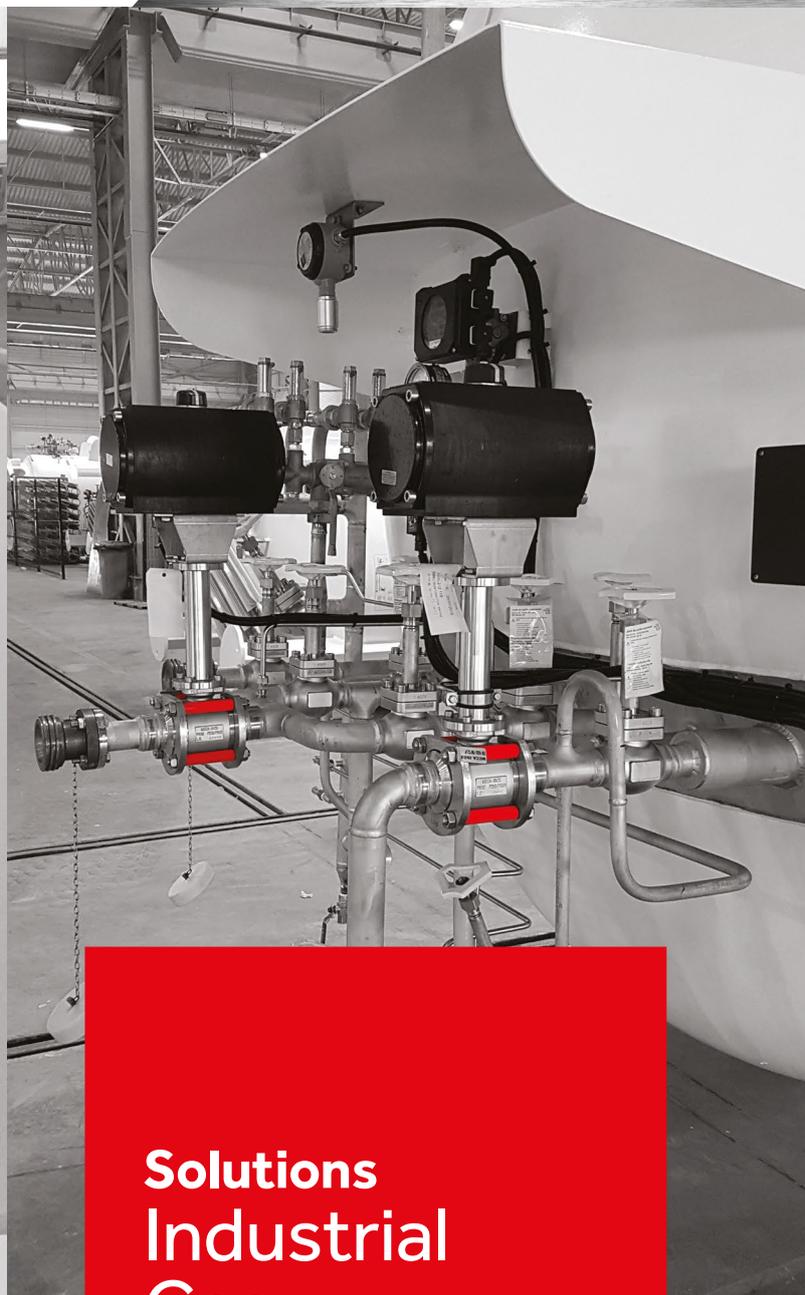


Meca-inox

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

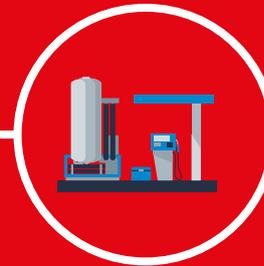
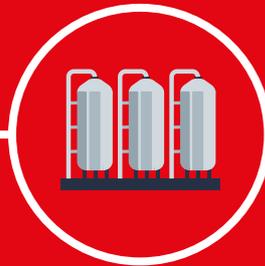


Production

Transport

Storage

Distribution



Chemistry



Pharma
& Health



Electronic



Industry



Food
& Drink

▶  **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 | Carbagas | CHART Group | Chemet-GLI
Linde | Messer | OMSP Macola | Praxair | VRV | Worthington Aritas
Cryostar | ...

Butt Welding (BW)

Orbital welding
or nipple ends (BW)

Female
threaded
Male threaded

Socket
Welding (SW)

Flange connection



Other accessories
for manual
operation available

Other type of end connections
available. Mix possible.

