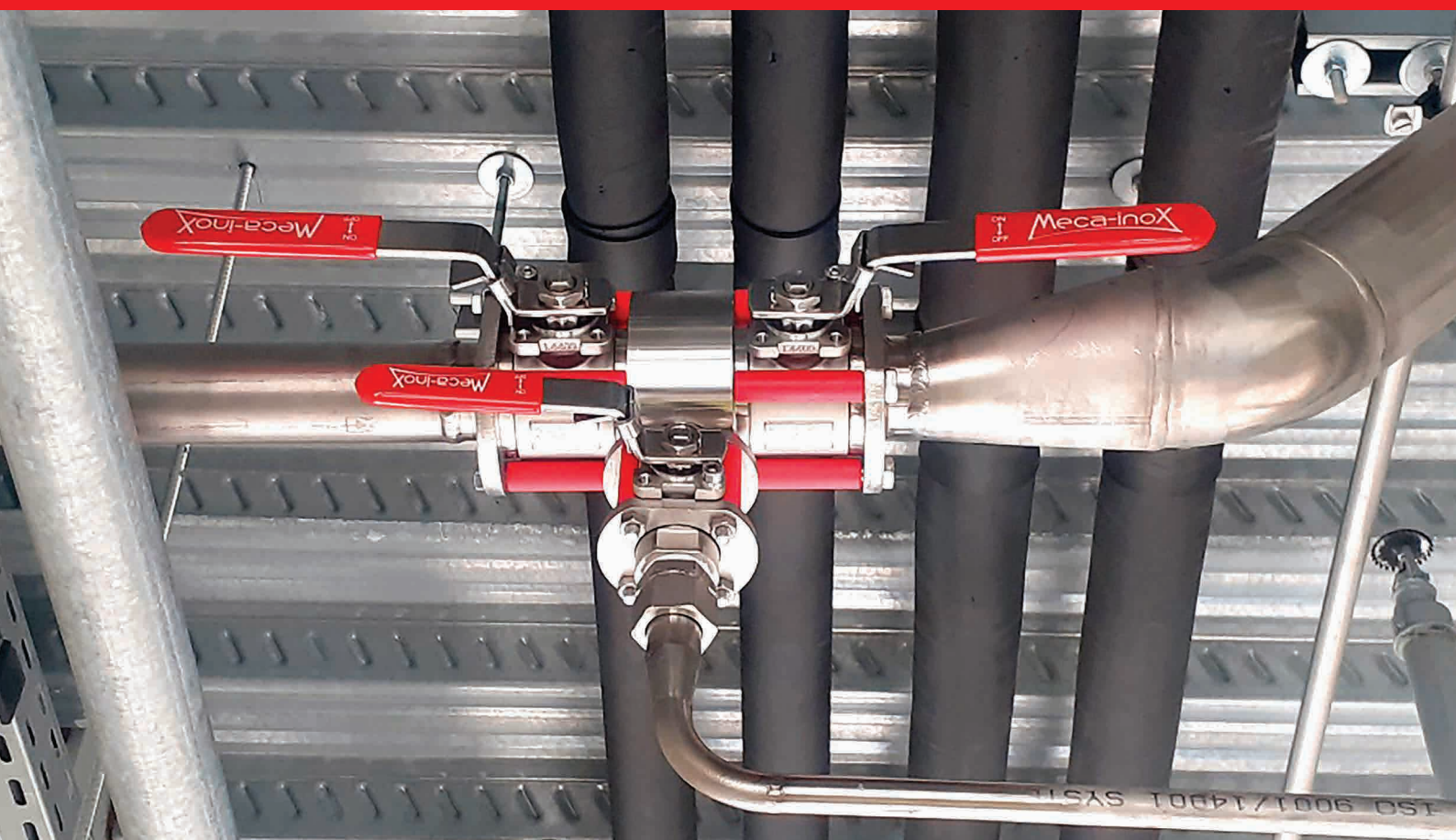


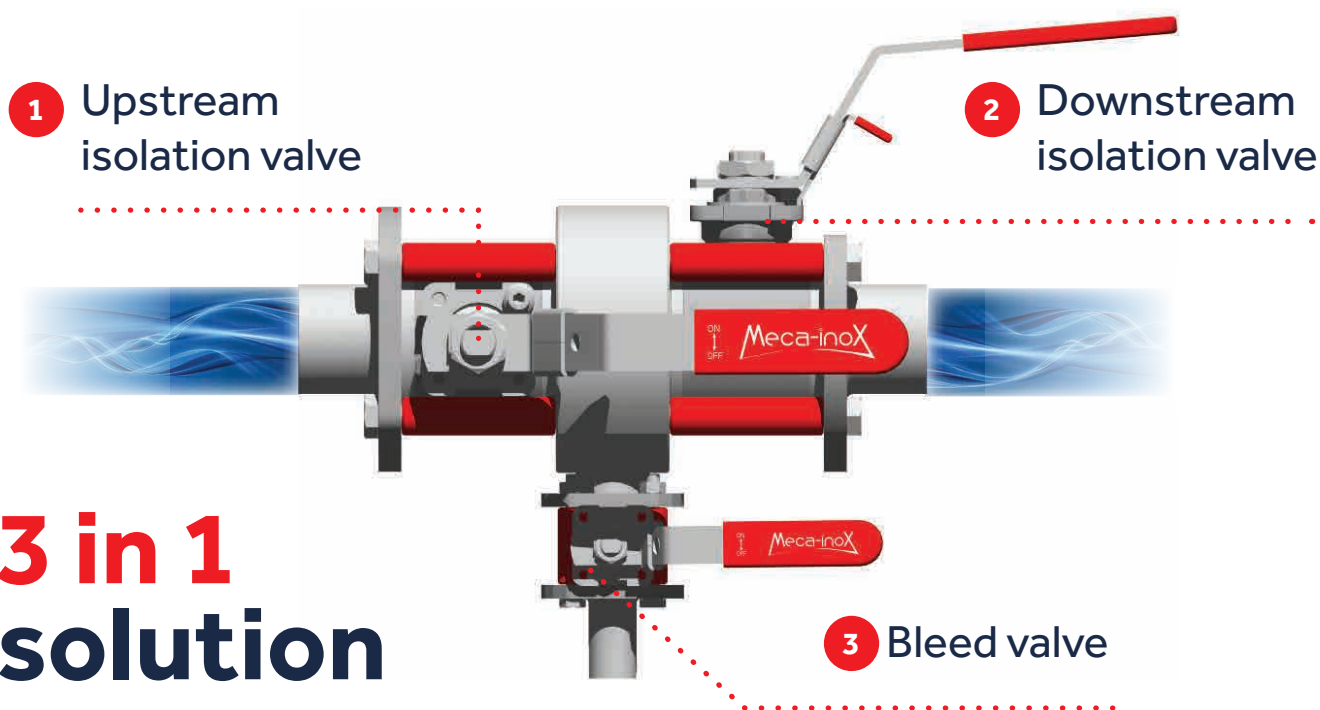
