

Perfect Harmony with Technology



COMPANY INTRODUCTION

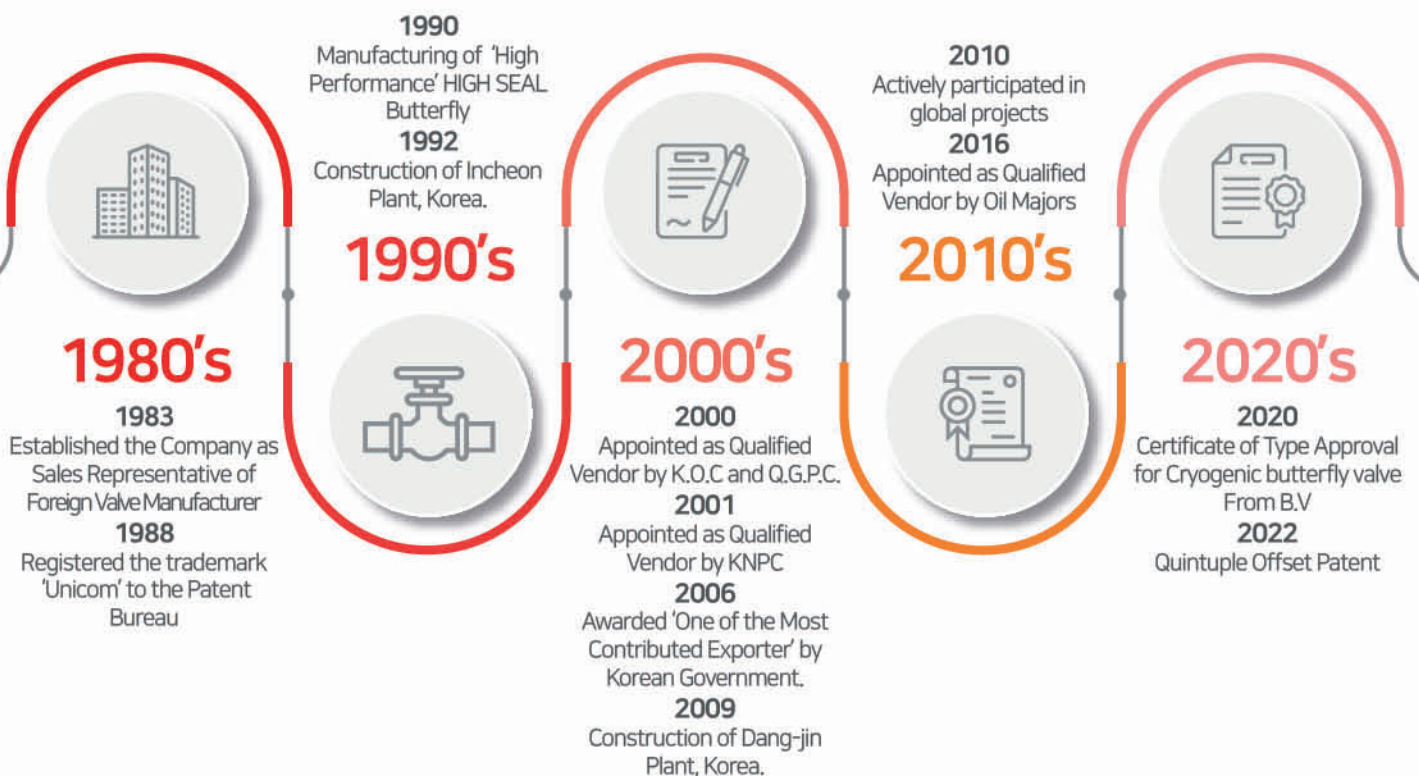


Since 1983, Korea Unicom Valve co., Ltd. (dba Unicom) has been manufacturing butterfly valves for a wide range of industrial applications and global projects. Our continuous improvements in engineering and design without compromising overall product quality led us to become a recognized manufacturer in the world.

All butterfly valves manufactured by Unicom are designed in accordance with recognized national and industrial standards such as ASME, API and ISO etc. The valve production takes place based on system management of ISO 9001 and ISO 45001 and products are certified to meet various international standards.

Furthermore, Unicom is striving in the R&D of future butterfly valves. We look forward to providing you with the highest quality butterfly valves based on our technological know-how and experience, from our modern facilities under stringent quality and HSE systems.

COMPANY HISTORY



WHY UINICOM?



High Quality and Cost effective design

Unicom provides the highest quality and most cost effective effective design available on customer's spec.



