

ASME 🖓 (U) (S) (P) (C (👜 (W) 14001









31 October - 3 November 2022 Abu Dhabi, United Arab Emirates



Expansion Joints & Flexible Products

EXPERIENCE is the Best Solution





SHARING OUR TECHNOLOGY AND EXPERIENCE

PROVIDING THE VERIFIED SOLUTIONS

for FCCU Project

Expansion Joints are crucial to the successful operation of pipelines and are used extensively in power plants, steel plants, refineries, petrochemical, chemical, desulphurization, pulp and paper, mining and other sectors.

With these expansion joints, the plant life will be much extended by reducing stress in the pipelines and protecting the equipment and systems there.

Megaflexon has specially engaged in expansion joint industry and devoted ourselves to research, development, and manufacture of the high level of expansion joints in quality and reliability. Based on our accumulated technology and experience, all of our staff have an in-depth understanding of each industrial application and have done our utmost to meet customers' specific needs and requirements.

As an expert in expansion joint industry, we never stop exploring new solutions for expansion joint applications, and will continuously provide high-quality products and on-site service to our customers.

Expansion Joint

Rubber Expansion Joint

Flanged & Flued Type

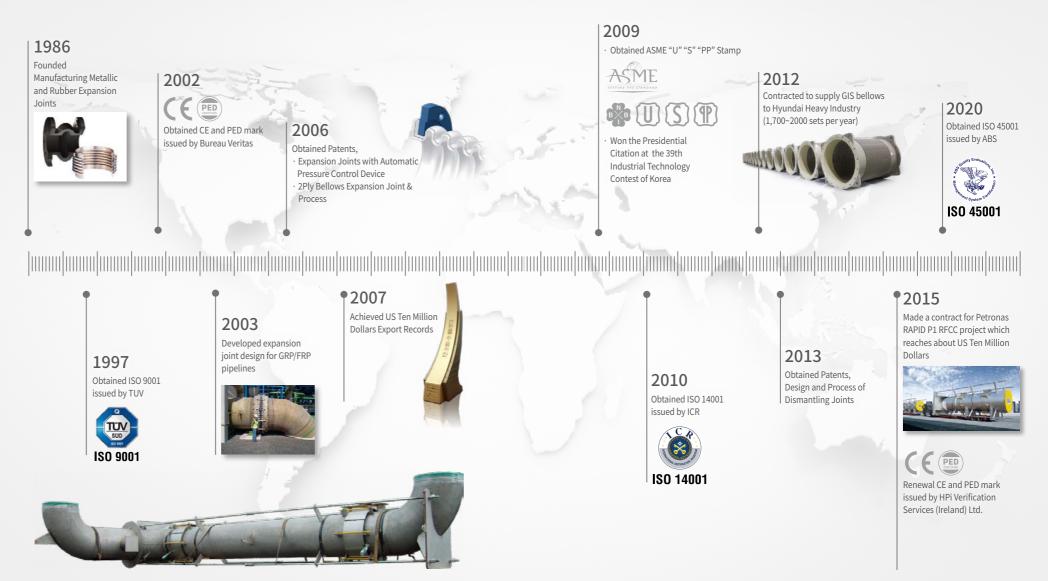
for PDH Project



Flexible Product



Milestones







ENGINEERING

Engineering Approach

The designs of metallic expansion joint, rubber expansion joint and non-metallic expansion joint are based on and complies with the following:

- EJMA latest edition
- ASME Section VIII
- ASME Section IX
- ASME B31.1 (Power Piping)
- ASME B31.3 (Process Piping)
- FSA latest edition
- TEMA latest edition FEA Finite Element Analysis



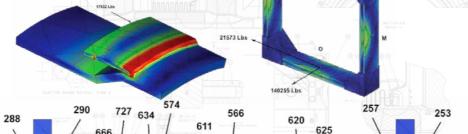
666

398

6 | Megaflexon



21573 Lbs



575 286







ENGINEERING

Engineering Application

Expansion joints have a wide range of applications, and each expansion joint is designed based on its unique environmental and installation conditions - pressure, temperature, movements, space, and/or corrosion, etc. The applications of our expansion joints include the following:

- Oil Refineries Industry
- Chemical and Pharmaceutical Industry
- Fossil Fuel Power Generation .
- Nuclear Power Plant
- Desalination Power Plant
- Petrochemical Industry
- District Heating
- Iron and Steel Mills
- Pressure Vessel Manufacturing
- Automotive Industry
- Instrumentation Industry
- Waste Water Treatment
- Cryogenics Industry
- Marine Applications
- Pulp and Paper



CUSTOMERS

Major Customers

Megaflexon has supplied our quality products to worldwide leading partners located in America, Europe, Middle East and Asia. As an expansion joint specialist, we do every possible effort to produce the very best products which meet customers' demands and requirements. As usual, we will do our best to be the benchmark of this industry.





PED

ISO 9001

ISO 14001 ISO 45001

ASME

Certifications

Megaflexon declares that Quality and Service are our most TOP priority. We always put quality and service on our most top priority and will make sure to deliver zero-defect products and service on time to our customers. In order to ensure our quality commitment, our degreed quality specialists do strictly carry out all required activities for quality assurance.



- ASME "S" Stamp ASME "PP" Stamp
- CE PED
- ISO 9001
- ISO 14001
- ISO 45001
- FDA Test Certificate





& INSPECTION

Testing

As an approved ISO 9001, ISO 14001, ISO 45001 organization, Megaflexon is dedicated to providing quality products and solutions backed with a complete guarantee. With our comprehensive quality assurance program, our products are inspected and evaluated extensively through each stage of production.

Megaflexon quality team is capable of performing all types of nondestructive testing such as radiography, ultrasound, mass spectrometer, magnetic particle, hydrostatic and liquid penetrate inspection. We can also include x-ray testing, cycle testing, spring rate testing, hardness testing, impact testing, pneumatic testing, leak detection and positive material identification (PMI) as part of our quality assurance program. Megaflexon also holds an ASME "U", "S", "PP" stamps and CE PED certificate.



▲ Well-used ASME Stamp



▲ Pneumatic Testing



Positive Material Identification (PMI)

Metallography Test

Metallography can identify the characteristics and composition of metal structure through research and observation in association with mechanical and physical properties in metals and alloys.

Mechanical Test

Material properties such as strength, ductility, crack, etc can be easily determined through a mechanical test.





▲ Mechanical Testing Equipment

Performance Test [Axial & Lateral Movement]

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[CAPACITY]	• Diameter • Length	: Max. 4,500mm : Max. 20,000mm	 Axial Movements Lateral Movements 	: Max. ± 200mm : Max. 1500mm

▲ Functional Test On DN 1400 (56") X 8500mmL (Lateral Deflection 800mm)

According to customer requirements, the functional test was carried out on DN 1400 (56") X 8500mmL under test pressure 15 Kgf/cm² in the presence of customers. The purpose of the functional test is to check the lateral movement and axial movement can reach to the designed 800mm and +/-50mm, respectively.

10 | Megaflexon





Bellows Manufacturing

Megaflexon manufactures bellows using an expanding mandrel (punch forming) method followed by a finish rolling. A rectangular sheet is sheared and rolled into a tube. The tube is welded using an auto flat-bed welder with no filler metal added.

The longitudinal seam weld is then planished back down to the base material thickness. Dye penetrant, X-ray, or air testing is performed at this stage.

