SYNTEX ENERGY CO., LTD.





2 About us.

Syntex Energy was founded in 2004 as authorized distributor in Thailand for quality brands of valves and industrial products for Onshore & Offshore Oil & Gas Exploration and Production Facilities.

VISION

Be the premier distribution company of Industrial Products to the energy and industrial markets, especially in the upstream & downstream of Oil & Gas sector

MISSION

To provide quality products from reliable manufacturers, premium services and consistent delivery, in order to achieve customer's satisfaction and principal's commitment

Contents

About us

Product Overviews

Project Management Process

Project Reference

Contact

3 Background.

2004

Registered on 2nd Sep as Syntex Technology Co., Ltd

Initiated business with seals and O-ring products

2005-07

Authorized dealers of

- Parker Seal Group,
- Trelleborg Germany Seal Group and
- Martin Fluid Power USA for Industrial and Oil Field seals and O-rings exclusively in South East Asia

2008-10

Authorized dealers of Apollo Valves

Name changed to **Syntex-Energy Co., Ltd**

Expansion of business to offshore industry

Exclusive distributors of FMC Fluid Control Division and Vimec Italy Valves

2011-15

Exclusive distributor of Japanese Sasakura Fresh Water Maker, Mir Valves – Italy, Vimec Italy Valves for SEA, and, EATON GROUP- Offshore field and Umbilical Hose

Target Countries

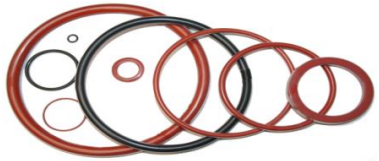
- Vietnam
- Malaysia
- Burma

4 Background.



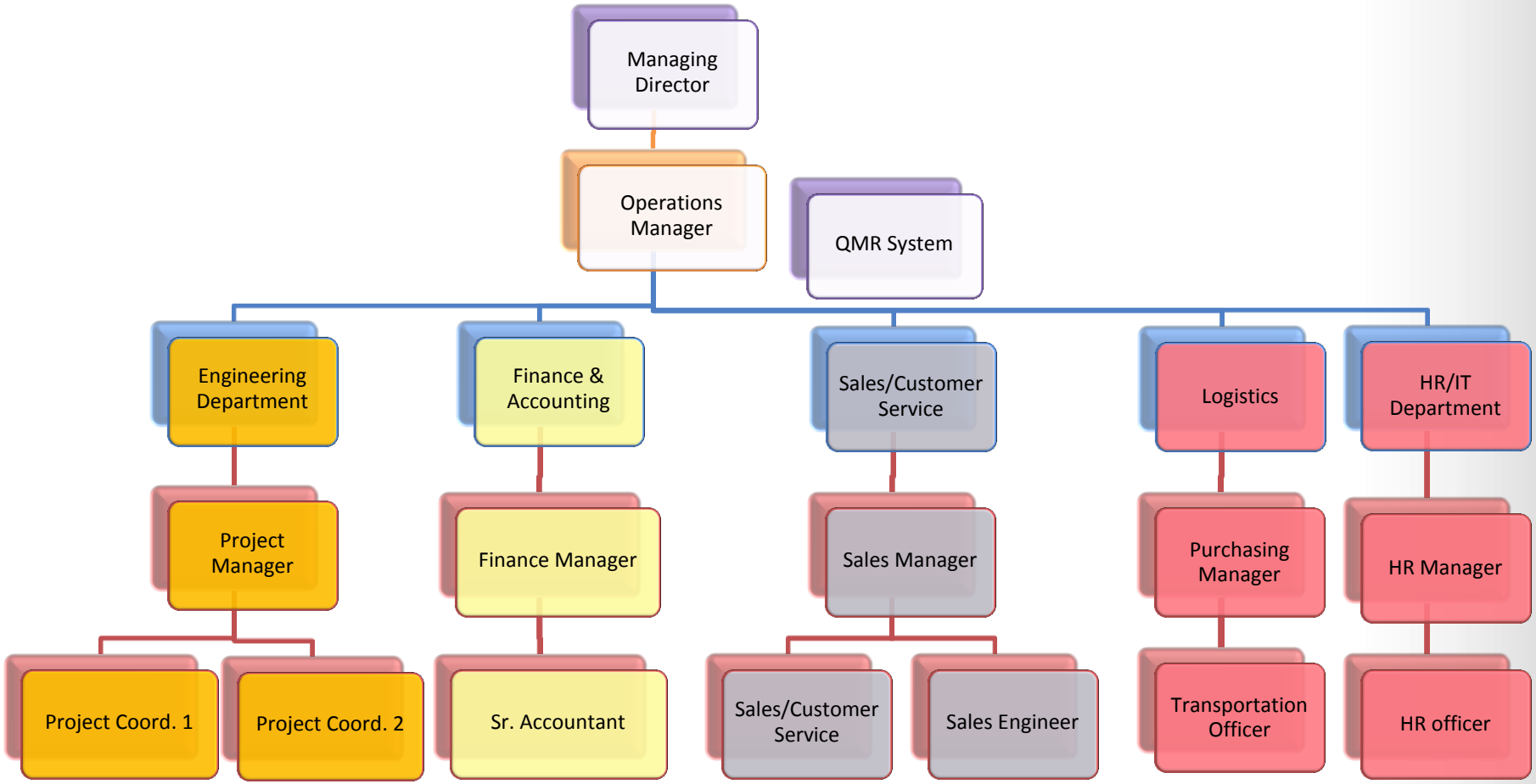






- Valve Products
- Fluid Power Products
- Fresh Water Maker
- Offshore Waste Compactor
- Seals and O-rings

5 Organization Chart.



Managing Director
Mr. Bamrung Pinthong

Operations Manager
Ms. Jirawan Koetcharin

Project Manager
Mr. Charles Liggayu

6 Existing Markets.

OIL AND GAS

- Chevron Thailand
- PTT Exploration and Production PLC
- Mubadala Petroleum
- Esso Khon Khen
- EMAS

