



GENERAL CATALOGUE

In this edition of its general catalogue, POYAM presents the manufactured valves range, a culmination of many years' design, experience and diligent research



POYAM VALVES IS THE TRADING NAME OF THE VALVE MANUFACTURING DIVISION OF AMPO S. COOP. COMPANY, A MEMBER OF THE MCC GROUP.

The company, established in 1964 in an area with a deeply-rooted industrial tradition, is dedicated to the production of high-quality gate, globe, check, angle, plug and ball valves in a wide variety of materials, such as carbon steel, low alloys, stainless steel and special alloys (monel, duplex, alloy 20, inconel, incoloy, etc.). Poyam valves are designed and manufactured to withstand the extreme working conditions to which they are exposed in the most highly-specialized markets, such as gas, oil, onshore/offshore petro-chemical, aluminium refining, power plants etc.

We are equipped with the most modern installations and a highly-qualified human team, enabling us to offer the widest possible range of valves combining high standards in technology, quality and productivity, as well as tradition, experience and dependability, with an unrivalled reputation for quality and service.

Management based on the strictest quality standards allows POYAM to develop the product which best satisfies our customers.





HUMAN TEAM EXPERIENCE



"WE HANDLE OUR VALVES WITH THE GREATEST CARE AND ATTENTION AT EACH STAGE OF THE MANUFACTURING PROCESS."

THIS IS THE KEY POINT FOR ACHIEVING BEST QUALITY AND OPTIMUM PERFORMANCE VALVES.

POYAM's workforce comprises highly-trained, experienced and motivated specialists who understand the customer process, enabling us to offer a flexible product suited to customer needs with best valve quality and optimum performance in the most severe services.

POYAM VALVES has been involved in many large international projects, supplying not only the product but expertise in project management, finance of high-value projects and logistical expertise to ensure trouble-free and on-time delivery of quality products.

POYAM has been entrusted with the largest international projects by the world's leading engineering construction companies.

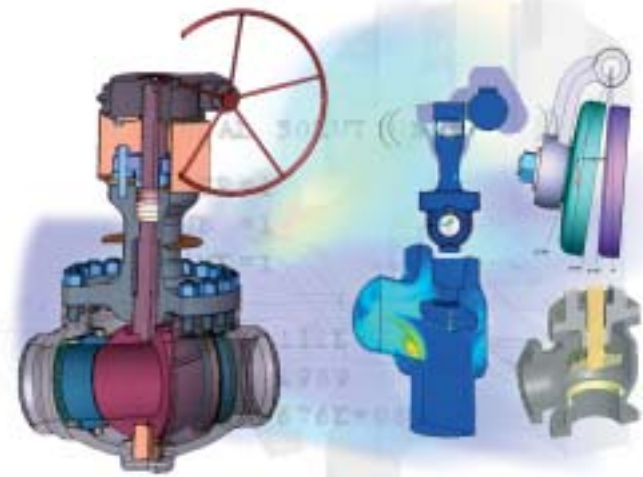


RESEARCH, DEVELOPMENT AND INNOVATION (R+D+I)

Our extensive expertise in valve design, together with integrated CAD/CAM (Solid Works) systems fully exploit the opportunities for innovative and competitive engineering solutions whilst ensuring compliance with all relevant standards.

POYAM VALVES is committed to developing and marketing new products based on customer needs.

POYAM VALVES has been particularly outstanding in developing new designs of larger valves for high pressure and temperature service, Cryogenic valves, Corrosion resistant valves, Aluminium refining valves and specially-engineered products for specific services, i.e. specialising in high specification project work.



Our aim is engineering efficiency, our engineers are ready to help customers meet the most demanding design challenges and applications.

Latest CAD/CAM –3D design system.

Seismic Calculations, Flow Simulations, Mechanical Analyses and Thermal Simulations by FEA (Finite Element Analysis), for optimizing our valve design performance.

New materials and technology research. We work together with the most important European R+D+I Centers and Engineering Colleges.



*“POYAM VALVES R+D+I TEAM
HAVE THE SKILL, EXPERIENCE
AND MOST MODERN
COMPUTER TOOLS
AND EQUIPMENT
TO ASSIST OUR CUSTOMERS
TO WHATEVER EXTENT IS
NEEDED.”*

BEST VALVE QUALITY

POYAM Valves are well-known worldwide, with a reputation for reliability and high quality.

The operativity and processes are implemented and governed by our quality assurance system, certified to ISO 9001 & API Spec Q1 & 6D. and subjected to continuous review and audit by internal quality audits, third-party inspection agencies, and main engineering companies worldwide, demonstrating POYAM compliance with customer requirements and international standards.

