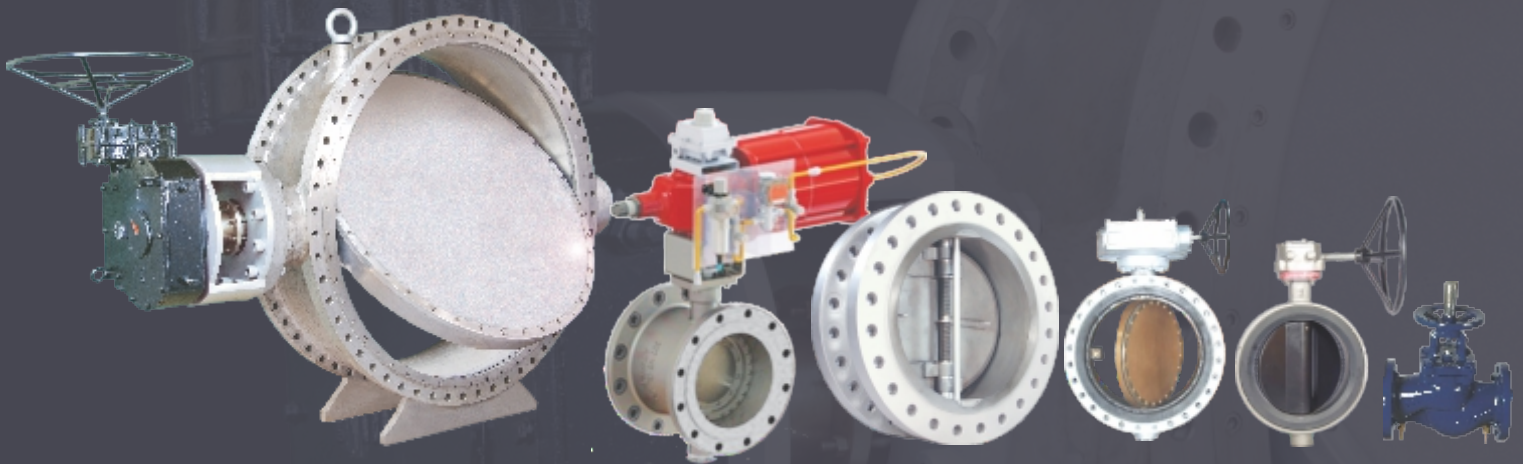




## Keeping Industries in Flow, Worldwide.



*Changing the way you think about valves...*

DUAL PLATE CHECK VALVES | BUTTERFLY TRIPLE ECCENTRIC VALVES | BUTTERFLY DOUBLE ECCENTRIC VALVES | BUTTERFLY CONCENTRIC VALVES | BALANCING VALVES

MOTOR OPERATED VALVES | VALVES WITH PNEUMATIC ACTUATOR | VALVES WITH ELECTRO-HYDRAULIC (E/H) ACTUATOR | CONTROL VALVES PRODUCT LINE

CRYOGENIC SERVICE | FIRE SAFE SERVICE | LOW FUGITIVE EMISSION SERVICE



## Core Value

" To concentrate in business areas with world class latest *technology* which offer *ultimate solutions*, by adopting *global practices* for the benefit of end -users through empowerment of *human resources* in safe working environment and appropriate *quality systems* to maintain market leadership and be distinct and significant."



Products spanning across a wide size-range, capable of withstanding intense pressures, tested for suitability at extreme temperatures from cryogenic to fire-safe, in complete spectrum of metallurgy, for adverse process fluids to pure gases and water.

## Value Added Project Partner

Advance Valves is a globally recognized leader in flow control solutions with a focus on specialized and technically advanced valve product range. Specializing in Dual Plate Check Valves, Butterfly Valves and Balancing Valves technology, Advance Valves meets a wide spectrum of complex and diverse customer needs. Over the years Advance Valves has built a reputation of being a pioneer in Valve Technology, with strong engineering foundation and proven expertise that provides innovative and cutting-edge technology solutions.

### Supporting Efficiency and Enabling Sustainability

Industries that bring to us our way of life need to extract maximum value from available resources, in an efficient and cost-effective way. Advance Valves helps global customers manage their resources effectively with advanced design and high-performance flow control solutions. Our products reduce Capital, Operational and Energy Costs through specialized energy efficient, compact, light-weight full-featured valves.