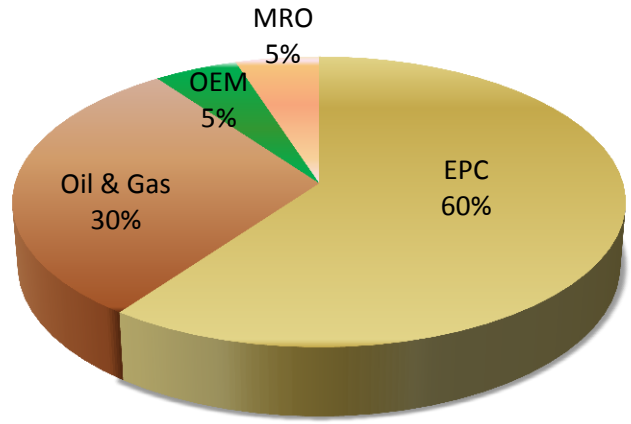
EPC

- Thai Nippon Steel & Sumikin Eng. & Const. Corp., Ltd
- CUEL
- CTCI
- Worley Parson
- TTCL

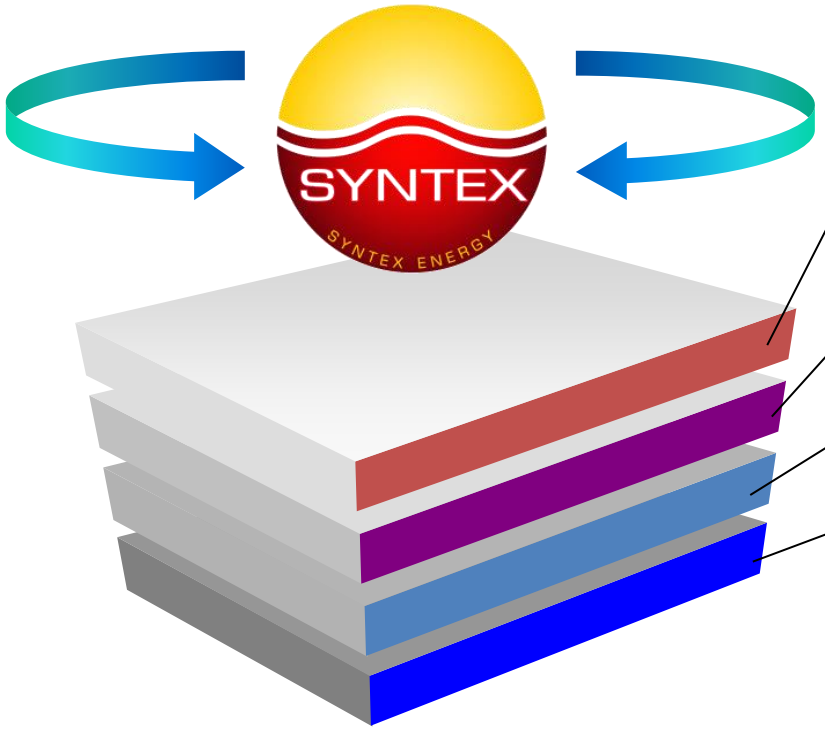
PETROCHEMICAL

- IRPC
- Indorama group
- PTTEP
- Dow Chemical

Existing Market Share



7 Target Markets.



- Increase MRO customers through Blanket Purchase Agreement (BPA) or Contract Pricing Agreement
- Power Plants, Cement Plants, Refinery, Petroleum
- Valves & Piping Products -Building Sector
- Fluid Control Products- According to Industrial Requirements





