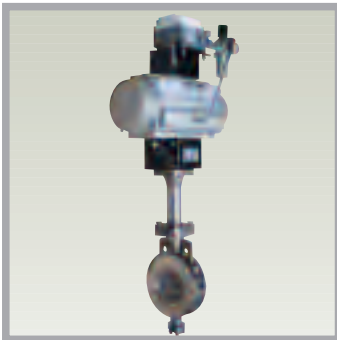
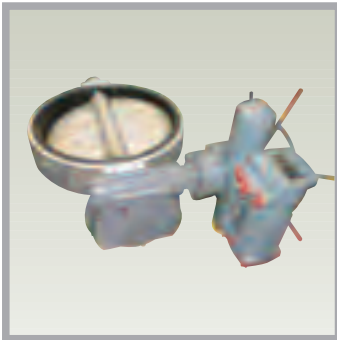




Perfect Harmony with Technology



Butterfly Valve Line Up



Valves & Controls



Since 1984.



Since 1984 when we stepped into the field of butterfly valve, we have extended a range of supply and provided advance solutions for the stringent requirements of today's process industry on the basis of the field experience and continuous research and development.

Unicom offers a complete application of butterfly valve to the power plant, district heating, gas and oil industry, chemical plant, and general service. If you have a pressure to be controlled by butterfly valve, then you can find a solution from Unicom.

Application		Power Plant	District Heating	Gas Industry	Water/ Sewage	Oil Production	Chemical	Petro Chemical	Refineries	Steel & Iron	Plant Engineering
HIGH-SEAL	GTD										
	FSD										
	MTD										
BUTT WELD	BWD										
UNI-SEAL	GRS										
	GTS										
	GFB										

Product Program

Valve Type

Model

Page

HIGH-SEAL



GTD

6-7

FSD

8-9

MTD

10-11

BUTT WELD



BWD

12-13

UNI-SEAL



GRS

14

GTS

15

GFB

16-17

Production and Quality Assurance

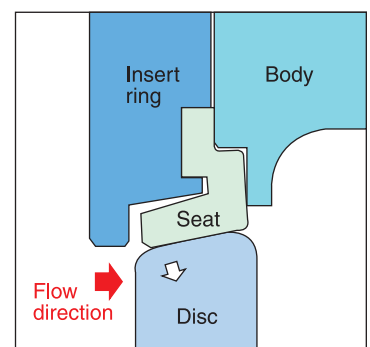
18-19

GTD

GTD designed for critical requirements has proven its reliability and efficiency in a wide range of application for more than 15 years.

Mechanism with an eccentric structure minimizes an on-off torque at high pressure, providing tight shut-off.

Carbon steel and stainless steel are standard materials for body and trim with a teflon seat. Other special materials or particular treatment on trim and body are available as per the application and service.



Sealing structure



Teflon coated body with titanium disc



GTD with Al-bronze body / Monel disc, shaft



Flange Rating :

ANSI CL. 150 / CL. 300 / CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter :

DN50(2") to DN2100(84")

Temperature Range :

-40°C (-40°F) to 250°C (480°F)

Working Pressure :

Full pressure rating

Features :

- tight shut-off
- low operating torque
- compact design
- excellent control characteristic
- anti blowout shaft design
- facile maintenance

Applications :

- general & petro chemical
- oil refinery / production
- steel and iron mill
- sugar / paper / gas industry
- shipbuilding
- combined / nuclear power plant
- water / sewage
- other plant engineering

Operating :

- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

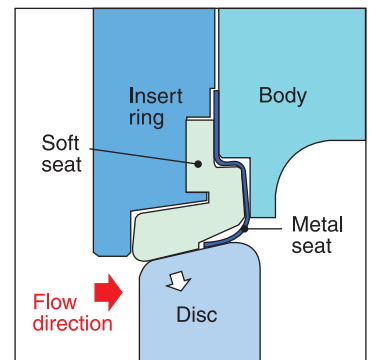
- anti-static device
- manual operator locking device
- bonnet / stem extension
- internal teflon / velzona coating
- low temperature design
- material selection for anti-corrosion,
high & low temperature
: inconel, monel, titanium, CF3M,
aluminum bronze, etc.

FSD

Having a combined function of GTD and MTD, the FSD gives a tight shut-off at nominal pressure and temperature rating.

