



## Company Profile



**MANN FLOW CONTROLS, INC**  
[www.mannflowcontrols.com](http://www.mannflowcontrols.com)

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# About Us



- Mann Flow Controls, Inc. (MFC) is a manufacturer of high quality valves and flow control products based in Spring, about 25 miles north of Houston, Texas, USA.
- We manufacture ball valves, check valves, gate valves, globe valves, plug valves and specialty valves.
- Our valves meet API 6A, API 6D, API 594 and API 599 and API 600 specifications.
- MFC is dedicated to provide our customers with high quality valves that are designed, manufactured and tested to the exacting standards of various qualifying certification bodies.
- In addition to these external certification bodies audit, MFC maintain a self-auditing Quality Assurance program which provides us with identifiable goals for continuous quality improvements.
- Our QA department have emphasized on material traceability, (working with our affiliated production facilities) we conduct PMI laboratory with Optical Emission Spectrometer technology + RT-MT-.
- We believe that the integrity of materials provide for MFC valves are not just in a certificate but every valves produced must pass our rigid tests throughout the manufacturing process, including a final hydrostatic test prior to shipping.
- MFC offers other testing – non-destructive testing (NDT) or destructive testing may be performed to customer requirements or specifications. We work closely with established valve testing and inspection companies in Houston and around the world, conduct these additional testing required by customers.
- Our engineering department consisting valve engineers, metallurgist, valve designers and draftsperson is ready to serve our customers diverse needs and meet customer requirements.
- Whether the specification is mundane or unique, our engineering department brings a wealth of experience, knowledge and resources required to solve customer's application criteria.
- Additionally, our engineering department is able to provide design for custom and specialty requirements requested by customers.

# Objective, Focus and Edge

**When it comes to valves, we believe that your most important purchase consideration is quality, reliability, total cost of ownership and delivery. The longer a valve performs as designed and without problems, the lower the total cost of ownership. We believe our valves can compete in those terms with our competitors' in the market today.**



## Commitment to Customer Service

MFC has affiliated strategically with various manufacturing facilities located in the USA and throughout the world, allowing us to focus on providing our customers with rapid response times for products and service needs.

Through these affiliations, we are able to provide various type of valves of various sizes and various pressure classes in virtually any metallurgy required by our customers. In addition, we are committed to significantly increasing our affiliations with many more manufacturing facilities to meet our customers' growing needs. As such, we are consistently developing and expanding the list of products and services to our customers.

## Quality Control and Assurance

MFC is committed to providing the highest quality products and services to our customers. This will be done without compromising our commitment to the environment, pollution prevention, or the health and safety of our greatest asset, our employees.



As a company, our management system processes is being developed by applying the latest industry techniques with a program structure in full compliance with the following standards: ISO 9001 (Quality Management Systems) and API Q1 (Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry).

We always ensure that we only affiliated ourselves with manufacturing facilities in the USA and throughout the world that are certified with various quality and management processes programs with International Organization for Standardization (ISO), American Petroleum Institute (API), British Standard Institute (BS), the Europe Union's Certificate of Conformity (CE) and various quality control and assurance certification bodies throughout the world.



# Objective, Focus and Edge (Continued)

When it comes to valves, we that your most important purchase consideration is quality, reliability, total cost of ownership and delivery. The longer a valve performs as designed and without problems, the lower the total cost of ownership. We believe our valves can compete in those terms with our competitors' in the market today.

## Environmental Health & Safety

We are committed to providing a safe and healthy workplace to all employees, visitors, and contractors. Adherence to the EH&S policy is a responsibility and a condition of employment of every individual at MFC.



We are continuously developing best practices, standards, and guidelines for EH&S training as required by regulation, policy, or safe job performance in a "readily understandable" format. These practices will take the form of standardized methods and acceptable criteria that facilitates learner comprehension.

Standards and guidelines will be established within the framework of an effective training program. These practices will be developed continuously where more stringent regulations, guidelines or criteria for training is available or required.



## Experience, Knowledge & Innovations

The management and engineering team at MFC is an innovative and forward thinking group of individuals with more than decades of cumulative experience in the industry

Our team combines seasoned veterans considered at the top of their respective fields and fresh new talent with no industry defined constraints on their thinking. This meshing of ability brings fresh and innovative solutions to an ever changing and demanding industry.

In addition, our team always keep abreast with the latest engineering and technology improvements in the industry by networking, attending seminars, conferences and trade shows and subscribing to various industry publications.

# Industries Served

MFC is unique in that all our valves are available in all ANSI and API pressure classes and virtually any metallurgy required. From carbon and alloy steel to stainless and exotics including titanium and zirconium, we can accommodate the most ordinary and extraordinary requirements. MFC is dedicated to manufacture and supply of high quality valves in accordance with customer specifications, competitively price and delivered on time. MFC manufactures gate valves, globe valves, check valves, ball valves, special service valves and other products to various industries – Oil & Gas, Petrochemical, Power Generation and Water Industries.

## Oil & Gas Industry



The scale, scope and complexity of the oil and gas industry are almost incomprehensible. Words like enormous, immense and massive inadequately describe its collective activities to find, produce, transport and process the hydrocarbons the world needs for its continuing and growing prosperity. On every continent and in every ocean, the world's largest and most technologically advanced companies extract millions of barrels of oil and gas each day. MFC through its people, products and services is willing to play our role in the day-to-day operational success and the future technological advancement in the oil and gas industry.

## Petrochemical Industry



Valves used in the petrochemical industry are very important parts of components in the industry. Fitting the wrong valve can result in a major disaster and huge loss for petrochemical companies. MFC believes that our valves, products and services are able to deliver value to the petrochemical industry while handling some of the world's most hazardous and corrosive chemicals. Providing valves, products and services that define chemical industry standards, we deliver maximum value and dependability to our customers safely and reliably. We want to help our customers exceed their business goals through the use of our valves, products and services for the petrochemical industry.

# Industries Served (Continued)

## Power Generation Industry



Although non-hydro renewable energy will grow faster than any other primary energy source, most electricity is generated by conventional gas and coal-fired power plants. Product characteristics are getting more complex and severe as these fossil-fueled power stations continue to change technology, reduce emissions and improve efficiency. MFC's portfolio of valves are able to help optimize and control critical systems used by power producers and manufacturers of turbines and utility boilers in power generation industry by offering a wide range of solutions built to their specifications. Our valves can be used in the various types of plants such as conventional, hydroelectric, geothermal, solar thermal and bio gas power plants.

## Water Industry



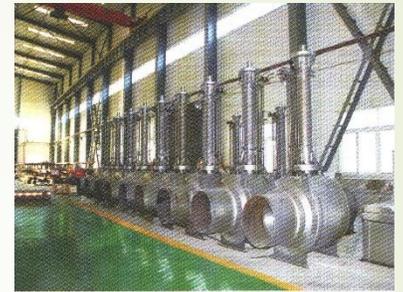
The water industry provides drinking water and wastewater services (including sewage treatment to residential, commercial, and industrial sectors of the economy). The modern water industry operates sophisticated and costly water and wastewater networks and sewage treatment plants, and typically consumes 1-2% of GDP. It is expected that the water industry will continue to grow as it faces supply and demand challenges related to global population growth, increased consumption and urbanization. MFC plans to take advantage of this growing water industry by bringing together the best-suited products from our valves and products portfolio to tailor a complete solution that fits our customers' individual needs.