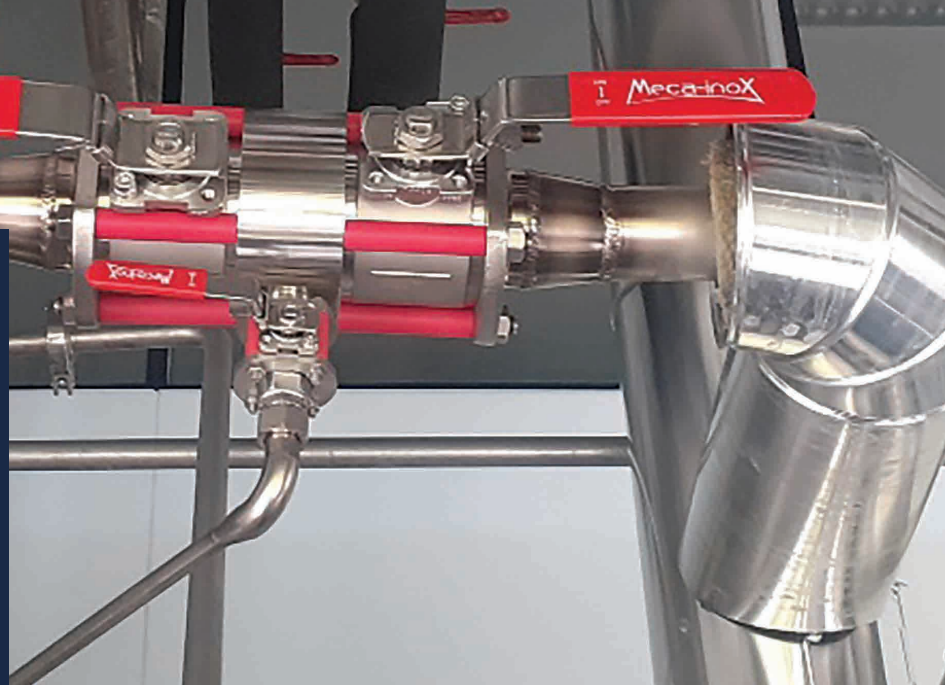
Meca-inox