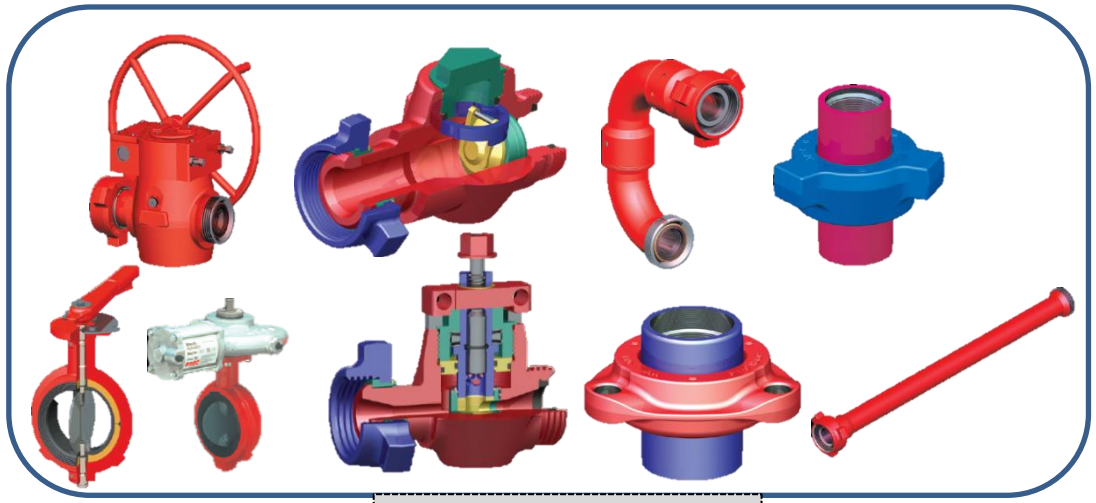


VALVE PRODUCTS

9 FMC Technologies.

Fluid Control

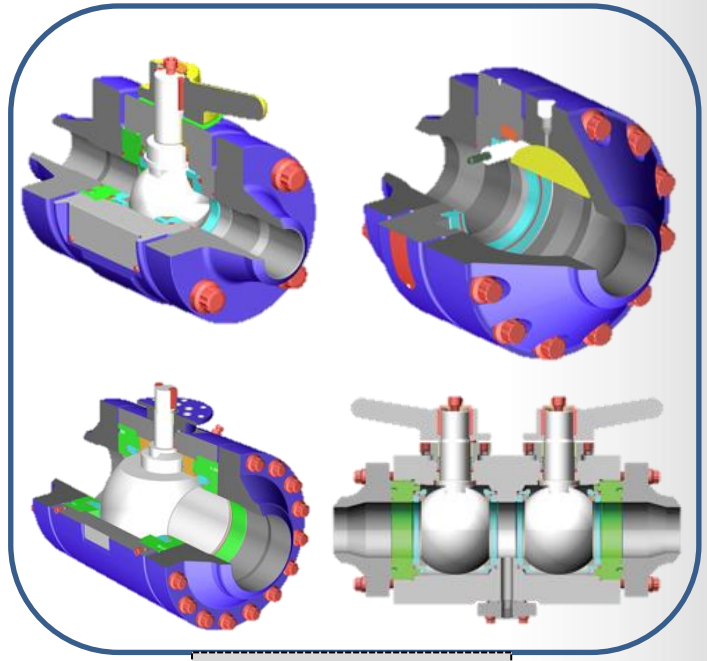
The products from FMC Technologies- Fluid Control are as listed below:



FLOWLINE PRODUCTS

FLOW LINE

- Weco Valves
- Swivel Joints
- Weco Unions



COMPACT VALVES

COMPACT VALVES

- Compact Ball Valves
- Compact Check Valves

10 FMC Technologies.

FMC Technologies

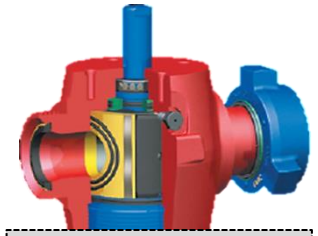
Flowline Products:

- ✓ Weco Valves
  - Plug Valve
  - Check Valve
  - Throttle Valve
  - Pressure relief Valve
  - Butterfly Valve
- ✓ Swivel Joints
- ✓ Weco Unions
  - Wing Union
  - Hammerless Union
  - Spanner Wrench, short tool, long tool, and Round wire brush

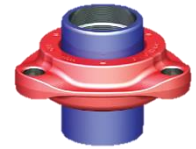
FLOW LINE



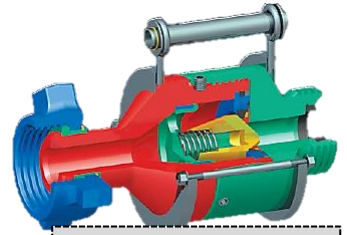
Swivel Joints



ULT PLUG Valve,≥3”



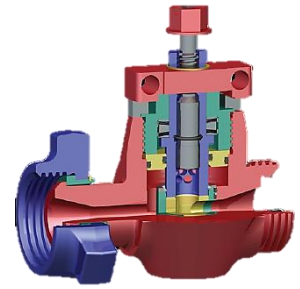
Hammerless Union



Dart Check Valve



Butterfly Valve



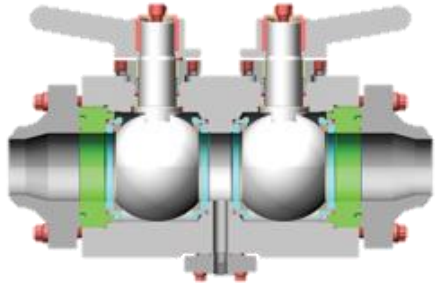
Choke Throttle Valve

FMC-Compact Valves.

FMC Technologies

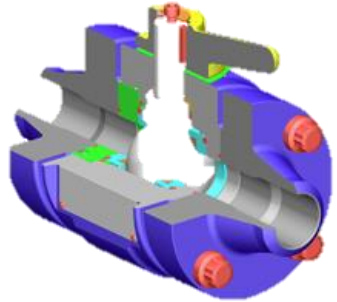
Compact Ball Valves

Double Ball Valves



- ✓ Threaded retainers can hold valve pressure with or without end connections
- ✓ Single piece body with two valves creates two physical barriers between pressure and downstream work

Floating Ball Valves



- ✓ Compact floating ball valves provide proven reliability and improve bottom line performance where space and weight are critical for offshore high pressure needs

💡 Compact design improves savings in system weight and size

Double Ball Valves

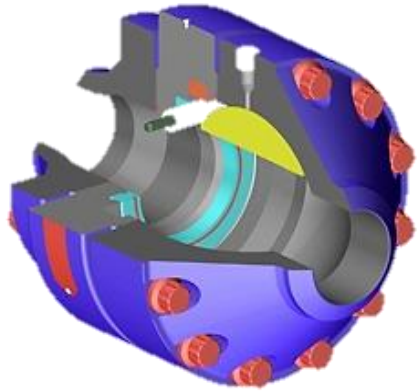
Size	1" -12"
Class	ASME 1500, ASME 2500, API 10000

- Designed according to API 6A
- Compliant to NACE MR0175-2003
- End connection compliant to ASME B31.3 ch. 9 and ASME B31.8
- Fire tested according to API 6FA, API-607 and BS 6755 part 2

12 FMC-Compact Valves.

FMC Technologies

Compact Check Valves



Size	Old Length inches (mm)	New Length inches (mm)	% Difference
2”	14.50 (368)	8.94 (226)	38%
3”	16.50 (419)	11.25 (286)	32%
4”	19.50 (495)	13.00 (330)	33%

- ✓ Stainless steel seat for superior corrosion resistance
- ✓ Flapper spring loaded for low pressure sealing performance
- ✓ Tailpiece designed to allow valve to fully open while reducing valve length
- ✓ Body generally less than half the length of previous compact check valves saving additional space and system weight
- ✓ Large flange gap allows for three-part paint systems to prevent corrosion
- ✓ Seat seal ring out of direct flow path for long life

Compact Check Valves

Size	1” -12”
Class	ASME 1500, ASME 2500, API 10000

- Designed according to API 6A
- Compliant to NACE MR0175-2003
- End connection compliant to ASME B31.3 ch. 9 and ASME B31.8
- Fire tested according to API 6FD