Internal Quality Control Personnel are highly-qualified to carry out Non-Destructive Examinations, such as X-ray, Dye Penetrant, Magnetic Particles and PAMI (positive alloy material identification).

POYAM VALVES has efficient means to meet targets defined in the Strategic Plan. Our company and its product meet all legislative requirements, as well as international codes and standards. Every step from purchase order receipt through procurement, NDE, machining, assembling, testing, painting and packaging is in accordance with regulations stipulated in QA Manuals.

*“OUR GOAL IS TO PLEASE THE CUSTOMER BY OFFERING
PRODUCTS AND SERVICES THAT NOT ONLY MEET CUSTOMER
REQUIREMENTS BUT ALSO EXCEED THEIR EXPECTATIONS
THROUGH HIGHLY-TRAINED, EXPERIENCED PERSONNEL AND
CONTINUOUS IMPROVEMENT OF OUR INTERNAL PROCESSES”.*



Certifications:
ISO 9001, Lloyds Register; (since 1993)
API Spec Q1 & 6D (since 1993)
CE Marking (since 2001)

Qualifications – Type Approvals:
Lloyds Register
NKKI Nippon Kaiji Kyokai
Bureau Veritas
KGS
DNV
ABS
GHOST-R
FIRE SAFE in compliance with API 607



CERTIFICATE No. 926137

Modified Body No. 0094
Certificate No. 003

American Petroleum Institute
Certificate No. 60-0176

Certificate No. 0428033

TYPE APPROVAL

Certificate No. 0170034

TYPE APPROVAL

TYPE APPROVAL PROGRAM
Certificate No. 04-ED407913-PDA



"POYAM VALVES IS ABLE TO SUPPLY HIGH QUALITY PRODUCTS GUARANTEEING LONG SERVICE AND LOW MAINTENANCE COSTS."

SECURITY AND RELIABILITY

POYAM valves are thoroughly tested by simulating extreme working conditions. The most modern in-house test facilities together with our QA/QC System, ensure optimum valve performance and reliability.

The reliability and durability of our products is achieved by continuous development of materials, advanced engineering and strict adherence to good workshop practice.



ENVIRONMENT

"Through preventive measures and continuous improvements, we strive to reduce the impact of the company's activities on the environment. Manufacturing is conducted with regard to the efficient use of energy and raw materials, and at the same time minimizing waste, pollution and other adverse effects on the environment."



OUR FOUNDRY, AMPO

"OUR FOUNDRY WORKS TOGETHER WITH OUR R+D+I TEAM TO CREATE NEW DEVELOPMENTS AND DESIGNS, A KEY FACTOR IN ENABLING POYAM TO CONTROL THE WHOLE PROCESS, FROM START TO FINISH."

Our own foundry AMPO is fully in line with POYAM manufacturing processes, providing us with the best quality castings and service.

Cast materials are produced under strict quality controls at the AMPO foundry. Ongoing control is the key to our quality and success, starting with castings from one of the world's leading valve foundries, AMPO, through to a product finished and tested to any specification, all within our own facilities.

HOMOLOGATIONS / CERTIFICATIONS: ISO 9002. TÜV. LLOYD'S. BUREAU VERITAS. NKK.

CARBON STEEL FOR GENERAL USE
e.g.: WCB, WCC, 1.0619...

CARBON STEEL FOR LOW TEMPERATURE
e.g.: LCB, LCC...

ALLOY STEEL
e.g.: WCT, WC6, WC9, C5, C12...

ALLOY STEEL FOR LOW TEMPERATURE
e.g.: LC1, LC2, LC3,...

MARTENSITIC STEEL AND FERRITIC MARTENSITE FOR GENERAL SERVICE AND LOW TEMPERATURE
e.g.: CA15, CA6NM, 1.4008...

AUSTENITIC STAINLESS STEEL FOR GENERAL USE, LOW TEMPERATURE
e.g.: CF8, CF8M, CF8C, CF3, CF3C, CF3M, 1.4308, 1.4408, 1.4552...