BALL VALVES

**Double Block and Bleed Ball valve
your 3 in 1 solution**



Double Block and Bleed Ensure safety of your operators



3 in 1 solution



Guarantee of total tightness on dangerous fluids

with double isolation (2 valves mounted in series). Risk of leakage avoided to protect operators and installations, particularly during equipment maintenance or cleaning on this line.



Avoid risk of overpressure

bleed the remaining fluid between valve 1 and 2.

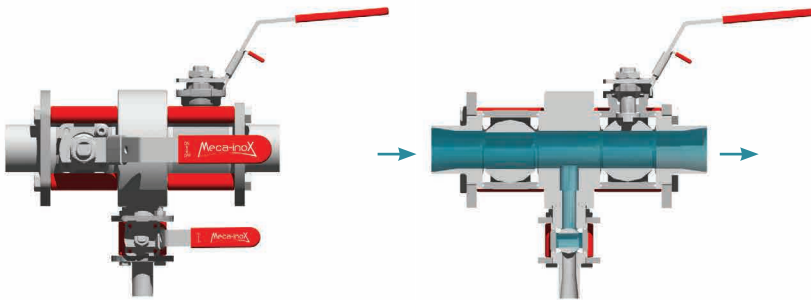


Close & lock all valves

in single and limited area instead of manipulating 3 separate and distant valves.

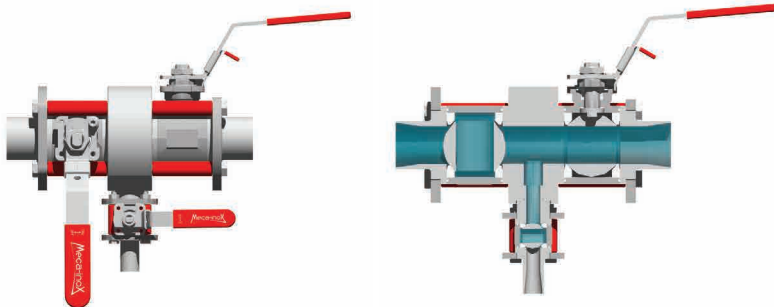
Working principles

Normal operation



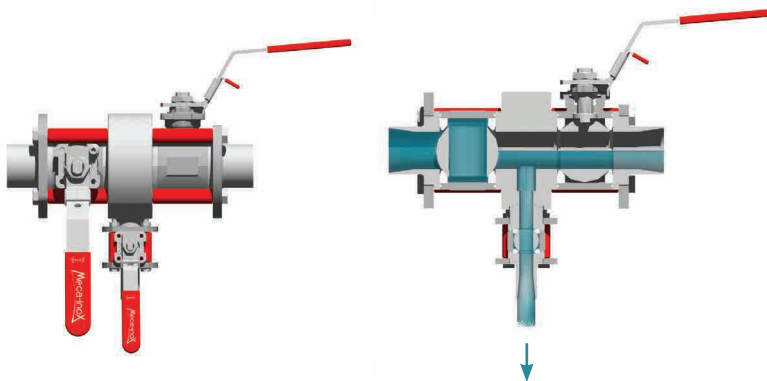
Main line valves are in open position, while the bleed valve is closed. Fluids flows through the DBB valve.

Maintenance operation



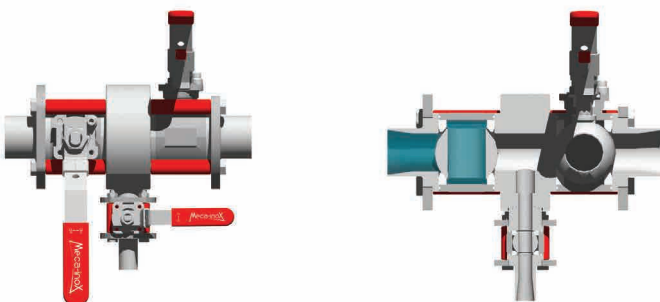
STEP 1

The upstream valve **1** is closed, while the downstream valve **2** is open. The bleed valve **3** is closed.



