

# Meca-inox

EN - 2025



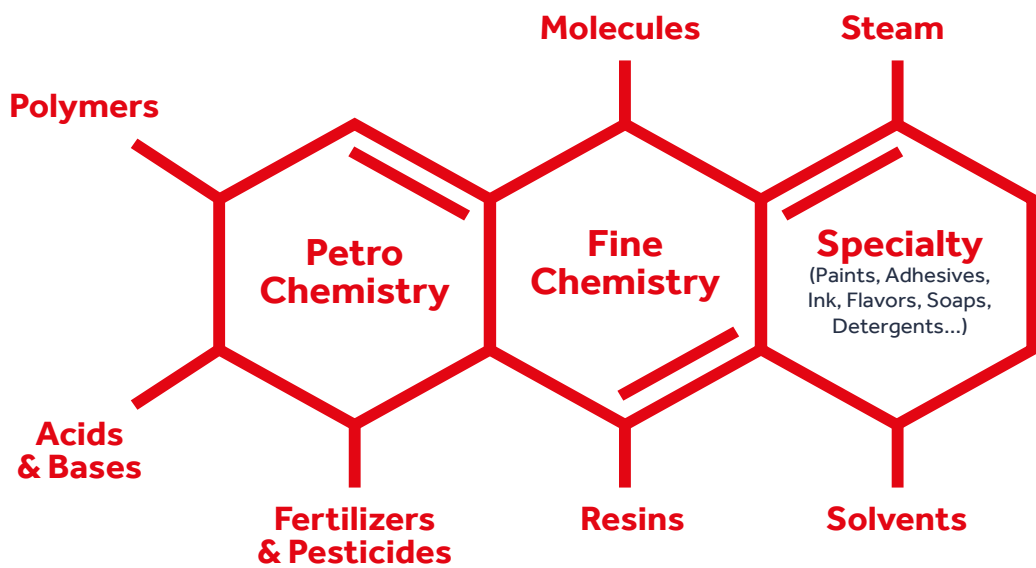
**Solutions  
Chemistry  
& Process**

[meca-inox.com.cn](http://meca-inox.com.cn)

# Chemistry & Process Solutions

Discover our range of more than **10 000** different manual and actuated ball valve configurations, with standard and special designs and material to find your specific solution.

Since more than **60 years**, MECA-INOX is a ball valve strategic partner of major chemistry and process industries. For Petro Chemistry, Fine Chemistry and many Specialties, our valves are qualified and used for their **performance, durability and quality**. Designed, produced and tested in our facilities in France, all our ball valves are complying with European and International strictest standards.



EN12266-1  
"A class" Tightness

Helium & Gases Tightness

ISO15848-1 (2006)  
« Class B Helium fugitive emission »



# Applications

Acids, Bases, Solvents, Alcohol, Gases, Steam, Reactants, Utilities ...



## Production & Storage



Olefins  
& Aromatics



Polymers  
& Elastomers



Fertilizers NPK  
& Pesticides



Paints, Resins  
& Coatings



Adhesives  
& Inks



Powders  
& Explosives



Soaps, Shampoos  
& Detergents



Flavors  
& Fragrances



Oil, Ethanol  
& Bio Diesel



## ADR/RID 2023 transport

✓ EN14432 Certified Valves

## They trust us

Arkema | BASF | Bayer | Clariant | Colgate | Dior | DRT | DSM | Givaudan  
Henkel | L'Oréal | Oril | PPG Coatings | Roquette | Sanofi | Solvay | Tate & Lyle  
Toray | Yara

# 3-piece valves modularity



## 3-piece valve

- Pipes DN08 to DN200
- Full bore / reduced bore
- Pressure class PN16 to PN100
- Option: cavity fillers, degreased for O<sub>2</sub> application acc. to EN12300

## Special Designs

### Regulation for steam and thermal fluids



- ±10% Accuracy
- Tight in closed position, do not require an additional on/off valve
- Suitable for level regulation, temperature management, ...
- Wide range of flow rates available