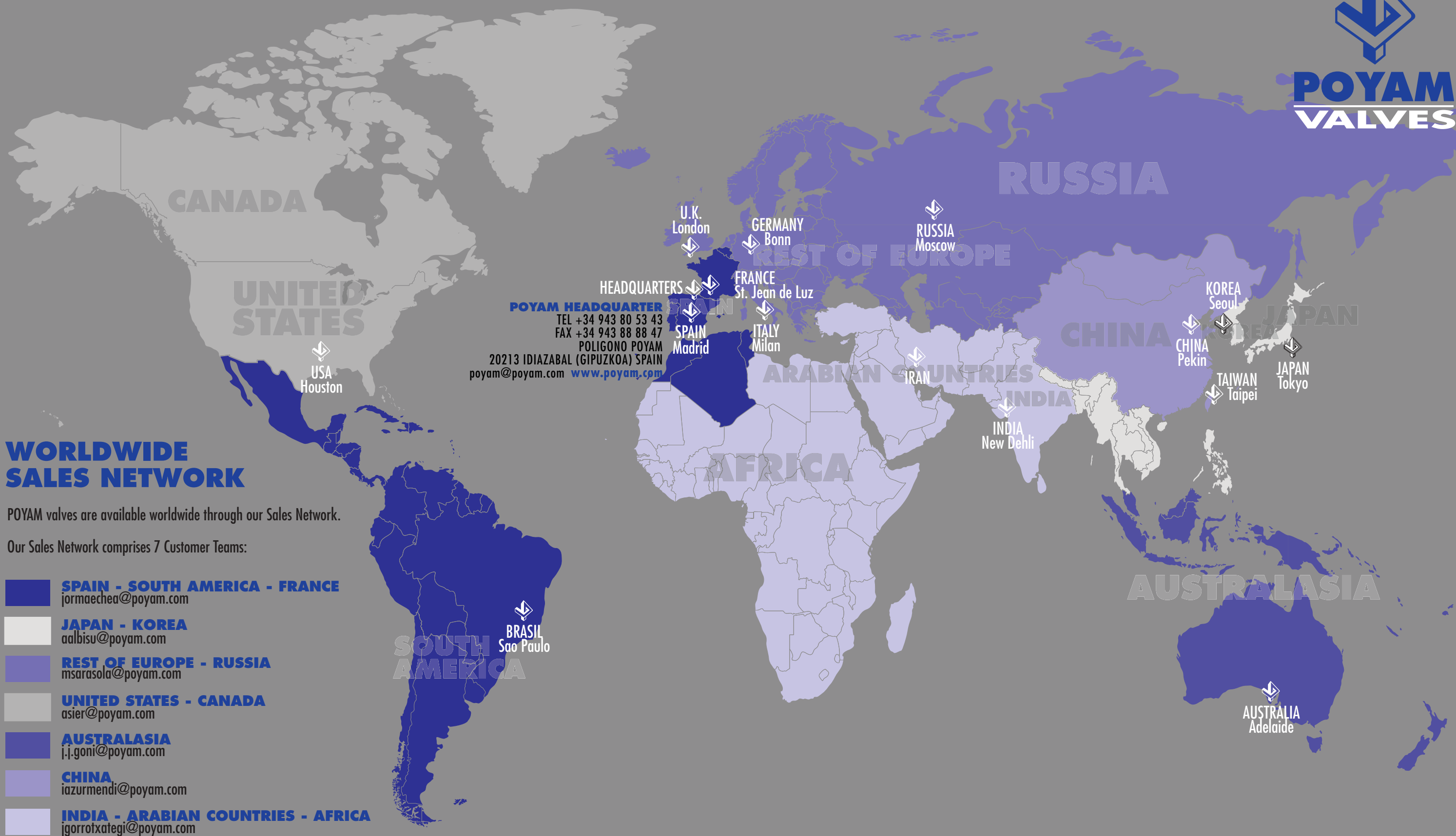
SUPERAUSTENITIC ALLOYS
e.g.: CN7M, CK3MCuN, 254 SMO, 654 SMO...

DUPLEX ALLOYS
e.g.: S31803, S32760, A890Gr4A, A890Gr5A, A890Gr6A, CD4MCu...

NICKEL BASE ALLOYS
e.g.: INCOLOY 825, MONEL 400, INCONEL 625, CW-6MC, CW-12MW...



POYAM
VALVES



POYAM VALVES is situated in Idiazabal, a town in the north of Spain, in an area with a deeply-rooted industrial tradition called THE BASQUE COUNTRY. Idiazabal is just 1 hour's drive from BILBAO (International Airport) and at these distances from other important places:
90 km east of Bilbao, 45 km south of San Sebastian, 70 km south of the French border.

www.poyam.com



MANUFACTURING PROCESS

High performance production equipment, such as CNC Valve-machining centers, Plasma hard-facing stations, 3D measuring machines, Special Coating Welding station, Ambient testing bench, Cryo-testing bench, Fully-automatic painting lines, Vacuum-testing facilities, NDE bunkers (X-ray, magnetic particles, penetrant liquids) and an extremely clean assembly area enable us to provide our customers with consistently high quality valves.

"OUR MOTIVATED PERSONNEL, EFFICIENT PRODUCTION SYSTEM AND HIGH-TECH EQUIPMENT ENABLE POYAM TO SUPPLY THE BEST QUALITY VALVES TOGETHER WITH THE HIGHEST PRODUCTION CAPABILITIES FOR ENSURING ON-TIME DELIVERIES FOR THE MOST DEMANDING PROJECT SCHEDULES."