After testing, the convolutions are punched individually drawing material from the top and bottom of the tube. The drawing process eliminates any possible thinning in the bellows material. Then, re-rolling process and then trimming process will follow.

In addition to this, Megaflexon manufactures bellows using a variety of machines, including hydraulic forming machines and automatic hydraulic forming machines.



▲ Hydraulic Forming Machine (Max. : 2,200mm)



▲ Automatic Hydraulic Forming Machine (Max. 750mm)



Automatic Longitudinal Seam Welding Machine



▲ Hydraulic Mandrel Punch Forming Machine (Max. : 4,500mm)



Full range of metallic expansion joints are produced in a variety of configurations to meet all kind of customer requirements and/or operating conditions.

We manufacture bellows from both ferritic and austenitic materials including series 300 and 400 stainless, titanium, aluminum and metal alloys, etc. and offer round type, rectangular type, oval & special shape type or big-sized metal expansion joints based on customers' specialized needs. We also can provide a specially designed type metal expansion joint that can absorb axial, lateral and angular movements simultaneously.

Diameter Capability: from 20mm to 8000mm

▲ Single Assembly

Single Expansion Joint

The simplest form of expansion joint, of single bellows construction, for the purpose of absorbing any combination of the three basic movements of the pipe section in which it is installed.

EXPANSION JOINTS

Megaflexon bellows have been improved to achieve an optimized relationship between the various parameters so that the bellows can withstand the greatest possible load without fail on normal operating conditions.





▲ Tied Single Assembly



Universal Expansion Joint

A universal expansion joint is one containing two bellows joined by a common connector for the purpose of absorbing any combination of the three basic movements: axial movement, lateral movement and angular rotation. It is usually furnished with control rods to distribute the movement between the two bellows of the expansion joint and stabilize the common connector.





▲ Universal Assembly







▲ Tied Universal Type Expansion Joint

Hinged Expansion Joint

Single hinged expansion joints contain one bellows and is designed to permit angular rotation in one plane only by the use of a pair of pins through hinge plates attached to the expansion joint ends. The hinges and hinge pins must be designed to restrain the thrust of the expansion joint due to internal pressure and extraneous forces, where applicable. Hinged expansion joints should be used in sets of two or three to function properly.

Dual hinged type expansion joints have two bellows separated by a pipe spool with overall length restrained by hinge hardware designed to contain pressure thrust. Dual hinged expansion joint accepts large lateral movements in a single plane with very low spring force.



▲ Various Expansion Joints View

Gimbal Expansion Joint

Gimbal expansion joints are designed to permit angular rotation in any plane by the use of two pairs of hinges affixed to a common floating gimbal ring. The gimbal ring, hinge and pins must be designed to restrain the thrust of the expansion joint due to internal pressure and extraneous forces, where applicable.

Dual gimbal type expansion joint is similar to the dual hinged type except that the two expansion joints are gimbal type. By using this type expansion joint, large lateral movements and independent angular movements in any plane are absorbed.

Pressure Balanced Expansion Joint

It is designed to absorb axial compression/extension and or lateral deflection while restraining the pressure thrust by means of tie devices interconnecting the flow bellows with an opposed bellows also subjected to line pressure. By using this design, such pressure thrust can be completely eliminated in the piping system on the main anchors.



▲ Dual Gimbal Type Expansion Joint









▲ Various Gimbal Type Expansion Joints



▲ L-Type Pressure Balanced Expansion Joint for Nuclear Power Plant





▲ Various L-Type Pressure Balanced Expansion Joints



A Pressure Balanced Expansion Joint with Elbow

In-Line Pressure Balanced Expansion Joint

It is designed to absorb axial compression/extension and/or lateral deflection while restraining the pressure thrust by means of tie devices interconnecting the line bellows with outboard compensating bellows also subjected to line pressure. Each bellows set is designed to absorb the axial movement, and the line bellows usually absorb the lateral deflection. This type of expansion joint is used in a straight run of piping.

This configuration incorporates two bellows that are same diameter as the nominal line size, and a third bellows that has an effective area that is twice the line size bellows. They are linked together by internal linkage to react the pressure thrust.





▲ In-Line Pressure Balanced Expansion Joint

▲ Internally Tied In-Line Pressure Balanced Expansion Joints



▲ In-Line Pressure Balanced Expansion Joint Fabrication View

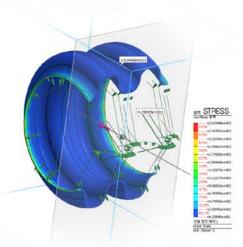
Flanged and Flued Type Expansion Joint

TEMA RCB-8, ASME SEC. VIII DIV. 1 APPENDIX 5

This expansion joints are used to restrain the heat stress that is generated by different temperature conditions. For it is cost-effective and very strong on mechanical damage or corrosion attacks compared to thin bellows, it is the right solution to piping, ducting and vessel thermal growth troubles.

Primarily it is used in heat exchangers and large diameter piping system where thin-wall expansion joints would not be sufficient.





▲ Finite Element Analysis (FEA)





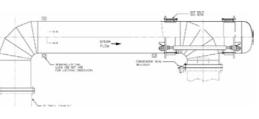
▲ Flanged and Flued Type Expansion Joints / 58"(DN 1450) x 1750mmL x t35



Cross-Over Expansion Joint

It is used to transfer the steam from LP hood of steam turbine system. It is designed to absorb different thermal movements between turbine and casing, and to keep the steam pressure stable during operation.





Rectangular Expansion Joint

Rectangular expansion joints are used to absorb axial, lateral and angular movements over a diverse cross section of operating conditions.

It is commonly designed for applications in gas turbine exhaust systems, steam turbine/condenser connections, flue gas ducting systems and other hot gas ducting systems. We can design it with single mitered corner, double mitered corner, camera corner and round corner according to specifications.



▲ Rounded Corner Type Expansion Joint



For GIS system does normally use SF6 gas as medium, GIS expansion bellows are required to be extremely high quality. Megaflexon manufactures GIS expansion bellows under strict quality control and advanced engineering design and has supplied our GIS expansion bellows to world well-known GIS manufacturer, Hyundai Electric and Fuji Electric Japan for a long period.

We also offer specially-designed GIS expansion bellows. For it has an automatic pressure control device on tie-rods, it ensures the safety and reliability as well as easy maintenance.





▲ GIS Expansion Bellows

▲ GIS Bellows Welding Work

Penetration Seals **Expansion Joint**

Pipe penetration seals are used to allow tubes or pipes to expand thermally by penetrating the shell or pressure casing. Metal seals are designed to accept axial, lateral and angular movements therefore, lowering the stress on the tubes and pipes to which they are attached. Metal seals also provide good insulation between the boiler wall and the attachment ring.

Clamshell Expansion Joints

Clamshell seals perform the same service as normal seals, but the life expectancy of a clamshell seal is dependent on the quality of the convolution weld made by an experienced welder during installation.

