CONNECTION OF PIPE
INNOVATIVE SOLUTION
FOR CLEVER CONSTRUCTION

imexco international group
In cooperation with TRE EFFE
SOMETHING ABOUT US …

Victaulic, the world leader in mechanical pipe joining systems, was founded in New York City in 1925 to market a radical new concept in the piping industry — a mechanical bolted coupling that would engage into pipe grooves and use a gasket seal.

The concept of joining pipe with bolted mechanical couplings originated during World War I for rapid deployment of fuel and water lines to Allied forces. Then company began to shift its focus to commercial piping applications to market its new innovative method of joining pipe.

For more than 85 years, the company’s enthusiasm for crafting unconventional solutions has allowed it to forge new paths in new markets as it tackles the industry’s most unique challenges.
GROOVED PIPE JOINING METHOD

The grooved pipe joining method — which dramatically reduces the amount of installation time as compared to welding, threading or flanging — is now used extensively in a variety of piping applications.

Victaulic grooved products comprise a complete system:

- Rigid and Flexible Grooved Couplings
- Grooved Accessories (such as grooved strainers and grooved suction diffusers)
- Grooved Valves
- Grooved Fittings and Grooved Adapters
- Gaskets
- Grooving Tools and Accessories

The Victaulic grooved pipe joining method accommodates most piping materials, including lightwall, standard and extra-heavy steel, stainless, aluminum, PVC and other plastics, as well as high-density polyethylene. In addition, products for copper tubing (CTS) and ductile iron (AWWA) for water supply, as well as underground- and waste-treatment process piping are available.

Victaulic products are manufactured to accommodate piping standards including ANSI, DN, JIS, CIS, AS and BS.
productivity, profitability.

Victaulic pipe jointing solutions are estimated to reduce average man-hours up to 90% over existing. They have also been shown to reduce calendar days and accelerate construction to meet today’s compressed schedules. In addition, Victaulic products require no flume which enhances safety and lowers insurance costs.
FACILITY TYPE ...

- Airport
- Casino
- Chemical Plant
- Commercial Building
- Convention Center
- Correctional Facility
- Dam
- Data Center
- Government
- Hospitals/Medical Centers
- Hotel/Resort
- Industrial Plant
- Landfill
- Landmarks
- Lift Station
- Manufacturing Facility/Plant
- Mill
- Mine
- Museum
- Office Building
- Oil Plant
- Oilfield
- Parking Garage
- Petroleum Distribution System
- Power Plant
- Pumping Station
- Residential Building
- Retail
- Schools/Universities
- Sewer Bypass
- Ship Building
- Stadium/Arena
- Theater/Concert Hall
- Theme Park
- Tunnel
- Warehouse
- Water/Wastewater Plant
SOME CASE STUDIES ...

Westfire Energy Four Pad Well Site

Part of the Snipe Lake Viking formation, a brand new four well head application was constructed by Westfire Energy to produce light sweet crude oil. Having threaded all piping in the past, Westfire recognized the benefits that the Victaulic system would bring towards dramatically increasing the speed of installation.

QEP Energy Company Mutil-well Pad

In August of 2012, construction of a 16 tank battery, 4 heater treater project with multiple separators was completed east of Lake Sakakawea in, North Dakota. The contractor and owner of QEP were up against a tight construction schedule due to an increase in drilling activity as well as having additional jobs in the construction phase.

Teso Oil Refinery

Teso’s Los Angeles refinery is located in Wilmington, Calif., on approximately 300 acres. Throughout its history, the refinery has expanded and improved its operations to meet the increasing demand for clean petroleum products and to respond to new environmental regulations.

Pioneer Natural Resources CGP 51

Pioneer Natural Resources Company is a large independent exploration and production company with operations in the United States and South Africa. In November, 2011 Pioneer Natural Resources completed construction on a new oil central gathering plant in Three Rivers, Texas. The facility was created as part of Pioneer’s initiative to develop it’s substantial acreage position in the Eagles Ford Shale Play in south Texas.

