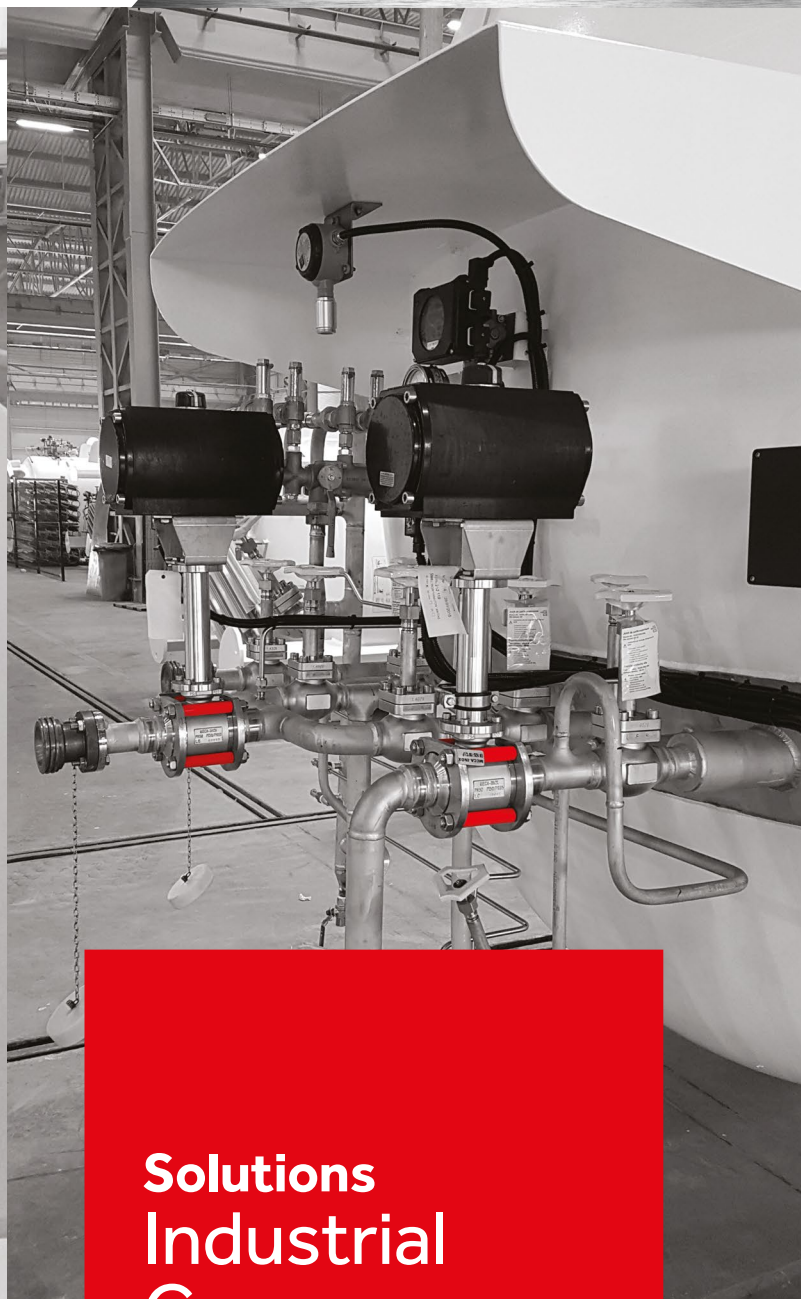




EUROPE - EN - 2024



**Solutions
Industrial
Gas**

meca-inox.com

Industrial Gas **Solutions**

Since more than **50 years**, MECA-INOX is a ball valve strategic partner of major chemistry and process industries for liquid and gas management. **In 2001** Meca-Inox launched its first **cryogenic ball valve** and became a leading supplier of the **liquid air and industrial gas for Electronic, Chemistry, Pharmaceutical, Health and Industry**.

Designed, produced and tested in our plants, our ball valves are in compliance with **International Standards for Performances, Cleaning & Quality**.