Standard ball



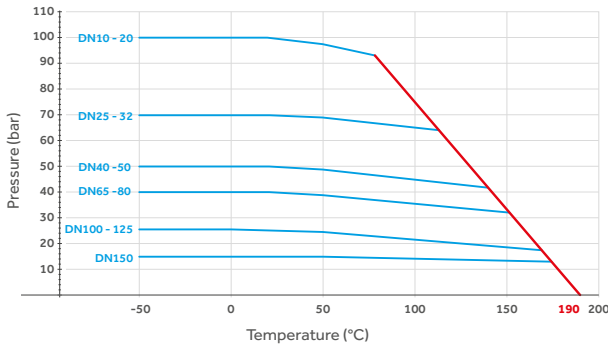
V60 ball



V30 ball

## Line PS4

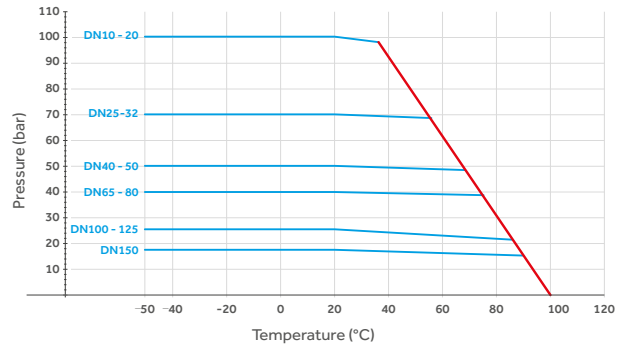
- PTFE 2nd Generation seat
- Acids, Base, Solvents, Alcohols, Gas



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

## Line PH4

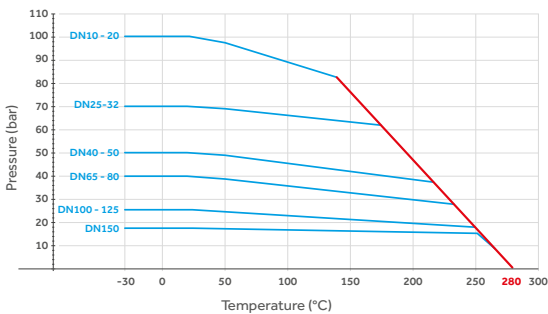
- TIVAR 1000® HDPE seat
- Water & Gaz in Radiation Environment, Medical Oxygen...



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

## Line PZ4

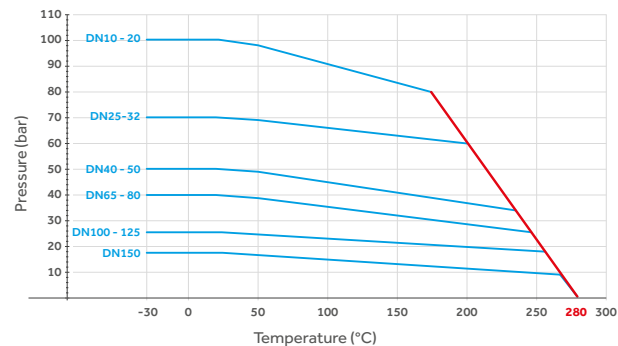
- PTFE 20% PEEK seat
- EN14432 certified
- Steam, Hot Oil, Hot Chemicals, Bitumen...



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

## Line PP4

- PEEK seats
- Hot Concentrated Acids, Oil Cracking...



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

## Corrosion



- Wetted parts in contact with the fluid in specific corrosion resistant materials:
  - ➔ 304L
  - ➔ 904L
  - ➔ Alloy C22
- Pipes DN08 to DN200
- Full bore and reduced bore
- Pressure class PN16 to PN100
- Option: cavity fillers

## Other lines



- True bore version
- 3-way versions, L or T bore

## Line R2H



### 2-piece valve R2H

- Fire safe acc. to ISO 10497
- Flange connection acc. to EN1092-1
- Face-to-face EN558 Series 4 short pattern and Series 1 long 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 @  $\Delta P$  1 bar **-50°C to 210°C**

## Line R2Z



### 2-piece valve R2Z

- Flange connection acc. to EN1092-1
- Face-to-face EN558 Series 4 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 @  $\Delta P$  1 bar **0°C to 280°C**

## Line CL4



### 3-piece check valve CL4

- Pipes DN08 to DN65
- Pressure class PN80
- Any stainless steel end connection available (BW, SW, threaded, flanged, ...)
- Option: degreased for O<sub>2</sub> application acc. to EN1230

Service temperature @  $\Delta P$  1 bar **-196°C to 190°C**

## Line VC4



### 3-piece sight glass VC4

- Pipes DN08 to DN65
- Pressure class PN6, PN10 & PN16
- Any stainless steel end connection available (BW, SW, threaded, flanged, ...)