# Products - Summary

- ▶ MFC provides a wide selection of valves meeting the flow control requirements of the oil & gas, petrochemical, power generation and water industries. Depending on the need, MFC is looking forward to help our customers in any way possible to meet their valve procurement efforts. Our valves are designed, manufactured and tested in accordance with API, ANSI and ASME requirements. Please refer to our Specification Conformance list for the most important applicable standards. In addition, our valves may be produced with other standards according to customer request.
- ▶ MFC manufactures standard and specialty valves, including:
  - ▶ Ball Valves
  - ▶ Butterfly Valves
  - ▶ Check Valves
  - ▶ Gate Valves
  - ▶ Globe Valves
  - ▶ Plug Valves
  - ▶ Specialty Valves
  - ▶ Wellhead Equipment and Christmas Tree
- ▶ Valve Trim
 

The materials that we used in our valves depend on the industry served and customer specifications include the followings:

  - ▶ Stainless Steel and Carbon Steel
  - ▶ Aluminum Bronze
  - ▶ Cast Iron and Ductile Iron
  - ▶ Duplex and Super Duplex
  - ▶ Hastelloy, Incoloy, Inconel, Monel™
  - ▶ Tantalum, Titanium and Zirconium
- ▶ Size, and Pressure Rating
  - ▶ Valves' size range from 2" to 40" (DN 50MM to 2000MM)
  - ▶ Working pressures are rated from ANSI Class 150 to ANSI Class 4500
  - ▶ Working pressures are rated from API 2000 PSI to API 20000 PSI.



# Products – Summary (Continued)

## ► Temperature And Service Condition

The working temperature conditions range from record setting low temperature valves to high temperature valves used in the most critical services where high temperature conditions exist. Below are the list temperature and service conditions we offer in our valves:

- Corrosive Service
- VSP erosive (slurry) Service
- High Temperature
- Low Temperature (-46 Degree Celsius)
- Cryogenic Service (-196 Degree Celsius)
- Underground Service
- Low maintenance valves.



## ► Valve Design

MFC offers valve design services to our customers in our focus and commitment to support all aspects of valve industry. Through affiliation with our partners, we have the capability to design and develop valves in accordance with recognized worldwide standards – API, ASME, ASTM, EN, ISO, NACE, BSI, MSS & PED and according to customer specification. Our technical ability and experience means that we can find the right solution for our customers.

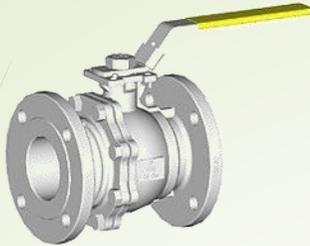
## ► Valve Design and Field Service

We offer field service capabilities including:

- Actuation adaptation
- Alignment
- Diagnostic evaluation
- Emission containment,
- Engineering & hot tap modification
- Hydraulic field testing
- Repair
- Limit switch installation
- Inspection and maintenance.



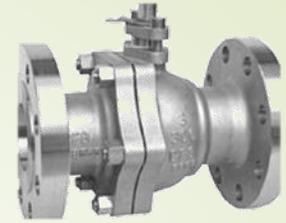
# Products – Ball Valves



Flanged Ball Valve



Forged Steel Ball Valve



Cast Steel Ball Valve

## ► Type

**MFC** has the capabilities to produce any type of ball valves a customer requires. In addition, we offer ball valves that meets:

- API 6D – Pipeline Ball Valves
- API 6A - Wellhead Ball Valves

## ► Operation

- Bare Stem
- Handwheel
- Lever
- Gear
- Actuator



## ► Body Style

- Single Body
- Two Piece Body
- Three Piece Body
- Split Body
- Top Entry
- Welded Body

## ► Bore Style

- Full Port (Full Bore Ball Valve)
- Reduced Port (Reduced Bore Ball Valve)
- V Port
- Trunnion Mounted
- Floating
- Cavity Filler

## ► Design

- Three-Way Design
- Four-Way Design



# Products – Ball Valves (Continued)



Fully Welded Ball Valve Duplex SS Ball Valve

## ► Size & Pressure Rating

SIZE	ANSI CLASS						
	150	300	600	900	1500	2500	4500
2"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 12"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 24"	Yes	Yes	Yes	Yes	Yes		
Up to 48"	Yes	Yes	Yes	Yes			

## ► Materials

- Body: Available in WCB, LCB, LCC, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, Inconel, Duplex, Super Duplex, etc.
- Seat: Options of metal seated and soft seated

# Products – Butterfly Valves



Wafer Butterfly Valve



Lug Butterfly Valve



Flange Butterfly Valve

## Type

**MFC** offers following type of butterfly valves:

- ▶ Wafer/Lug Butterfly Valves
- ▶ Flanged Butterfly Valves
- ▶ Concentric Butterfly Valves
- ▶ Double Eccentric Butterfly Valves/  
High Performance Butterfly Valves/  
Double Offset Butterfly Valves
- ▶ Triple Eccentric Butterfly Valves/  
Triple Offset Butterfly Valves

## ▶ Size & Pressure Rating

- ▶ Size : 1.5"~48"
- ▶ Rating : 125~250 LB

## ▶ Materials

- ▶ Body & Disc: Available in Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Alloy Steel, Duplex SS
- ▶ Seat: Available in EPDM, NBR, PTFE, Viton™, Neoprene™, NR, Heat-Resistance Rubber, etc.



Double Flange Butterfly Valve



Concentric Double Flange  
Butterfly Valve

# Products – Check Valves



Lift Check Valve



Pressure Seal Check Valve



Swing Check Valve

## ► Type

We offer various types of check valves that customers require. In addition, we offer check valves that meet API 594, API 600, API 6D and API 6A.

Our extensive line of check valves are as follows:

- Ball Check Valves
- Pressure Seal Check Valves
- Diaphragm Check Valves
- Swing Check Valves/Tilting Disc Check Valves
- Stop-Check Valves
- Lift-Check Valves
- Wafer Check Valves



Wafer Check Valve

## ► Size & Pressure Rating

SIZE	ANSI CLASS						
	150	300	600	900	1500	2500	4500
2"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 14"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 24"	Yes	Yes	Yes	Yes			
25"	Yes	Yes	Yes				
26"	Yes	Yes	Yes				
Up to 36"	Yes	Yes					

## ► Materials

- Body: Available in WCB, LCB, LCC, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, Inconel, Duplex, Super Duplex, etc.
- Seat: Options of metal seated and soft seated

# Products – Gate Valves



Pressure Seal Gate Valve



Through Conduit Gate Valve  
(API 600)



Parallel Slab Gate Valve  
(API 6D)

## ► Type

**MFC** has the capabilities to produce any type of ball valve a customer requires. Our extensive line of gate valves as follows:

- Parallel Slide Gate Valves
- Pressure Seal Gate Valves
- Wedge Gate Valves
- Expanding Gate Valves
- Geothermal Gate Valves

In addition, we offer gate valves that meet:

- API 6D – Pipeline Gate Valves
- API 6A - Wellhead Gates Valves

## ► Stem

- Rising Stem
- Non-Rising Stem

## ► Bonnet

- Screw
- Union
- Bolted Bonnet
- Pressure Seal Bonnet

## ► Flange

**MFC** offers gate valves that may have flanged ends which are drilled according to pipeline compatible flange dimensional standards.