FSD sealing system consists of reinforced teflon and metal seat. Although FSD has double seat structure, it requires relatively low operating torque.

FSD valve works with the metal seat when a teflon seat has been burned out. FSD provides the more reliability for steam and hot air line among its applications.



Sealing structure



Fire test (① → ② → ③)





Flange Rating :

ANSI CL. 150 / CL. 300 / CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter :

DN50(2") to DN2100(84")

Temperature Range :

-40°C (-40°F) to 250°C (480°F)

Working Pressure :

Full pressure rating

Features :

- tight shut-off at fire
- fire safety design
- light body weight
- compact design
- anti blowout shaft design
- facile maintenance
- excellent performance in steam service

Applications :

- general & petro chemical
- oil refinery / production
- steel and iron mill
- shipbuilding
- combined / nuclear power plant
- other plant engineering

Operating :

- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

- anti-static device
- manual operator locking device
- bonnet / stem extension
- heating jacket
- material selection for anti-corrosion, high & low temperature ;
inconel, monel, titanium, CF3M, aluminum bronze, etc.



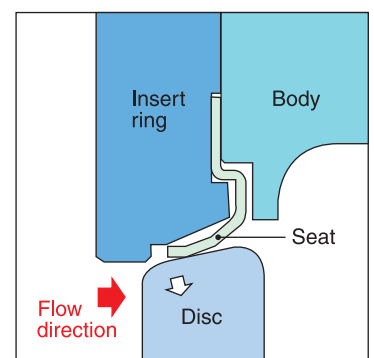
MTD

Precious metal seated butterfly valve, MTD is applicable to high temperature as well as nominal pressure and temperature.

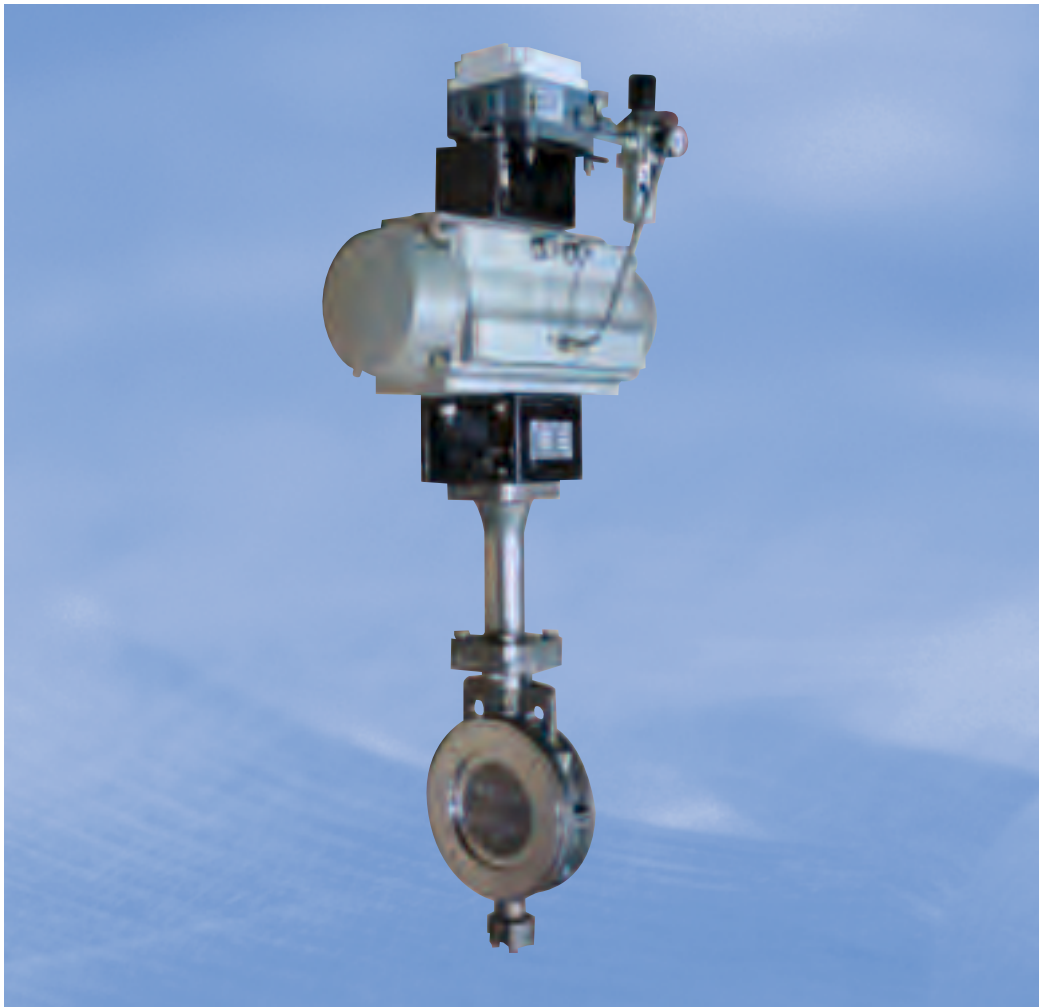
Eccentric sealing system assures a low operating torque and positive sealing.