STEP 2

The bleed valve **3** is open, to evacuate the remaining fluid to a secured event pipe.



STEP 3

Downstream valve **2** is closed, ensuring double sealing of the pipe section.
The downstream section is now fully isolated and secured for intervention or maintenance works.



**Increase
safety
Ease your
maintenance**

PERFORMANCE & RELIABILITY

✓ Safety for operators and installations during maintenance interventions

Internal tightness :

« classA » ace. to EN12266-I.

< 10-3 mbar.L/s (He at 50 bars)

Sealing at each valve seats

✓ Valves isolation in a single area

No risk of unclosed valves

AVAILABILITY & MAINTENANCE

✓ Availability within 4-6 weeks

after receipt of order

✓ Meca-Inox standard spare parts

for maintenance

✓ Full traceability

of the valve and its components

«PLUG & PLAY» DESIGN

✓ Easy and fast installation

DBB valves with orbital welding or flanged ends are delivered fully assembled for direct mounting on fluid piping.

✓ 3-1 compact design

Welding operations during installation reduced by 2. Junction base entirely machined. No additional loose flanges or welding.

✓ Connection modularity

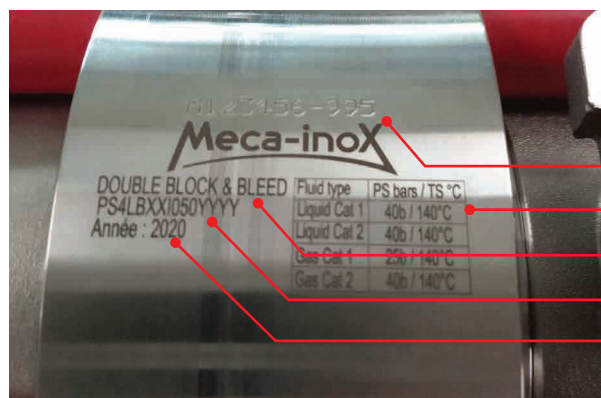
Choice of endings: orbital welding, flanges PN40/PN16, mix available

(Other ends possibilities : BW, SW, BSP / NPT...)

✓ Actuation modularity

Lockable manual lever or actuated.

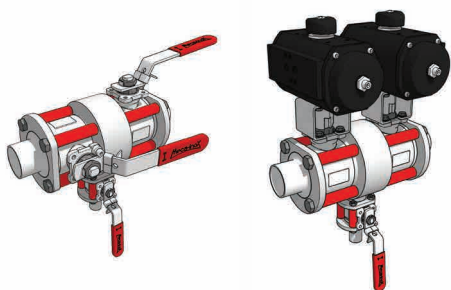
Mix available



Marking

- Traceability number
- Ps / Ts max. value
- Valve Type
- Product Code
- Production year