Advantages of Using Penetration Seals:

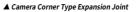
- Personnel are protected
- No leaks
- Reduces pipe stress
- Increased boiler efficiency ٠
- Noise reduction
- No maintenance •
- With insulation on request



▲ Over Size Clamshell



▲ Same Size Clamshell



EXPANSION JOINT & FLORIE PRODUCTS

for FCCU Project EXPANSION JOINTS

FEATURES

Heavy duty expansion joints for high temperature, high pressure and high movement applications
Withstand abrasive media like powder catalyst entrained in hydrocarbon flow
Used in fluidized catalytic cracker units (FCCU)
Shell wall temperatures do not exceed 340 °C

ADVANTAGES

Reliable expansion joints in critical applications
 Extensive experience in FCCU business







A Pantograph Type Expansion Joint for FCCU

▲ Dual Hinge Type Expansion Joint for FCCU



▲ Inspection View Before Refractory Works





▲ Various Cold Wall Type Expansion Joints for FCCU



for PDH Project EXPANSION JOINTS

FEATURES

Heavy duty expansion joints for high temperature, high pressure and high movement applications
Withstand abrasive media like powder catalyst entrained in hydrocarbon flow
Used in fluidized catalytic cracker units(FCCU's)
Shell wall temperatures do not exceed 600 °C

ADVANTAGES

 Reliable expansion joints in critical applications
 Extensive experience in FCCU, PDH and Styrene Monomer business



▲ On Site Installation View





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▲ Universal Pantograph Type Expansion Joint for PDH

▲ Floating Type Single Gimbal Expansion Joints with Purge Manifold



RUBBER EXPANSION JOINTS

Spool Type

FEATURES

- Hand-built construction
- Single to multiple arches as required
- $\cdot\,$ Internal sleeve or protective covers available
- Design according to pressure, vacuum ratings and
- temperature conditions • ASME, DIN, KS, JIS and BS flange drilling code available
- Reinforcement/Spiral steel wire or steel bar
- Available from 2 inch to 176 inch

% For other sizes, consult with Megaflexon.



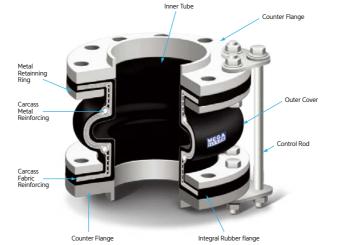


Full range of rubber expansion joints are produced in a variety of configurations to meet all kind of customer requirements and/or operating conditions.

We offer normal gusset type, integral backing ring type or big-sized rubber expansion joints according to customers' needs and have supplied our expansion joints to world well-known engineering companies and power plants located in Asia, Europe, Middle East, South America with high reputation.

According customers' specialized needs, we also can offer a specially designed rubber expansion joint using special rubber materials such as VITON, etc.

Diameter Capability: from 25mm to 4300mm



▲ Cross Sectional View of Standard Spool Type Rubber Expansion Joint





▲ Single Open Arch Type Rubber Expansion Joint

Eccentric Reducer Type







Concentric Reducer Type



▲ 48" (DN1200) x 750mmL Concentric Reducer Type

Integral Backing Ring Type



▲ Integral Backing Ring Type Rubber Expansion Joints

Hinged Type

A hinged Expansion Joint contains one bellows and is designed to permit angular rotation in one plane only by the use of a pair of pins through hinge plates attached to the Expansion Joint ends. The hinges and hinge pins must be designed to retrain the thrust of the Expansion Joint due to internal pressure and extraneous forces, where applicable. Hinged Expansion Joints should be used in sets of two or three to function properly.

Buried Type

The buried type rubber expansion joints are designed for underground installation and absorb the movement of piping lines. It is used for raw water supply pipe lines, water treatment plant and drainage system line, etc. It absorbs movements in angular and lateral direction and provides a solution for broken piping lines, leakage or bending caused by earthquake, temperature difference, geology tenderness and exterior impact, etc.



▲ Double Hinged Type Rubber Expansion Joints



A Buried Type Rubber Expansion Joint

Pressure Balanced Type

Pressure balanced expansion joint is used most frequently in applications similar to those shown for the single expansion joint, but where pressure loading upon piping or equipment is considered excessive or objectionable. The major advantage of the pressure balanced design is its ability to absorb externally imposed axial movement without imposing pressure loading on the system.



▲ L-Type Pressure Balanced Rubber Expansion Joint



▲ In-Line Pressure Balanced Type Installation View



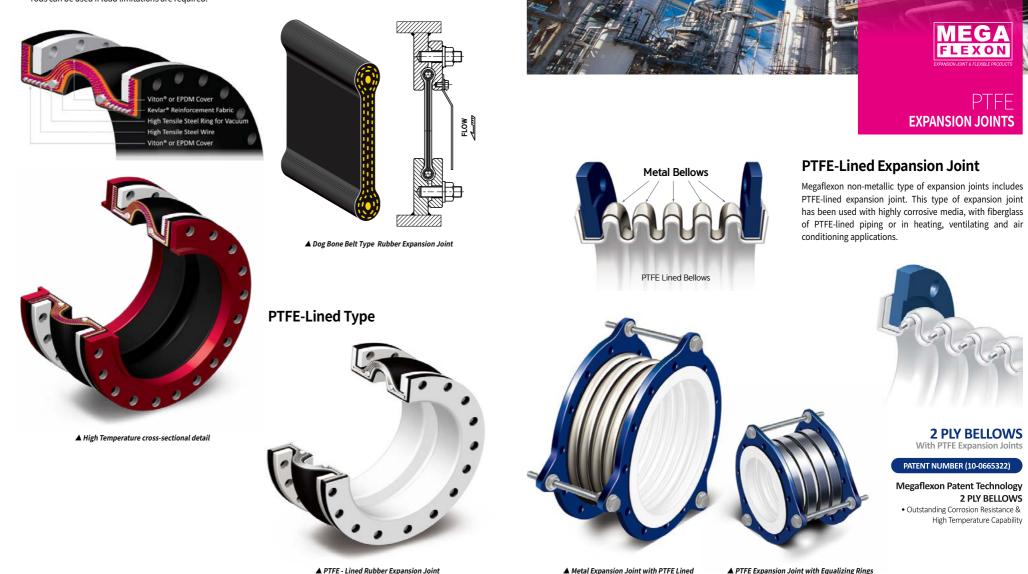
▲ In-Line Pressure Balanced Rubber Expansion Joints

For High Temperature

The rubber body is constructed with high temperature resistant Viton[®] or EPDM rubber with Kevlar[®] reinforcement and also includes full faced rubber flanges, high tensile steel reinforcement. According to the design conditions, hot dip galvanized retaining rings or integral backing rings type design is also considered. Control units like tie rods or limit rods can be used if load limitations are required.

Dog Bone Belt Type

It is used as a flexible connection between low-pressure turbines and condensers and can absorb movement up to 1" compression and 1/2" lateral deflection. By designing it with extra heavy synthetic rubber on inside of joint, extended lifespan and better sealing on bulb ends are guaranteed.





systems having high temperature, corrosion caused by

flue gas or hot air, we specially design our expansion joints

using corrosion-resistant fabrics and materials such as

PTFE(Teflon) coated fiberglass or VITON-B. In consideration

of characteristics of medium such as flue gas or hot air, we

specially design expansion joints using PTFE(Teflon) coated

fiberglass materials or VITON-B, etc.

EXPANSION JOINTS



Designed Based on FSA Standard

Megaflexon fabric expansion joints are designed to provide stress relief in duct line systems by absorbing movement caused by thermal changes, vibration, misalignment of ducting, shock.