Forged Steel gate valve

# Products – Gate Valves (Continued)



API 6A FC Type Manual Gate Valve



API 6A Expanding Gate Valve



API 6A Gate Valve (Flange End)

## ► Size & Pressure Rating

SIZE	API PRESSURE RATING (PSI)					
	2000	3000	5000	10000	15000	20000
1-13/16"	Yes	Yes	Yes	Yes	Yes	Yes
Up to	Yes	Yes	Yes	Yes	Yes	Yes
14"	Yes	Yes	Yes	Yes	Yes	Yes
16"	Yes	Yes	Yes	Yes	Yes	Yes

## ► Materials

- Body: Available in carbon and alloy + stainless.
- Seat: Options of metal seated and soft seated.

## ► API 6A Gate Valves:

- We offers Manual Gate Valves, Expanding gate Valves, Flange End Gate Valves and FC (Cameron) gate Valves
- Size: Size according to API from 1-13/16" to 16"
- Working Pressure : 2,000~20,000psi
- Material Class: AA, BB, CC, DD, EE, FF, HH
- Working Temperature: PU, LU
- Specification Level: PSL:1 to PSL-4
- Performance Requirement: PR-1 and PR-2

# Products – Globe Valves



T-Pattern Globe Valve



Y-Pattern Globe Valve



Angle Globe Valve



Pressure Seal Globe Valve

## ► Type

We offer the following type of globe valves:

- T Pattern Globe Valves
- Angle Pattern Globe Valves
- Y Pattern Globe Valves
- Pressure Seal Globe Valves

In addition, we offers globe valves that meet:

- API 6D
- API 6A



Globe Valve

## ► Size & Pressure Rating

SIZE	ANSI CLASS						
	150	300	600	900	1500	2500	4500
2"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Up to 10"	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12"	Yes	Yes	Yes	Yes	Yes		
Up to 18"	Yes	Yes	Yes				
Up to 24"	Yes	Yes					

## ► Materials

- Body: Available in WCB, LCB, LCC, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, Inconel, Duplex, Super Duplex, etc.
- Seat: Options of metal seated and soft seated

# Products – Plug Valves



Worm Gear Plug Valve



Eccentric Plug Valve



Orbit Plug Valve



3-Way Plug Valve

## ► Type

**MFC** offers the followings plug valves:

- 2-Port Valves or 2-Way Plug Valves
- 3-Port Valves or 3-Way Plug Valves

In addition, we offers plug valves that meets:

- API 599
- API 6D – Pipeline Plug Valves
- API 6A - Wellhead Plug Valves

## ► Pattern Version

Our plug valves are available in three versions:

- Short Pattern
- Regular Pattern
- Venturi Pattern

## ► Size & Pressure Rating

PATTERN	ANSI CLASS					
	150	300	600	900	1500	2500
SHORT	2"-12"	2"-12"				
REGULAR	6"-12"	6"-24"	2"-10"	2"-10"	2"-12"	2"-12"
VENTURI	2"-12"	2"-24"	6"-24"	6"-16"	6"-12"	

## ► Materials

ASTM A216 WCB, ASTM A351 CF8M, ASTM A216 WCC, etc - according to ASME B16.34

## ► Operations

- Plug Valves can be equipped with a gear operator, a pneumatic or electric motor actuator



Pressure Balance Plug Valve



API 6A Plug Valves



# Products – Specialty Valves



Emergency Shut-down Valve



Top Entry Ball Valve



Rotary Control Valve



Choke Valve

## ► Type

Below is an overview of some of the non-standard type valves that we offer:

- Wafer Valves
- Thru-Conduit Valves
- Angle Valves
- Y-pattern Valves
- Pressure-Seal Bonnet Valves
- Multi-Port Valves
- Knife Gate Valves
- Emergency Shut-down Valves (ESD Valves)
- Non-Slam Piston Check Valves
- Nozzle Check Valves
- Full Port Plug Valves
- Flood Valves
- Sub-Sea Service Valves
- Fully Welded Body Valves
- Top Entry Ball Valves
- High Temperature Switching Valves
- Cryogenic Service Valves
- Rotary Control Valves
- Surface Safety Valves (SSV Valves)
- Valve with Ball Screw
- Valve with Gearbox
- Adjustable Choke Valves
- Positive Choke Valves



Nozzle Check Valve



Gearbox Butterfly Valve



Ball Screw Gate Valve



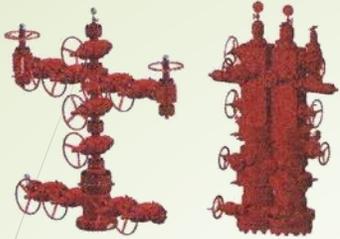
Fully Welded Body Ball Valve



Knife Gate Valve



# Products – Wellhead Equipments & Christmas Trees



Christmas Tree



Multi Bowl Wellhead Assembly



Choke & Kill Manifold

## ► Type

Below is an overview of some of the non-standard type valves that we offer:

- Casing Head Assembly
- Casing Head Body
- Casing Hanger
- Casing Head Tool
- Tubing Head Body
- Casing Secondary Seal Ring
- Tubing Hanger
- Multibowl Wellhead Assembly
- Wellhead Tools
- Dual Completion Wellhead
- Unihead
- High Pressure Oil & Gas Wellhead
- PCP Wellhead
- Gas Wellhead Equipment
- Drilling Choke
- Choke Manifold
- Choke and Kill Manifold
- Combination Manifold
- Mud Manifold
- Mud-Gas Separator



Casing Head



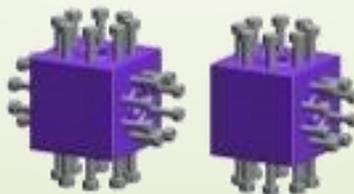
Casing Spool



Christmas Tree Cap



Hammer Union



Tees and Crosses

# Facilities

MFC is based in Spring, about 25 miles north of Houston, Texas, USA – the energy capital of the world. We are in the process of moving into new headquarter accommodate Sales, Projects, Engineering, QA, Procurements, Administrative, and Finance departments. This new headquarter will be close to the new ExxonMobil campus in Spring, near The Woodlands.



We are also in the process of moving its assembly, testing and painting facilities to a new building in Nowata, Oklahoma to accommodate its growth and business g its expansion. This building will also serve as warehousing and distribution center for our products. We have chosen to move to Nowata because of its close proximity to various manufacturing facilities in Bartlesville and Tulsa that will smoothly facilitate the production and delivery of valves ordered by customers. Additionally, the relative lower costs in Nowata as compared to Houston will enable MFC to pass the cost saving benefits to our customers.

## Head Office

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Tel No : +1 713-589-3373  
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Email : [info@mannflowcontrols.com](mailto:info@mannflowcontrols.com)

## Warehouse & Distribution

Nowata, OK 74048 USA  
Tel No : +1 918-559-5907  
Fax No. : +1 800-839-4506  
Email : [nowata@mannflowcontrols.com](mailto:nowata@mannflowcontrols.com)



# Certifications

MFC quality system processes are being developed by applying the latest industry techniques with a program structure in full compliance with the following standards:

- ISO 9001 – Quality Management Systems
- API Q1 – Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry
- API 6A – Specification for Wellhead and Christmas Tree Equipment
- API 6D – Specification for Pipelines Valves
- API 6FA – Fire Test for Valves
- API 6D-SS – Specification for Subsea Pipeline Valves

MFC IS IN THE PROCESS OF OBTAINING API CERTIFICATIONS ON ITS QUALITY MANAGEMENT SYSTEMS AND API PRODUCT MONOGRAMS



# Specification Conformance

Our valves are designed, manufactured and tested in accordance with API, ANSI and ASME requirements. The following list contains the most important applicable standards. MFC valves may be produced with other standards on request.

