

VALVES FOR CRITICAL APPLICATION





Critical Service

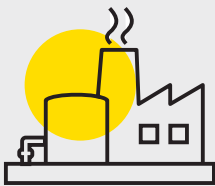
As the first Turkish valve manufacturer to obtain NDK certification, Vastas is a qualified partner for nuclear power plant projects. With its broad machining capacity and flexible manufacturing infrastructure, Vastas holds the potential to engineer and manufacture valves in compliance with major nuclear codes — ASME Section III, RCC-M, GOST, KEPIC, and HAF — as well as project-specific requirements.

Vastas valves have successfully completed pressure, temperature, cycling and seismic qualification tests at Rosatom-approved laboratories in Russia — a critical step that validates performance under demanding nuclear service conditions. Vastas has proven experience in Safety Class 2 and 3 applications and engineering capability extending to Safety Class 1.

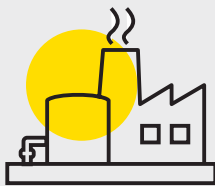
Vastas delivers point-specific valve solutions - each engineered to meet the exact dimensional and weight requirements of its installation. Full material traceability is maintained throughout the supply chain, ensuring complete documentation from raw material to final product. Where nuclear safety demands it, cobalt-free hardfacing materials are applied.



Project Types



Nuclear Power
Plants



High Pressure /
High Temperature Plants



Refining &
Petrochemical Facilities

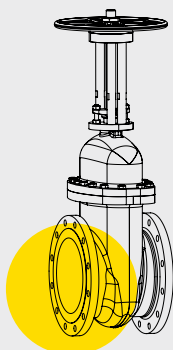


Energy & Steam
Systems



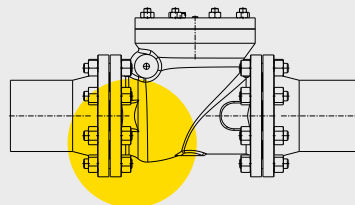
High Pressure
Water Systems

Products Range



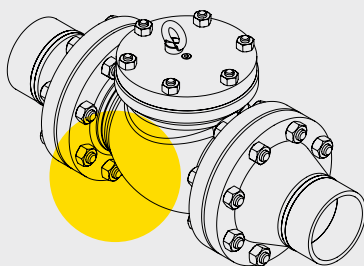
WEDGE GATE VALVES

ASME Sec III, ASME B16.34, API 600,
ATEX, PED, SIL



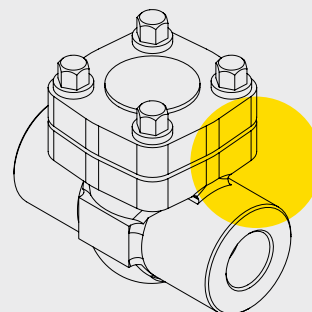
SWING CHECK VALVE

ASME Sec III, ASME B16.34, API 6D,
ATEX, PED



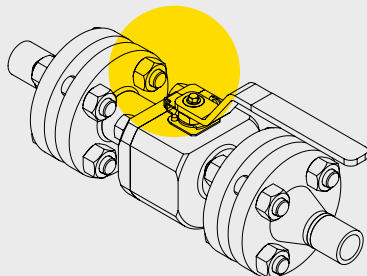
TILTING CHECK VALVES

ASME Sec III, ASME B16.34, ATEX, PED



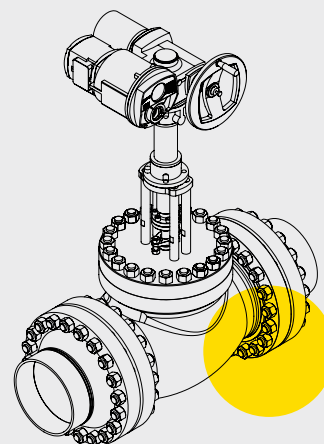
COMPACT LIFT CHECK VALVES

ASME Sec III, ASME B16.34, API 602,
ATEX, PED



COMPACT BALL VALVES

ASME Sec III, ASME B16.34, API 608, ISO
17292, API 6D, ATEX, PED, SIL



GLOBE TYPE CONTROL VALVES

ASME Sec III, ASME B16.34, BS1873,
ATEX, PED, SIL



Features

Design Standards ASME Sec III, ASME B16.34

Size Range 3/4" to 100" (DN 20 - 2500) available
range varies by valve type and pressure class.

Pressure Range ANSI 150# to 2500#

Media Water, Steam Generator Feed Water, Raw Water, Potable Water, Heating Water, Demineralized Water, Circuit Water, Blowdown Water, Steam, Saturated Steam, Steam Condensate, Primary Coolant, Boric Acid Solution, Oil, Vapour-Air Mixture.

Nuclear Qualifications

- NDK Certificate — first Turkish Valves & Actuators manufacturer (since 2024).
- Pressure, temperature, cycling and seismic qualification tests completed at Rosatom-approved laboratories.
- Safety Class 2 and 3 experience — Safety Class 1 engineering capability available.

Materials

- Forged/Casted Steel.
- Carbon, Alloy, Stainless Steels, Duplex, Super Duplex, Precipitation Hardened Stainless Steels, Nickel Alloys, High Alloy Austenitic Steels.
- Hardfaced with stellite or Cobalt-Free alternatives (Antinit DUR) in accordance with Nuclear Safety Class requirements options.

Options

- BW, Flanged End or Wafer Type.
- Bolted Bonnet or Pressure Seal Bonnet Design.
- Position Indication.
- Pneumatic/Electric/Manual Operation or Bare Stem.



VASTAS
SERVICE TEAM

Vastas professional and qualified service team is ready 24/7. Emergency response is provided within 24 hours, for exceptional circumstances and geographical obstacles remote solutions can be offered.

REFERENCE



Akkuyu Nuclear Power Plant

Akkuyu Nükleer A.Ş./Türkiye



Alasehir Geothermal Power Plant

Zorlu Enerji/Türkiye



Saraykoy Geothermal Power Plant

Exergy/Türkiye



Chemical Complex Quench Circulation Pump Filter Project

Engro Polymer & Chemicals Ltd./Pakistan



Sasa Polyester Production Plant

SASA Polyester/Türkiye



Rehabilitation And Renewal Works At Chileka Pumping Stations

Blantyre Water Authority/Malawi



**Ras Al Zawr -
Riyadh Water Transmission Line Project**

SWCC (Saline Water Conversion
Corporation)/Kingdom of Saudi Arabia



Star Refinery

Socar/Türkiye



Izmir Refinery

Tupras/Türkiye



Rania Refinery

Tetsa/Iraq



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