Full range of non-metallic fabric and composite expansion joints are produced in a variety of configurations to meet all kind of customer requirements and / or operating conditions. In order to meet customers' specialized needs for ducting

Capability: from 25mm up to customer required size

Flexible Hoses

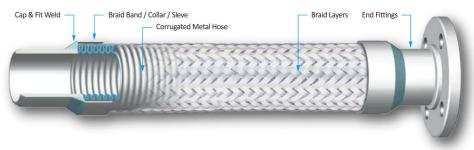
We offer metallic flexible hoses and rubber flexible hoses in a variety of configurations to meet all kind of customer requirements and/or operating conditions. We specially design and offer flexible hoses based on customers' specialized needs and also can provide a complete set of flexible hoses assembled with quick couplings.





▲ Flexible Hose Assembly with PTFE Liner

Basic Metallic Hose Assembly

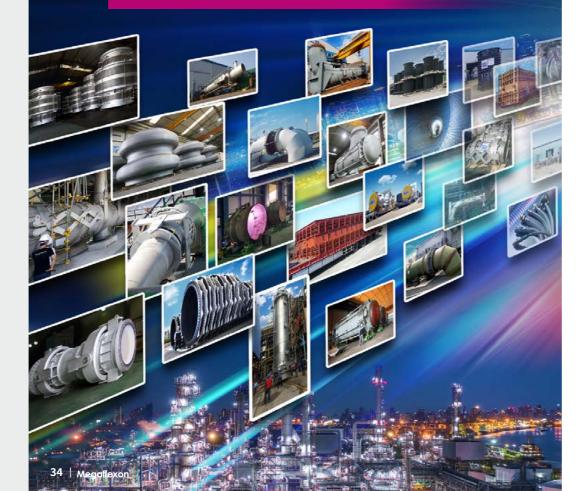






EXPERIENCE RECORDS

Latest Projects

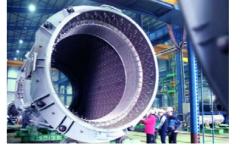








Expansion Joint for FCCU for PETRONAS RAPID P1 PROJECT, MALAYSIA





▲ Inspection View Before Refractory of Cold Wall Expansion Joint for FCCU

PETRONAS Refinery and Petrochemical Integrated Development (RAPID)

• Year	: 2017		
Owner	: PETRONAS		
Total Q'ty	: 36sets		
Type & Size	: Tied Universal Expansion joint	DN 3200, DN 2900, DN 2400	12sets
	Double Gimbal Expansion joint	DN 2900, DN 2400, DN 1960	8sets
	Single Gimbal Expansion joint	DN 1200	4sets
	Single Hinge Expansion joint	DN 2900, DN 2400, DN 1960, DN 1860	12sets

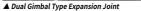






▲ Tied Universal Type Expansion Joints







▲ Dual Hinge Type Expansion Joints







▲ Shipping View





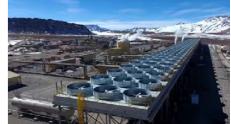


L-Type Pressure Balanced Expansion Joint for CERRO PABELLON GEOTHERMAL POWER PLANT, CHILE



▲ L-Type Pressure Balanced Expansion Joint





Cerro Pabellón, South America's first geothermal power plant and the world's first large-scale plant

: 2019
: ENEL AND ENAP
: 6sets
: 66"(DN1650) x 6700mmL 2sets
56" (DN1400) x 5382mmL 4sets







Flanged and Flued Type Expansion Joint for CALCASIEU PASS LNG EXPORT TERMINAL, USA







Expansion Joint for PDH Project for SK GAS ULSAN PDH PLANT, KOREA



▲ Bellows Thickness Measuring



Calcasieu Pass LNG is a ten million tonnes per annum (Mtpa) LNG export terminal to be developed by Venture Global Calcasieu Pass, a subsidiary of Venture Global LNG, in Louisiana, US.



• Year	: 2019
Owner	: VENTURE GLOBAL LNG
Total Q'ty	: 6sets
Size	: I.D. 1448mm x O.D. 2000mm x 1340mmL, t35
Material	: ASTM A516 Gr 70



▲ Dual Gimbal Type Expansion Joint installation View



SK GAS ULSAN PDH PLANT facility is projected to produce 600,000 tons of propylene annually.

• Year	: 2014	
Owner	: SK GAS	
Total Q'ty	: 69sets	
Single Slotted Hinge Type		78"(DN1950) x 1850mmL
Single Gimbal Type		96"(DN2400) x 1950mmL
Universal Pantograph Type		96"(DN2400) x 4400mmL









In-line Pressure Balanced Expansion Joint for SHUWEIHAT S2 IWPP, ABU DHABI UAE



L-Type Pressure Balanced Expansion Joint for STEAM TURBINE PIPE LINE OF QATAR PETROCHEMICAL COMPANY (QAPCO)



• Year	: 2009
• Owner	: QAPCO
Total Q'ty	: 12sets
• Size	: 60"(DN1500) X 6100mmL



Qatar Petrochemical Company is one of the world's largest and most successful producers of low-density polyethylene.





The site of the Shuweihat "S2" Independent Water and Power Project in Abu Dhabi, the United Arab Emirates.

Year	: 2010
• Owner	: SHUWEIHAT S2
Total Q'ty	: 48sets
Size	: 96"(DN2400) X 3200mmL, etc.







Floating Type Dual Gimbal Expansion Joint for CPC RFCC, TAIWAN



CPC now operates two refineries in Taiwan - at Taoyuan in the north and Dalin in the south - with a combined daily refining capacity of 600,000 barrels.

• Year	: 2015
• Owner	: CPC Corporation
Total Q'ty	: 6sets
Size	: 98"(DN2450) x 13800mmL
Design	: Hot Wall Floating Type
	Bellows (777°C) / Pipe (538 °C)







Rectangular Type Expansion Joint for MAILIAO POWER PLANT, TAIWAN



The Mailiao Power Plant is a coal-fired power plant in Mailiao Township, Yunlin County, Taiwan. With a total installed capacity of 4,200 MW, the plant is Taiwan's third-largest coal-fired power plant after Taichung Power Plant and Hsinta Power Plant.



 Year
 : 1995

 Owner
 : Formosa Petrochemical Corporation

 EPC
 : Mitsubish Heavy Industry

 Total Q'ty
 : 108sets

 Size
 : 11300mm X 4150mm X 3650mmL





Dual Hinged Expansion Joint For NGHI SON REFINERY PLANT, VIETNAM







Metal Expansion Joint with Reinforcing Rings for POSCO (POHANG IRON AND STEEL COMPANY), KOREA



Nghi Son refinery has a designed capacity of 10 million tons of crude oil per year.



• Year	: 2019	
Owner	: NSRP (Nghi Son Refinery Plant	t)
Total Q'ty	: 7ets	
Size	: 34" (DN 850) x 4891mmL	1set
	24" (DN 600) x 1995mmL	1set
	34" (DN 850) x 11515mmL	1set
	12" (DN 300) x 5916mmL	1set
	34" (DN 850) x 12391mmL	1set
	16" (DN 400) x 4255mmL	1set



POSCO is a South Korean steel-making company. It had an output of 42 million tonnes of crude steel in 2015, making it the world's fourthlargest steelmaker by this measure. In 2010, it was the world's largest steel manufacturing company by market value.