Wide selection of valve materials ensures efficient performance in various industries.

All unicom butterfly valves are tested hydraulically and pneumatically in shop in order to secure perfect sealing and certified by third party at request of clients.



Sealing structure



Flange Rating :

ANSI CL. 150 / CL. 300 / CL. 600
PN 10 / 16 / 25 / 40 / 64

Nominal Diameter :

DN50(2") to DN2100(84")

Temperature Range :

-50°C (-60°F) to 650°C (1200°F)

Working Pressure :

Full pressure rating

Features :

- inherent fire safety design
- metal to metal sealing
- low operating torque
- anti blowout shaft design
- facile maintenance
- robust design
- fitness for high temperature steam service

Applications :

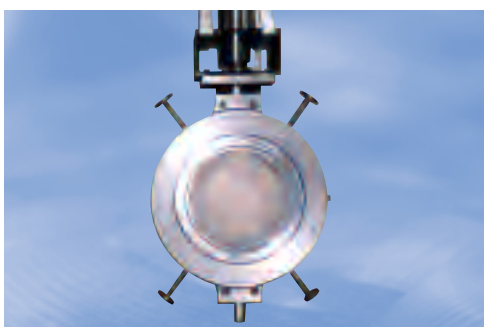
- general & petro chemical
- oil refinery / production
- steel and iron mill
- shipbuilding
- combined / nuclear power plant
- other plant engineering

Operating :

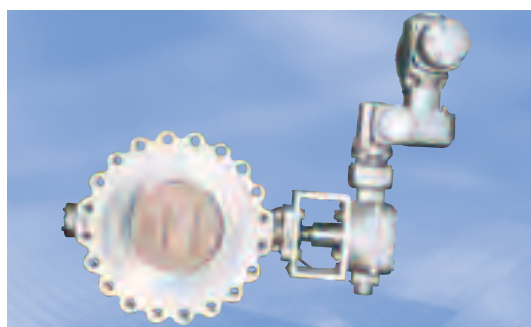
- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

- stellite / ENP on disc
- anti-static device
- manual operator locking device
- bonnet / stem extension
- heating jacket
- material selection for anti-corrosion, high & low temperature ;
inconel, monel, titanium, CF3M, aluminum bronze, etc.



Titanium V/V(Jacket type)



Control V/V assembly shop

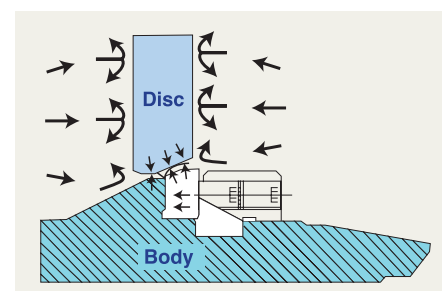
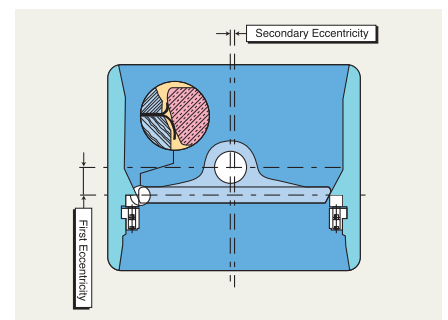
BWD

BWD series, which has two(2) metal seats, is primarily demanded by a district heating system and thermal plant where a 'Maintenance Free' valve is required.

