



EUROPE - EN - 2024



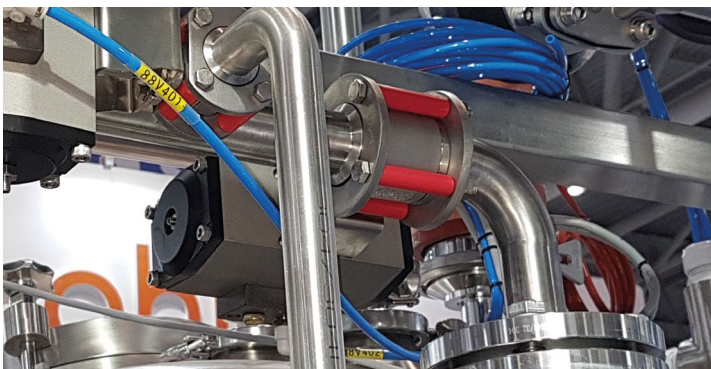
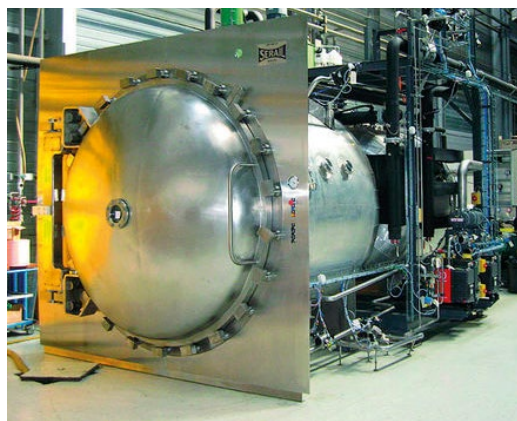
**Solutions
Pharma
& Biotech**