13 Vimec Valves.



DOUBLE BLOCK AND BLEED VALVES



NEEDLE VALVES



MONOFLANGES

Products

Double Block and Bleed Valve

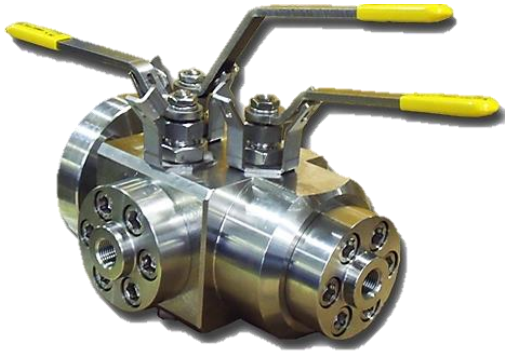
- Integral Type
- Modular Type
- Compact Type

Needle Valve

Monoflanges

14 Vimec-DBB Valves.

Integral



- ✓ Various configurations are:
  - ➢ Flange to Flange
  - ➢ Flange to thread
  - ➢ Injection and sampling with Ball and Needle configuration

Modular



- ✓ Various configurations are:
  - ➢ Raised Face
  - ➢ Ring Type Joint
  - ➢ Hub Connections
  - ➢ Butt Welded Ends
  - ➢ Lever or gear operated

Equipped with drain needle/ ball valve mounted between two balls

- ➢ Can drain the valve
- ➢ Reset pressure to zero

Integral

Applications	Instrumentation Systems
Size	½" -3"
Pressure range	150 -2500 Lbs API 3000-API 10000
Design Standards	**API 6D, ANSI, ASME, British Standards etc.**

Modular

Applications	Two independent balls in one valve body • Positive shut off with max. safety
Size	½" -3" Instrumentation 1" -24" Pipeline Valves
Pressure range	150 -2500 Lbs API 3000-API 10000
Design Standards	**API 6D, ANSI, ASME, British Standards etc.**

15 Vimec- Valves.

Compact Valves



Monoflange Valves



- ✓ Available from:
  - ➢ 4mm to 10mm
- ✓ Typically used in gas gauge pressure instrument applications
  - ➢ Minimizes the size and the weight of the pipeline valve assemblies used for primary/ and or secondary isolation, vent and calibration

Needle Valves



- ✓ Various End Connections are:
  - ➢ Threaded
  - ➢ NPT
  - ➢ BSPT, BSPP, SW and
  - ➢ BW

Compact Valves

Applications	Can be installed on existing pipeline without need for any pipeline re-working
Size	2" -36"
Pressure range	150 -2500 Lbs
Design Standards	**API 6D, ANSI, ASME, British Standards etc.**

Needle Valves

Applications	Chemical, Petrochemical and pharmaceutical
Size	¼" -1.1/2"
Pressure range	6000, 1000, 15000 psi
Design Standards	**API 6D, ANSI, ASME, British Standards etc.**

16 Alco Valves.

Alco Valves
Industrial Valve Manufacturers
The Valve & Manifold Company

Alco Hi-Tek
Double Block & Bleed & Piping Interface Solutions

Alco Process Valves Limited

Alco Sub-Tek
SUB SEA VALVE ENGINEERING
A Member of the Alco Valves Group.

Products

Alco Valves
- Ball Valves
- Needle Valves
- Check Valves
- Manifolds and accessories
- Distribution Manifolds