▲ Detail of Reinforcing Rings

A Reinforcing Rings

• Year	: 2019
Owner	: POSCO
Total Q'ty	: 2ets
Size	: 30" (DN750) X 800mmL
Design	: Hydraulic Test Press 22.5kg/cm ²
	Pneumatic Test Press 16.5kg/cm ²



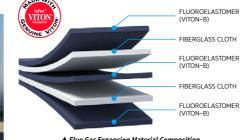


Rectangular Type Fabric Expansion Joint for CENTRAL JAVA POWER PLANT, INDONESIA



▲ Rectangular Type Fabric Expansion Joints

: 2017
: Central Java Power Plant
: 48ets
: 1600 x 6000 x 160mmL



FLUOROELASTOMER (VITON-B)

▲ Flue Gas Expansion Material Composition



Central Java Power Plant (CJPP) is an ultra critical Coal-fired power plant with 2 x 1,000 MW capacity in Batang Regency, Central Java.







L-Type Pressure Balanced Expansion Joint for LUNGMEN NUCLEAR POWER PLANT, TAIWAN







The Lungmen Nuclear Power Plant is an nuclear power plant in New Taipei City, Taiwan. It consists of two ABWRs each of 1,300 MWe net. It is owned by Taiwan Power Company (Taipower).







Rounded Corner Type Rectangular Expansion Joint



▲ Rounded Corner Type Rectangular Expansion Joint



Korea Midland Power (KOMIPO): operates the Boryeong Thermalelectric Power Plant Site Division and the Yeongheung Thermal Power Plant, and possesses 9,399 MW in total installed capacity (as of Dec. 2010).

- Year : 2015
- Owner : Korea Midland Power

Total Q'ty: 115ets

• Size : 2000mm x 2830 x 400mmL 106 sets

4300mm x 5700 x 400mmL 9 sets



Major

YEAR

2019 2019

2019 2019

2019

2019

2019

2019

2019

IT & FLEXIBLE PRODUCTS			LEGEND OF ITEMS									
			Metal	Expansion J	oint	FEJ	Fabric Expansion	Joint				
Experience Re	REJ Rubber Expansion			Joint FH		Flexible Hose						
OWNER	PROJECT NAME	LOCAT	ION	ITEM	ТҮР	E	SIZE (mm) I.D. x LENGTH	Q'TY				
CHINGSHUEI GEOTHERMAL	CHINGSHUEI GEOTHERMAL POWER CORPORATION	TAIW	AN	MEJ	Pressure Balanced		1050 x 5300	2				
GWANGYANG IRON WORKS	GWANGYANG INTERNAL UNION MAINTENANCE SECTION 2	KOR	EA	PTFE	PTFE Li	PTFE Lined 740 x 425		4				
VENTURE GLOBAL LNG	CALCASIEU PASS LNG EXPORT TERMINAL	US	A	REJ	Flanged an	Id Flued	1448 x 1340	6				
BSR	BSR	VIETN	IAM	REJ	Double Fill	ed Arch	1150 x 400	6				
CPC	CPC TAOYUAN PROJECT	TAIW	AN	MEJ	Hinge & G	imbal	1050 x 1500	6				
PTT ASAHI CHEMICAL	PTT ASAHI	THAIL	AND	MEJ PTFE Lined		200 x 250	5					
NSRP	NSRP	VIETN	IAM	REJ	J Single Open Arch		1200 x 600	25				
KAHRAMAA	UMM AL HOUL POWER IWPP	QAT	٩R	REJ	Integral Backing Ring Triple Arch Gusset Plate		1950 x 500	24				
OSAN COMBINED HEAT & POWER PLANT	OSAN COMBINED HEAT & POWER PLANT DEFECT REPAIR	KOR	EA	REJ	Triple Arch Gu Typ		1700 x 1080	2				
GS CALTEX	PURCHASING 2020 OIL REFINERY TEAM TA EXPANSION BELLOWS	KOR	EA	MEJ	Universal		Jniversal 3590 x 1500					
CHITTAGONG BANGLADESH	CHITTAGONG	BANGLA	BANGLADESH ME		Rectangular		500 x 293.7					
DAEWOO ENC	DAEWOO SOUTH JEJU COMBINED FIREPOWER	KOR	EA	FH	Metal Flexible Hose		80 x 350	73				
TNB REMACO	SHUAIBA NORTH CO-GENERATION POWER AND DISTILLATION PLANT	KUW	AIT	REJ	Integral F	lange	1219 x 450	1				
NSRP	NSRP CCR-WARRANTY	VIETN	IAM	MEJ	Dual Hi	nged	850 x 12391	7				
GE POWER	CHAI HUI	TAIW	AN	REJ	Integral F	lange	300 x 250	52				
MEW	DOHA SWRO	KUW	AIT	REJ	Single Arch Flang	Integral ge	1200 x 550	1				
ADNOC	UAE ADNOC REFINING WHRP	UA	E	REJ	Single Arch Flang		2000 x 500	13				
EVN (ELECTRICITY OF VIETNAM)	MONG DUONG 1 CFPP	VIETN	IAM	REJ	Double Arch Integral Flange		500 x 300	1				
MALAYSIAN REFINERY SDN. BHD.	MELAKA REFINERY DIESEL EURO 5 PROJECT	MALA	/SIA	FH	Camlock, Wing I		20 x 15000	800				
KEPCO	APK GIHEUNG SUBSTATION, ETC.	KOR	EA	MEJ	Bello Convolution		575 x 934	298				
MERCURY ENERGY	NGATAMARIKI	NEW ZEA	ALAND	MEJ	L-Type Pr Balan	essure ice	1422.4 x 5932	4				
AL ASILAH DESALINATION	SHARQIYAH INDEPENDENT WATER PROJECT	OMA	N	REJ	Integral	Туре	1000 x 500	48				
KOREA SOUTH-EAST POWER CO.	GANGRUNG ANIN POWER PLANT	KOR	EA	REJ	Single Arch Plat		700 x 250	6				
ARAMCO	SULFUR RAILCAR LOADING FACILITIES	SAUDI A	RABIA	FH	Steel Braid H Q.C		25 x 15000	10				

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E.	KPANSION JOINT & FLEXIBLE PRODUCTS	