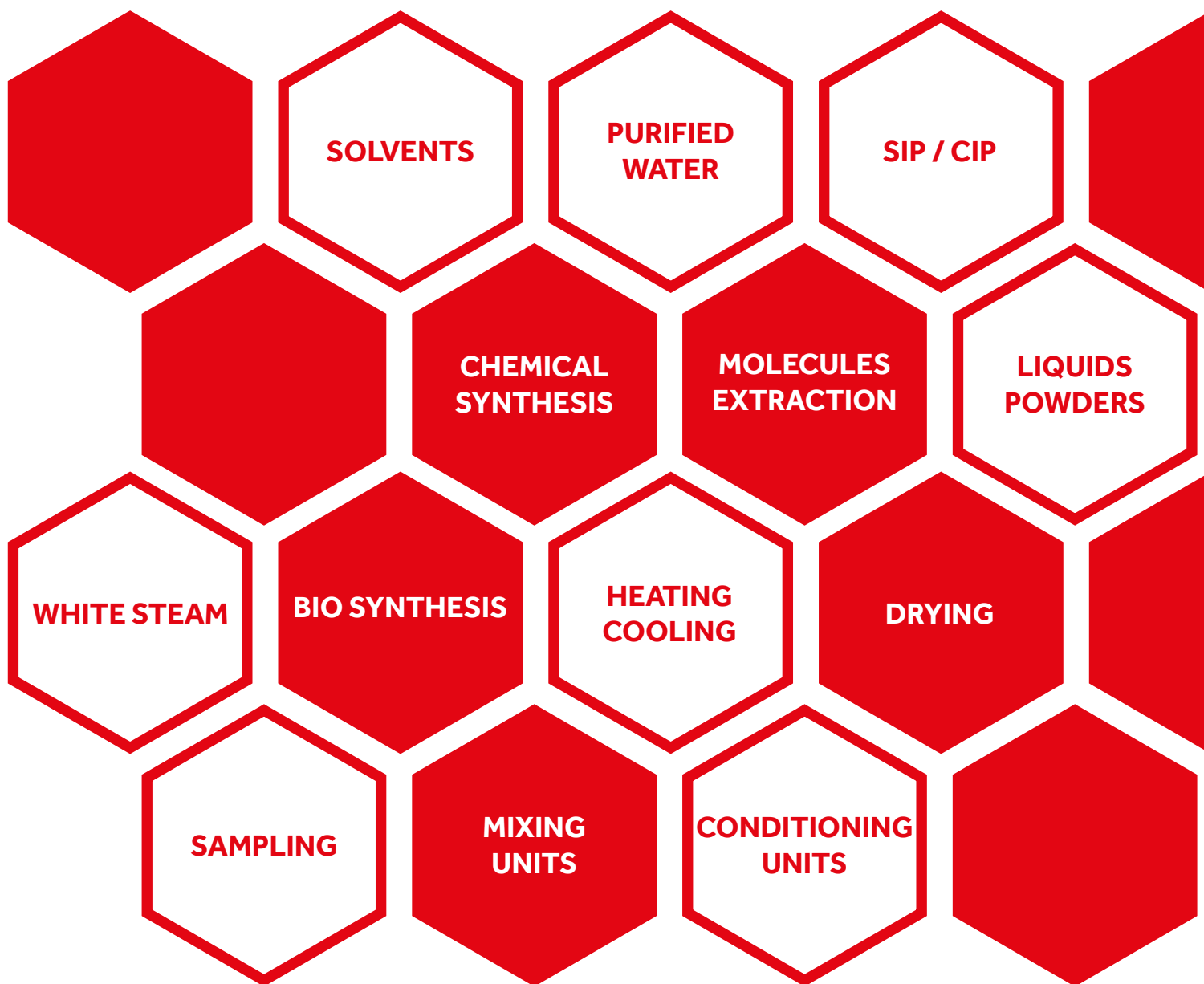
meca-inox.com

Pharma & Biotech **Solutions**

Since more than **40 years**, MECA-INOX is ball valve strategic partner of major actors of **Pharma, Biotech and Cosmetics** in Europe, North America and Asia (molecules synthesis, conditioning, engineering, equipment's ...)

Designed, produced & tested in our plants, our ball valves are in compliance with **International Standards** and are qualified and used for their **Quality, Reliability & Performance**.