Alco Hi-Tek
- Pipeline Ball Valves
- DBB Valves
- Gate Valves

Alco Process Valves
- Globe Valve and Gate Valves
- Trunnion mounted ball valve

Alco Sub-Tek
- Sub-Sea Ball Valves

17 Alco Valves.

Alco Valves
Industrial Valve Manufacturers
The Valve & Manifold Company



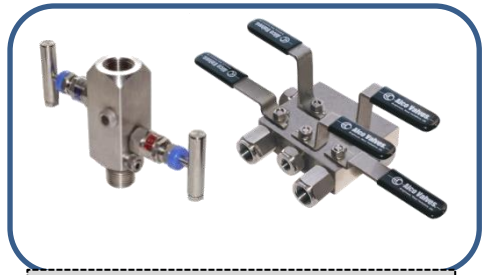
Ball Valves



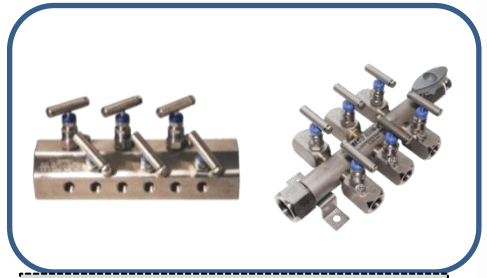
Check Valves and Accessories



Needle Valves



Manifold and Gauge Valves



Distribution and Manifolds

Ball Valves

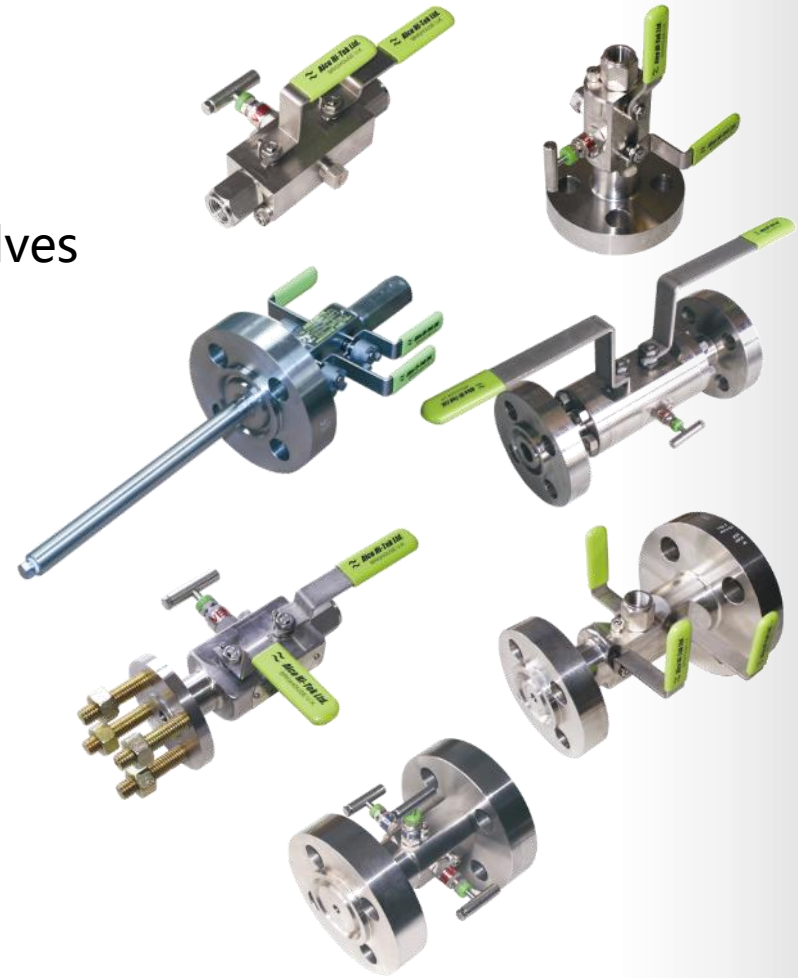
Size	1/8″ -2″
Pressure range	**Vaccum to 10,000 psi**
Materials	316ss, Duplex, Monel, Ali-Bronze, Hastalloy, Titanium and more.

18 Alco Valves.

Alco Hi-Tek®
Double Block & Bleed & Piping Interface Solutions

Products:

- ✓ Double and Block Bleed (DBB)Valves
  - Bolted
  - Forged
  - Screwed X Screwed
  - Flange X Screwed
  - Triple Flange
  - Mono-Flange
  - Sampling
- ✓ Gate Valves
- ✓ Pipeline Ball Valves



DBB Valves

Size	Upto 8”
Pressure range	Vaccum to 10,000 psi
Materials	Forged A182, F316-F316L, A350 LF2, A182 F44-6MO, A182 F51 Duplex, A182 F55 Super Duplex and others.

19 Apollo Valves.

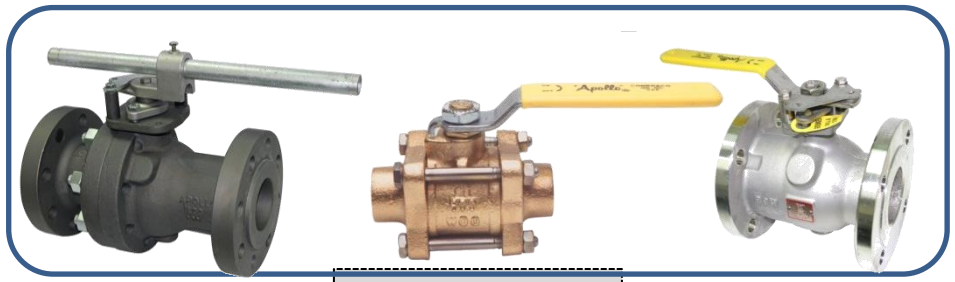
Products

Butterfly Valves
Ball Valves
Check Valves
Gate and Glove Valves

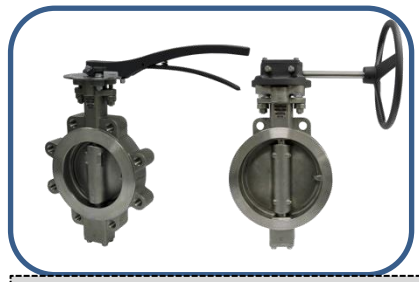





20 Apollo Valves.



Ball Valves



Butterfly Valves

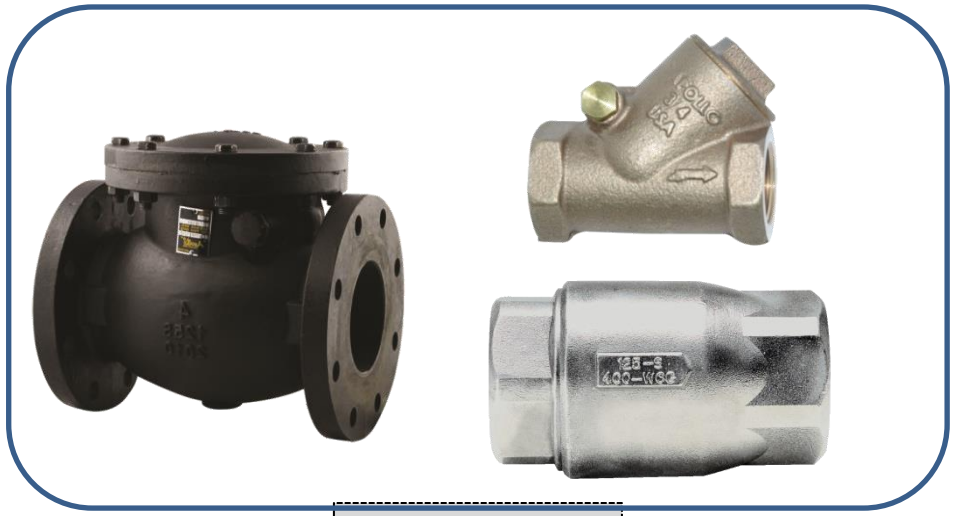
Ball Valves

Size	1/2" -12"
Bore	Full bore, reduced bore
Materials	Bronze, Carbon Steel, Stainless Steel, Alloy
Connections	NPT, Flange, Butt Weld, Socket Weld

Butterfly Valves

Style	Wafer and Lug Body
Size	**2" -24"**
Class	150-300
Materials	Ductile Iron and Cast iron
Disc	Aluminum Bronze, Ductile Iron/ A536 Nickel Plated, Stainless Steel/CF8M

