

# ENEQ CONSULT LTD

Engineering, Equipment, and Consulting for Demanding Industries (Valve Catalogue)



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- Overview of equipment and solutions for power plants
- Detailed look at valves and pumps product ranges
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# Company Overview

With **nine years of solid performance** and a project portfolio exceeding **€20 million**, ENEQ Consult Ltd. is a reliable partner for high-quality mechanical equipment.

**Core Sectors:** We specialize in solutions for the nuclear, conventional power, oil & gas, and petrochemical industries.

**Complete Project Lifecycle:** Our expertise covers everything from equipment supply and turnkey delivery to critical engineering analyses (FEA & CFD) and comprehensive after-sales support.

**Global Partnerships:** Through exclusive partnerships with 15 global manufacturers, we ensure compliance with the highest international standards, including ASME, EN, N Stamp, DIN, and ISO.



# Equipment



Pipeline valves

Our valves product range includes a wide range of valves operated at both Conventional Power Plants and Nuclear Power Plants

ENEQ Consult supplies a wide range of pumping equipment used in nuclear and conventional power industry, constantly expanding product range.



Pumps



Actuators

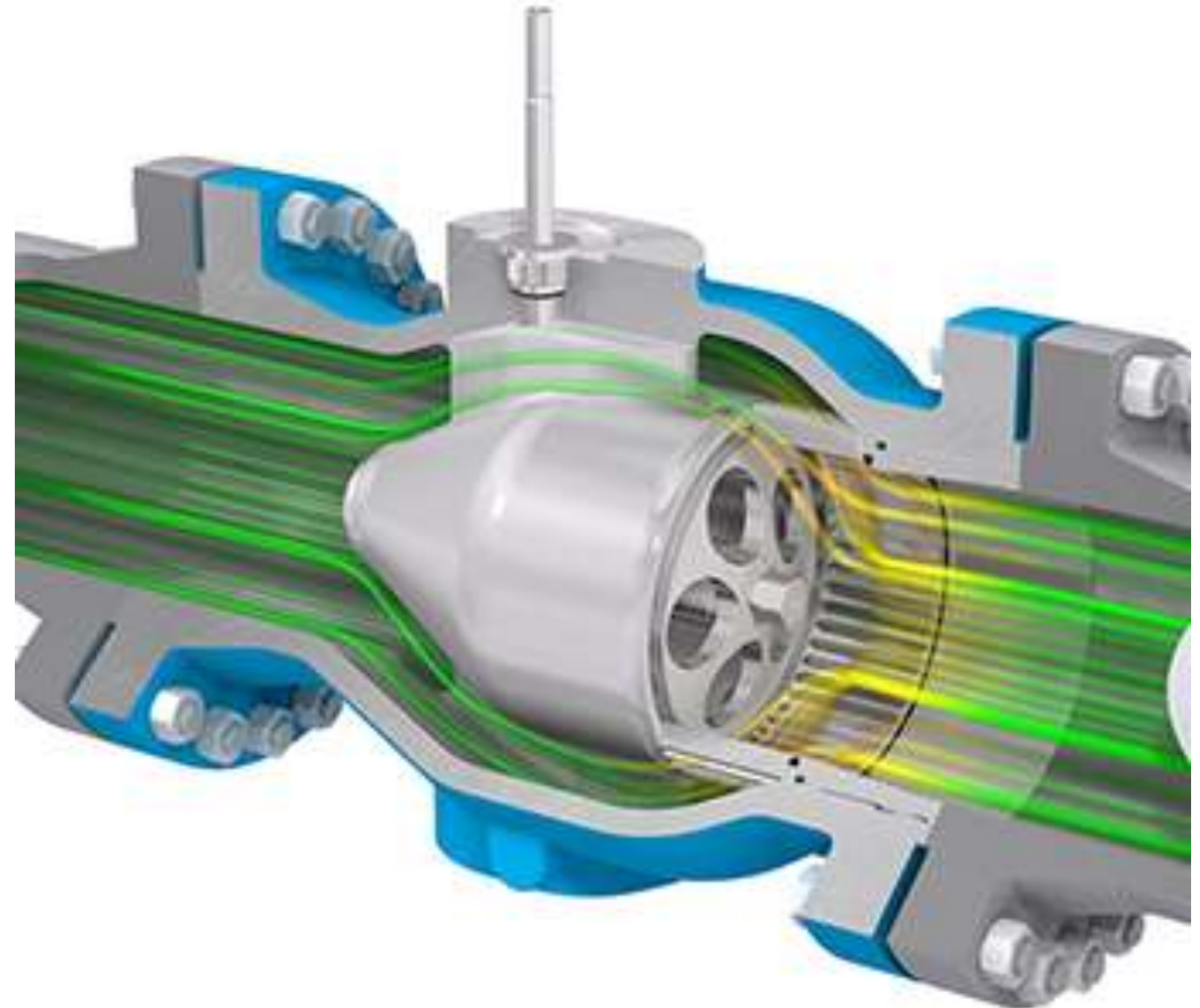
- Part-Turn actuators
- Multi-Turn actuators
- Turn with Lever actuators
- LINEAR Thrust actuators
- Pneumatic actuators