Since the BWD valve is welded onto the pipeline, it is made of best grade of materials and designed for a long life and a reliable performance.

BWD, which is available for both butt weld and flange end connection, has a wide range of application from vacuum to high pressure and from low to high temperature.

Double metal seated sealing system provides inherent fire safety characteristic and efficient flow throttle capacity.



Sealing structure



Flange Rating :

ANSI CL. 150 / CL. 300

Nominal Diameter :

DN200(8") to DN1500(60")

Temperature Range :

Up to 650 °C (1200 °F)

Working Pressure :

Full pressure rating

Features :

- butt weld end
- tight shut - off at bi-flow direction
- double metal seated sealing
- light weight, compact design & easy Installation
- robust construction
- anti blowout shaft design
- maintenance free design

Applications :

- district heating system
- gas industry
- combined thermal power plant

Operating :

- manual worm gear
- pneumatic actuator
- electric actuator

Options :

- manual operator locking device
- bonnet / stem extension
- stellite on disc with an inconel seat
- disc ENP coating



GRS

Flange Rating :

ANSI CL. 150 / PN 10

Nominal Diameter :

DN40(1.5") to DN1500(60")

Temperature Range :

-20°C (-4°F) to 120°C (250°F)

Working Pressure :

Max. 10 Bar

Features :

- general applications
- bi-directional positive sealing
- easy maintenance
- anti blowout shaft design
- inherent anti-corrosion
- rubber liner body seat

Applications :

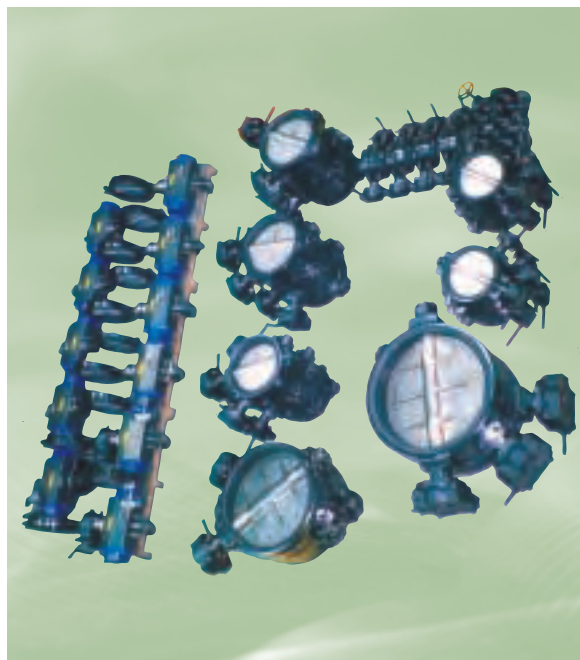
- general & petro chemical
- oil refinery / production
- steel and iron mill
- shipbuilding
- water treatment
- sea water

Operating :

- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

- teflon v-packing
- anti-static device
- stem extension
- monel / al-bronze body and disc



GRS type is an elastomer seated butterfly valve used for the process demanding positive shut-off and effective flow control.



GRS with silicon seat

GTS

**Flange Rating :**

ANSI CL. 150 / PN 10

Nominal Diameter :

DN50(2") to DN300(12")

Temperature Range :

-40°C (-40°F) to 175°C (350°F)

Working Pressure :

Max. 6 Bar

Features :

- virgin PTFE liner
- one piece PFA encapsulated disc-stem
- silicone back-up ring
- bi-directional sealing
- double structured stem packing
- low operating torque

Applications :

- general & petro chemical
- pulp / paper
- food and beverage
- steel and iron mill
- sugar refining
- sewage

Operating :

- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

- anti-static device
- manual operator locking device
- plain disc (non-coated)
- mirror polished disc



GTS, sustainable for anti-corrosive and chemical application, consists of two split bodies and one piece of disc-stem that are fully lined with teflon



