



Severe service valves for the mining industry

Brochure



Commitment made of steel

1. COMPANY PROFILE

AMPO is an **international leader** in highly engineered valves and Integrated Smart Solutions for the most severe applications and industries.

Through our AMPO SERVICE team **we guarantee a prompt response** to customer needs wherever they are throughout the world: technical support in start-up stages, equipment selection, predictive and preventive maintenance, training, etc.



Fully inhouse manufacturing process



Worldwide references



Project based on people



Innovative spirit



700+ people



In more than 60 countries



Most important partners in the industry



Cutting edge technologies



Our commitment: the best service



Customer focus



Since 1964



2. APPLICATION

AMPO POYAM VALVES offers an up-to-date wide range of highly engineered Severe Service Valves for slurry and tailings on the mining industry.

With a recognized design, a great diversity of specialized products, where reliability and safety associated with the best cost of ownership are the main objectives, AMPO POYAM VALVES is able to achieve excellence in the supply of its products in the mining industry.

AMPO Severe Service Valves are the ideal solution for the most difficult challenges for pipelines transportation on the mining sector, which operate in process conditions that push the limits of the most challenging applications, such as but not limited to:

- Pump Station Isolation
- Valve Stations Isolation
- Main pipeline isolation
- Choke Loops
- Rupture Discs Isolation
- Instrumentation isolation
- Drain Valves
- Pig Launcher/Receiver valves



3. SEVERE SERVICE VALVES

3.1. SEVERE SERVICE BALL VALVES

Sizes: 1/2" up to 36" (other sizes on request)

Pressure: 150 LBS up to 2500 LBS

Standards: API, BS, MSS, ANSI, ASME, ASTM, DIN

Materials: Carbon Steel, Stainless Steel, Alloys, Duplex, Super Duplex, special Alloys. Any other material upon request.

Seals: Seats: METAL+TC/CC COATING
Gaskets: SPIRAL WOUND
O-ring: HNBR, FKM, FFKM, NBR, EPDM, FEPM

End connections: BW, RF, FF, NPT, RTJ, SW; CLAMPS

Actuation: ACTUATOR, GEARBOX



FORGING / FOUNDRY BASED SOLUTIONS

AMPO FOUNDRY & FORGINGS is an international leader in the manufacturing of all kinds of casted and forged steel and special material components, fully machined and assembly ready, for capital goods in myriad sectors.

Since 1964, our AMPO FOUNDRY & FORGINGS division has been applying its multi-technology knowhow and expertise to develop solutions for the most severe applications in the valve industry.

It provides a response to the most complex geometric shapes, the most special materials and the most demanding finishes and requirements, in the widest range of dimensions.

And it has the capacity and flexibility to adapt to every customer's delivery terms, offering also fast track services to deal with urgent and unexpected situations.



3.2. SEVERE SERVICE CHECK VALVES

Sizes: 2" up to 60"

Pressure: 150 LBS up to 2500 LBS

Standards: API, BS, MSS, ANSI, ASME, ASTM, DIN

Materials: Carbon Steel, Stainless Steel, Alloys, Duplex, Super Duplex, special Alloys. Any other material upon request.

Seals: Seats: METALLIC, STELLITE
Gaskets: SPIRAL WOUND

End connections: BW, RF, RTJ, CLAMPS, FF, NPT, SW

Actuation: COUNTERWEIGHT, GEARBOX



COATING TECHNOLOGIES

AMPO's strong commitment to high performance products results in the best welding technologies and solutions:

- Our advanced technologies and high productivity allow AMPO to carry out all types of coatings by different types of processes by welding (tungsten carbide, chromium carbide, etc.) on any type of material in the shortest response time and using special materials.
- In anti-wear coatings we have different special processes: HVOF high speed thermal spraying for very high hardness coatings (chromium carbide and tungsten carbide) and automated welding processes: PTA (Plasma Transfer Arc Welding), GTAW, GMAW and FCAW. The latter are used to provide cobalt-based alloys such as Stellite or ultimate and martensitic stainless steels (13% Cr). This versatility of processes and materials allows us to obtain different degrees of hardness from values above 1000 HV10 for HVOF coatings to values of 350 for coatings on 13% Cr steels.
- Depending on the properties provided by the coating, AMPO offers coating solutions for corrosion protection (ORC corrosion resistance overlay) or coatings for hardfacing applications (HFO hardfacing overlay).
- In corrosion protection coatings, AMPO has a wide range of coating materials depending on the required needs. Among which are: all types of stainless steels, nickel base alloys such as pure Nickel, Inconel 625, Hastelloy, Incoloy 825, Colmoly and cupro-nickel, etc. AMPO has the latest technology to apply these materials through different fully automated welding processes: GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and FCAW (Flux Cored Arc Welding). All of them designed and optimized to obtain an optimum coating with the lowest possible heat input by means of technology such as CMT (cold metal transfer) for GMAW or hot wire for GTAW.
- All our welding procedures as well as welding operators have qualifications tested in accredited laboratories and issued by certified entities according to the most demanding codes and standards (ASME IX, EN 15614-1, EN 9606-1, EN 14732, CE marking, UKCA marking).

