shutters DN 800-1000 PN 4 kgf/cm²;
- Forged rotary gates DN 50-200 PN 25 kgf/cm²; 40 kgf/cm²;
- Back valves DN 200-800 PN 25 kgf/cm²; 40 kgf/cm²; 110 kgf/cm²;
- Pivot disk gates DN 150-1000 PN 10 kgf/cm²; 25 kgf/cm².

We also produce segment (leaf) gate valves for steel industry and fittings for oil and gas industry.
**Concern "SouzEnergo"** produces heat-and-power equipment, boilers, industrial and technological equipment for metallurgy, nuclear and thermal power plants, chemical, oil and gas industries. Parts and elements of pipelines made of pearlitic and austenitic steel grades, meeting the requirements of PN AE G-7-008-89, which are manufactured in accordance with the regulatory guidelines set out in the PR-D.0.06.555-16:

**Boilers, spare parts and components for boilers:**
- Industrial water boilers of up to 20 MW thermal capacity; complete sets;
- Water heaters of KVGM (PTVM) series within the volume of the main mounting blocks;
- Steam boilers of: DKVA-10-23 (39) type; TP-35, TP-20, B-35-40, K-35-40 types; BKZ-75-39, E-5-40 types;
- Boiler drums and pressure vessels (working pressure 4.0 MPa);
- Boiler heating surfaces (screens, water economizers, superheaters, air heaters, collectors, steam coolers) with a productivity of 630 t/h, or up to 2500 t/h for the direct-flow design;
- Steam heaters for heating networks, heat exchangers of various types;
- LDPE, HDPE and MDPE spirals of all types;
- Spare parts for draughting equipment and centrifugal pumps;
- Processing equipment, gas cleaning and tank equipment;
- Heating surface pins;
- Scaffolds for installation works.

**Foundry products:**
- Lining plates for tumbling mills (SH 10, SH12, SH16, SH32, SH50, SH50A);
- Lining plates for cement mills;
- Burner nozzles of high-temperature alloys;
- Carbon steel casts;
- Stainless steel casts;
- Casts of gray cast iron with nodular graphite;
- Casts of copper alloys.

Also: dynamic power engineering equipment, liner bolts, products made of finned tube, tanks, reservoirs, containers, etc. Each product is accompanied by a quality certificate of the manufacturer.

We manufacture pipe fittings and industrial machinery according to drawings and requirements of the customer, and we do develop design and technological documentation if demanded as well.
A quality management system has been implemented and certified within the Concern "SouzEnergo".
The system is now successfully operating for customer satisfaction and delivery of quality products.

To carry out measurements and quality control there are certified laboratories functioning at all the production facilities of Concern «SouzEnergo».

We perform measurements during the following control and test types:

- Metallographic examinations;
- Intergranular corrosion resistance tests;
- Steeloscopic tests;
- Tightness test;
- Spectral analysis;
- Chemical analysis;
- Determination of material hardness.

The list of our major services provided by Concern "SouzEnergo":

- Installation, repair and improvement of steel structures and tubular boiler parts, heat-recovery boilers, self-contained stem superheaters and economizers, centrifugal pumps;
- Installation, repair and reconstruction of steam and hot water boilers, pressure vessels, heat exchangers;
- Precommissioning of steam and hot water boilers, waste heat boilers, steam and hot water pipelines, and steam and gas turbines running on different fuels;
- Production and kitting of valves and fittings, elements of reducing and cooling units, according to the customer requirements;
- Complete supplies of valves and fitting parts and components (spare parts, including sealants) and accessories;
- Development of engineering, design and technical documentation for revision, repair, testing, commissioning and operation of the valves;
- Technical expertise of fittings to determine the actual state and the rest service life of the key parts and components;
- Inspection, testing, repair and maintenance of valve actuators;
- Fabrication of original fitting units and parts;
- Valve testing;
- Improvement of the standard valves and components in accordance with new standards and quality requirements.