## We deliver superior value and innovative solutions to customers all over the world!

We provide a full complement of size ranges, pressure ratings, operating temperatures and fluid characteristics; including related services such as on-site commissioning for optimum performance. Advance Valves' products are offered in a broad range of materials from Carbon Steel and Stainless Steel to Aluminium Bronze, Duplex SS, Super Duplex SS, Hastelloy, Alloy 20, Inconel and Titanium, amongst other super alloys. Tapping into our completely owned Intellectual Property and in-house R&D expertise, we tailor solutions to specific requirements.

## Products

### Dual Plate Check Valves

From 50mm - 2000mm (2" to 80").

Upto ANSI #2500 & API 6A.

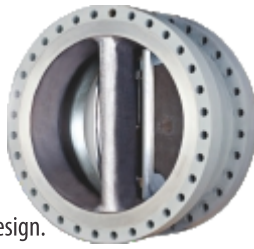
From -196° C (Cryogenic) to 750° C (Steam & other processes).

Fugitive emission free retainerless design.

End connections in Wafer, Lugged, Double Flanged, Butt weld, Jacketed, Monoflanged, Extended Body.

Soft seated and metal-to-metal seated.

Standards compliance with API 594, 598 & 6D, BS 6364, API 6FA amongst others.



### Triple Offset Metal-Seated Butterfly Valves

80mm - 2500mm (3" to 100").

Higher pressure range of ANSI #150, #300, #600 & #900.

From -196° C (Cryogenic) to 900° C (Steam & other processes).

End connections in Wafer, Lugged, Flanged, Butt weld.

Special designs include Jacketed, Zero leakage & Bidirectional performance.

Metal-to-metal seated, thus intrinsically fire safe.

Fugitive emission free as per ISO 15848

API 609, 598 & 607, BS 6364, ISO 10497 amongst others.



**All Butterfly Valves are also available with extension for buried/infit installation**



### Double Offset Soft Seated Butterfly Valves

80mm - 3000mm (3" to 120").

Upto ANSI #150.

Ambient to 205° C.

End connections in Wafer, Lugged & Flanged.

API 609 & API 598.



### Fit n Forget' Butterfly Valve - integrally molded liner

50mm - 600mm (2" to 24").

Upto ANSI #150, Ambient to 205° C.

End connections in Wafer, Lugged & Flanged.

Lining and metallurgy to suit a wide variety of applications, including for Sea Water & Water Desalination plants.

Seal types (EPDM, Buna N, Viton).

Certified API 609 & 598, UL 1091.



### Balancing valves

Precise double regulation, Tamperproof setting, with handwheel or lockshield.

Low flow-noise emission, With or without.

Drain Cocks / Pressure Test Cocks.

Positive shut-off, Exceeds IS 778 - 1984.

Threaded in Gun metal Construction upto 3".

Flanged in Cast Iron Construction 3" upto 48".

PTFE Sealing upto 3" and EPDM for Cast Iron Construction.

Patented design covering 14" to 48".



## Triple Offset Butterfly, Vulcanized Lined Butterfly, Double Offset Butterfly Valves

50mm - 2500mm ( 2" to 100" )

Higher Pressure Range of ANSI #150, #300, #600, #900

(Depending on type of valve)



### Motor Operated Valves

On-Off with on without Inching facility.

3Ø/1Ø with 50Hz / 60 HZ Power Supply options.

MODBUS Serial / Foundation Fieldbus / Profibus /

Discrete Control options.



### Valves with Pneumatic Actuator

On-Off with on without Partial Stroke Testing facility.

Single acting / Double acting Actuators.

Designed Air Supply Pressure of 10kg/cm<sup>2</sup>.

Wide range of applications with control schemes using accessories like Solenoid Valves, Pilot valves, Lock-in Relay, Volume tank, Air Filter Regulator, Limit Switches, Positioners with PST.



### Valves with Electro-Hydraulic (E/H) Actuator

Low to large size On-Off applications.

3Ø / 1Ø with 50 HZ / 60 HZ Power Supply options.

MODBUS Serial / Foundation Fieldbus / Profibus /

Discrete Control options.



### Control Valves Product Line with Pneumatic Actuator

Control applications with Single acting / Double acting Actuator.