## ANSI – American National Standard Institute

B 1.20.1	Pipe threads, general purpose.
B 16.5	Steel pipe flanges and flanged fittings.
B 16.10	Face-to-face and end-to-end dimensions of ferrous valves.
B 16.25	Butt welding ends.
B 16.34	Steel valves-flanged and butt welding ends.

## API – American Petroleum Institute

API Spec. Q1	Specification for quality programs for petroleum, petrochemical and natural gas industry
API 6A	Specification for wellhead & christmas tree equipment
API 6D	Specification for pipelines valves
API 6D-SS	Specification for subsea pipeline valves
API 598	Valves inspection and testing
API 6FA	Fire test for valves
API 607	Fire test for soft seated

## ISO – International Organization for Standardization

ISO 9001	Quality systems-model for quality assurance in design, development, production, installation and servicing.
ISO 15156	Materials for use in H <sub>2</sub> S containing environments in oil and gas production.

## MSS – Manufacturers Standardization Society

SP 6	Standard finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings.
SP 25	Standard marking systems for valves, fittings, flanges and unions
SP 55	Quality standard for steel castings.

## NACE – National Association of Corrosion Engineers

MR0175	Sulfide stress cracking resistant metallic materials for oilfield equipment
MR0103	Materials resistant to sulfide stress cracking in corrosive petroleum refining environments.



# Past Experiences

The personnel of MFC combines seasoned veterans considered at the top of their respective fields and fresh new talent with no industry defined constraints on their thinking. The list shown below are the projects of which our personnel had been involved either in terms of sales or manufacturing.

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
2014	USA	KELOGG, BROWN & ROOTS (KBR)	30" & 36" TRUNNION MOUNTED BALL VALVES
2014	MALAYSIA	PETRONAS CARIGALI	2" CL 1500 FLOATING BALL VALVES
2014	MALAYSIA	PETRONAS CARIGALI	10" CL600 ACTUATED TRUNNION MOUNTED BALL VALVES
2014	MALAYSIA	PETRONAS CARIGALI	5-1/8" 15000# GATE VALVES API 6A PSL-3 PR-2, F22 MATERIAL 9" 15000# GATE VALVES API 6A PSL-3 PR-2, F22 MATERIAL 11" 15000# GATE VALVES API 6A PSL-3 PR-2, F22 MATERIAL 13-5/8" 15000# GATE VALVES API 6A PSL-3 PR-2, F22 MATERIAL
2012	MALAYSIA	PETRONAS CARIGALI	1" CL600 PRESSURE REDUCING VALVES
2012	MALAYSIA	PETRONAS CARIGALI	4" 150# DELUGE VALVES FOR SEAWATER SERVICE
2011	MALAYSIA	PETRONAS CARIGALI	1/16 400# 10-PORT VALVES WITH ROTOR
2011	MALAYSIA	PETRONAS CARIGALI	2" CL150 GATE VALVES
2011	OMAN	OCCIDENTAL OF OMAN INC.	4"-24" 150# BALL VALVES DUAL PLATE WAFER CHECK VALVES 150# GLOBE VALVES 150#
2010	MALAYSIA	PETRONAS CARIGALI	2" CL900 ACTUATED GLOBE VALVES
2010	IRAQ	SOUTH OIL COMPANY	4 1/16" 3,000# CHOKE VALVES API 6A
2010	PAKISTAN	PRESSON DESCON INT'L	2"-6" 10K API 6A BALL & CHECK VALVES
2010	IRAQ	MINISTRY OF OIL, IRAQ	42" TRUNNION MOUNTED BALL VALVES
2010	INDONESIA	TROUVAY & CAUVIN GULF (CHEVRON)	3"-24" 300#-5000# GEOTHERMAL PIPELINE GATE VALVES
2010	IRAQ	SOUTH OIL COMPANY	4 1/16" 3,000# CHOKE VALVES API 6A
			4 1/16" 3,000# SURFACE SAFETY VALVES
2010	PR CHINA	SINOPEC	3/4"-24" 300#-5000# GATE & BALL VALVES
2010	VENEZUELA	PDVSA	3"-20" 150#-600# PLUG VALVES
2009	IRAQ	SOUTH OIL COMPANY	42" 600# BALL VALVES, CARBON STEEL
2009	MALAYSIA	PETRONAS CARIGALI	10" CL150 ACTUATED PINCH VALVES
2009	MALAYSIA	PETRONAS CARIGALI	1-1/2" CL300 ACTUATED YS BODY VALVES
2009	MALAYSIA	PETRONAS CARIGALI	2" 600# BALL VALVES API 6D
2008-2009	UAE	ABU DHABI NATIONAL OIL CO. (ADNOC)	DAS ISLAND GAS PLANT PROJECT 2"-30" 150#-900# BALL VALVES
2008-2009	IRAQ	SOUTH OIL COMPANY	2"-10" 150#-300# API 600 GATE VALVES CARBON STEEL 10"-16" 150#-600# API 6D GATE VALVES CARBON STEEL 18"-48" 600# TOP ENTRY TRUNNION BALL VALVES, CARBON STEEL



# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
2008-2009	USA	DENBURY RESOURCES	BALL/GATE VALVES 150# -1500# 2" -24" CARBON STEEL X SS/SS XSS
2008-2009	IRAQ	SOUTH OIL COMPANY	API 6A GATE VALVES/ADJUSTABLE CHOKE VALVES 5000#-10,000# CARBON STEEL
2008-2009	IRAQ	SOUTH OIL COMPANY	API 6A GATE VALVES/ADJUSTABLE CHOKE VALVES 1500#, 3000#, 5000# CARBON STEEL
2008-2009	IRAQ	SOUTH OIL COMPANY	4 1/16" 3,000# API 6A GATE VALVES - COMPLETE WITH SENSING SYSTEMS, MATERIAL 60K
2008-2009	IRAQ	SOUTH OIL COMPANY	14"-20" 150# -300# API 600 GATE VALVES, CARBON STEEL
2008-2009	IRAQ	NORTH REFINERIES CO.	3"-12" API 600 ACTUATED GATE VALVES CARBON STEEL COMPLETE WITH ELECTRIC ACTUATORS
2008	MALAYSIA	PETRONAS CARIGALI	3-1/16 10000# GATE VALVE API 6A 3-1/8 5000# GATE VALVE API 6A
2008	MALAYSIA	PETRONAS CARIGALI	4"-10" 150# TRUNNION MOUNTED BALL VALVES API 6D 4"-16" 300# TRUNNION MOUNTED BALL VALVES API 6D 4"-12" 600# TRUNNION MOUNTED BALL VALVES API 6D 2-1/16 10000# CHECK VALVE API 6A PR-1 PSL-1 2-1/16 5000# CHECK VALVE API 6A PR-1 PSL-1 2"-16" 300# WAFER LUG CHECK VALVES API 594 4" 600# WAFER LUG CHECK VALVES API 594 3/4" 300# GATE VALVES API 602 1/2" 10000# NEEDLE VALVES API 6A 1/2" 6000# NEEDLE VALVES API 6A 1" 600# GATE VALVES API 602 2"-4" 300# GLOBE VALVES API 600 2" 600# GLOBE VALVES API 600
2008	IRAQ	SOUTH OIL COMPANY	4 1/16" 10,000# API 6A GATE VALVES COMPLETE WITH SENSING SYSTEMS, MATERIAL 60K
2008	IRAQ	SOUTH OIL COMPANY	20" 150# SIDE ENTRY TRUNNION MOUNTED BALL VALVES, CARBON STEEL X 316SS
2008	USA	PETROLOGISTIC OLEFINS LLC	PETROLOGISTICS NATURAL GAS PROJECT PIPELINE & COMPRESSOR STATION 2"-24" 150#-600# TOP ENTRY BALL VALVES CARBON STEEL 2"-20" 150#-600 SWING CHECK VALVES CARBON STEEL 2"-20" 150#-600# GLOBE VALVES CARBON STEEL
2008	EGYPT	TRANS AFRICA FOR TRADING OIL FIELD SERVICES EGYPT	2" THRU 24" 300#-1500# TOP ENTRY BALL VALVES CS X DUPLEX STAINLESS STEEL
2007	IRAQ	SOUTH OIL COMPANY	10"-16" 1500# SIDE ENTRY TRUNNION MOUNTED BALL VALVES, CARBON STEEL, API 6D
2007	UAE	SINGLE SOURCE MULTIPLE SOLUTIONS, INC.	AATRA PROJECT-UAE  2" THRU 24" 150#-600# FULL PORT TRUNNION MOUNTED BALL VALVES CS X SS TRIM
2006-2007	UAE	ADGAS ADMA OPCO	AS ISLAND-REFURBISHED PROJECT 2" THRU 30" 150#-600# FULL PORT BALL VALVES WITH INCONEL TRIM
2006	MALAYSIA	PETRONAS CARIGALI	14" CL 300 ACTUATED TWINSEAL PLUG VALVES
2006	USA	BRITISH PETROLEUM	TEXAS CITY TEXAS REFINERY REFURBISHMENT 48" 150# GATE VALVES

# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
2008	MALAYSIA	PETRONAS CARIGALI	4"-10" 150# TRUNNION MOUNTED BALL VALVES API 6D 4"-16" 300# TRUNNION MOUNTED BALL VALVES API 6D 4"-12" 600# TRUNNION MOUNTED BALL VALVES API 6D 2-1/16 10000# CHECK VALVE API 6A PR-1 PSL-1 2-1/16 5000# CHECK VALVE API 6A PR-1 PSL-1 2"-16" 300# WAFER LUG CHECK VALVES API 594 4" 600# WAFER LUG CHECK VALVES API 594 3/4" 300# GATE VALVES API 602 1/2" 10000# NEEDLE VALVES API 6A 1/2" 6000# NEEDLE VALVES API 6A 1" 600# GATE VALVES API 602 2"-4" 300# GLOBE VALVES API 600 2" 600# GLOBE VALVES API 600
2008	IRAQ	SOUTH OIL COMPANY	4 1/16" 10,000# API 6A GATE VALVES COMPLETE WITH SENSING SYSTEMS, MATERIAL 60K
2008	IRAQ	SOUTH OIL COMPANY	20" 150# SIDE ENTRY TRUNNION MOUNTED BALL VALVES, CARBON STEEL X 316SS
2008	USA	PETROLOGISTIC OLEFINS LLC	PETROLOGISTICS NATURAL GAS PROJECT PIPELINE & COMPRESSOR STATION 2"-24" 150#-600# TOP ENTRY BALL VALVES CARBON STEEL 2"-20" 150#-600 SWING CHECK VALVES CARBON STEEL 2"-20" 150#-600# GLOBE VALVES CARBON STEEL
2008	EGYPT	TRANS AFRICA FOR TRADING OIL FIELD SERVICES EGYPT	2" THRU 24" 300#-1500# TOP ENTRY BALL VALVES CS X DUPLEX STAINLESS STEEL
2007	IRAQ	SOUTH OIL COMPANY	10"-16" 1500# SIDE ENTRY TRUNNION MOUNTED BALL VALVES, CARBON STEEL, API 6D
2007	UAE	SINGLE SOURCE MULTIPLE SOLUTIONS, INC.	AATRA PROJECT-UAE  2" THRU 24" 150#-600# FULL PORT TRUNNION MOUNTED BALL VALVES CS X SS TRIM
2006-2007	UAE	ADGAS ADMA OPCO	AS ISLAND-REFURBISHED PROJECT 2" THRU 30" 150#-600# FULL PORT BALL VALVES WITH INCONEL TRIM
2006	MALAYSIA	PETRONAS CARIGALI	14" CL 300 ACTUATED TWIN SEAL PLUG VALVES
2006	USA	BRITISH PETROLEUM	TEXAS CITY TEXAS REFINERY REFURBISHMENT 48" 150# GATE VALVES
2006	MEXICO	SUMINISTROS MARINOS DE CAMPECHE CD. DEL CARMEN OFF SHORE PLATFORMS	8" THRU 36" 150-600# FULL PORT FULLY WELDED BALL VALVES
2005	MEXICO	COMMSA/ CIMISA- PEMEX OFF SHORE PLATFORMS	1/2"-12" 150#-1500# BALL VALVES 1/2"-12" 150# GATE VALVES 2"-20" 150#-900# DUAL PLATE WAFER CHECK VALVES 3"-12" 150# BUTTERFLY VALVES
2006-2007	UAE	ADGAS ADMA OPCO	AS ISLAND-REFURBISHED PROJECT 2" THRU 30" 150#-600# FULL PORT BALL VALVES WITH INCONEL TRIM



# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
2006	MEXICO	SUMINISTROS MARINOS DE CAMPECHE CD. DEL CARMEN OFF SHORE PLATFORMS	8" THRU 36" 150-600# FULL PORT FULLY WELDED BALL VALVES
2005	MEXICO	COMMSA/ CIMISA-PEMEX OFF SHORE PLATFORMS	1/2"-12" 150#-1500# BALL VALVES 1/2"-12" 150# GATE VALVES 2"-20" 150#-900# DUAL PLATE WAFER CHECK VALVES 3"-12" 150# BUTTERFLY VALVES
2004-2005	BRASIL	PETROBRAS	4" THRU 20" 150# THRU 300# TRICENTRIC TYPE BUTTERFLY VALVES
2004-2005	MEXICO	PEMEX	PLATAFORMAS: SINAN A, B, C & D 3/4" THRU 20" 150# THRU 2500# MANUAL BALL VALVES 2" THRU 12" 150# THRU 600# GATE VALVES API 600 2" THRU 20" 150# THRU 900# DUAL PLATE WAFER CHECK VALVES 2" THRU 12" 150# WAFER TYPE BUTTERFLY VALVES
1995-2005	MEXICO	PEMEX	BURGOS, POSA RICA, VILAHERMOSA PIPELINE FIELD DEVELOPMENT 2" THRU 24" 150-600# THRU CONDUIT GATE VALVES
2002-2003	BRASIL	HALLIBURTON KBR	BARRACUDA AND CARATINGA FIELDS DEVELOPMENT 2" THRU 14" 150# THRU 1500# METAL AND SOFT SEATED BALL VALVES 2" THRU 4" 150# THRU 1500# GLOBE VALVES
2002	MEXICO	TERMoeLECTRICA DE MEXICALI PROJECT	START UP VENT VALVES 3" THRU 12" 300# THRU 2500# ELECTRO-NEUMATIC ACTUATED GLOBE VALVES 1-1/2" THRU 20" 300# THRU 4500# ELECTRIC ACTUATED GATE AND GLOBE VALVES C12A MATERIAL
2002	MEXICO	CAMPECHE HEAT RECOVERY STEAM GENERATOR 17-G433	1-1/2" THRU 16" 300# THRU 4500# ELECTRIC ACTUATED PRESSURE SEAL GLOBE VALVES
2002	USA	TRISTATE MECHANICAL	SHERATON HOTEL-NEW YORK CITY 10" AND 12" 300# TRUNNION MOUNTED BALL VALVES FULL PORT
2002	UNITED KINGDOM	BP-NORTHSEA	BRITANNIA PROJECT TOPSIDE DIVISION 4", 6", 8" AND 10" 150# SHORT PATTERN FULL PORT BALL VALVES 14" 1500# FULL PORT BALL VALVES
2002	MEXICO	TERMoeLECTRICA DE MEXICALI PROJECT	START UP VENT VALVES 3" THRU 12" 300# THRU 2500# ELECTRO-PNEUMATIC ACTUATED GLOBE VALVES 1-1/2" THRU 20" 300# THRU 4500# ELECTRIC ACTUATED GATE AND GLOBE VALVES C12A MATERIAL
2002	MEXICO	NAES MEXICANA	CAMPECHE HEAT RECOVERY STEAM GENERATOR 17-G433 1-1/2" THRU 16" 300# THRU 4500# ELECTRIC ACTUATED PRESSURE SEAL GLOBE VALVES
2002	KAZAKHSTAN	BECHTEL/ SNAMPROGETTI JOINT VENTURE	KARACHAGANAK DEVELOPMENT PROJECT 2-9/16" 10,000# API 6A ACTUATED GATE VALVES 6" 900# GLOBE VALVES



# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
2002	EGYPT	ENPPI	CENTURION, WASTANITIE-IN PROJECT 3-1/8" API 5000 THRU CONDUIT PIPELINE GATE VALVES/HYDRAULIC ACTUATED MATERIALS INCLUDED: DUPLEX
2001-2002	USA	DEPARTMENT OF NAVY	48" AND 52" CLASS 150 GATE VALVES 4"-18" CLASS 150-600 GATE VALVES
2000-2002	MEXICO	PEMEX	PEMEX-BURGOS FIELD DEVELOPMENT 2"-6" CLASS 600-1500 PLUG & CHECK VALVES
2001	UNITED KINGDOM	HALLIBURTON KBR PRODUCTION SERVICES	MORECOMBE BAY HYDROCARBON LTD PROJECT 2", 4" AND 6" 150# THRU CONDUIT GATE VALVES
2001	UNITED KINGDOM	ELF ENTERPRISES	NORTH SEA 6" AND 8" 900# AND 1500# FULL PORT ALL STAINLESS BALL VALVES
2001	USA	ADAIR	3" 900# CHOKE VALVES MATERIAL (316SS)
2000	TURKMENISTAN/ RUSSIA	TURKMENGAS PRODUCTION FACILITY- RUSSIA	1/4"-48" FLANGE/PIPE/FITTINGS
1998-1999	MEXICO	PEMEX	VARIOUS PROJECTS 2"-36" BALL VALVES AND GATE VALVES
1998-1999	KUWAIT	CHINA PETROLEUM ENGINEERING CONSTRUCTION CORPORATION	PRODUCTION FACILITIES EXPANSION-WEST KUWAIT NEW GATHERING CENTERS 27, 28 AND TRANSIT LINES 3/4"-20 CLASS 150-900 DUAL PLATE WAFER CHECK VALVES 3/4"-10 CLASS 150-2500 GLOBE VALVES
1998-1999	KUWAIT	DAELIM ENGINEERING CO., LTD.	NEW GATHERING CENTRE GC-25-NORTH KUWAIT 1/2"-24" CLASS 150-900 BALL VALVES (SOFT AND METAL SEATED) 2"-36" CLASS 150-900 CAST STEEL VALVES
1998	USA	DEPARTMENT OF THE NAVY	RED HILL FUELING, PEARL HARBOR, HAWAII 12" AND 20" MOTOR OPERATED BALL VALVES
1998	KUWAIT	SUNKYONG ENGINEERING & CONSTRUCTION LIMITED	KNPC MULTI PROJECT DEVELOPMENT-ACID GAS REMOVAL PROJECT (AGRP) MINA AL-AHMADI REFINERY-KUWAIT, KUWAIT NATIONAL PETROLEUM CO. (K.S.C.) 1/2"-20" CLASS 150-600 TOP ENTRY BALL VALVES
1998	UNITED KINGDOM	CHEVRON	ALBA PLATFORM, NORTH SEA 12" CLASS 1500 TRUNNION MOUNTED BALL VALVES
1998	MEXICO	PEMEX/ PROTEXA	GASDUCTO 36" X 70 KM CD PEMEX TO NUEVO PEMEX, MEXICO 36" CLASS 600 THROUGH CONDUIT PIPELINE GATE VALVES 6"-36" CLASS 600 GAS/HYDRAULIC ACTUATED BALL VALVES
1998	COLOMBIA	TECHINT-COTECOL J.V./ BP EXPLORATION	CUSIANA-CUPIAGUA FULL FIELD DEVELOPMENT 2" GATE VALVES INCLUDING 2"-12" API 10,000 BOLTED BONNET GATE VALVES (LC3 X 316)
1996-1998	USA	GATX	STORAGE & TRANSPORT TERMINAL/MAINLINE VALVE REPLACEMENT, HOUSTON 24"-42" LOW PRESSURE TERMINAL GATE VALVES
1997	BRASIL	PETROBRAS/ TENENGE/ ODEBRECHT	SOLIMONES, BRAZIL 2"-24" CLASS 150-300 CAST STEEL VALVES 1"-16" CLASS 150-600 SOFT AND METAL SEATED ACTUATED BALL VALVE 8"-24" CLASS 150 ACTUATED PLUG VALVES



# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
1997	USA	U.S. AIR FORCE	AIRCRAFT ENGINE TEST FACILITY, ARNOLD AIR FORCE BASE 3" CLASS 2500 FULL PORT TRUNNION MOUNTED BALL VALVES
1997	USA	MCJUNKIN CORPORATION	TONKAWA GAS PLANT, COYANOSA, TEXAS 6" AND 8" CLASS 600 TRUNNION MOUNTED BALL VALVES
1997	KUWAIT	KUWAIT OIL COMPANY (KSC)	OIL PIPELINE UPGRADE 40" CLASS 300 BALL VALVES WITH GAS/HYDRAULIC ACTUATORS
1996-1997	COLOMBIA	TECHINT-COTECOL J.V./ BRITISH PETROLEUM/ BROWN & ROOT	COVENAS ON-SHORE TERMINAL/CENTRAL PROCESSING FACILITY, COLOMBIA 2"-30" CLASS 150-API 10,000 BOLTED AND PRESSURE SEAL BONNET GATE VALVES 3"-12" CLASS 150-API 10,000 GLOBE VALVES 2"-24" CLASS 150-API 10,000 TRUNNION MOUNTED BALL VALVES MATERIALS INCLUDED CARBON STEEL (WCB/A105), LOW TEMPERATURE CARBON STEEL (LCB/LC3), STAINLESS STEEL (316 AND DUPLEX)
1996-1997	COLOMBIA	PARSONS/ BRITISH PETROLEUM	CUSIANA DEVELOPMENT 2"-36" CLASS 150-2500 BALL, GATE AND CHECK VALVES MATERIAL INCLUDED CARBON STEEL (WCB/A105), LOW TEMPERATURE CARBON STEEL (LCB/LC3) STAINLESS STEEL (316 AND DUPLEX)
1996-1997	COLOMBIA	DISTRAL/ BROWN & ROOT/ BRITISH PETROLEUM	CUSIANA DEVELOPMENT AND PUMP STATIONS, COLOMBIA 1"-36" CLASS 150-2500 TRUNNION MOUNTED BALL VALVES 2"-36" CLASS 150-2500 CAST STEEL VALVES
1996	SAUDI ARABIA	BECHTEL/ SAUDI ARAMCO	RAS TANURA REFINERY UPGRADE PROJECT 3-WAY METAL SEATED COKER SWITCH VALVE
1996	MEXICO	PEMEX PEP/ INDUSA	SAMARIA 1187 VARIOUS GATE VALVES
1996	MEXICO	PEMEX PEP/ INDUSA	PADERON CORS-15/96 VARIOUS CAST STEEL VALVES
1995	KUWAIT	PARSONS/ HOECHST CELANESE	HAC EXPANSION PROJECT FORGED ZIRCONIUM SWING CHECK VALVES FOR ACETIC ACID SERVICE
1995	USA	BECHTEL/ LYONDELL-CITGO	LCR EXPANSION 2"-14" CLASS 150-900 CAST STEEL VALVES
1995	MEXICO	PEMEX/ LA SIERRITA	AKAL-J PLUG VALVES
1995	UAE	BECHTEL/ AD NOC	THAMMAMA OFFSHORE DEVELOPMENT, ABU DHABI UAE 1"-8" CLASS 150-1500 BALL VALVES (SOFT AND METAL SEATED) MATERIALS INCLUDED CARBON STEEL, STAINLESS STEEL AND MONEL.
1995	CANADA	FLUOR DANIEL/ SUNCOR	REFINERY EXPANSION, CANADA 2"-10" CLASS 600-1500 CAST STEEL VALVES
1995	SAUDI ARABIA	ARAMCO/ TEXACO/ KOC	JOINT PRODUCING ZONES PIPELINE 2"-30" CLASS 150-300 CAST STEEL AND BALL VALVES
1995	PAKISTAN	PAKISTAN STATE OIL	PQ-JETTY-PIPRI PIPELINE SYSTEM 8"-24" HIGH PRESSURE ACTUATED GATE VALVES
1994	ALGERIA	SOFREGAZ	VARIOUS PROJECTS IN ALGERIA 2"-18" CLASS 150 AND 300 CAST STEEL VALVES, SOME FOR CRYOGENIC SERVICE



# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
1994	MEXICO	PEMEX/ CELASA	PALMILLIAS-TOLUCA, PALOMAS CAST STEEL GLOBE AND GATE VALVES
1994	USA	JFK AIRPORT AUTHORITY	STONEY BROOK COLLEGE, STATE OF NEW YORK CO- GENERATION PLANTS 2"-12" CLASS 600-1500 BALL VALVES
1994	USA	BECHTEL/ CHEVRON	TEXAS REFINERY MAINTENANCE, PORT ARTHUR TENGHIZ PRODUCTION FIELD DEVELOPMENT 3"-24" CLASS 150 AND 300 CAST STEEL VALVES
1994	RUSSIA	SIBNEFTEGASPERERABOT KA	GAS PROCESS PLANT, RUSSIA 2"-10" CLASS 600 CAGE GUIDED CONTROL GLOBE VALVES
1994	USA	DEPARTMENT OF THE NAVY	ROTARY CONTROL VALVES WITH ARD@TRIM
1994	BRASIL	PETROBRAS	STOLT OFFSHORE PRODUCTION LOADING TERMINAL, BRAZIL 8" 3-WAY FULLY PIGGABLE TRANSFER VALVES
1993-1994	MEXICO	PEMEX/ INDUSTRIA DEL HIERRO	AKAL B & C/CAAN VARIOUS CAST STEEL VALVES AS WELL AS TRUNNION MOUNTED BALL VALVES
1991-1994	MALAYSIA	ESSO MALAYSIA	OFFSHORE PLATFORM AND PRODUCTION 2"-4" CLASS 900-1500 GLOBE VALVES MATERIALS INCLUDED ALLOY AND STAINLESS STEEL
1993	KUWAIT	KUWAIT NATIONAL PETROLEUM COMPANY (KNPC)	REFINERY UPGRADE PROJECT/COKE PROCESSING UNIT, KUWAIT 2"-12" CLASS 150 GATE VALVES
1993	USA	LONG ISLAND LIGHTING COMPANY	NORTHPORT STATION 6"-20" CLASS 150-600 AUTOMATED BALL VALVES
1993	USA	NEW YORK PORT AUTHORITY	WORLD TRADE CENTER 6"-24" CLASS 150-600 BALL AND CHECK VALVES
1993	THAILAND	RAYTHEON/ SAIPEM	PIPELINE EXPANSION, THAILAND 8"-24" CLASS 600-900 MAINLINE BALL VALVES
1993	INDONESIA	PERUSAHAAN GAS NEGARA (PGN)	PIPELINE DEVELOPMENT, INDONESIA 6"-20" CLASS 150-600 MAINLINE BALL VALVES
1993	COLOMBIA	BRITISH PETROLEUM	CUSIANA PHASE 1, COLOMBIA 8"-10" CLASS 600-900 GLOBE VALVES
1993	KUWAIT	BECHTEL/ KUWAIT OIL COMPANY (KSC)	KOC AL TAMEER PROJECT, KUWAIT 2"-36" CLASS 150-2500 CAST STEEL, BUTTERFLY AND BALL VALVES
1992	ARUBA		COASTAL REFINERY REFINERY UPGRADE PROJECT, ARUBA 2"-24" CLASS 150 GATE VALVES
1992	USA	NASA	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) FUEL SYSTEMS, CAPE KENNEDY 2"-12" CLASS 150-600 CAST STEEL VALVES
1992	ALGERIA	BECHTEL/ SONOTRACHT	GL-7 RESTORATION PROJECT, ALGERIA VARIOUS BALL, GATE, GLOBE AND CHECK VALVE
1992	ECUADOR	PETRO ECUADOR	VARIOUS PROJECTS 2"-24" CLASS 150-2500 CAST STEEL AND BALL VALVES
1991	SYRIA	BROWN & ROOT	AL FURAT PETROLEUM COMPANY, SYRIA AND EL ISBA TO OMAR CPF PIPELINE, SYRIA 2"-8" CLASS 300-1500 BALL VALVES (SOFT AND METAL SEATED)

# Past Experiences (Continued)

YEAR	COUNTRY	CUSTOMER	VALVES SUPPLIED
1991	SOUTH AFRICA	SASOL	COAL LIQUIFICATION REFINERY UPGRADE, SOUTH AFRICA 8" CLASS 1500 METAL SEATED TOP ENTRY BALL VALVES
1990	INDONESIA	NISSHOIWA I/ PERTAMINA	BALIKPAPAN REFINERY UPGRADE, INDONESIA 1/2"-24" CLASS 600-1500 CAST STEEL VALVES
1989	USA	NASA	MARTIN MARIETTA/NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) SPACE SHUTTLE LAUNCH PAD, CAPE KENNEDY 6" CLASS 1500 TOP ENTRY BALL VALVES
1989	QATAR	BECHTEL/ QATAR GENERAL PETROLEUM COMPANY/ OCCIDENTAL PETROLEUM	NORTH DOME PROJECT, QATAR 2"-8" METAL SEATED BALL VALVES



# Distribution Networks

Our valves are distributed through our agents worldwide.