Pneumatic and
electrical actuation

Limit switch
boxes and
solenoid valves

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

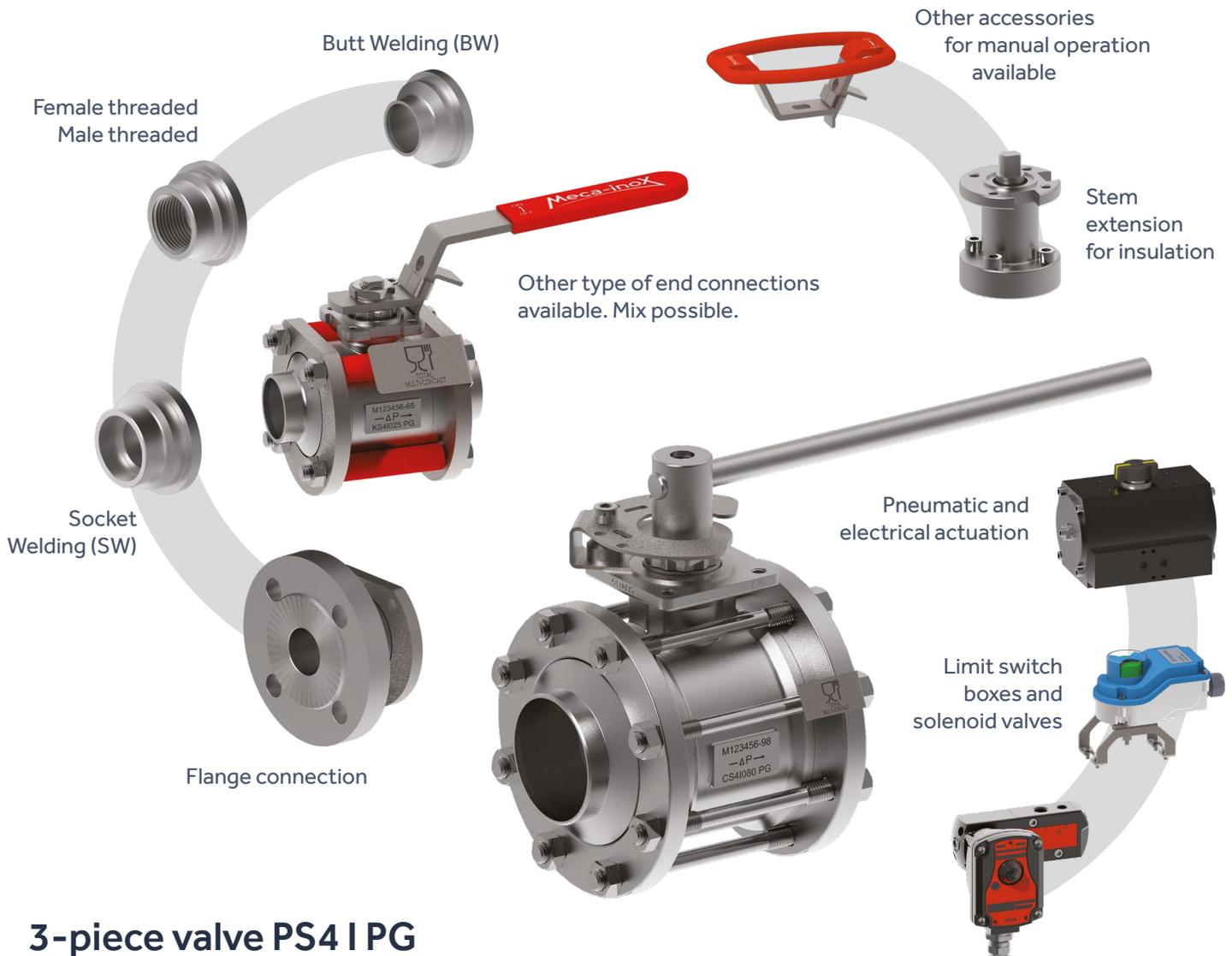
- V-ball 30° or 60°
- 3-way version, L bore or T bore
- Fire safe version acc. to ISO10497



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 <math> < 10^{-3} \text{ mbar/l.s}^{-1} \text{ (Helium)} </math>

Line PH4 I



Solutions for medical gases
and ionizing environment



3-piece valve PH4 I

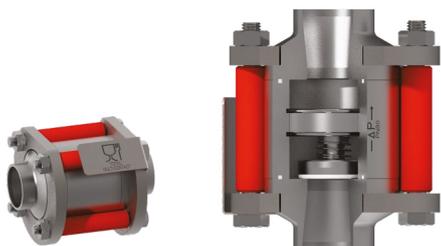
- Seats and sealings in U.H.M.W.P.E.
- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure class PN16 to PN100
- Pneumatic and electrical actuator
- Any stainless steel end connection available (BW, SW, threaded, flanged, ...)

 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 | 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

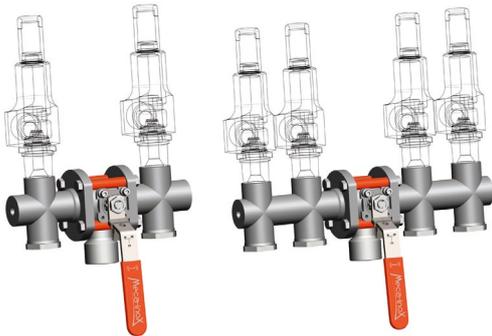
- Suitable for packing instructions P200 (ADR 2011)
- Gas UN3161 (flammable liquefied gas), UN1013 (CO₂) & UN1066 (N₂)
- Certified EN14432
- Service temperature: -50°C to 80°C

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

Meca-inox



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

MECA-INOX EUROPE

1, rue de la Croix des Maheux
F-95031 CERGY-PONTOISE CEDEX
T. + 33 (0)1 78 47 80 00
infos@meca-inox.com

meca-inox.com

INDUSTRIAL PLANT

12, rue de la Haute Borne
ZAC Le Mont de Magny
27140 GISORS – France

BALL VALVES MADE IN FRANCE

WORLDWIDE AVAILABLE