21 Apollo Valves.



Check Valves



Gate and Glove Valves

Check Valves

Size	2" -24"
Style	Wafer and Lug body
Materials	Bronze, Carbon Steel, Stainless Steel, Alloy

Bronze Gate, Glove Valves

Style	Threaded and Union Bonnet
Size	¼" -3"
Stem	Raising and non-raising stem
Connections	NPT

Cast Iron Gate, Glove Valves

Style	Bolted Bonnet
Size	2" -24"
Stem	Raising and non-raising stem
Connections	ANSI 125# & 150# Flanges

22 MIR Valve.







Products

Top-Entry Ball Valves

Twin Ball Valves

Side-Entry Ball Valves

Welded Ball Valves

Through Conduit Gate Valves

23 MIR Valve.

- Manufactured in Malaysia, with experienced engineers from Italy
  - ❖ European Technology
  - ❖ Strategic location for quickest delivery in South East Asia



MV1 Top Entry Ball Valve

✓ Forged or cast body design



MV5 Side Entry Ball Valve

✓ 3 piece welded body construction



MV3 Side Entry Ball Valve

✓ 3 piece bolted body construction

Trunnion Ball Valves

Size	2″ - **60**″
Class	**150-2500**
Seat	Soft and metal seated
Bore	Full and reduced bore
End connection	RF, RTJ, WE and PUPS

24 Europa Valve.

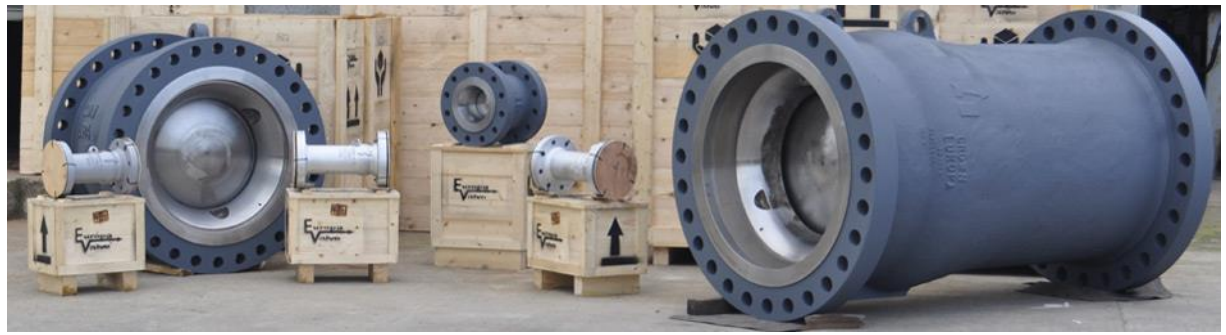


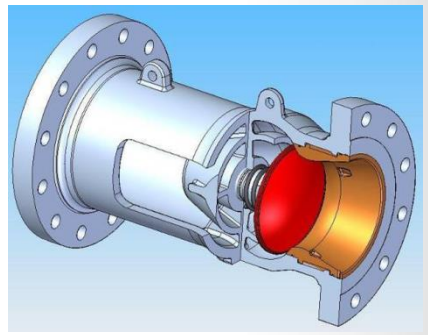
Products

High Integrity Non-Slam Check Valves

- 150 series Venturi Check Valve
- 300 series Venturi Check Valve
- 600 series Venturi Check Valve
- 900 series Venturi Check Valve
- 1500 series Venturi Check Valve
- 2500 series Venturi Check Valve

Europa Valve.





Non Slam Check Valve

Size	2″ – **60**″
Class	150-2500
Body Materials	ASTM A 395a, ASTM A 352, ASTM A 216, ASTM A351, ASTM A217, UNS S 31803
Disc Materials	Stainless Steel, Alloy Steel, 11-13 Chrome, Duplex
End-End connections	Flanged, Hub Ended, Weld Ended

NON SLAM CHECK VALVES

- ✓ Protect equipment from damage caused by reverse flow
- ✓ Better energy savings as a result of low pressure drop
- ✓ Elimination of water hammer
- ✓ Low maintenance costs
- ✓ Flexibility to adopt to variable flow conditions
- ✓ API 6D end to end dimensions permit interchangeability with conventional swing check valves without expensive piping modification

Rexroth Bosch Group
Parker
DENISON Hydraulics
Commercial Hydraulics
EATON
SAUER DANFOSS
Kawasaki
HAWE HYDRAULIK
Linde
TOKIMEC
KYB
NACHI
DAIKIN
Oilgear
YUKEN
Tobul Accumulator
MFP

Fluid Power Products

27 Fluid Power Products Overview.

- ✓ Hydraulic Pumps
- ✓ Motors
- ✓ Control Valves
- ✓ Cylinders
- ✓ Accumulators, and
- ✓ other similar products



- ✓ Seals
- ✓ O-rings
- ✓ Oil seals, and
- ✓ Similar product lines



- ✓ Hose fittings
- ✓ Hose
- ✓ Tube fittings,
- ✓ Quick Couplings



- ✓ Filtration



Fluid Power Products Overview.

Our Existing Markets



On-Shore and Off-Shore Oil & Gas Equipment



General Industry & Heavy-Duty Mobile Equipment



Heavy Industry (Power Plant, Steel, Cement, and Paper)



Offshore Transportation

Fresh Water Maker Products

30 Sasakura-Freshwater Maker.

SASAKURA ENGINEERING CO.,LTD.

Makes fresh water from sea water



Plate Type Fresh Water Generator (EX-Series)

Plate Type Fresh Water Generator (EX-Series)

- ✓ Takes up less installation space,
- ✓ Easy maintenance/inspection work



Fresh Water Generator series X

Fresh Water Generator series X

- ✓ This is the most popular distiller for diesel-driven ships, and more than 10,000 sets have been delivered all over the world.