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Pankyo Innovalley Cluster

Located in Seongnam, South Korea, Pankyo Techno Valley has become the Korean counterpart of Silicon Valley in the US, housing dozens of R&D and innovation companies.

Merit Energy Jackson Clearfork

By installing the Victaulic grooved products on the steel and fiberglass reinforced oil and water handling lines, Merit Energy was able to meet the high pressure requirements of the system while also experiencing ultimate cost savings over competitive joining systems.
**Pemex Marine Region Northeast**

Pemex Marine in Mexico is an offshore oil platform with sea water, drilling muds, diesel and barite cement services.

**Chesterfield Oil Battery**

When the Apache Corporation began planning for and construction of the new Chesterfield oil battery in Hobbs, New Mexico, they were looking for a piping system solution for oil and water handling lines that was not only affordable, but dependable, as well.

**J. Cleo Thompson Means**

With the help of Victaulic Construction Piping Services, the facility utilized Victaulic grooved components, including valves, on the oil and water handling lines.

**Nynas Neste Refinery**

As the plant stayed fully operational during construction works, it was of the utmost importance that installation time was kept to a minimum while still maintaining safety at the jobsite.

**Climarex/Westbrook Header Systems**

All production headers at the Climarex / Westbrook location, in the Permian Basin, were redesigned and rebuilt to allow for simultaneous testing of two production wells.

**Midkiff Battery Consolidation**

BP America relies on Victaulic piping systems at its oil storage facilities because of the reliability, ease of installation, future maintenance and past performance of the Victaulic systems.

**Juno AUCU Oil Battery**

Juno Operating Company's oil battery facility, located in Texas, gathers, treats and stores oil and gas for market sale. Juno searched for an alternative piping method over the traditional threaded piping systems.
CNOOC TBN1 Hai Yang Shi You 981 Semi-Submersible Drilling Platform

CNOOC TBN1, a semi-submersible drilling platform managed by China Oilfield Services Ltd., is rated for water depths to 10,000 ft / 3,050 m, and its drilling depth can reach up to 40,000 ft / 12,200 m.

Melrose Cone Jalmat

In January 2008, construction was completed on the field expansion of the Melrose Cone Jalmat oil tank battery in Eunice, New Mexico.

Fasken Fee Battery

Upon completion, the Fasken Fee oil battery will store crude oil that has been pumped from wells, and separate the oil, gas, and water until sold to market.

Bass Enterprises Oil Battery

Bass Enterprises Oil Battery facility, located in New Mexico, gathers, treats and stores oil and gas for the purpose of selling. Additionally, the facility serves as a water disposal. Bass Enterprises looked to Victaulic products for installation of piping lines for oil and water handling.

Kalgoorlie Nickel Smelter - Fire Water Distribution Ring Main

As part of the Kalgoorlie Nickel Smelter upgrade a new fire water ring main was installed around the site with a large majority of the pipes being buried service applications.

Merit Energy Muldrow Waterflood

The 2005 construction of the Merit Energy Muldrow Waterflood included the installation of a complete Victaulic system including the Style HP-70 high pressure couplings, Series 712 check valves, Series 726 ball valves and grooved end fittings.

GS Caltex Heavy Oil Upgrade No. 2

GS Caltex HOU No.2 project is constructing the second plant that converts heavy oil into cleaner-burning transportation fuels such as gasoline and diesel.
**COSL 937 Jack-up Rig**

The COSL 937 oil and gas exploration jack-up rig, which has reached depths of 30,000 ft/9,144 m, is equipped with the world's most advanced and complex drilling technology. The COSL 937 will officially launch in 2010.

**Caltex Crude Wharf Upgrade**

Caltex required an innovative piping solution for the water and foam fire protection systems to their crude wharf upgrade project in Brisbane, Queensland. The existing crude wharf has been rebuilt and fire systems upgraded to increase the wharf capacity.

**McCabe Energy Campbell Battery**

McCabe Energy Campbell Battery in Kermit, Texas is an oil storage and treating facility.

**Celero Energy Central Battery**

In August 2008, construction was completed on the Celero Energy Central Battery in Caprock, New Mexico. This project included the addition of a new water injection vessel which will allow for previously drilled wells to produce at a higher volume and increase revenue for Celero.