Finding the best solution

Unicom has the best solution to provide the valves in right valve and right place.



Various Project Experience

Unicom has been participated many of the world's large projects over the past 30 years.



Proven Performance

Unicom's products had proven its quality, reliability and performance under the most demanding applications.



Short-term deliveries and customized valve

Unicom offers the valve short-term deliveries available and can customize to customer requirements.

APPLICATION AREAS



Off shore & Marine



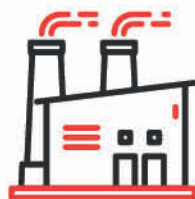
Petrochemical



Oil and Gas Plant



LNG Terminal



Power Plant



District Heating

VALVE LINE UP



01 Concentric Valve - API 609 Category A

- GRS (General Rubber Seat) type is elastomer seated butterfly valve used for the process demanding positive shut-off and effective flow control.
- Rating : ASME CL 150 / PN10, 16
- Size : DN50(2") to DN1000 (40")
- Connection Type : Lugged & Wafer



02 Eccentric Valve - API 609 Category B

1) High Performance Double Eccentric Valve

Soft Seat (Teflon and Modified Teflon)

- Soft (Teflon) Seat design's mechanism with an eccentric structure minimizes an on-off torque at high pressure, providing tight shut-off.
- Rating : ASME CL 150, 300, 600 / PN10, 16, 25, 40, 60, 64
- Size : DN50(2") to DN1800 (72")
- Connection Type : Double Flanged / Lugged & Wafer



Soft & Metal Seat (Teflon + Metal seat / Modified Teflon + Metal seat)

- Having a combined function of Soft seat and Metal seat, Soft + Metal seat gives a tight shut-off at nominal pressure and temperature rating. Although it has double seat structure, it requires relatively low operating torque.
- Rating : ASME CL 150, 300, 600 / PN10, 16, 25, 40, 60, 64
- Size : DN50(2") to DN1800 (72")
- Connection Type : Double Flanged / Lugged & Wafer



Metal Seat / Metal & Metal Seat

- Precious metal seated butterfly valve, Metal seat is applicable to high temperature as well as nominal pressure and temperature. Wide selection of valve materials ensures efficient performance in various industries.
- Rating : ASME CL 150, 300, 600 / PN10, 16, 25, 40, 60, 64
- Size : DN50(2") to DN1600 (64")
- Connection Type : Double Flanged / Lugged & Wafer



Rubber Lining

- Rubber lining valve has an eccentric structure enabling smooth operation and tight shut-off at any condition. And it is applicable to the inner body for anti-corrosion duty to prevent rust and corrosion on the body.
- Rating : ASME CL 150, 300, 600 / PN10, 16, 25, 40, 60, 64
- Size : DN150(6") to DN2250 (90")
- Connection Type : Double Flanged

* Please contact for additional sizes and class rating.

VALVE LINE UP

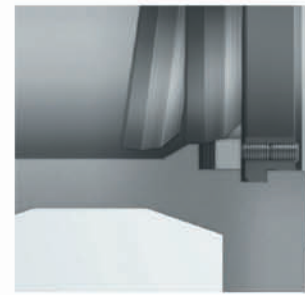
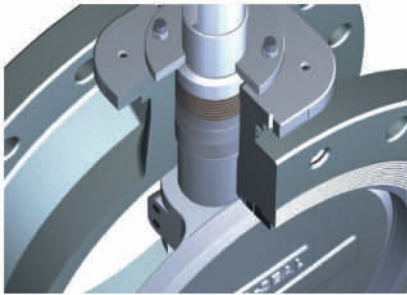


2) Triple Offset Valve

- Metal & Graphite Seat
- Solid Metal Seat

- Triple offset Design features a special sealing mechanism that consists of an inclined conical disc and a laminated seat. The unique characteristics of TOD are low torque operation, broad sealing width and bi-directional tight shut-off.

TOD has its own unique sealing design. The body seat ring is secured using set screws, and when assembled, the body seat ring is hydrodynamically and structurally hidden. This design minimizes the possibilities of in-service damages.



Type of body seat rings

Laminated Metal Seat

Laminated metal + graphite seat enables smooth mating, which makes TOD flawless not only in general application but also in LNG/LPG gas applications. Along with Triple Offset Design, laminated seat ring shows excellent performance and help provide lower operating torque during opening and closing. Different types of materials are selected for laminated metal plate depending on applications.