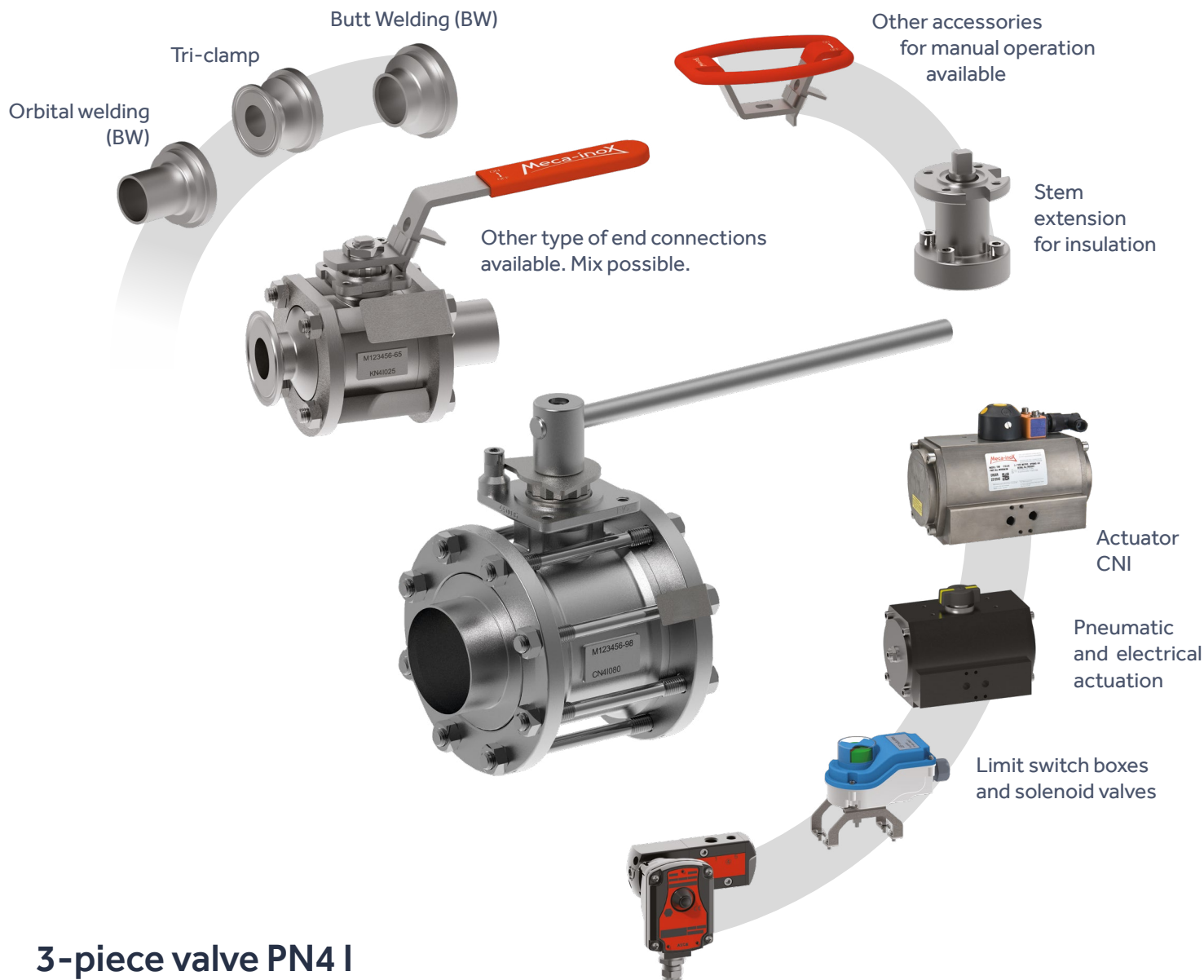




**ANTIBODIES, BLOOD PRODUCTS, VACCINES,
HOMEOPATHIC MEDECINES, COSMETICS, CREAMS ...**

They trust us

Biogen | Pfizer | CSL Behring | Cilag AG | Sanofi | TEVA | Roche | Eli Lilly
Boehringer | Janssen | LEK Pharmaceutical | Novartis | Novasep | Novo Nordisk
Pierre Fabre | Cargill | Solvay | Rohm & Haas | Yingde Bio (Shinva)



3-piece valve PN4 I

- Pipes DN08 to DN150
- Full bore
- Pressure class PN16 to PN100
- Internal surface finish Ra 0,4 (ball and ends)
- Ball in low ferrite stainless steel (1.4435)
- Orbital welding end in low ferrite stainless steel (1.4435)
- USP Class VI seats (TFM1600®)
- Option: USP Class VI cavity fillers, degreased for O₂ application acc. to EN12300

Special lines

- True bore version
- 3-way versions

Line PS4 H



Solutions for corrosive media
SIP/CIP lines, chlorinated fluids, ...

3-piece valve PS4 H

- CIP lines and corrosive media, all wetted parts in Alloy C22
- Pipes DN08 to DN65
- Full bore and reduced bore
- Pressure class PN50 to PN100
- **Option:** cavity fillers, degreased for O₂ application acc. to EN12300



Other Alloy C22 lines of product available:

MS4 H

- PED 2014/68/EU category 3
- DN65 to DN150 ; PN16 to PN40

PN4 H

- PED 2014/68/EU category 1
- DN08 to DN65 ; PN50 to PN100
- Internal surface finish Ra 0,4 (ball and ends)
- USP Class VI seats (TFM1600®)

Line MN4 F



Solutions for clean room

3-piece valve MN4 F

- Installation in clean room
- USP Class VI seats (TFM1600®)
- All wetted parts in low ferrite stainless steel 1.4435 (ball, body and ends)
- Internal surface roughness Ra 0.4
- External surface roughness Ra 2,4
- Pipes DN08 to DN50
- Full bore
- Pressure class PN50 to PN100
- Orbital welding ends or tri-clamp ends
- Option: USP Class VI cavity fillers, degreased for O₂ application acc. to EN12300