**Samson Lonestar**

In March 2008, construction was completed on multiple facilities for Samson Lonestar in Seminole, Texas. Twelve tank battery hook ups were installed giving Samson Lonestar the ability to drill more than 150 wells and tie them into their new facilities through header manifolds.

**Mariner #12 Tank Battery**

The Mariner #12 Tank Battery stores crude oil that is pumped from wells and separated into oil, water, and gas which is then transferred and sold to market. Mariner looked to Victaulic products as an alternative to a threaded product system for installation of oil and water handling lines.

**Sevan Driller**

Based on Sevan's own patented technology, the Sevan Driller, which will run for Petrobas in the Santos Basin off of the Brazilian coastline, will have a capacity of drilling wells up to 40,000 ft./12,000 m in water depths of up to 12,500 ft./4,000 m, a variable deck load of more than 15,000 metric tons and high storage capacity of bulk materials.
**Pride Mad Dog Drilling Rig**

When working offshore, fast installation, no welding and reliability are a priority. The Pride Mad Dog Drilling Rig chose Victaulic for ease of disassembly and reassembly of grooved pipe joints and valves in order to minimize downtime.

**Concho Tank Battery**

Upon completion, the Concho oil battery will store crude oil that has been pumped from wells and separate the oil, gas, and water until sold.

**COSL 941 Offshore Jack-Up Drilling Rig**

COSL 941 is the first self-constructed 400-foot jack-up rig locally built by China Oilfield Services Limited. Construction of the rig was challenging because the design of the vessel, major equipment and facilities needed to meet advanced international standards.

**Noble Roger Lewis Jack-up Drilling Rig**

The Noble Roger Lewis is designed to operate in water depths up to 400 ft/122 m and is equipped to drill wells in high-pressure and high-temperature environments up to 30,000 ft/9,144 m deep.

**Crownquest Mary Foster Central Battery**

In order to meet the fast track construction schedule set for the Crownquest Mary Foster Central Battery, the owner chose the total Victaulic grooved system for the oil and water handling systems.

**Pioneer Bailey A1**

The 2008 construction of the Pioneer Bailey A1 oil tank battery in Midkiff, Texas included a total Victaulic grooved system installation.

**Pride Bulk System Mad Dog BP**

Victaulic provided a piping system that reduced down time involving maintenance of the highly abrasive systems that are also subjected to conditions encountered on the open sea.
Burnett Oil Battery

The Burnette Oil Company completed construction of a new oil battery in January of 2010. The facility, located in New Mexico, will store, treat, and sell crude oil.

Case Studies

Leatop Plaza

Leatop Plaza is a 300 meter tall skyscraper located in Guangzhou, China. The building was designed and constructed with an emphasis on sustainability and has received a LEED certification from the US Green Building Council. Once completed, the Leatop Plaza will house over 100,000 square meters of office space.

The Vista Residences

The Vista is a complex of residential and serviced apartments, offices and retail outlets in Ho Chi Minh City.

Vattanac Capital Tower

Located in Phnom Penh, the Vattanac Capital Tower will house a banking headquarters, office, high-end retail facilities and luxury serviced apartments. At 39 stories and 185 meter, the tower will be the tallest building in Cambodia, and the first Grade A, LEED Certified development in the country.

Matadero de Madrid

The "Matadero de Madrid," the historical slaughterhouse of the city will soon become a contemporary art exposition center. The first stage of the project involves the district heating and cooling, followed by the addition of a large mechanical room in the reconstructed building. Once completed, it will become one of the most culturally significant buildings in Madrid.

HQB Hackesches Quartier

The HQB Hackesches Quartier is a shopping and entertainment center, located in Berlin. This project was on a fast-track schedule, and the Victaulic Advanced Grooved System was used on the heating and cooling systems in order to meet construction deadlines. The Advanced Groove System, a no flame or fume pipe joining method allowed for a safe and clean jobsite.