Designed Air Supply Pressure of 10 kg/cm<sup>2</sup>.

Foundation Fieldbus / Profibus / HART/ Conventional 4-20 mA. Control Options

Wide range of applications with Pneumatic / Electro - Pneumatic / HART compatible / Foundation Field Bus compatible positioner.

**The world is our market place**

**Addressing customer needs at their doorstep across the globe, with local expertise at the plants, stocking locations, local branch offices, distributors and agents; servicing all clientele spanning the globe.**

## Global Footprint

Advance Valves caters to all industry sectors through an extensive network of offices and dealers. The group has been a pioneer in India & is recognised as a high-end vendor supplying across the globe.

### International clients - The world is our market place

- ADNOC
- AGIP
- Air Liquide
- Air Products
- Aker Kvaerner
- AMEC
- BASF
- Bechtel
- BHP Billiton
- BOC
- BP
- British Gas
- Cairn Energy
- CB&I
- Chevron
- Chiyoda
- Conocophillips
- Consolidated Contractors (CCC)
- CTCL
- Daelim
- Dow Chemicals
- ENI
- ENPPI
- Entrepouse
- Exxon Mobil
- Fluor
- Foster Wheeler
- GASCO
- Gaz De France
- GS Engineering
- Halder & Topsoe
- Hyundai
- J. Ray McDermott
- JGC
- Kellogg Brown & Root
- KNPC / KSC
- KOC
- KTI
- M.K. Kellogg
- Mitsubishi Chemicals
- Mustang
- NPCC
- Occidental
- Paragon
- Parsons
- PDO
- PDVSA
- PEMEX
- Petrobras
- Petrofac
- Petronas
- POSCO
- Qatar Gas
- Qatar Petroleum
- Ras Laffan
- SABIC
- Saipem
- Samsung
- SASOL
- Saudi Aramco
- SBM IMODW
- Shell
- SK Engineering
- SNC LAVALIN
- Sonatrach
- Stone & Webster
- Takreer
- Talisman
- Technip
- Technimont
- TOTAL
- UNOCAL
- Wood Group
- Worley Parsons

## National Clients

- Alstom Power
- Bharat Petroleum
- BHEL
- Bhushan Steel
- Blue Star
- British Oxygen
- BWSSB
- DAELIM
- Delhi Metro
- DLF
- Engineers India Ltd.
- Essar – Group
- GAIL
- GSFC
- Haldia Petrochemical
- Hindalco
- Hindustan Petroleum
- HPCL - Mittal Energy
- IFFCO
- Indian Oil Corp. Ltd.
- IPCL / RIL
- Jacobs H&G
- Jindal Steel & Power
- Larsen & Toubro
- MCC PTA
- Mott McDonald
- MRPL
- NFL
- NTPC
- NPCIL
- ONGC
- Praxair
- Reliance Industries / Pipelines
- Reliance Energy
- Samsung Engineering
- SPIC
- Sterling & Wilson
- Tata Power
- Tata Steel
- TOYO India
- Udhe

## Industry Sectors Served

- Refineries & Petrochemical Plants
- Fertilizer & Chemical Plants
- Steel & Metallurgical Plants & Mining
- Water Desalination & Management Systems
- Power Plants including Nuclear Plants
- Oxygen & other Gas Applications, including Gas to Liquids (GTL)
- Water and Wastewater
- Oil & Gas Pipelines - Onshore & Offshore
- Heating Ventilation & Air Conditioning
- Mining
- Steel
- Naval & Marine



- Plants
- Branches / Service / Stocks
- Local Offices/Agents
- Other markets served

**Engineered in-house**  
**Solid Modeling for Design Verification**  
**Finite Element & Flow Analysis**  
**Comprehensive Product Design & Performance Validation**

## Engineering

We take pride in the fact that a vast ocean of knowledge is available within the Advance Valves family. Our talented Engineers work in an open-minded environment, which we firmly believe, provides us with a competitive edge and makes us an organization with a strong customer focus. Advance Valves' products are completely developed in-house. Coupled with dedicated in-house engineering with extensive experience in critical applications, Advance Valves deploys the latest techniques for product development. Our designs are solid-modeled using Solid Works and fully validated before manufacturing using Finite Element Analysis, CFD and other custom tools. Our Design, Engineering, Manufacturing and Quality Control system, ensure high-performance from our products each and every time.