Strength & Tightness

EN 12266-1, ISO 5208,
ISO15848-1 (2006)

"Class B Helium fugitive emission"



Functionnal Test

EN 12266-1, EN 1626
BS6364 (On Demand)



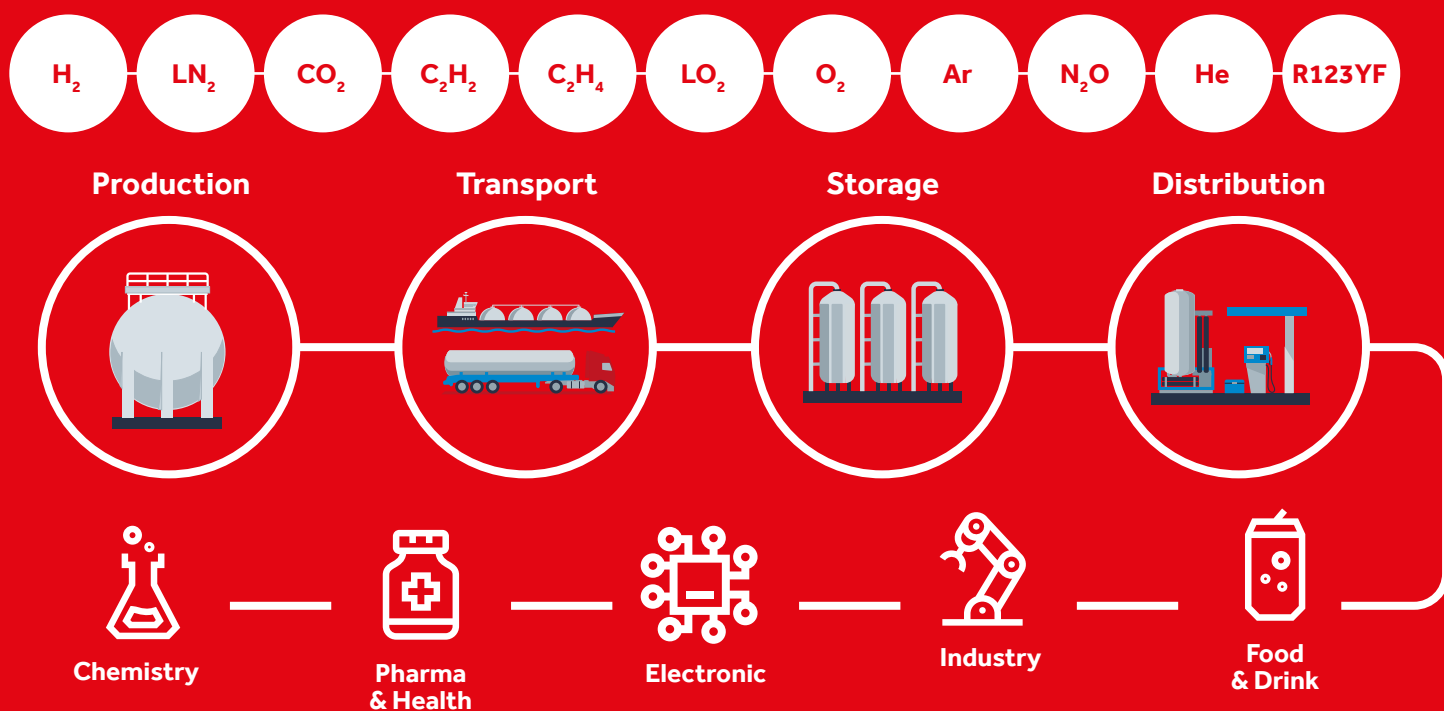
Cleaning

EN 12300

(<50mg/m² Hydrocarbon)