Reference Project

Client	Chevron Thailand Exploration and Production Ltd.
Destination	Benjamas Explorer Production (BXP)
Model	Model KM80 / Sasakura Water Fresh Water Generator 70 ton/day, 2PPM Max Salinity



Offshore Waste Compactors

32 Tech Oil Products-Waste Compactor.



MODEL 4000CB Compactor / Baler



MODEL 3000, 4000, 5000 ROLL BACK COMPACTOR



MODEL R6x2 MULTI-BIN RECYCLING COMPACTOR

Offshore waste compactor

- ✓ Simple, Safe, Reliable Operation
- ✓ MARPOL Compliant
- ✓ In 33 square feet, you get a 40 cubic foot trash compactor and a 30 cubic foot baler
- ✓ Totally Enclosed - No moving parts to come in contact with operator
- ✓ Manual hydraulic operation on all units

Reference Project

Client	Chevron Thailand Exploration and Production Ltd.
Destination	Platong Stores (PS)
Model	4000CC Roll Back Waste Compactor
Delivery	2014

Client	Chevron Thailand Exploration and Production Ltd.
Destination	Platong Stores (PS)
Model	4000CB General Waste Compactor / Baler Non-Explosion Proof Electric Operating System
Delivery	2012

Seals and O-Rings

34 Seals and O-Rings



Kalrez® PERFLUORELASTOMER PARTS

Wide range of temperatures
(-20°F to 615°F, -29°C to 324°C).

Chemraz®

Greene Tweed The Inside Advantage®

Parker

ULTRA PAROFLUOR™

FEP/PFA Encapsulated 'O' Rings.



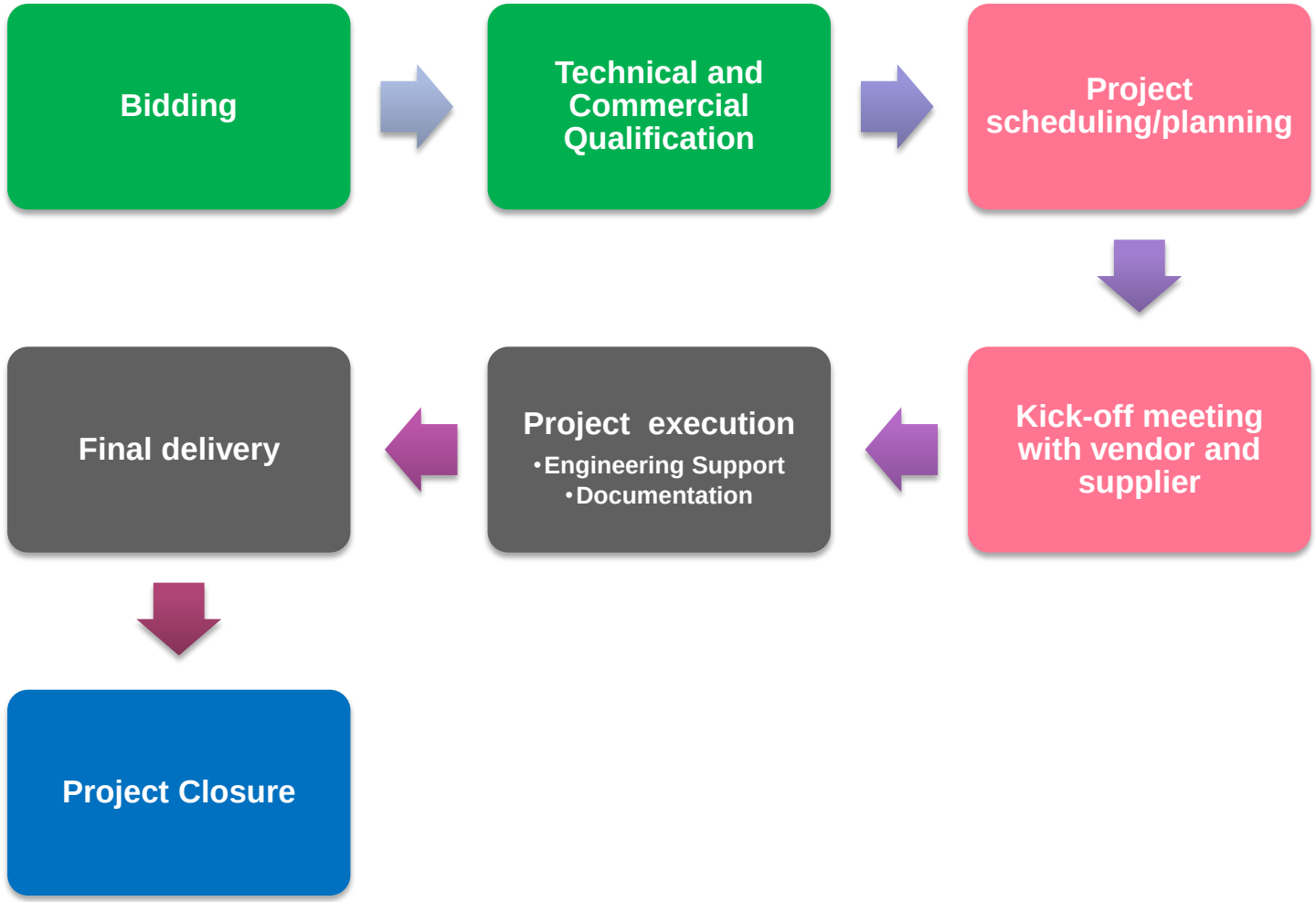
Quality FEP/PFA Encapsulated 'O' Rings at the most competitive prices, available in VITON and Silicone