EXPANSION JO	E X O N	LEGEND OF ITEMS							
			MEJ	Metal	Expansion J	Fabric Expansion	sion Joint		
Majoi	r Experience Re	rience Records		Rubbe	er Expansion	Joint	FH	Flexible Hose	
YEAR	OWNER	PROJECT NAME	LOCA	TION	ITEM	ТҮРЕ		SIZE (mm) I.D. x LENGTH	Q'TY
2019	UZBEKISTAN GTL LLC	UZBEKISTAN GAS-TO LIQUIDS PROJECT	UZBEK	ISTAN	REJ / MEJ	REJ : Integral ⁻ MEJ : Tie-I		1450 x 1110	39
2019	BANGCHAK CORP. PCL	EFFICIENCY, ENERGY & ENVIRONMENT IMPROVEMENT PH.2	THAIL	AND	MEJ	Externally Pr	essure	40~50 x 740~910	3
2019	ENEL AND ENAP	CERRO PABELLON	CHILE MEJ		Tied Unive	ersal	1650 x 6700	6	
2019	GC POLYOLS CO., LTD.	POLYOLS PROJECT	THAIL	AND	REJ	Single Arch (Plate	Gusset	200 x 250	4
2019	HANWHA CHEMICAL	PE-2 G-2 G	KOR	EA	REJ	Single Arch O Plate	Gusset	450 x 310	1
2019	LOTTE CHEMICAL	MEX3 PROJECT	KOREA MEJ UAE REJ ^{Sing}		Univers	al	800 x 700	8	
2019	DUBAI ELECTRICITY & WATER AUTHORITY	DEWA JEBEL ALI PROJECT	UA	Flai		Single Arch Ir Flange		1350 x 500	4
2019	Q POWER CO.	RAS LAFFAN B IWPP PROJECT (1,025MW & 60MIGD)	QAT	QATAR REJ Single Sphe		e Arch	65 x 115	2	
2019	GS EPS	DANGJIN BIOMASS #2 POWER PLANT (105MW)	KOR	EA			ch	1350 x 600	7
2019	GOSEONG GREEN POWER	GOSEUNG HAI THERMAL POWER PLANT	KOR	EA	FH	Ribbon Br	raid	400 x 1200	29
2019	HANWHA CHEMICAL	ECH	KOR	EA	MEJ	Externally Pressure		800 x 1000	1
2019	SK ENERGY	S PROJECT (VRDS)	KOR	EA	REJ	Single Arch Integral Backing Ring		900 x 500	8
2019	LOTTE CHEMICAL	LOTTE VERSALIS SPECIAL RUBBER PROJECT	KOR	EA	MEJ	Externally Pre	essured	1000 x 400	16
2019	KNPC	CLEAN FUEL PROJECT	KUW	AIT	FH	Flange Asse	mbly	50 x 600	4
2019	SWCC	RAS AL-KHAIR PLANT	SAUDI A	RABIA	REJ	Integral Fla	ange	1900 x 500	1
2019	GS CALTEX	TA EXPANSION BELLOWS REPLACEMENT.	KOR	EA	MEJ	Flange	•	6110 x 1600	7
2019	KOREA SOUTH POWER	SOUTH JEJU LNG CCPP	KOR	EA	REJ	Single Arch R Ring & Gu		800 x 250	3
2019	PTT ASAHI CHEMICAL	PTT ASAHI	THAIL	AND	MEJ	Metallic Expa Joints	ansion	500 x 500	3
2018	ELEC. GENERATION CO. OF BANGLADESH LTD.	SIDDHIRGANJ CCPP	BANGL	DESH	REJ	Wide Arch In Flange		1300 x 300	7
2018	PT PLN (PERSERO)	KALSELTENG 2 CFSPP	INDOM	IESIA	REJ	Dual Slot H	linge	500 x 1620	3
2018	DHURUMA O&M COMPANY LTD.	RIYADH PP11 IPP	SAUDI A	RABIA	MEJ	Universal Single		400 x 600	6
2018	CIREBON POWER	[IBON] CIREBON 2 CFPP	INDOM	IESIA	REJ	Two Arch In Flange		1200 x 850	72
2018	ADMA-OPCP	SATAH AL RAZBOOT FIELD DEVELOPMENT-PKG4 (SARB)	UA	E	FH	Rubber Flexib	le Hose	25 x 15000	77
2018	ARAMCO	JRTP PKG-14	SAUDI A	RABIA	FH	Rubbe	r	25 x 15000	166
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EXPANSION JOIP	IT & FLEXIBLE PRODUCTS				LE	EGEND O	F ITEM	IS	
2018 ELECTRICITY OF GENERATING AUTHORITY BANG PAKONG COMBINED CYCL 2018 SWCC SHOAIBA RO PHASE 4 PROJECT 2018 PT PLN (PERSERO) KALSELTENG 2 CFSPP (100MW x Units) PROJECT 2018 SABIC IBN ZAHR 3300	MEJ	Metal	Expansion J	oint	FEJ	Fabric Expansion	Joint		
Major	Experience Re	coras	REJ	Rubbe	er Expansion	Joint	FH	Flexible Hose	
YEAR	OWNER	PROJECT NAME	LOCA	ION	ITEM	ТҮР	E	SIZE (mm) I.D. x LENGTH	Q'TY
2018	HANWHA CHEMICAL	PE2	KOR	EA	MEJ	Single Gi	mbal	750 x 1728	4
2018	UZBEKISTAN GTL LLC		UZBEK	STAN	REJ	Integral T	ie-Rod	900 x 700	47
2018	LG CHEMICAL	3NE PROJECT	KOR	EA	MEJ	Double Belle Tie Ro		1200 x 2000	1
2018	GOSEONG GREEN POWER	GOSEUNG HAI THERMAL POWER PLAN	KOR	EA	REJ	Single Arch Plat	e Gusset	1950 x 300	22
2018	LOTTE CHEMICAL	LOTTE CHEMICAL PC2 PROJECT	KOR	EA	MEJ	AXIA	L	350 x 400	12
2018		BANG PAKONG COMBINED CYCLE PROJECT	THAIL	AND	REJ	Single Arch Plat		1950 x 300	59
2018	SWCC	SHOAIBA RO PHASE 4 PROJECT	SAUDI A	RABIA	REJ	Integ	ral	1800 x 450	250
2018	PT PLN (PERSERO)	KALSELTENG 2 CFSPP (100MW x 2 Units) PROJECT	INDON	IESIA	REJ	Rubber Exp Join		1650 x 500	23
2018	SABIC	IBN ZAHR 3300	SAUDI A	RABIA	REJ	Single Fille Gusset F	ed Arch Plate	1000 x 250	6
2018	UZBEKENERGO	TAKHIATASH POWER EFFICIENCY IMPROVEMENT PROJECT	UZBEK	STAN	REJ	Two Arch S Spoo		700 x 650	49
2018	HAGAY CARMONA	JAMNAGAR	IND	IA	REJ	Single Fille Integral F		900 x 350	12
2018	EDRA ENERGY SDN BHD.	MELAKA CCPP [MMCC]	MALA	YSIA	REJ	Single Wic Integral F		1950 x 400	66
2018			MALA	YSIA	REJ	Single Wide F	illed Arch	1800 x 400	24
2018	GS CALTEX	VGOFCC 652	KOR	EA	MEJ	Clamshell	Bellows	1750 x 3492	1
2018		DOHA RO PH.1	ĸuw	AIT	REJ	Rubber Exp Join		600 x 400	13
2017	KIPIC		ĸuw	AIT	FH	Flang	ed	20 x 15000	192
2017	SK ENERGY	SK ULSAN CLX	KOR	EA	MEJ	Clamshell I	Bellows	1200 x 560	2
2017	SONELGAZ	KAIS CCPP	ALGE	RIA	MEJ	Rubber Exp Join		350 x 1000	14
2017	LOTTE CHEMICAL	LOTTE VERSALIS SR PROJECT	KOR	EA	MEJ	Metal Expans	ion Joint	250 x 500	48
2017	KIPIC		ĸuw	AIT	REJ	Single Arc Integral F		1100 x 400	16
2017	MINISTRY OF ELEC. & WATER STATE OF KUWAIT	DOHA SWRO	ĸuw	AIT	REJ	Single Arch Flang		1800 x 500	126
2017	KNPC	KNPC ZOR Project	ĸuw	AIT	REJ	Rubber Exp Join	bansion t	1600 x 1200	26
2017	KNPC	KNPC ZOR Project	ĸuw	AIT	MEJ	Metal Expans	ion Joint	1600 x 1200	6
2017	SOREK DESALINATION	SOREK	UA	E	REJ	Rubber Exp Join		1050 x 300	26