Service temperature @  $\Delta P$  1 bar **-50°C to 200°C**

## Design **DBB**



### 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 (PS4 version) & steam and high temperature fluids (PZ4 version)
- BW ends or flanged ends
- Available with lockable lever and/or actuation. Mix possible.

## Design **AFL / FC**



### 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, ...)

## Design **ET**



### Jacketed Valve Design

- Jacket suitable for steam, water or thermal oils up to 25 bar
- Maintain the temperature of circulating products
- Any stainless steel end connection available (BW, orbital, clamp, ...)
- Pneumatic and electrical actuation

## Line **RBSTN**



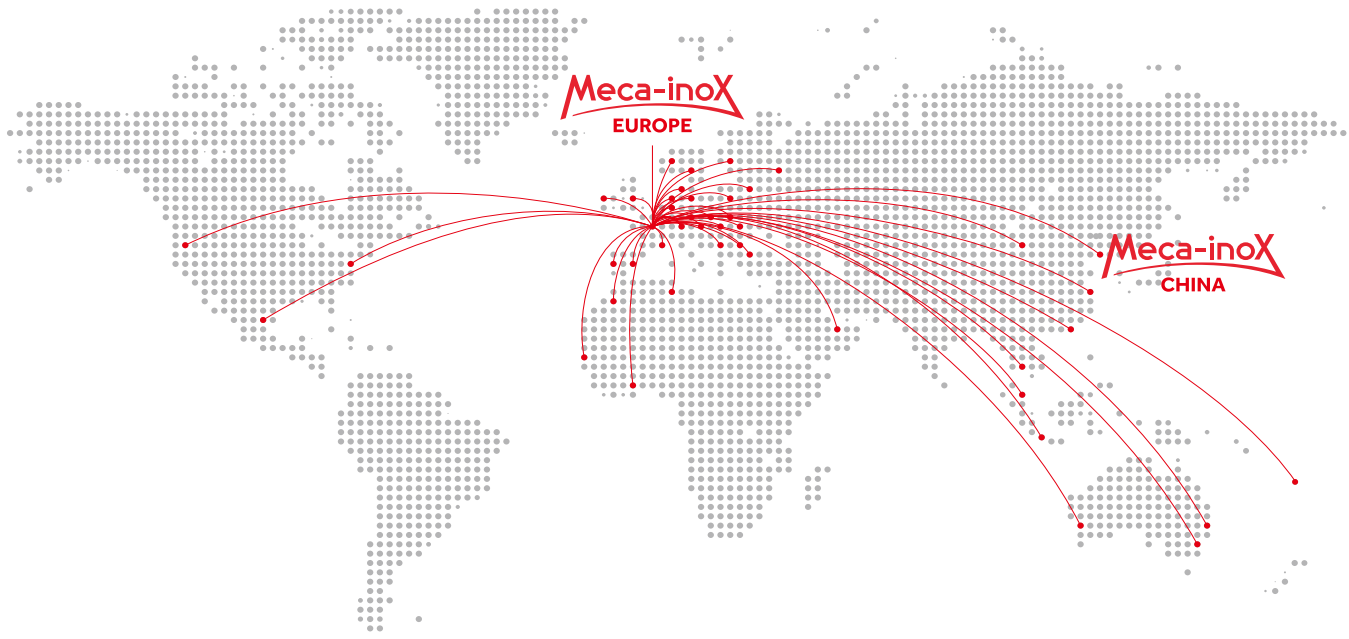
### 1-piece ball valve RBSTN

- Pipes from DN08 to DN80
- Pressure class PN63
- Threaded connection
- Qualified by Meca-Inox for low pressure utilities



Service temperature @  $\Delta P$  1 bar **-25°C to 175°C**

# Meca-inox



## Your reference for large-scale international projects

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.

- 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