## Quality

Quality is an integral component in Advance Valves' philosophy.

We view quality as a total process that involves every aspect of our business. Our mission is to achieve, through creativity and innovation, uncompromising excellence and quality in the products we manufacture, the services we provide, the work environment we create, and the level of responsiveness we maintain to meet the needs and expectation of our customers, vendors and employees.

Apart from being ISO 9001:2008 certified, we carry the API 6D & API 609 Monogram, UL 1091 certification for butterfly valves for fire water systems, SIL 3 certification for triple eccentric butterfly valves and CE-PED accreditation for the EU markets.

Our Quality Assurance activity is dedicated to the pursuit of improving our processes and producing valves compliant with the most stringent standards, and also in line with specific customer requirements.

We test 100% of the valves we produce to ensure complete compliance with performance parameters.







**Multiple Fully Equipped Plants across North India**  
**Capable and Quality Certified Casting Suppliers from India**  
**Entire Complement of Testing Capabilities**  
**Global Coverage**  
**Capability Inside, Capacity Outside**

## Infrastructure

### Manufacturing Facility

Advance Valves has multiple modern self-sufficient manufacturing plants capable of producing large volumes of high-quality valves. Our major manufacturing base pan India comprises of energy efficient units spanning over 25,000 sq. m. (250,000 sq ft). Modern machining centers and material handling equipment are deployed, enabling material processing for large sizes upto 3 metres, with specialized capabilities for precision manufacturing of high quality valves.

We also have a production base in the Noida Special Economic Zone, which is a Free Trade Zone. This is further complemented by a global servicing infrastructure, representatives and stocks for support to our global clients.

### Supply Chain

The key links to our high performing valves, the supply chain members are our partners.

Carrying on the principle of "Capability Inside Capacity Outside", our network of qualified job workers and partners complement our manufacturing base as per our quality control and HSE norms. All our casting supply partners are based within India, and have over the years proven their expertise in handling complex metallurgy combination in varied sizes and extreme operating pressure requirements with high-end NDT equipment in-house.



ISO 9001-2015  
UL, CE – PED Accreditation  
SIL 3 Certification

## Testing Capabilities

**Testing facilities besides the standard hydro and pneumatic testing include:**

High Pressure Hydrostatic Testing (upto 900 bar)

High Pressure Pneumatic Testing (upto 300 bar)

High Pressure Helium Testing (upto 900 bar)

Cryogenic Testing with Helium down to -196 °C (per BS 6364)

Fire Safe Testing as per ISO 10497/API 607

Helium Leak Detection with Hoods Method & Detector - Probe Method

High Temperature Testing upto +750 °C

Fugitive Emission Testing (per ISO 15848)

Oxygen Cleaning



## Team

Our highly skilled management team along with our technical expertise, quality workmanship, and equipment enable us to develop new solutions and deliver unparalleled value to our customers.



## Corporate Citizen

Corporate Social Responsibility has become an integral part of Advance Valves' philosophy and is the cornerstone of our core values for being a good Corporate Citizen.

We define Corporate Social Responsibility as making socially responsible products, engaging in socially responsible employee relations and making a commitment to the community around us. Our CSR objectives include maintaining top notch ethical and business practices; safety, health and well-being of our employees; efficient use of materials and energy and enabling a brighter future for our employees and their families. We provide on-site health care services for our employees and also sponsor their children's education.

Our ultimate aim is to do our bit towards making the world a better place.

## Engineering the Future

In our own humble way, we began our journey by delivering products to customers who had no easy solutions in sight.

We truly believe that Engineering will provide the solutions to global problems of climate change, poverty and social issues. By providing better engineered solutions we are committed to

- Conserving natural resources;
- Focusing on the needs of those industries which benefit our society;
- Providing sustainable solutions.

We will strive to develop and manufacture valves with advanced features empowering our clients to optimally utilize the scarce resources around us. And that's a promise.





Oil and Gas



Refining & Petrochemicals



Power Generation



HVAC



LNG and Cryogenics



Desalination



Water and Wastewater



Mining



Steel



Chemical & Fertilizer



Nuclear



Naval & Marine

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