Actuator CNI

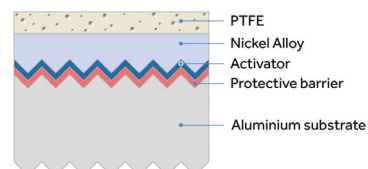
Coating Nickel Impregnated

Solutions for clean room

CNI coating used on Meca-Inox actuators is a unique process of Nickel Impregnation. In opposition of usual nickeling processes, impregnation of chemical Nickel ensures that the coating will have:

- **No risk to detach**
- **No risk to fissure**
- **No risk to flack off**

Suitable for repeated cleaning.



Solutions for **steam and thermal fluids**

Line **R2Z I**

Short pattern



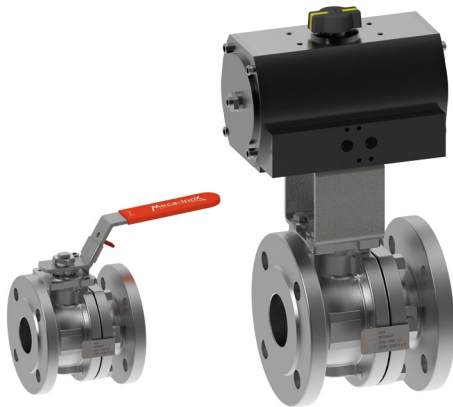
Solution for black utilities
Saturated steam

2-piece valve R2Z I

- Flange connection acc. to EN1092-1
- Face-to-face EN558 Series 14 short pattern
- Pipes DN15 to DN200
- Pressure rating;
 - ➔ PN40 (DN15 to DN80)
 - ➔ PN16 (DN100 to DN200)
- Pneumatic and electrical actuation
- **Option:** extended stem for insulation



Service temperature @ ΔP 1 bar 0°C to 280°C



Line **PZ4 I**



Solution for black utilities
Saturated steam

3-piece valve PZ4 I

- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure class PN16 to PN100
- Pneumatic and electrical actuation
- Any stainless steel end connection available (BW, orbital, clamp, ...)



Service temperature @ ΔP 1 bar -30°C to 280°C



Line **PJ4 I**



Solution for thermal fluids
Heat transfer oil

3-piece valve PJ4 I

- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure rating PN16 to PN100
- Pneumatic and electrical actuation
- Any stainless steel end connection available (BW, orbital, clamp, ...)
- Gland packing and body seal in fluorosilicon to increase tightness during thermal shocks
- **Option :** extended stem for insulation



Service temperature @ ΔP 1 bar -80°C to 190°C

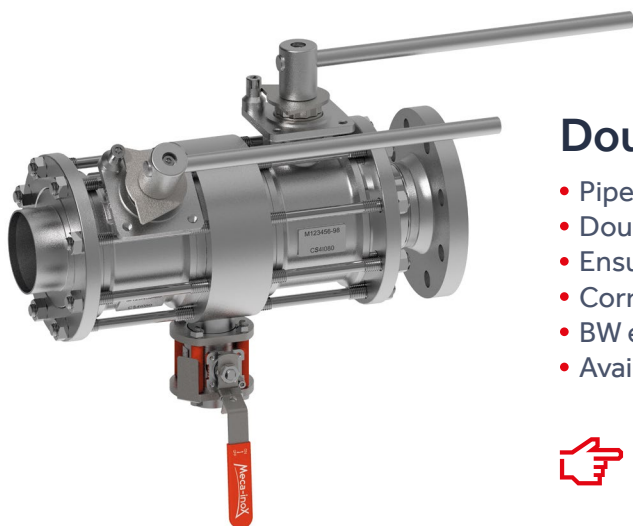


Special Designs

Design PS4 | DBB



Solution for black utilities
Double Isolation



Double Block & Bleed Design

- Pipes DN08 to DN150
- Double block for isolation and bleed for drain
- Ensure the safety of your operators and installations
- Corrosive and dangerous fluids (steam lines, acids & bases, ...)
- BW ends or flanged ends
- Available with lockable lever and/or actuation. Mix possible.

