Pipeline fittings for thermal and nuclear power plants
Pipeline fittings for Thermal Power Plants

**Wedge gate valve**
- DN 50-450
- Pp 40-380 bar
- PN 63-100 bar
- Operating medium: water, steam, water-steam
- Connection to pipeline: welded
- Tightness class: A, B, C according to EN 12266-1
- Material type: A, H, C
- Drive type:
  - wheel
  - actuator
  - cylindrical reducer
  - conical reducer

**Shut-off valve**
- DN 10-80
- PN 63-380 bar
- Operating medium: water, steam
- Connection to pipeline: welded
- Tightness class: A, B, C according to EN 12266-1
- Material type: C, H
- Drive type:
  - actuator
  - cylindrical reducer
  - conical reducer
  - wheel

**Needle and swing control valve**
- DN 10-400
- PN 40-380 bar
- Operating medium: water, steam
- Connection to pipeline: welded
- Tightness class: A according to FN 12266-1 (needle); 1% from Kv (swing)
- Material type: C, A, H
- Drive type:
  - built-in actuator
  - remote-acting actuator

**Unbalanced sleeve control valve**
- DN 20-800
- PN 40-380 bar
- Operating medium: water, steam
- Connection to pipeline: welded, flanged
- Tightness class: 0.1% from Kv
- Material type: A, H
- Drive type:
  - built-in actuator
  - remote-acting actuator

**Slide valve**
- DN 32-400
- PN 40-380 bar
- Operating medium: water, steam
- Connection to pipeline: welded
- Tightness class: Not applicable
- Material type: A, H
- Drive type: actuator

**Throttle valve with cooling system**
- DN 150/250
- Pp 6/16 bar
- Operating medium: water, steam
- Connection to pipeline: welded
- Tightness class: 0.1% from Kv
- Material type: C, A, H
- Drive type:
  - built-in actuator
  - remote-acting actuator

* Valves with any parameters can be manufactured upon customer’s request.
**Pipeline fittings for Thermal Power Plants**

**Swing check gate valve**
- DN 20-400
- PN 100-380 bar
- Operating medium: water, steam
- Connection to pipeline: welded
- Tightness class: D according to EN 12266-1
- Material type: C, A, H
- Drive type: controlled by medium flow

**Safety valve**
- DN 50-600
- PN 16-250 bar
- Operating medium: water, steam
- Connection to pipeline: welded, flanged
- Tightness class: A, B, C according to EN 12266-1
- Material type: A, H
- Drive type: from pulse valve, spring, lever

**Pulse valve**
- DN 20-25
- PN 12-250 bar
- Operating medium: steam
- Connection to pipeline: welded, flanged
- Tightness class: A according to EN 12266-1
- Material type: C, H
- Drive type: spring, lever, electromagnet

**Check valve and inlet high-pressure preheater**
- DN 200-400
- PN 200-400 bar
- Operating medium: water
- Connection to pipeline: welded
- Tightness class: C, D according to EN 12266-1
- Material type: C, A
- Drive type: automatic

**Steam cooler**
- DN 50-500
- PN ≤ 240 bar
- Connection to pipeline: welded
- Material type: A, H, S
- Complete with noise reducer

**Pressure-reducing and desuperheating stations**
- DN 50-500
- PN ≤ 450 bar
- Consist of: gate valves, control valve, steam cooler with spray, throttling device, valves for cooling water and drain lines, pulse safety device, electric actuators, pipe elements
Pipe fittings for Nuclear Power Plant

**Vent valves**
- DN 200-1600
- PN 0,006 bar
- Operating medium:
  - nuclear air
  - atmosphere air
  - steam or gas mixture
- Installation place:
  - indoors
  - under the shell
- Class, fitting group and welding joint subcategory:
  - 2BIIa, 3CIIa
- Connection to pipeline:
  - flanged
- Tightness class:
  - 1, 2 according to GOST 9544-75
- Body material: C, S
- Drive type:
  - manual (wheel) of the mechanical drive
  - actuator

**Rising-stem wedge gate valve**
- DN 50-800
- Pn 16-40
- Operating medium:
  - steam, technical water, oil,
  - 1 circuit heat transfer medium, nitrogen;
  - boron solution
- Connection to pipeline:
  - by welding
- Tightness class:
  - 1, 2 according to GOST 9544
- Body material: C, S
- Drive type:
  - wheel
  - bevel or spur gear speed reducer
  - actuator

**Welded check valve**
- DN 200-800
- Pn 25-140 bar
- Operating medium:
  - steam, technical water, oil,
  - 1 circuit heat transfer medium, nitrogen;
  - boron solution
- Installation place:
  - indoors
  - under the shell
- Class, fitting group and welding joint subcategory:
  - 2BIIa, 2BIIa, 3CIIa,
  - 2BII, 2BII, 3CIIa
- Connection to pipeline:
  - by welding
- Tightness class:
  - according to OOT-87
- Body material: C, S
- Drive type:
  - automatic (by operating medium flow)

**Welded check valve**
- DN50-400
- Pn 4,0-20,0 bar
- Operating medium:
  - steam, technical water, oil,
  - 1 circuit heat transfer medium, nitrogen;
  - boron solution
- Installation place:
  - indoors
  - under the shell
- Class, fitting group and welding joint subcategory:
  - 2BIIa, 2BIIa, 3CIIa,
  - 2BII, 2BII, 3CIIa
- Connection to pipeline:
  - by welding
- Tightness class:
  - according to OOT-87
- Body material: C, S
- Drive type:
  - automatic (by operating medium flow)

<table>
<thead>
<tr>
<th>Body material steel type (and identification mark)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon steel</td>
</tr>
</tbody>
</table>

---

51200, Ukraine, Novomoskovsk, Spasskaya street, 8
Tel./Fax: +38 (056) 795-15-20, 22
consult@souzenergo.com
tpsales@souzenergo.com

101403, Kazakhstan,
Temirtau, Kalinina street, 62
Tel.: +7 (701) 519-06-56
souzmm@gmail.com