Applications



► **Cryogenic Liquified Gas**

Oxygen, Argon, Air, Nitrogen,
Hydrogen, Helium

► **Non Cryogenic Liquified & Cold Gas**

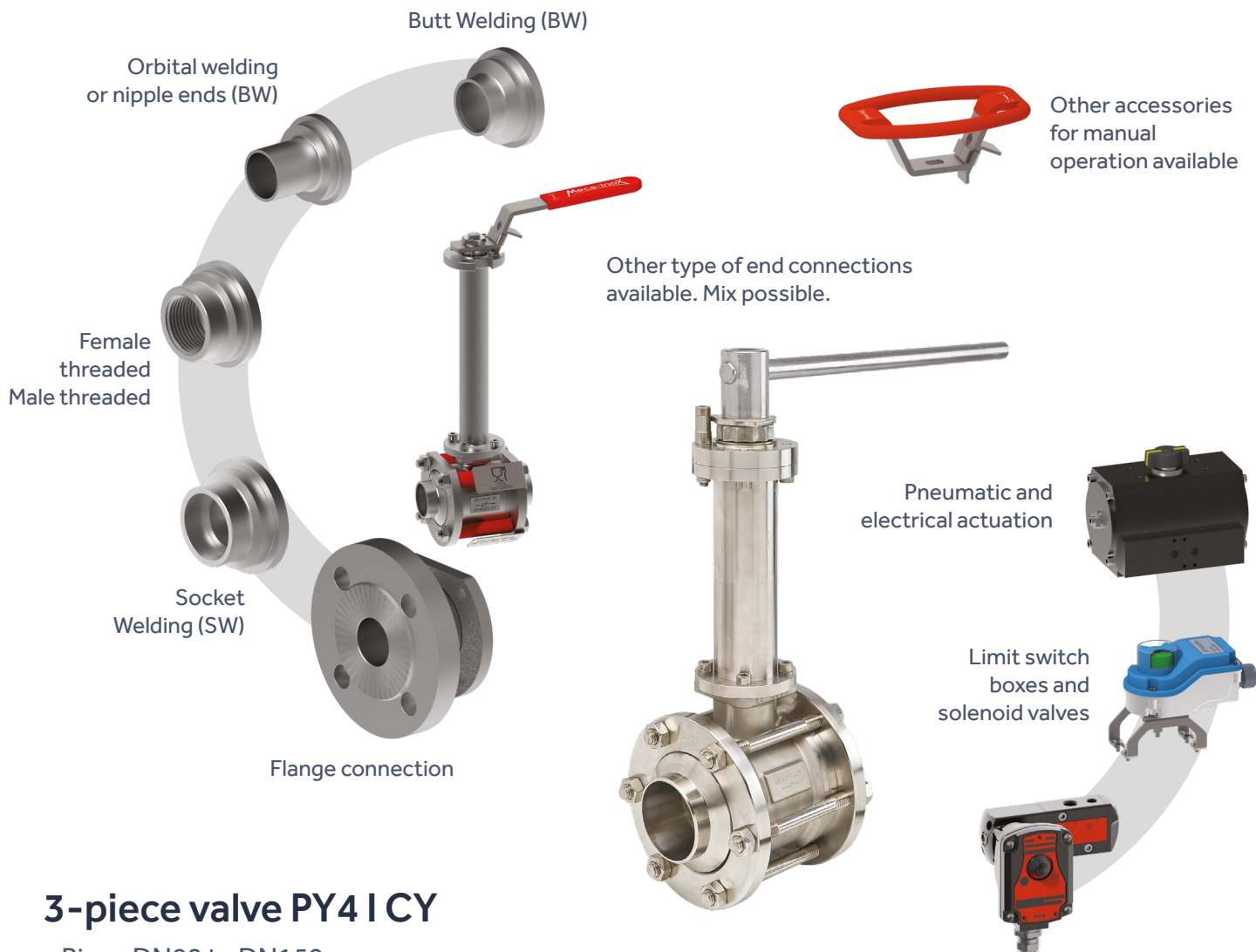
Carbon Dioxide, Acetylene,
Ethylene, Dinitrogen monoxide, ...

► **Industrial Gas**

Corrosive & Non Corrosive

They **trust** us

Air Liquide | Air Products | BOC | Carbogas | CHART Group | Chemet-GLI
Linde | Messer | OMSP Macola | Praxair | VRV | Worthington Aritas
Cryostar | ...



3-piece valve PY4 | CY

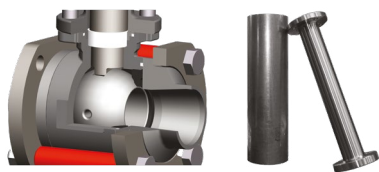
- Pipes DN08 to DN150
- Full bore and reduced bore
- Pressure class PN25 to PN100
- Certified CE1935 total / multi-contact -196°C to 121°C
- Degreased for O₂ application acc. to EN12300
- Functional EN1626