 **For further information, see the DBB brochure**



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

Design PS4 | AFL / PS4 | FC



**Solution
for black utilities**
Ingredients



Flush design / Tank bottom

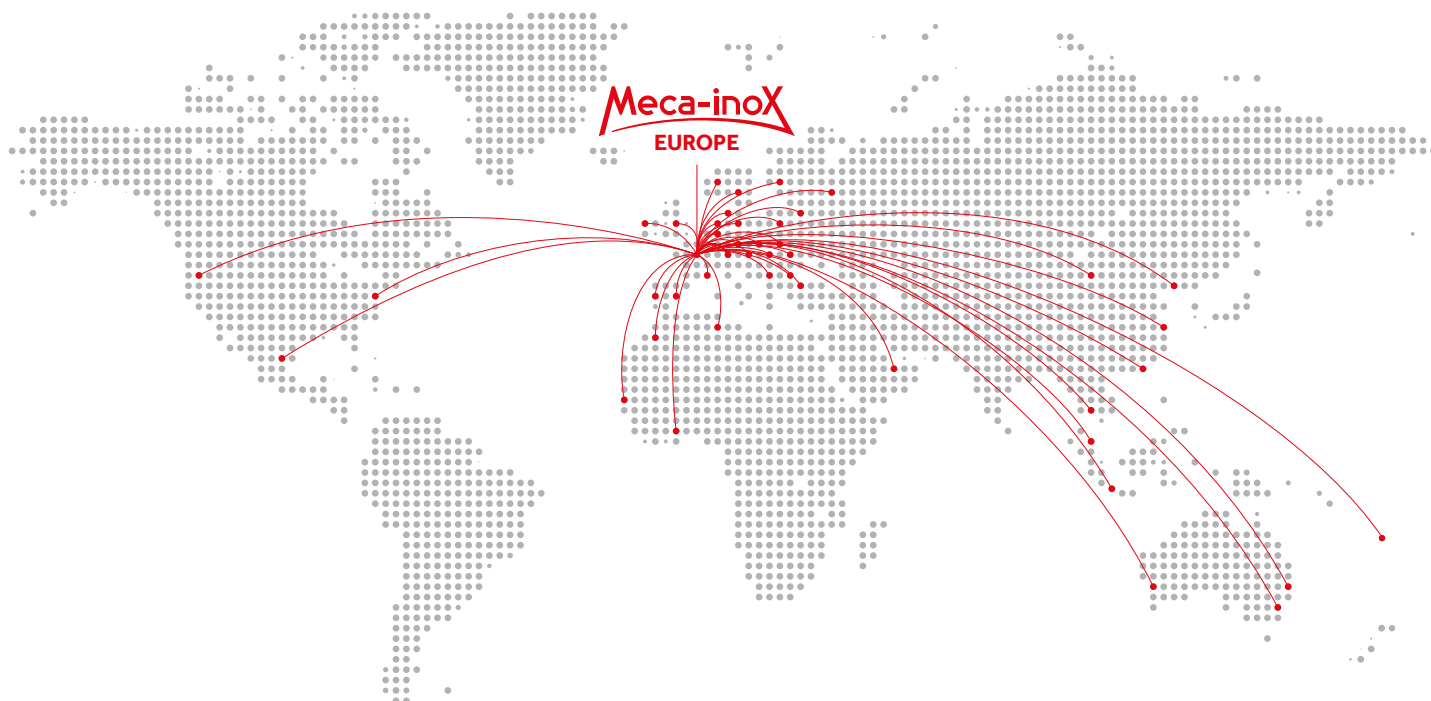
- Reduced retention zone
- For tank bottom installation and flushing lines (collection and injection)
- Any stainless steel end connection available (BW, orbital, clamp, ...)



**Service temperature @ ΔP 1 bar
-50°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

WORLDWIDE AVAILABLE