Since 1967, MECA-INOX has manufactured ball valves and is a European leading signature for high quality ball valves dedicated to Chemistry, Pharma & Cosmetic, Cryogenic fluids, Food & Beverage and Industry with more than 3 million valves installed all over the world and 150,000 ball valves yearly production.

Expert in stainless steel and carbon steel ball valves technology, we have developed over the years a complete products offer internationally recognized for its reliability, performance, and flexibility of use. Combining high quality materials and our specific knowhow of design and manufacturing, our products meet the most stringent requirements.

From our industrial sites of Gisors (France) and Dalian (China), our teams can support you anywhere in the world. Our network of distributors provide an optimal availability of our valves and equipment for your international projects.
Designer & Producer of high performance ball valves since more than 50 years, Meca-Inox is a leading supplier of LNG valves for Small & Mid Grid applications.

More Than 25 000 Cryogenic Ball Valves for LNG Produced & Installed Since 2010

A COMPLETE MANAGEMENT OF ALL PRODUCTION STAGES

STORAGE, TRANSPORT, DISTRIBUTION

LNG Storage & Trucks Loading
- Tanks
- Pump Skids
- Loading Arms

LNG/CNG Fuel Stations
- Tanks & Vaporizers
- Pump Skids
- LNG Dispensers

LNG Trucks
- Automatic Shut-Off valves
- ADR/RID2017

ISO/UN Portable LNG Tanks
- Automatic Shut-Off valves
- Feeding Valves

In House Machining / Certified Cleaning Process
Assembling Room / Quality Control
Internal Cryogenic & Helium Tests Laboratory

Low Flow Restriction / High Quality Materials / Helium Tightness

CUSTOMER REFERENCES
Air Liquide, BOC, Chart Group, Changlong, CIMC ENRIC, Cryolor, Cryostar, Cryovat, Engie, Eurotank, Sener, Vanzetti, Worthington Aritas...

CERTIFICATIONS & PERFORMANCES
3 PCS BALL VALVES WITH CRYOGENIC EXTENSIONS

**Body Size**

<table>
<thead>
<tr>
<th>Body Size</th>
<th>Extension* (mm)</th>
<th>Operating Torque** (N.m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN10 &amp; DN15½&quot; &amp; ½&quot;</td>
<td>157.0</td>
<td>&lt;12</td>
</tr>
<tr>
<td>DN20 &amp; DN25 ¾&quot; &amp; 1&quot;</td>
<td>188.0</td>
<td>&lt;26</td>
</tr>
<tr>
<td>DN32 &amp; DN40 1 ⅞&quot; &amp; 1 ⅞&quot;</td>
<td>211.5</td>
<td>&lt;86</td>
</tr>
<tr>
<td>DN50 2&quot;</td>
<td>209.0</td>
<td>&lt;158</td>
</tr>
<tr>
<td>DN65 &amp; DN80 2 ⅜&quot; &amp; 3&quot;</td>
<td>214.0</td>
<td>&lt;172</td>
</tr>
<tr>
<td>DN100 4&quot;</td>
<td>216.0</td>
<td>&lt;301</td>
</tr>
</tbody>
</table>

* Standard machined extension length, longer extensions on demand
** Max Operating Torque @ -196°C / Max Pressure Class

- **Zero Leak Gland Packing**
  - Double Gland Packing
  - Double Spring Washer
  - <10-5 mbar/l.s-1 He Tightness

- **Low Friction Thrust Seal**
  - PTFE – 20% PEEK
  - Low & Constant Torque

- **100% Machined Cryogenic Extension**
  - Extended Stem & Extension Body
  - 304L & 316L
  - Zero Welding Robust design
  - High Heat Transfer Design

- **Tongue & Groove Design**
  - Body / Bonnet Assembling
  - Body / Ends Assembling
  - <10-5 mbar/l.s-1 He Tightness

- **High Performance Ball Seats**
  - TF3215 PTFE + Carbon
  - Specific Design
  - <10-3 mbar/l.s-1 He Tightness

- **Ball Up Stream Relief Hole**
  - No Overpressure Build up

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**EUROPEAN REFERENCE BALL VALVES FOR PERFORMANCE & RELIABILITY**

**Design**

- Loose Body Flanges (Meca-inox Patent 1966)
- All Ends Produced In House
- Low Flow Restriction
- Easy Mounting (-30% time)

**Performances**

- High Performance PTFE
- Modified Gland Packing
- EN12266-1 “Class A”
- Helium Tightness 20°C
  - <10-5 mbar/l.s-1
  - 2 to 5 Times Lower Pressure Drop than Globe Valves

**Reliability**

- Self Compressed Gland by Spring Washers
- 100% Machined Extended Stem & Extended Body
- Low & Constant Operating Torques

**Maintenance**

- Spare Kits of Seals Permanent Stock
- Valve Body KIT
- Easy Disassembling (MTTR <5minutes)
**AUTOMATIC SHUT-OFF VALVE « FIRE-BLOCK »**
ISO/UN LNG Portable Tank

- Energy Free Spring Box
  - <0.1 sec closing
- 90°C Fuse Element
  - Automatic shut-off by Fire
- Manual Lever
  - Manual Shut-off by cable

**3 WAYS CHANGEOVER VALVES « DIVERTOR »**
Safety valves isolation for maintenance

- More than 500 in operation
  - DN20 to DN50
  - Class PN10 / PN40
- NPT outlets for Safety Valves mounting
  - L & T ball available

**OTHER BALL VALVES IN PACKAGE**

- 2 PCS Floating ball « FB »
  - Class 150 – 300
  - 2" to 8"
  - Rating BS5361 / API6D
- 3 PCS Trunion ball « TSB »
  - Class 150 – 300
  - 4" to 8"
  - Rating BS5361 / API6D
- Top-Entry Floating & Trunion ball « TEV & TEV-f »
  - Class 150 / 300 / 600 / 900 / 1500
  - 2" to 12"
  - Rating BS6364 / API6D

**CRYOGENIC BALL VALVES FOR LNG**

- Partnership of 2 European Brands, Leaders in their Markets