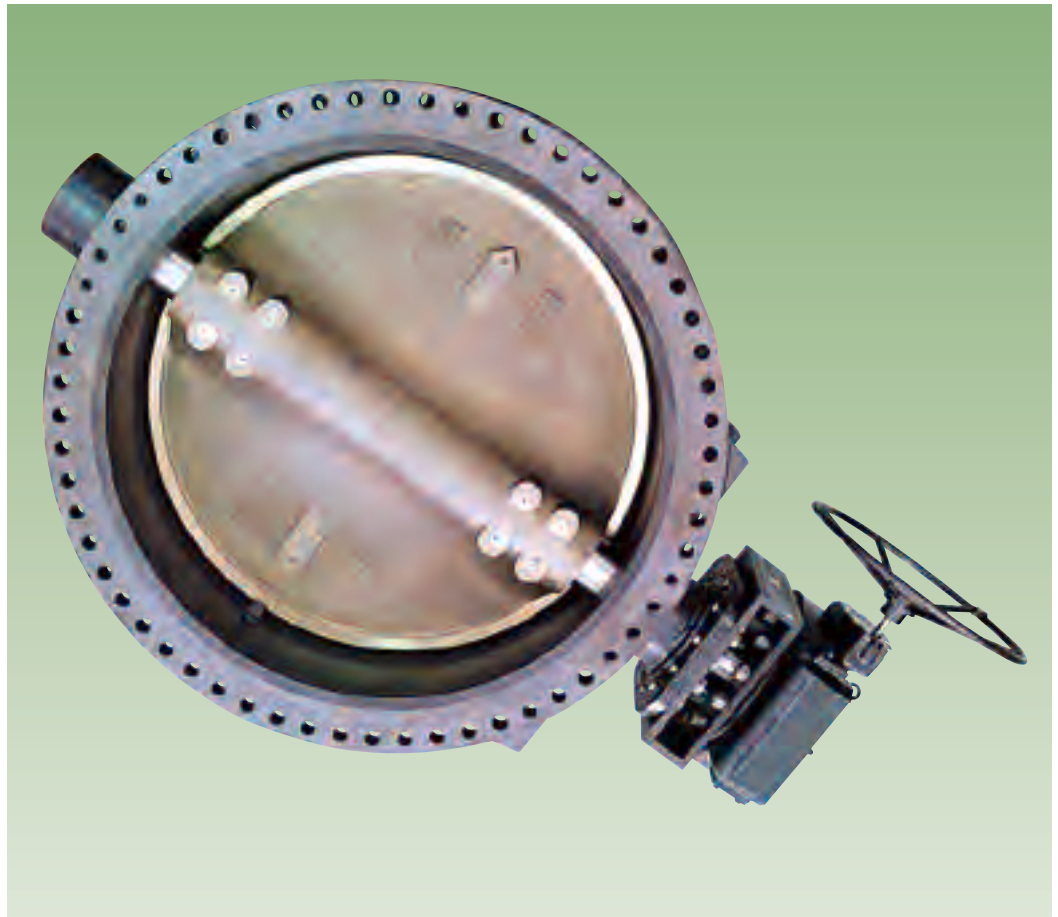
Life cycle test

GFB

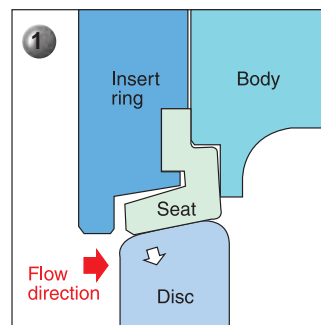
GFB, double flanged butterfly valve, has an eccentric structure enabling smooth operation and tight shut-off at any condition.

Rubber lining is applicable to the inner body for anti-corrosion duty to prevent rust and corrosion on the body.

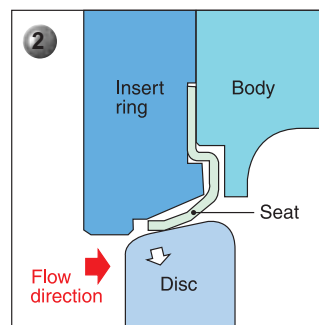
Basically GFB has a ring seat made of rubber, yet, as an option, it has a teflon or metal seat as per working condition.