# Axial Flow Valves

## High Capacity, Low Pressure Drop

Axial flow valves deliver high-capacity performance with an exceptionally low pressure drop, making them ideal for demanding applications where efficiency is critical. Their streamlined, in-line design minimizes turbulence and noise.

- **Key Features:** A unique rotary-to-linear drive mechanism reduces actuator size and fugitive emissions. Multi-cage and balanced plug designs are available for severe service, cavitation, and noise control.
- **Applications:** Oil & gas pipelines, compressor discharge, cryogenic services, and power generation.
- **Range:** DN 50 to 1200 (4" to 48") | Up to 420 bar (ASME Class 2500).



# Ball Valves

## Reliable On/Off Isolation

Offering reliable quarter-turn operation, our ball valves are available in floating, trunnion-mounted, and fully-welded configurations for a wide range of services.

- **Key Features:** Designs include trunnion-mounting for low-torque operation, soft or metal seats, Double Block & Bleed, an Anti-Blow-Out Stem, and Fire-Safe options.
- **Applications:** Oil & gas, chemical plants, water systems, marine, and HVAC.
- **Range:** DN 10 to 1400 (1/2" to 56") | Up to API 15,000 psi.



# Blowdown Valves

## Boiler Efficiency and Protection

Designed to handle high differential pressure for the rapid or continuous removal of boiler sludge, sediment, and dissolved solids to maintain system efficiency and prevent scale build-up.

- **Key Features:** Offered in **intermittent** designs for rapid sludge discharge and **continuous** models for precise, steady control of Total Dissolved Solids (TDS). Sealing surfaces are hard-faced with 13Cr or Stellite 6 for durability.
- **Applications:** Boiler TDS control, sludge removal, and emergency depressurization in high-pressure steam systems.
- **Range:** DN 10 to 50 | Up to PN 500 | Max Temp: 580°C.



# Butterfly Valves

## Compact, High-Capacity Flow Control

Butterfly valves provide high-capacity flow control in a compact, lightweight design. Their quarter-turn operation ensures quick opening and closing with minimal pressure drop.

- **Key Features:** Available in concentric, double-offset, and triple-offset designs. Sealing options include soft seats for zero-leakage and metal-to-metal seats for high-temperature or fire-safe performance.
- **Applications:** Water supply, HVAC, chemical processing, fire protection, oil & gas, and power generation.
- **Range:** DN 50 to 3000 | Up to 40 bar (ASME Class 600)..



# Check Valves

## Automatic Backflow Prevention

Check valves are self-acting valves designed to automatically prevent the reversal of flow in piping systems across all major industries.

- **Key Designs:**
  - **Swing Check:** A hinged disc swings to allow or block flow.
  - **Lift Check:** A disc or piston lifts vertically off the seat.
  - **Dual Plate:** Two spring-loaded plates provide a compact and lightweight solution.
  - **Tilting Disc:** A balanced disc design that operates with a very small pressure drop.
- **Range:** DN 10 to 1600 (up to 64") | Up to 630 bar (ASME Class 4500 / API 15,000 psi).