VULCAN

Project Management Team

36 Project Management.

Process Flow



37 Project Management.



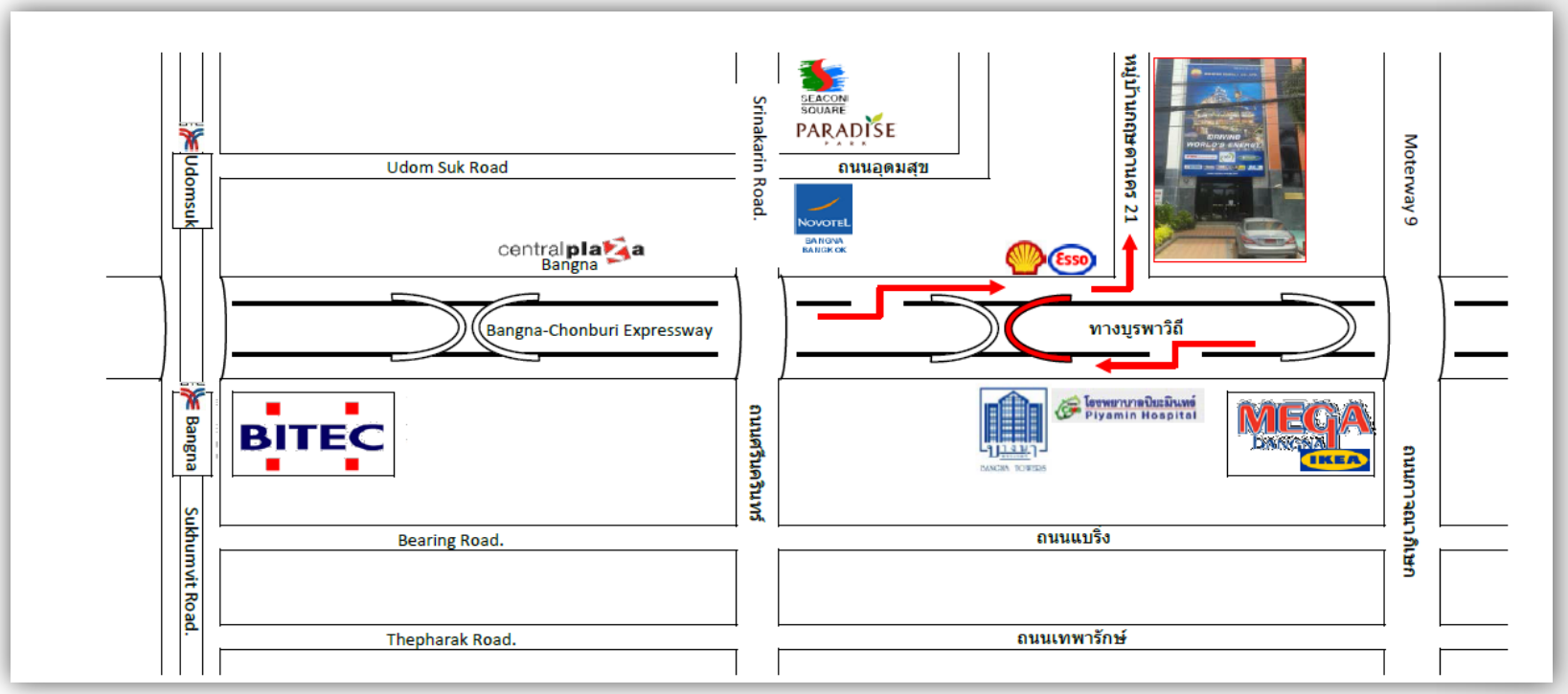
38 Project Reference.

	Projects	Products	Size Range	Class Range	Total Qty.	Client/End-Client
1	**PTTEP Bundled Phases**					
	1E3J	DBB & MDBB	1/2" to 1"	150# to 2500#	231	TNS/PTTEP
	3K	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	64	TNS/PTTEP
	2B	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	160	TNS/PTTEP
	4B	DBB & MDBB	1/2" to 2"	150# to 2500#	171	TNS/PTTEP
	3L	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	59	TNS/PTTEP
	2C	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	134	TNS/PTTEP
2	**Carigali-Hess**					
	BMB - CKD WHP	MDBB	1/2" to 2"	150# to 900#	94	TNS/Carigali-Hess
	BMD WHP	MDBB	1/2" to 2"	150# to 900#	81	TNS/Carigali-Hess
	BLC-CKR WHP	MDBB	1/2" to 2"	150# to 2500#	86	TNS/Carigali-Hess
3	**PTTEP Bongkot Phase Long-Term Contract**					
	B3M	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	140	TNS/PTTEP
	B4C	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	105	TNS/PTTEP
	B3N	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	105	TNS/PTTEP
	B3M	Compact Valves	1" & 3"	2500# & API 10K	78	TNS/PTTEP
	B4C	Compact Valves	1" & 3"	2500# & API 10K	84	TNS/PTTEP
	B3N	Compact Valves	1" & 3"	2500# & API 10K	77	TNS/PTTEP

39 Project Reference.

	Projects	Products	Size Range	Class Range	Total Qty.	Client/End-Client
4	**PTTEP Arthit Phase Long-Term Contract**					
	A2D	DBB & MDBB	1/2" to 2"	150# to 2500# & API 10K	140	TNS/PTTEP
	A2D	Compact Valves	'3"	2500# & API 10K	64	TNS/PTTEP
5	**PTTEP ZAWTIKA PHASE 2A**					
	PTTEPI-ZAWTIKA Development Project	DBB	2"	900#	21	TNS/PTTEPI-Total
	Total Pipeline Sharing (TPS) - Phase 2					
6	**MUBADALA NONG YAO FIELD DEVELOPMENT PROJECT**					
	NY	DBB	1”-6”	1500#	159	TNS/MUBADALA
	NY	Non-Slam Check Valve	6”	1500#	3	TNS/MUBADALA
6	**Chevron, Thailand**					
	Platong Waste Compactor	4000CB	30-Ton		1	Chevron
	Platong Waste Compactor	4000CC	30-Ton		1	Chevron
	Tantawan FSO Water Maker	KM60	60-Ton/day		1	Chevron
	Benchamas FPSO Water Maker	KM80	70-Ton/day		1	Chevron
	Platong Gas II	Actuated Ball Valve	2" to 18"	300# to 1500#	113	Chevron
				Total Valve Qty	2,169	

40 Contact Us.



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