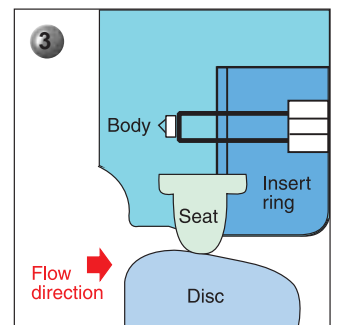
Sealing systems



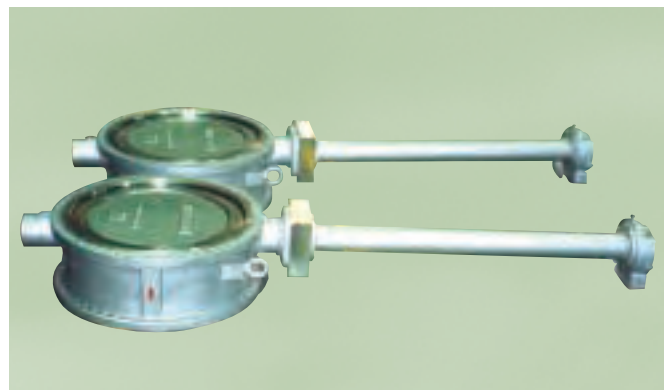
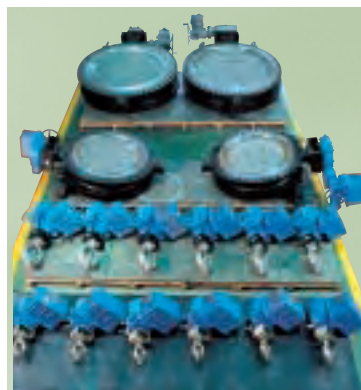
Teflon seat



Metal seat



Rubber seat





Flange Rating :

ANSI CL. 150 / CL. 300

AWWA C 504

Nominal Diameter :

DN150(6") to DN2250(90")

Temperature Range :

- Rubber Seat : Up to 120°C (250°F)

- Teflon Seat : Up to 250°C (480°F)

- Metal Seat : Up to 650°C (1200°F)

Working Pressure :

Full pressure rating

Features :

- long life
- low operating torque
- availability for various applications from water treatment to fire safe
- anti blowout shaft design
- facile maintenance

Applications :

- general & petro chemical
- refinery
- oil production (on / off shore)
- steel and iron mill
- shipbuilding
- water / sewage
- power plant
- seawater

Operating :

- manual hand lever / worm gear
- pneumatic actuator
- electric actuator

Options :

- internal rubber lining
- anti-static device
- manual operator locking device
- stem extension
- special material as per applications



Production and Quality Assurance

Factory has been modernized with facilities such as a precision machine shop, measuring and test shop, R & D section, production engineering.

Highly qualified staffs using programmed machining centers with accurate fixtures guarantee consistency with high production standards.



Machining center



Boring machine



Turning machine



Hydro & Air leak test machine



All materials used for manufacturing are maintained in accordance with strict quality assurance program and subjected to stringent quality surveillance. Prior to be dispatched, all products are inspected under the international standards and approved test plans. A modernized quality assurance system undertakes inspection and test, monitoring and controlling quality.



Measuring shop and fixtures



Control system



Low Temperature testing with helium (① → ② → ③)

In order to pursue continuous improvement, we reserve the right to change product designs and performance specifications without prior notice.



**AUSTRAL - POWERFLO
SOLUTIONS**

SYDNEY BRISBANE MELBOURNE PERTH
TOLL FREE 1300 658 701

NEW ZEALAND
Tel: 64 9 525 5454

www.austral-powerflo.com.au



KOREA UNICOM VALVE CO., LTD

SALES OFFICE:

24-2 YOIDO-DONG YOUNGDUNGPO-GU
SEOUL KOREA
TEL : 82 - 2 - 780 - 7660
FAX : 82 - 2 - 780 - 7664

HEAD OFFICE & FACTORY:

144B / 1L, NAM-DONG INDUSTRIAL COMPLEX
716, KOJAN-DONG, NAMDONG-GU
INCHEON-SHI, KOREA
TEL : 82 - 32 - 811 - 6303
FAX : 82 - 32 - 811 - 8323

Where unicom valves are being used.



Honam petrochemical HPC plant / Korea



Cadereyta refinery complex project / Mexico



Madero reconfiguration project / Mexico



RFCC project / Ghana



KOC GC-15 project / Kuwait



150000 BPSD refinery / Thailand



Nodco refinery / Qatar



RFCC project / Taiwan



POSCO / Korea



Incheon LNG tank / Korea