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EXPANSION JOINT & FLEXIBLE PRODUCTS

FL	EXON									
EXPANSION JO	INT & FLEXIBLE PRODUCTS	LEGEND OF ITEMS								
Ma:-		ee wala	MEJ	Metal	Expansion J	oint	FEJ	Fabric Expansion	Joint	
Majo	r Experience Re	coras	REJ	Rubbe	er Expansior	Joint	FH	Flexible Hose		
YEAR	OWNER	PROJECT NAME	LOCA	ΓΙΟΝ	ITEM	TYP	E	SIZE (mm) I.D. x LENGTH	Q'T\	
2017	PTT GLOBAL CHEMICAL PUBLIC COMPANY LTD.	LLDPE EXPANSION AND HEXENE-1	THAIL	AND	FH	Rubber Flexi	ble Hose	25.4 x 15000	130	
2016	E-CL S.A	RED DRAGON /PIEM PROJECT	СНІ	LE	REJ	Rubber Expan	sion Joint	2400 x 1000	18	
2016	USI CORPORATION	USI-EQUIPMENT FABRICATION	TAIW	/AN	MEJ	Metal Expans	ion Joint	946 x 700	3	
2016	SOREK DESALINATION	SOREK	ISR/	EL	REJ	Rubber Expan	sion Joint	1050 x 300	26	
2016	E-CL S.A	RED DRAGON /PIEM PROJECT	СНІ	LE	REJ	Rubber Expan	sion Joint	2400 x 1000	18	
2016	USI CORPORATION	USI-EQUIPMENT FABRICATION	TAIW	/AN	MEJ	Metal Expans	ion Joint	946 x 700	3	
2016	TURKMAENGAS	GTG EKSTRAWORKS	TURKME	NISTAN	REJ Rubber Expansion . MEJ Metal Expansion J		sion Joint	1200 x 400	18	
2016	PTT GLOBAL CHEMICAL PUBLIC COMPANY	ATC REFORMER AND AROMATICS COMPLEX II;PTT GLOBAL	THAIL	AND	MEJ	Metal Expans	ion Joint	100 x 1000	2	
2016	JIMAH EAST POWER SDN BHD	JIMAH EAST POWER CFPP (1,000MW x 2 Units)	MALA	YSIA	REJ	Rubber Expansion Joint		2200 x 500	55	
2016	PRPC UTILITIES AND FACILITIES SDN BHD	RAPID PACKAGE14 UTILITIES,INTERCONNECTIING, OFFSITE FACILITIES	MALA	YSIA	REJ	Rubber Expansion Joint		1200 x 350	34	
2016	PRPC UTILITIES AND FACILITIES SDN BHD	PETRONAS RAPID (PACKAGE NO.5 -EPDD OF STEAM CRACKER COMPLEX)	MALA	YSIA	MEJ	Metal Expans	ion Joint	1300 x 1200	18	
2016	ANRPC	ANRPC CCR	EGY	PT	MEJ	Metal Expans	ion Joint	400 x 11132	1	
2016	UMM AL HOUL POWER	UMM AL HOUL POWER IWPP	QAT	AR	REJ	Rubber Expan	sion Joint	2200 x 350	97	
2016	ARAMCO	SULFUR RAILCAR LOADING FACILITIEA	SAUDI A	RABIA	FH	Rubber Flexi	ble Hose	25 x 15000	54	
2016	ARAMCO	SULFUR RAILCAR LOADING FACILITIEA	SAUDI A	RABIA	FH	Metal Flexib	le Hose	100 x 1000	2	
2016	DOGUS INSAAT	DOGUS INSAAT	TUR	KEY	REJ	Rubber Expan	sion Joint	2200 x 1800	3	
2016	FLEXSYS SOLUTIA,INC.	K2C PROJECT	KOR	EA	MEJ	Metal Expans	ion Joint	540 x 620	5	
2015	KNPC	KNPC CLEAN FUELS	KUW	AIT	REJ	Rubber Expan	sion Joint	1200 x 600	9	
2015	DUBAI ELECTRICITY & WATER AUTHORITY	JEBEI ALI POWER & DESALINATION STATION 'L'	UA	E	REJ	Rubber Expan	sion Joint	450 x 200	3	
2015	KNPC	KNPC PROJECT	KUW	AIT	MEJ	Metal Expans	ion Joint	200 x 450	2	
2015	STATE CONCERN "TURKMANGAS"	TURKMENISTAN ETHANE CREACKER AND PE PP	TURKME	NISTAN	REJ	Rubber Expan	sion Joint	1200 x 350	28	
2015	EVN (ELECTRICITY OF VIETNAM)	THAI BINH II THERMMAL PLANT AND TRANSMISSION LINES CONSTRUCTIONS	VIETI	MAN	REJ	Rubber Expan	sion Joint	1650 x 350	28	
2015	EVN (ELECTRICITY OF VIETNAM)	THAI BINH II THERMMAL PLANT AND TRANSMISSION LINES CONSTRUCTIONS	VIET	MAN	MEJ	Metal Expans	ion Joint	250 x 1500	6	
2015	RELIANCE INDUSTRIES LTD	JAMNAGAR	IND	IA	REJ	Rubber Disn Joint		1400 x 350	32	