Special lines

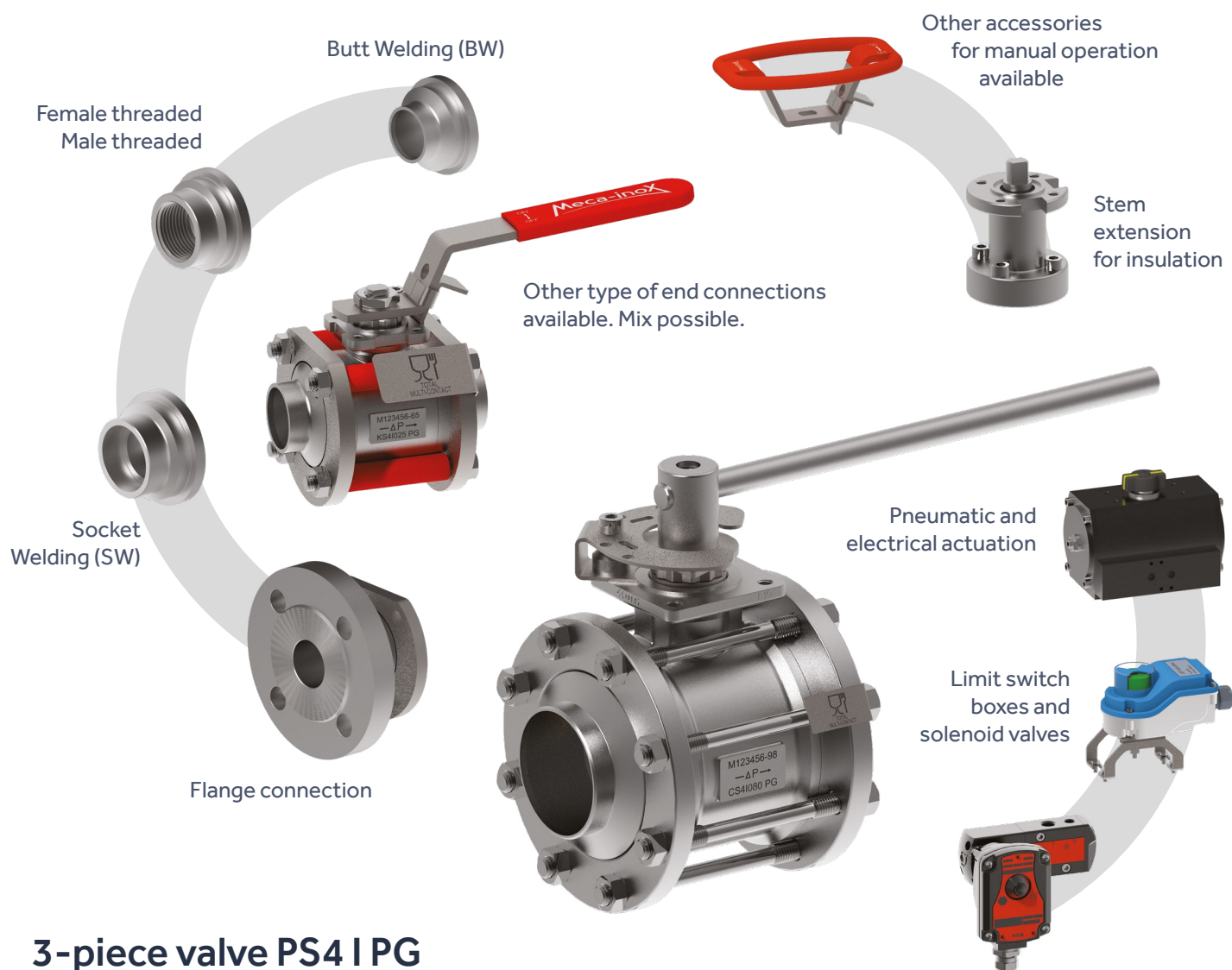
- V-ball 30° or 60°
- 3-way version, L bore or T bore
- Fire safe version acc. to ISO10497



Service temperature @ ΔP 1 bar -196°C to 190°C



- ✓ Upstream relief hole in ball for pressure relief in closed position
- ✓ Extended stem and extension body fully machined ; zero welding robust design
- ✓ Double gland packing & spring washers for zero leak gland packing <10⁻⁵ mbar/l.s⁻¹ (Helium)
- ✓ TF3215 PTFE + carbon seats for high performance tightness <10⁻³ mbar/l.s⁻¹ (Helium)
- ✓ Save 2 to 4 sizes for equivalent globe valve sizes ; direct flow = increased Kv