Solid Metal Seat

Solid metal seat ring is also available in Unicom's TOD design. Currently, Unicom uses solid metal seats in heavy duty and high temperature applications.

- Rating : ASME CL.150, 300, 600, 900, 1500 / PN10, 16, 25, 40, 60, 64, 100
- Size : DN80(3") to DN2000 (80")
- Connection Type : Double Flanged // Lugged & Wafer / Butt Weld End



Laminated metal + graphite seat



Solid metal seat



3) Quintuple Offset Valve(LSW)

- Introducing our newest patented quintuple offset valve,

This valve is based on 5 offset design, capturing

- Sealing performance of triple offset design
- Lower torque compared to double offset design
- Higher rangeability and Cv value compared to triple offset design

- Rating : ASME CL.150, 300, 600, 900, 1500 / PN10, 16, 25, 40, 60, 64, 100
- Size : DN80(3") to DN2000 (80")
- Connection Type : Double Flanged // Lugged & Wafer / Butt Weld End

* Please contact for additional sizes and class rating.

TEST FACILITIES

► Shell Test

Test Standard	API 598 / ASME B16.34 / EN 12266 / ISO 5208
Test Medium	Water, Nitrogen Gas
Allowable leakage	No Leakage

► Seat Test

Test Standard	API 598 / ASME B16.34 / EN 12266 / ISO 5208
Test Medium	Water, Air, Nitrogen Gas
Allowable leakage	Tight Shut-off (Zero Leakage) / API 598 (TOD, MTD MODEL)

- All valves go through pressure and operation tests in Unicom facilities.
- Test is conducted under the specific acceptance criteria of customers.
- Additionally, we apply Unicom test standards which are more stringent than the generally accepted test criteria in the industry.
- Test is conducted gradually from low pressure to high pressure to ensure the perfect seal in all the pressure within the design pressure.
- Since both gas test and hydro test are conducted as Unicom's internal test criteria, a perfect seal is guaranteed under any conditions, gas or liquid.



► CRYOGENIC TEST


Test Standard	BS 6364 / SHELL SPE 77/306 / KOGAS-GSM-1015	Coolant	Liquid Nitrogen
Test Temperature	-196°C±1°C	Acceptance Standard	Seat Leakage : BS 6364 (100mm3/s x DN) Outside Leakage : Shell SPE 77/306
Test Medium	Helium Gas		

- Unicom conducts the most stringent quality inspection in the test lab. Specially designed for cryogenic valves.
- Cryogenic valves are tested by soaking in the liquid nitrogen and cooling down all components to -196°C.
- The valve is tested by increasing the pressure gradually to comply with the requirements of BS6364 to assure the sealing from low pressure to high pressure.



CERTIFICATES

► System Certificate

Certificate	Institution	Scope	
	ISO 9001:2015	BUREAU VERITAS	Quality Management
	ISO 14001:2015	BUREAU VERITAS	Environmental Management
	ISO 45001:2018	BUREAU VERITAS	Safety & Health Management

► Product Certificate

Certificate	Institution	Scope
	AMERICAN PETROLEUM INSTITUTE	API 609 License
	BUREAU VERITAS	All valves of Unicom production
	BUREAU VERITAS	Butterfly Valves (TOD CX BUTTERWELD / TOD CX DOUBLE FLANGE)
	BUREAU VERITAS	Butterfly Valves (HP, GRS)
	BUREAU VERITAS	Factory acceptance
	BUREAU VERITAS	High performance Valves
	DNV GL	High performance Valves
	EXIDA	HP, TOD Valves
	UL	GRSU
	APPLUS	HP(FSD), TOD
	ABS	High performance Valves



KOREA UNICOM VALVE CO., Ltd

28-175 Bugokgongdan 4-gil, Songak-eup, Dangjin-si, Chungcheongnam-do, 31721, Korea

Domestic

Tel : +82-41-350-6181,6182,6186

Fax : +82-41-350-6189

E-mail : domestic.sales@unicomvalve.com

Foreign

Tel : +82-41-350-6174,6177

Fax : +82-41-350-6189

E-mail : sales@unicomvalve.com

Busan Sales Office

Tel : +82-51-925-6182, 6183, 6184, 6185

Fax : +82-51-925-6009

E-mail : jwlee@unicomvalve.com

Website : unicomvalve.com

E-mail : sales@unicomvalve.com / domestic.sales@unicomvalve.com

Copyright© by KOREA UNICOM VALVE Co., Ltd. All right reserved. 2022.11.