MANUFACTURED PRODUCTS

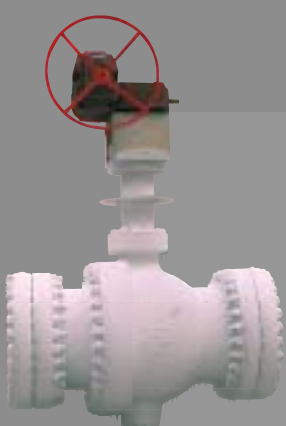
CRYOGENIC "TOP ENTRY" BALL VALVES



Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **1/2" up to 48"**
 Temperature: **Down to -196°C**

Construction:
 - Extended bonnet (Gas column).
 - Bolted bonnet.
 - Floating and trunnion-mounted ball.
 - Full and reduced bore.
 - Flanged, butt weld ends, and both.
 - Manual and motor-operated.
 - Fire safe.
 - Soft seats.

CRYOGENIC SPLIT BODY AND END-ENTRY BALL VALVES



Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **1/2" up to 48"**
 Temperature: **Down to -196°C**

Construction:
 - Extended bonnet (Gas column).
 - Bolted bonnet.
 - Floating and trunnion-mounted ball.
 - Full and reduced bore.
 - Flanged ends.
 - Manual and motor-operated.
 - Fire safe.
 - Soft seats.

CRYOGENIC GATE, GLOBE AND CHECK VALVES



Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **2" up to 56"**
 Temperature: **Down to -196°C**

Construction:
 - Bolted bonnet.
 - Extended bonnet (gas column).
 - Flanged and butt weld ends.
 - Manual and motor-operated.
 - Throttling Service Globe valves.
 - Metal seats.

CRYOGENIC GATE, GLOBE AND CHECK VALVES PRESSURE SEAL TYPE (HIGH PRESSURE)



Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **600 lbs up to 2500 Lbs**
 Sizes: **2" up to 56"**
 Temperature: **Down to -196°C**

Construction:
 - Pressure Seal Bonnet.
 - Extended Bonnet (gas column).
 - Flanged and butt weld ends.
 - Manual and motor-operated.
 - Metal seats.

GATE, GLOBE AND CHECK VALVES

Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **2" up to 56"**

Construction:
 - Bolted bonnet.
 - Flanged and butt weld ends.
 - Manual and motor-operated.
 - Metal seats.
 - Stop check type (Globe and Angle).



GATE, GLOBE AND CHECK VALVES PRESSURE SEAL TYPE (HIGH PRESSURE)

Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **600 lbs up to 2500 Lbs**
 Sizes: **2" up to 56"**

Construction:
 - Pressure seal bonnet.
 - Flanged and butt weld ends.
 - Manual and motor-operated.
 - Metal seats.
 - Parallel seats available in gate valves.
 - Check valves available
 - Tilting disc.
 - Y-type globe valves.
 - Stop check type (Globe, Angle, Y-type & Elbow-down type).



BALL VALVES GENERAL SERVICE

Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **1/2" up to 56"**
 Temperature: **Up to 300°C**

Construction:
 - Bolted bonnet.
 - Floating and trunnion (block and bleed) mounted ball.
 - Full and reduced bore.
 - Split body, top entry and end entry design.
 - Flanged and butt weld ends.
 - Manual and motor-operated.
 - Soft seats.
 - Extended stem for underground service.
 - Fire safe.



SLURRY ANGLE VALVES

Standards: **MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 1500 Lbs**
 Sizes: **2" up to 30"**

Construction:
 - Angle 90°.
 - Angle 45°.
 - Bayonet.
 - Straight-through.
 - Three-way.
 - Lift check.
 - Lever, gear and motor-operated.
 - Regrinding operation.
 - Metal seats.



NON LUBRICATED LIFT PLUG VALVES

Standards: **API, BS, MSS, ANSI, ASME, ASTM**
 Classes: **150 lbs up to 2500 Lbs**
 Sizes: **2" up to 36"**

Construction:
 - Bolted bonnet.
 - Flanged ends.
 - Manual and motor-operated.
 - Metal seats.
 - Lift plug.
 - Port sizes: 100% and 70%.
 - Accessories: Purge, drain and flushing connections.



ATTENTION AND SERVICE

At POYAM we share customer aspirations, as only in their triumph lies our success.

POYAM VALVES is the most efficient partnership at each stage of your project, we have more than 35 years' experience worldwide supplying high-tech, quality products and best service.



*"IN TUNE WITH CUSTOMERS,
BECAUSE CUSTOMER SATISFACTION
IS POYAM SATISFACTION"*



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