3-piece valve PS4 | PG

- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure class PN25 to PN100
- Functional EN1626 @ -50°C
- Certified CE1935 total / multi-contact -50°C to 121°C
- Degreased for O₂ application acc. to EN12300

Special lines

- V-ball 30° or 60°
- 3-way version, L bore or T bore



Service temperature @ ΔP 1 bar -50°C to 190°C

- ✓ Upstream relief hole in ball for pressure relief in closed position
- ✓ TF3215 PTFE + carbon seats for high performance tightness <10⁻³ mbar/l.s⁻¹ (Helium)

Line PH4 I



Solutions for medical gases
and ionizing environment



3-piece valve PH4 I

- Seats and sealings in U.H.M.W.P.E.
- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure class PN16 to PN100
- Pneumatic and electrical actuator
- Any stainless steel end connection available (BW, SW, threaded, flanged, ...)

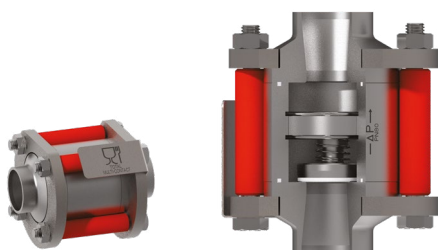


Service temperature @ ΔP 1 bar **-50°C to 100°C**

Line CL4 I



Solutions for cryogenic
& non cryogenic applications



3-piece check valve CL4 I

- Pipes DN08 to DN65
- Pressure class PN80
- Any stainless steel end connection available (BW, SW, threaded, flanged, ...)
- Degreased for O₂ application acc. to EN12300



Service temperature @ ΔP 1 bar **-196°C to 190°C**

Line PY4 I CY O₂

Solutions for O₂ applications



3-piece valve PY4 I CY O₂

- Ball and end connections in bronze for O₂ and LO₂ applications
- Ball material : CW453K (HB > 120)
- Pipes DN08 to DN150
- Full bore and reduced bore
- Pressure class PN25 to PN100
- Pneumatic and electric actuation
- Degreased for O₂ application acc. to EN12300



Service temperature @ ΔP 1 bar **-196°C to 190°C**

Design PS4 I PG π



Gases & LCO₂
transport²



Design π

- Suitable for packing instructions P203 (ADR2011)
- Gas UN2187 (liquefied carbon dioxide LCO₂)
- Pressure class PN25 to PN40
- Service temperature: -50°C to 65°C
- Pipes DN08 to DN100
- Full bore or reduced bore
- Certified EN1626

Other π design products available

3-piece valve PS4 I & PS4 I PG

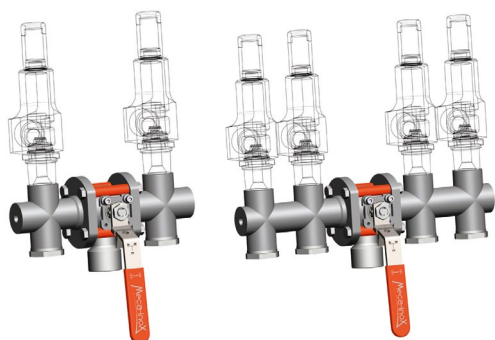
- Suitable for packing instructions P200 (ADR 2011)
- Gas UN3161 (flammable liquefied gas), UN1013 (CO₂) & UN1066 (N₂)
- Certified EN14432
- Service temperature: -50°C to 80°C

3-piece check valve CL4 I

- Suitable for packing instructions P200 (ADR 2011)
- Gas UN3161 (flammable liquefied gas), UN1013 (CO₂) & UN1066 (N₂)
- Certified EN14432
- Service temperature: -50°C to 80°C

Design Diverter

Solutions for safety valves



Design diverter

- Pipes DN08 to DN100
- 3-way, L bore or T bore
- For 2x1 or 2x2 safety valves
- Degreased for O₂ application acc. to EN12300