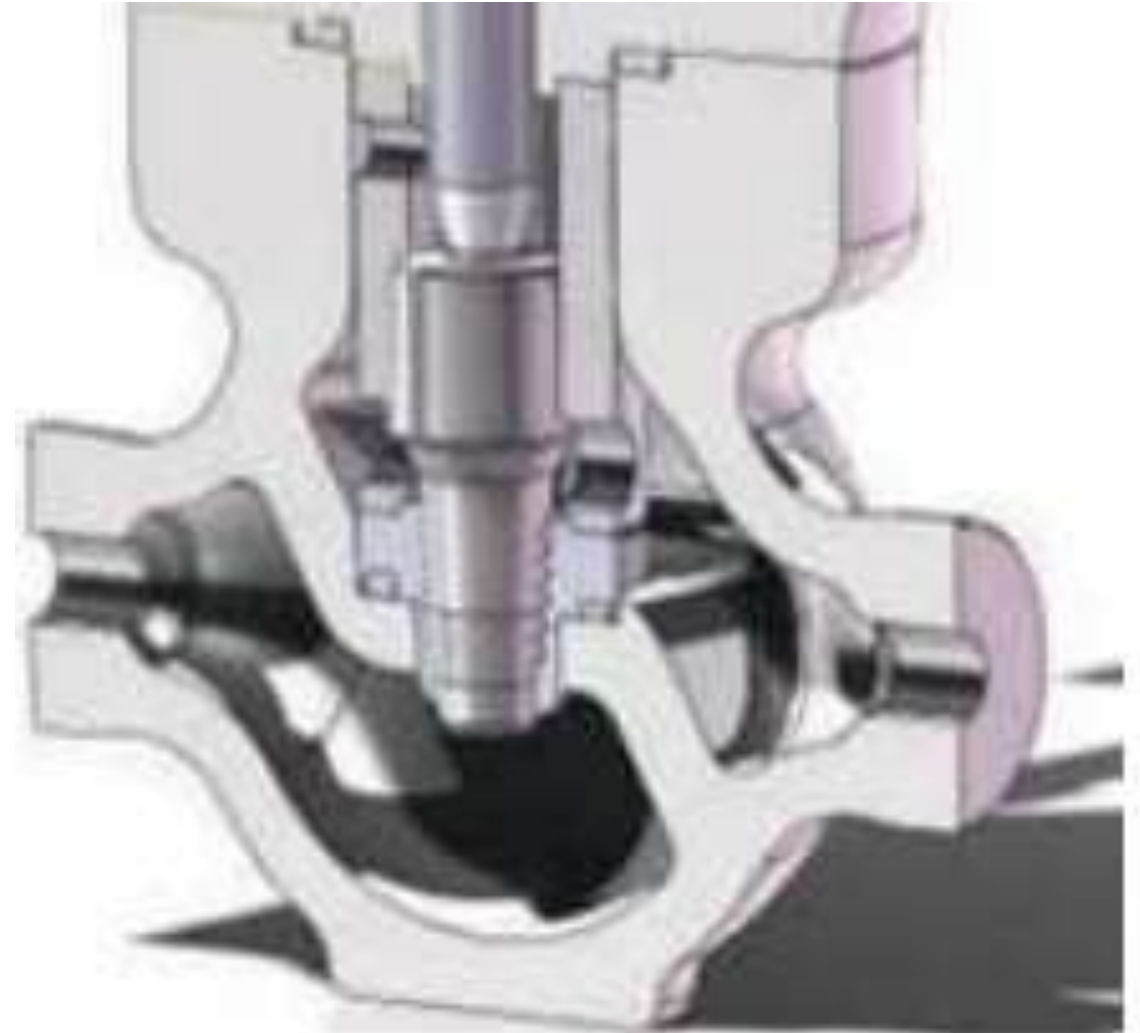


# Choke Valves

## Severe Service Flow and Pressure Control

Choke valves are engineered to precisely control flow rate and manage high-pressure drops in severe service applications, protecting downstream equipment.

- **Key Features:** Available with single-stage or advanced multi-stage trims for managing cavitation, erosion, and high-velocity flow. Built for extreme durability with materials like tungsten carbide.
- **Applications:** Oil & gas wellheads, subsea manifolds, gas injection, and flowback control.
- **Range:** 1-13/16" to 7-1/16" | Up to 15,000 psi (ASME Class 4500).



# Control Valves

## Precise Process Modulation

Control valves are designed to modulate process variables like flow, pressure, or temperature by varying the position of the plug relative to the seat.

- **Key Features:** Available in globe, angle, or 3-way body designs with specialized trims (e.g., multi-stage, low-noise, anti-cavitation) to handle the most critical service conditions.
- **Applications:** Power plants, refineries, chemical processing, and HVAC automation.
- **Range:** DN 20 to 400 (3/4" to 16") | Up to PN 400 (ASME Class 2500), with special designs up to Class 4500.

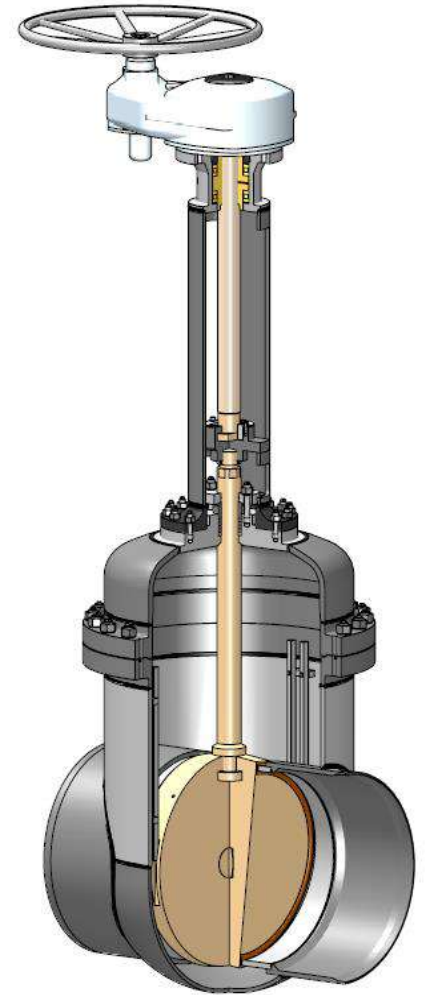


# Gate Valves

## Full-Flow Isolation with Minimal Pressure Drop

Gate valves use a linear motion to fully open or close the flow path, making them ideal for isolation services where a low pressure drop is essential.