EXPANSION JOIN	IT & FLEXIBLE PRODUCTS				LE	GEND O	FITEM	S	
	EXPERIENCE RECORD EAR OWNER 015 RELIANCE INDUSTRIES 015 PARTNERSHIPS TECHNICAL BUREAU 015 PARTNERSHIPS TECHNICAL BUREAU 015 PARTNERSHIPS TECHNICAL BUREAU 015 PETRONAS 015 AMIC AND TOHO TITANIUM CO., LTD 015 AMIC AND TOHO TITANIUM CO., LTD 015 AMIC AND TOHO TITANIUM CO., LTD 015 ALSTOM 015 PETRONAS 015 MARAFIQ 015 MARAFIQ 015 RELIANCE 015 ADMA-OPCP 015 KOREA MIDLAND POWER 015 KOREA MIDLAND POWER 015 REHABILITATION & REMINERALIZATION 015 GROUPE OCP 015 GROUPE OCP		MEJ	Metal	Expansion J	oint	FEJ Fabric Expansion		Joint
Major	Experience Ree	cords	REJ	Rubbe	er Expansion	Joint	FH	Flexible Hose	
YEAR	OWNER	PROJECT NAME	LOCAT	ION	ITEM	ТҮР	E	SIZE (mm) I.D. x LENGTH	Q'TY
2015	RELIANCE INDUSTRIES	JAMNAGAR	IND	IA	REJ	Rubber Expansion Joint		1500 x 400	167
2015		AZ-ZOUR NORTH IWPP	KUW	AIT	REJ	Rubber Exp Join		750 x 250	3
2015	MAE MOH POWER PLANT	MAE MOH	THAIL	AND	REJ	Rubber Exp Join		2100 x 500	18
2015	PETRONAS	PETRONAS FLNG 2	MALA	/SIA	REJ	Integr	al	700	18
2015		YNP PROJECT	SAUDI A	RABIA	FEJ	Metal Expans	ion Joint	350 x 400	18
2015		YNP PROJECT	SAUDI A	RABIA	MEJ	Metal Expans	ion Joint	200 x 250	44
2015	ALSTOM	KARAHA GEOTHERMAL POWER PLANT	INDON	ESIA	REJ	Rubber Exp Join		1200 x 400	44
2015	PMP CO.,LTD	JANGMOON COMBINED CYCLE POWER PROJECT	KOR	EA	MEJ	Metal Expans	ion Joint	600 x 1500	5
2015	PETRONAS	RAPID P1 PROJECT	MALA	/SIA	REJ	Rubber Exp Join		1200 x 450	4
2015	PMP CO.,LTD	JANGMOON COMBINED CYCLE POWER PROJECT	KOREA		REJ	Rubber Expansion Joint		250 x 200	224
2015	PETRONAS	RAPID P1 PROJECT	MALA	/SIA	MEJ	Metal Expans	ion Joint	2900 x 18500	36
2015	КИРС	KNPC CLEAN FUELS PROJECT	KUW	AIT	REJ	Rubber Exp Join		25 x 15000	557
2015	MARAFIQ	MARAFIQ MED	SAUDI A	RABIA	REJ	Rubber Exp Join		900 x 300	10
2015	MARAFIQ	MARAFIQ MED	SAUDI A	RABIA	MEJ	Metal Expans	ion Joint	125 x 600	2
2015	RELIANCE	RELIANCE CCR REVAMP	IND	IA	MEJ	Metal Expans	ion Joint	150 x 740	1
2015	ADMA-OPCP	SATAH AL RAZBOOT FIELD DEVELOPMENT-PKG4(SARB)	UA	E	FH	Metal Expans	ion Joint	100 x 6000	828
2015	SWCC	YANBU POWER AND DESALINATION PLANT-PHASE3	SAUDI A	RABIA	REJ	Rubber Exp Join	ansion t	1400 x 500	6
2015		TANJUNG BIN 4	MALA	/SIA	REJ	Rubber Exp Join		300 x 2300	4
2015		"SHINBORYEONG TPP UNITS 1 & 2"	KOR	EA	MEJ	Metal Expans	ion Joint	250 x 1040	11
2015	REHABILITATION &	MIRFA IWPP	UAE		REJ	Rubber Expansion Joint		1400 x 450	39
2015	TANJUNG BIN ENERGY	TANJUNG BIN 4	MALA	/SIA	REJ	Rubber Exp Join		750 x 320	2
2015	GROUPE OCP	MOROCCO JL FERITILIZER	MORO	ссо	MEJ	Metal Expans	ion Joint	250 x 400	2
2015	BHP BILLTON	ESCONDIDA RO	CHI	E	REJ	Rubber Exp Join		1200 x 400	19
2015	MOSCOW OIL	MOSCOW OIL	KOR	EA	MEJ	Metal Expans	ion Joint	600 x 9630	12

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EXPANSION JOINT & FLEXIBLE PRODUCTS	

EXPANSION JOI	E X O N	LEGEND OF ITEMS								
			MEJ	Metal	Expansion J	oint	FEJ	Fabric Expansion Joint		
Majo	r Experience Re	cords	REJ	Rubbe	er Expansior	Joint	FH	Flexible Hose		
YEAR	OWNER PROJECT NAME		LOCA	ION	ITEM	ТҮРІ	E	SIZE (mm) I.D. x LENGTH	Q'TY	
2015	SHELL	PRELUDE FLNG	KOR	EA	FH	Metal Flexib	le Hose	50 x 5000	34	
2015	KNPC	KNPC FCC,SWT,C/T FOR CFP AT MAA REFINERY	KUW	AIT	FH	Metal Flexib	le Hose	50 x 1500	6	
2015	GROUPE OCP	MOROCCO JL FERTILIZER PROJECT	MORC	ссо	REJ	Rubber Exp Joint		500 x 200	2	
2015	SPE	RAS DJINET 1131.1MW PROJECT	ALGE	RIA	MEJ	Metal Flexib	le Joint	250 x 1300	16	
2015	SNNC	SNNC FE-NI PLANT CAPACITY EXPANSION JOINT	KOR	EA	MEJ	Fabric Expans	ion Joint	574 x 120	1	
2015	TUAS POWER GENERATION	TUAS CCPS	SINGA	PORE	REJ	Rubber Exp Joint		250 x 220	2	
2015	TANJUNG BIN ENERGY ISSUER BHD	TANJUNG BIN 4	MALA	YSIA	REJ	Rubber Exp Joint	ansion	300 x 2300	17	
2015	SWCC	SWCC-YANBU MADINA PHASE 3	SAUDI ARABIA		MEJ	Metal Expansion Join		900 x 960	29	
2015	BHP BILLTON	ESCONDIDA RO	CHILE		REJ	Rubber Expansion Joint		25 x 600	53	
2015	ORIENTAL PETROCHEMICAL	OPC PTA PLANT PROJECT	CHINA		REJ	Rubber Expansion Joint		1200 x 600	2	
2015	STATE CONCERN "TURKMANGAS"	TURKMENISTAN ETHANE CREACKER AND PE PP	TURKMENISTAN		MEJ	Metal Expansion Joint		300 x 300	8	
2015	SHUWEIHAT S2	SHUWEIHAT S2 IWPP	USA		FH	Metal Flexible Hose		400 x 1000	1	
2015	BORYEONG LNG TERMINAL. CO.,LTD	BORYEONG LNG TERMINAL	KOR	EA	REJ	Rubber Expansion Joint		1500 x 700	9	
2015	SK ADVANCED	PDH PROJECT	KOR	EA	REJ	Rubber Exp Joint		750 x 500	3	
2015	PAGBILAO ENERGY CORP.	PAGBILAO COAL-FIRED POWER PLANT	PHILIP	PINES	REJ	Rubber Exp Joint	ansion	2100 x 400	9	
2015	PMP CO.,LTD	JANGMOON COMBINED CYCLE POWER PROJECT	KOR	EA	REJ	Rubber Exp Joint		1800 x 309	76	
2015	TAIWAN POWER COMPANY	TPC LIN KOU POWER PLANT	TAIW	AN	FH	Composite F Hose	lexible	40 x 10000	6	
2015	LOS HUMEROS III GEOTHERMAL PP	LOS HUMEROS III	MEX	со	REJ	Rubber Exp Joint		1500 x 350	15	
2015	LOS HUMEROS III GEOTHERMAL PP	LOS HUMEROS III	MEX	со	MEJ	Rubber Exp Joint		1200 x 745	12	
2015	KNPC	KNPC CLEAN FUELS	KUWAIT		FH	Rubber Expansion Joint		25.4 x 15000	735	
2015	CPC	CPC TAOYUAN REFINERY	TAIWAN		MEJ	Metal Expansion Joint		2450 x 13800	2	
2015	PARTNERSHIPS TECHNICAL BUREAU	AZ-ZOUR NORTH IWPP	KUW	AIT	REJ	Rubber Expansion Joint		750 x 2800	3	
2015	NSRP LIMITTED LIABILITY COMPANY	NGHI SON REFINERY PROJECT PPU	VIET	IAM	MEJ	Metal Expansi	on Joint	250 x 1000	62	
2015	NSRP LIMITTED LIABILITY COMPANY	NGHI SON REFINERY PROJECT PPU	VIETI	IAM	MEJ	Metal Expansi	on Joint	500 x 300	20	



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Since its founding in 1986, we have devoted ourselves to research, development, and

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