Köki Terminál

The Köki Terminál is one of the busiest transport hubs in Budapest and, once completed, will become so much more than the average shopping center. The development, with its quality services and domestic and international store fronts, will aid in the renewal of the Kőbánya-Kispest interchange.
Changsha Bosch

In Changsha, Hunan Province, China, Bosch China opened a new 7000 square meter facility to hold a plant and laboratory. When choosing products to be installed on the HVAC and Fire Protection systems, Victaulic piping products were selected because they provide reliable system connections that save time, money and space. Victaulic provided couplings, fittings, valves and accessories to be installed on the chilled water and mechanical room systems.

GS Retail

Located in Anyang, South Korea, the GS Retail Building houses offices and retail department stores.

La Tour First - CB31 Tower - Phase II

The CB 31 or First Tower in the Défense business quarter of Paris was originally constructed in 1974 and since 2007 has undergone a major internal and external transformation.

Shanghai Taiping Finance Mansion

Located in the Lujiazui finance zone of Shanghai’s thriving Pudong district, the Shanghai Taiping Finance Mansion covers a total area of 110,000 m2 and reaches 216 meters high.

West Pender Place

One of the most prominent high rise residential/commercial construction projects of 2011 in Vancouver.

Tower 185

One of Frankfurt’s new skyscrapers, Tower 185, will be located at a central location, between the trade fair, the main station and the banking district.

Nile City Towers

Because of the height of the towers, the project pushed local design and installation limits. The Victaulic grooved pipe joining method was chosen as the total system provider for the project because of it’s ability to accommodate the tight space constraints in the riser shafts which was a result of a small site footprint.

Ferrari World

One of the most technically impressive projects in the region, Ferrari World Abu Dhabi required a fire protection system that could match the prestige and challenge associated with its illustrious name.
Mesaieed Independent Power Plant

To boost their economy and thereby drive further industrial and corporate development, the government of Qatar relies heavily on electrical power.

Abu Dhabi National Exhibition Center

The complexity of the building and its sheer size meant that large diameter piping had to be used throughout the chilled water system.

Sulaybia

Sulaybia, the largest membrane-based water treatment plant in the world, was designed to recover the wastewater of Kuwait City.

Kayan Utilities

Kayan Utilities, a large Sabic chemical complex located in Saudi Arabia, processes and manufactures ethylene and other chemical derivatives.

Alexandria Library

Protecting priceless national treasures required a piping system that offered unparalleled reliability. Victaulic products were specified and installed to provide that service.

Yansab Olefin Plant

The Yansab Olefin Plant in Yanbu, Saudi Arabia, one of the world's largest petrochemical plants, produces four million tons per year of petrochemical products, including ethylene, propylene and polyethylene.

Inland Petroleum Distribution System

From Desert Storm to Iraqi Freedom, the U.S. Military needed a rapid deployment system for jet fuel to support military front lines.
Minimize risk to your schedule and your bottom line.

Victaulic works with your business from design through construction to ensure your project runs as efficiently as possible.

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Design to Construction

- Estimating
- 3D Modeling for multiple platforms (Revit, MEP, etc...)
- BIM Coordination Packages can help reduce man-hours, calendar days and unexpected costs.
- Product Specification and Selection Services
- Value Engineering such as accommodating system movement, vibration attenuation, system flexibility, alignment ease, etc.

Lean Construction

- Lean Prefabrication Concepts can increase through-put by removing bottlenecks.
  - Lean manufacturing concepts applied to fabrication shop and field
  - Lean fabrication shop evaluations
  - Vic-Fabrication Cell
- Virtual Truck Loading Software allows for "one-touch" fabrication. patent-pending

Integrated Supply Chain

- Safer System Installations translate to fewer man-hours, lower costs and less exposure to risk.
- Bag and Tag Services minimize material handling.
- Coordinated Shipments deliver product when and where you need them.
- Training and Continuing Education Opportunities
- Inspection Services places a guarantee on the pipe installation for the life of the system.
- Full Scope Product Offering
Apply to our Technician experience

imexco international group

Via B. Bono, 8 - 24121 Bergamo (Italy)
tel. +39 035 247278  fax +39 035 4131658
imexco@imexco-italy.com
web: www.imexco-italy.com