- **Key Features:** Available with various wedge designs (solid, flexible, split) and bonnet types (bolted, pressure-seal) to suit different pressures and temperatures. Through-conduit designs are available for piggable lines.
- **Applications:** Oil & gas pipelines, water distribution, power generation, and petrochemical plants.
- **Range:** DN 40 to 1800 (up to 72") | Up to 630 bar (ASME Class 4500 / API 15,000 psi).



# Globe Valves

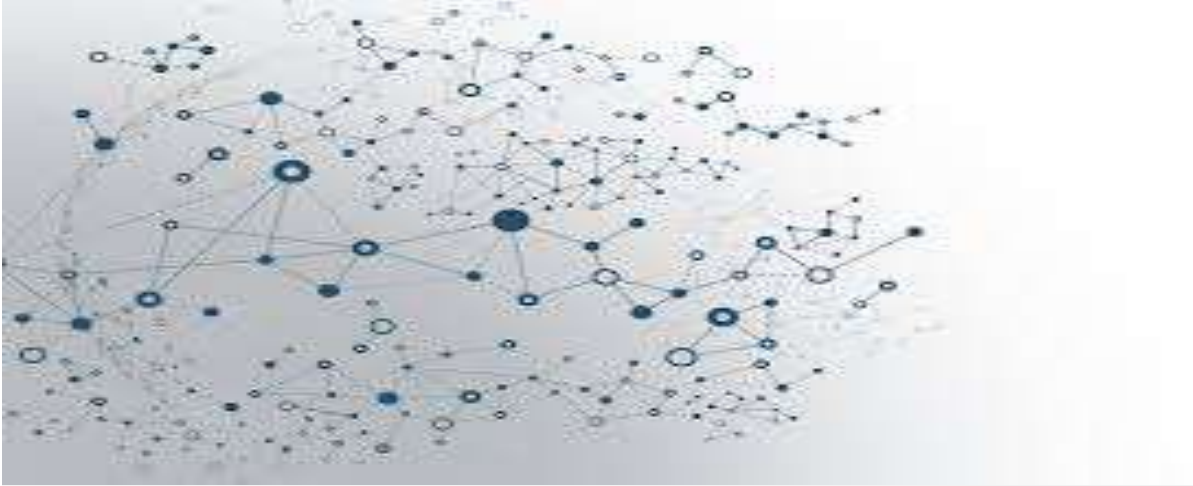
## Precise Throttling and Tight Shut-Off

With their linear motion and internal design, globe valves excel at throttling (regulating) flow and providing leak-tight shut-off, especially in high-pressure systems.

- **Key Features:** Available in straight, Y-pattern, and angle configurations. Bellows-sealed designs offer zero stem leakage for hazardous or critical media. Can be fitted with a standard or regulating disc.
- **Applications:** Steam systems, cooling water, fuel oil, chemical processing, and other severe service duties requiring precise control.
- **Range:** DN 6 to 1200 (up to 48") | Up to 630 bar (ASME Class 4500).



# Codes and Standards



The general design of the equipment and components is in conformity with ASME, EN and DIN, whereas our company can also offer designs in accordance with API. Equipment is manufactured using materials under EN, ASME, ANSI, ASTM standards. There is also an option for special execution of dimensions and materials as per the individual requirements of the customer.

Individual approach towards every single partner in relation to the products that we offer, in view of highly-technological quality of the equipment, which is in conformity with international and national standards

**Codes and Standards  
International**



# Contacts



Headquarter  
Eneq Consult Ltd.  
Tsarnook 5  
1421 Sofia, Bulgaria



Armenui Madoyan (CEO)  
+41 77 523 44 28  
Yogesh Parmar (Business Development)  
+41 79 799 92 70



[armenui.madoyan@eneqconsult.com](mailto:armenui.madoyan@eneqconsult.com)  
[yogesh.parmar@eneqconsult.com](mailto:yogesh.parmar@eneqconsult.com)  
[info@eneqconsult.com](mailto:info@eneqconsult.com)



[www.eneqconsult.com](http://www.eneqconsult.com)