Service temperature @ ΔP 1 bar -50°C to 190°C

Design Fireblock

Solutions for emergency shut down



Design Fireblock

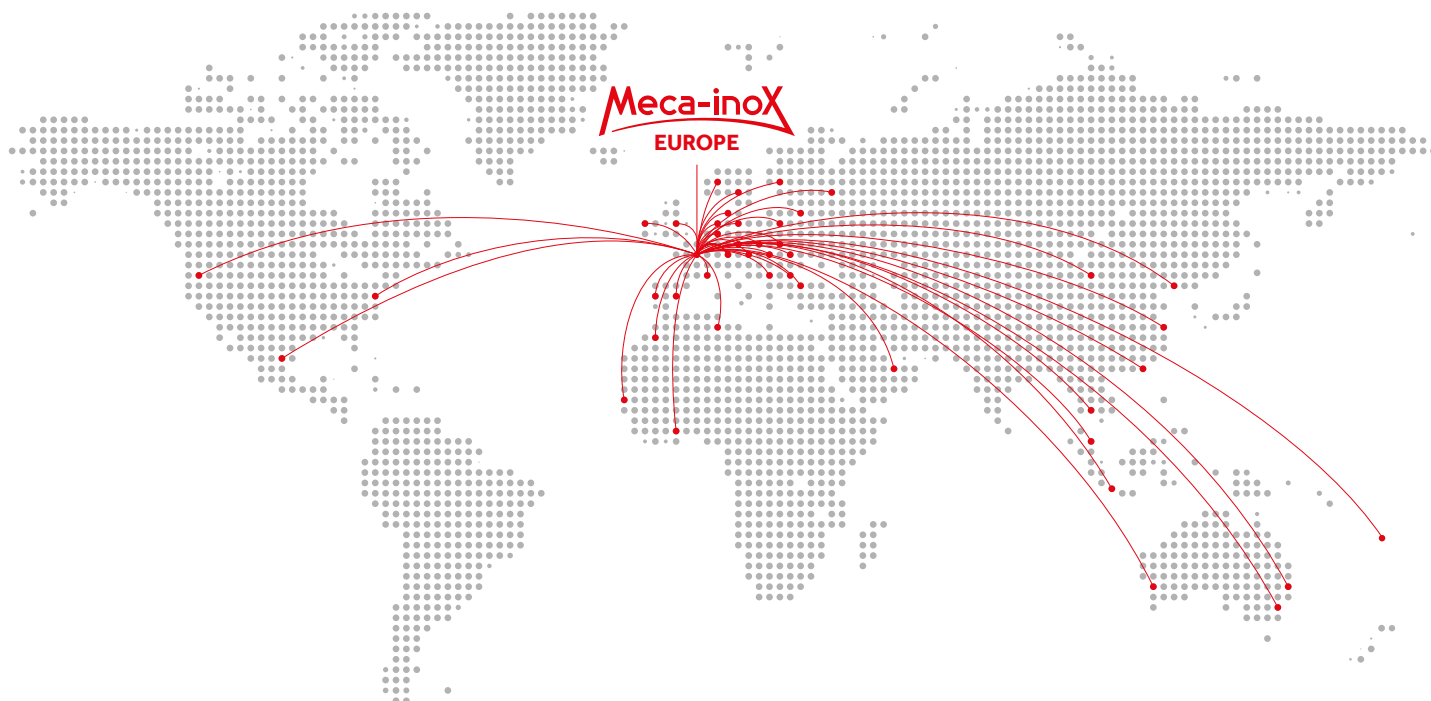
- Pipes DN20 to DN50
- Full bore or reduced bore
- Pressure class PN50 to PN100
- Service ΔP 40 bar
- Orbital ends or nipple ends
- Emergency shut-off in case of fire (fuse)
- Degreased for O₂ application acc. to EN12300



Service temperature @ ΔP 1 bar -196°C to 190°C



TÜVRheinland®
CERT
ISO 9001



Your reference for large-scale international projects

As a leader in France and a key player in Europe in its markets, the company **operates in over 35 countries** through a network of around a hundred distributors.

Thanks to the capacity and flexibility of its industrial site in Gisors (Normandy), capable of producing up to 20,000 valves per month, Meca-Inox adapts to all its customers' demands: from a few valves for industrial equipment to over 10,000 valves for building a new mega-factory, as well as maintenance parts for installed valves.

3 000 000 valves installed
in 150 countries

150 000 valves produced
per year

100 official stocking
distributors

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BALL VALVES MADE IN FRANCE

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