4. INTEGRATED SMART SOLUTIONS BY AMPO POYAM VALVES

Our valve technology expertise and integration capabilities allow us to design and develop complete bespoke integrated systems. With an integrated global supply chain network, AMPO POYAM VALVES can utilise any make and model of sub-systems in compliance with international governing standards and customer preferences.

AMPO POYAM VALVES designs and develops complete systems both free standing and skid modular solutions:

- All type of Actuation Systems including SIL Certification
- Hydraulic Power Units
- PLC based solutions with integrated Control Panel
- Valve Monitoring System



INTEGRATED
SMART
SOLUTIONS

CASE STUDY: Supply of Hydraulic Actuated valves for emergency shutdown integrated system including:

- Hydraulic Power Unit
- Oil Accumulators
- Local Control Panel & PLC



Emergency shutdown integrated system

5. AMPO SERVICE

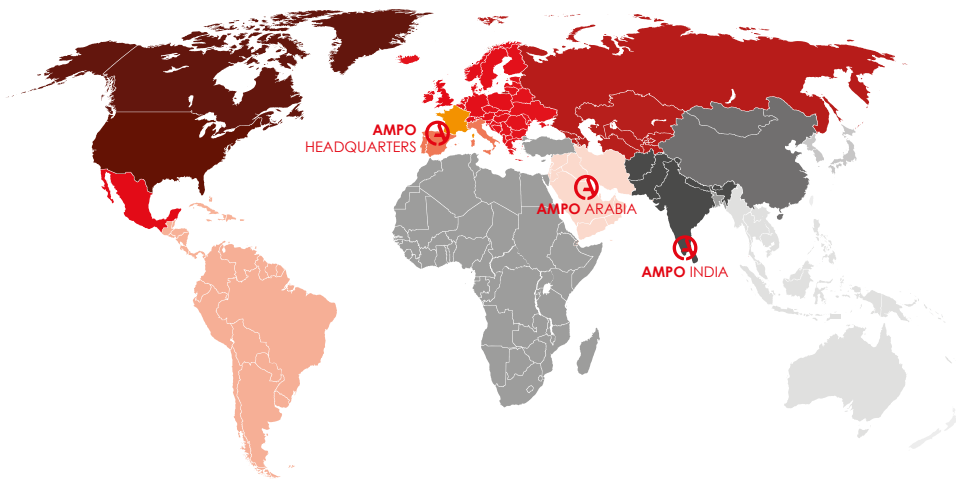
AMPO SERVICE has a wide experience in guaranteeing a **prompt response** (72 hours at site if needed) to customer needs **all over the world** with highly experienced, customer oriented and specialized teams in Spain, India, KSA and other countries. It provides a wide range of **ad-hoc and high added value services**:

- **MRO SERVICES.** Plug and play valves. Fast track.
- **SPARE PARTS.** Optimized Management Program. Fast track services.
- **TRAINING SERVICES**
- **FIELD ENGINEERING SERVICES (FES):** Consulting services during plant construction. Commissioning and start-up services. Planned shut-down services. Troubleshooting.
- **PREDICTIVE MAINTENANCE SERVICE:** Patented AMPO RCM system (Remote Control Valve Monitoring Service)
- **PREVENTIVE MAINTENANCE SERVICE:** Maintenance Plan developments.
- **WORLDWIDE REPAIR AND MAINTENANCE CENTERS**
- **TAILORED ENGINEERING SOLUTIONS**
- **MASTER SERVICE AGREEMENTS WITH END USERS**

Our main aim is to fulfill customer needs worldwide with the following key premises: **reliability, safety, trust and efficiency.**



6. WORLDWIDE SALES AND MANUFACTURING NETWORK



AMPO Manufacturing plants
 Idiazabal - Spain
 Coimbatore - India
 Dammam - Saudi Arabia

SALES MANAGERS

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AMPO is just 1 hour drive away from BILBAO (International Airport) and at the following distances from other important places:
 65 km west of Pamplona/45 km south of San Sebastian/ 70 km south of the French border.