As part of our business strategy to increase revenue and market visibility of our valves worldwide, we are currently accepting applications from interested parties who want to become our agents. It is expected that our agents will operate in a designated territory or territories to market our valves within them. Our agents are remunerated on a commission basis for any of our valves either purchased from us, engineered in or installed into agent's territory or territories.

We place an important decision on finding and supporting the right agent in the designated territory/ies. Generally, we consider that ability to generate sales is the most important factor in our decision in selecting our agents. Of course, we also consider other factors in our decision in appointing our agent. We acknowledge that many of the ideas for valve innovation, or focus on a particular industry, in a particular territory are driven by the expertise and feedback of our agents and customers.

Our agency program is designed to support agents to sell specialized and customized valves into industries we served. To this end, we plan to provide regular training, trade fair participation, customized drawings and schematics, brochures and case studies. In addition, our experience engineer and marketing person will also support our agent to close sales if necessary.

Please contact us at [agency@mannflowcontrols.com](mailto:agency@mannflowcontrols.com) if you are interested to become our agent.



# Distribution Networks

## Africa Region:

### Nigeria

Brukah Global Services Ltd  
info@brukahglobalservices.com

## Middle East Region:

## Sub-Continent Region:

## Our Agents:

## Far East Region:

### Malaysia

Springhill Resources Sdn Bhd  
Tel:  
Email: info@springhillresources.com

### Indonesia

PT Ariasiatek Indonesia  
Tel: (+62) 21 889 567 02  
Email: sales@ariasiatek.co.id

## South America Region:

## Central America Region:



# Contact Us

We are committed to providing you with the highest level of customer support, including responding to your questions in a timely manner. How well we do this depends on a clear, current understanding of your needs and preferences.

We encourage you to send your questions and requests, share your valuable opinions and experiences by contacting us at the followings:

Mann Flow Controls, Inc.  
Spring, TX 77379, USA  
Tel : +1.713.589.3373  
Fax : +1.800.839.4506  
Email : [info@mannflowcontrols.com](mailto:info@mannflowcontrols.com)  
Website : [www.mannflowcontrols.com](http://www.mannflowcontrols.com)



# Policies

## Export Regulations

- If you export or re-export any product purchased from Mann Flow Controls, Inc, you are responsible to ensure compliance with the Export Administration Regulations available at [www.bis.doc.gov](http://www.bis.doc.gov). If these items were exported to you: "These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited."
- Buyer agrees that it will not ship or divert for use in any country or countries any of the products identified on the face of this document, in contravention of the laws and regulations of the United States Government and the departments and agencies thereof (including without limitation shipping any product to Cuba, Syria, Iran, Sudan or North Korea), or cause or permit such shipping or diversion without appropriate license or approval of the United States Government (including without limitation shipping any product to Cuba, Syria, Iran, Sudan or North Korea).
- As part of our due-diligence exercise, our customers are always required to fill-in our Export Screening Form

## Limited Warranty and Limitation of Liability

- MFC warrants the products it manufactures and/or remanufactures and the services it performs to be free from defects in materials and workmanship which materially and adversely impact performance or safety under normal use and services for a period of:
  - One year after initial installation, or 18 months from invoice date for manufactured or remanufactured products, whichever comes first;
  - One year after the date services are provided (the "Work") as described in a MFC service ticket or services invoice.
- Products found to be defective will be repaired or replaced, at MFC option, in a timely fashion at no charge to the customer for such repair or replacement by MFC.
- MFC will not be responsible for product damage caused by the process service conditions or damage caused by customer misapplication or improper maintenance. MFC also shall not be responsible for normal wear and tear.
- MFC warrants that the services when performed will be of good quality, will be free from defects in material and workmanship, shall have been properly performed in accordance with applicable industry standards and, and shall be in accordance with any written specifications which were provided by the customer to MFC and accepted by MFC prior to the commencement of the Work. If customer notifies MFC within 12 months after the date of service that it has discovered that any portion of the Work does not conform to the foregoing warranty MFC shall, at its option:
  - promptly repair any such non-conforming work, or
  - promptly replace any such non-conforming work, or
  - provide customer with a refund or any equitable portion of the price paid for the work after an allowance for reasonable wear and tear.
- The performance by MFC of the repair or replacement Work or the equitable refund, described in the previous paragraph shall constitute customer's sole remedy for any defect in the Work. **MFC HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE.**



# Policies (Continued)

- Buyer and MFC acknowledge that if any equipment is to be rebranded (remanufactured) by MFC, it is the equipment owner's sole responsibility to provide MFC with any product recall notices and/or engineering bulletins received from the original equipment manufacturer ("OEM") or aftermarket service provided for the life of the equipment. Any recall notices and/or engineering bulletins must be received by MFC prior to initiation of work.
- If customer fails to properly operate and maintain the product in accordance with the instructions of MFC, or the original equipment supplier or manufacturer, as applicable, or if customer otherwise fails to adhere to applicable industry standards in operating and maintaining the product, customer's failure shall void the foregoing warranty.
- In no event shall MFC or any of its respective affiliates be liable for direct, indirect, incidental, consequential or punitive damages arising out of, or connected with, any portion of the Work, including, but not limited to, loss of use, revenue, or anticipatory profit, or loss of production or facilities downtime.
- The foregoing is the only obligation of MFC with respect to the Work and customer's exclusive remedy for breach of warranty, and is customer's exclusive remedy hereunder by way of breach of contract, tort, strict liability or otherwise.
- Any action or breach of this limited warranty or otherwise with respect to the Work must be commenced one (1) year after the cause of action has accrued.
- **THIS LIMITED WARRANTY SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS, USA WITHOUT REGARD TO ANY PRINCIPLES OF TEXAS LAW WHICH WOULD REQUIRE THE APPLICATION OF THE LAW OF ANOTHER JURISDICTION.**
- Except for the duty to make payments hereunder when due, in no event shall MFC or customer be liable to the other for any delay, cost, damage or failure resulting from a Force Majeure Event. A "Force Majeure Event" includes: Acts of God, action of the elements, warlike action, insurrection, revolution or civil strife, piracy, civil war or hostile action, strikes, acts of public enemies, application of federal or state laws, or rules and regulations of any governmental authorities having jurisdiction in the premises; acute and unusual labor, material or equipment shortages, or any other causes (except financial) beyond the control of either party. Delays due to any or all of the above causes shall not be deemed a breach of or failure to perform under this Work order.
- The termination of such Work order shall not cancel the Work, and customer shall thereupon pay MFC for work done prior to such termination at the rates specified in any Work order plus any cancellation, restocking, returns, transportation or other costs or fees incurred by MFC and any costs associated with the manufacture or ordering of specialty items which were ordered by MFC and which cannot be returned to the provider thereof.