Multiple combination



DN08 to DN50

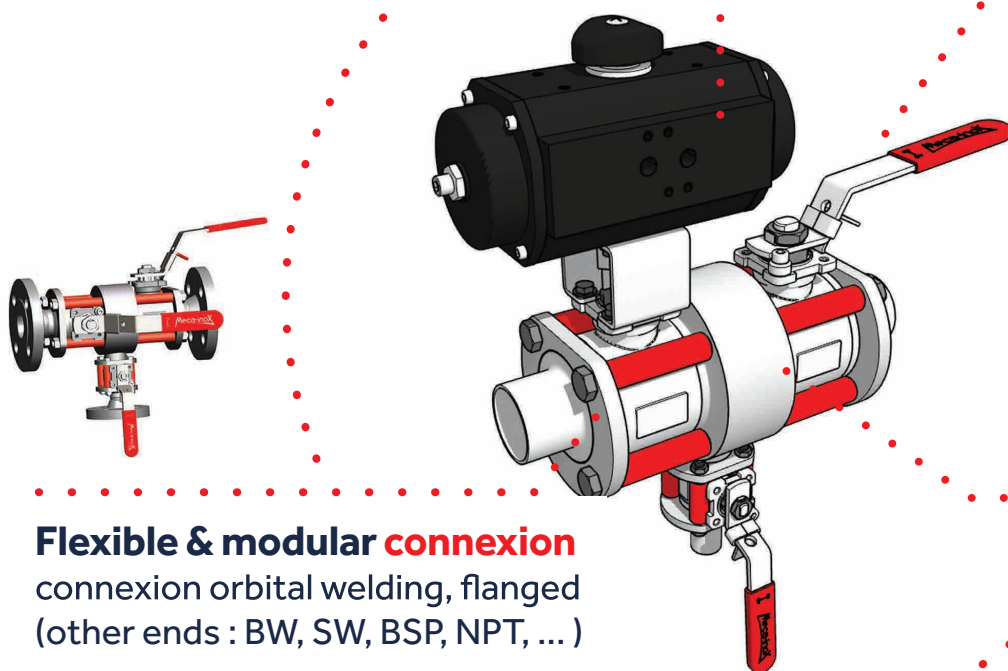
DN65 to DN150



Flexible & modular **actuation**

lockable manual or actuated (mix available)

From **DN08 to DN 150**



Flexible & modular **connexion**

connexion orbital welding, flanged
(other ends : BW, SW, BSP, NPT, ...)

Junction base

Sealing between bleed
valve and junction base



Assembling of a DN80 DBB

A **unique** know-how

Our DBB valve are **made**
in our factory at Gisors&Dalian
(Normandy – France&Dalian-China).
They result from **more than 65 years**
of expertise in ball valve.

Applications

The DBB P Z4 valve



Steam and High Temperature Fluids



Temperature range: from -30°C to +280°C



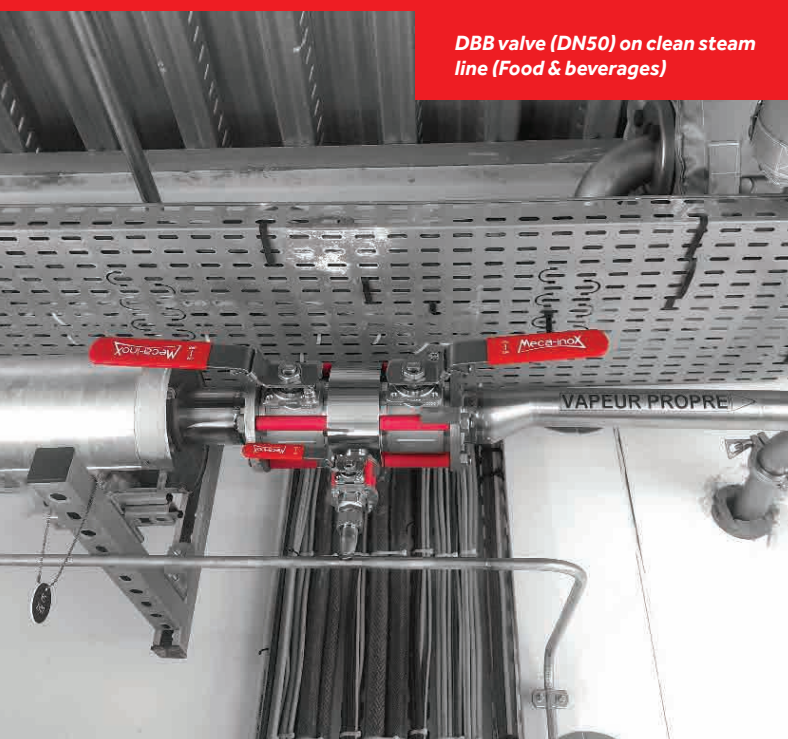
All industries utilities.



Explosion prevention of fuel, natural gas boilers.



Steam isolation for safety measure and staff injuries prevention. Steam for drying, extraction or heating. Sampling connection. Clean steam (food industries).



DBB valve (DN50) on clean steam line (Food & beverages)



DBB valves (DN100) on heat-insulated boiler manifold heater (Food & beverages)

The DBB P S4 valve



Corrosive and dangerous fluids



Temperature range : from -50°C to +190°C



Petrochemicals (Olefins, Aromatics) and Downstream Process. (polymers, thermoplastics, elastomers)



Heating steam for reactors



Paints, resins, coating. (steam line, acids & bases, oxydised reagents)



Chemical injection & cleaning processes



Technical datas for PS4 and PZ4 DBB valves

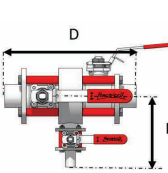
Temperature Range @ 1 bar		PS4 : -50°C to +190°C	PZ4 : -30°C to +280°C
Material	Body	Stainless Steel 316L 1.4409	
	Seats	PS4 : PTFE TFM1600	PZ4 : PTFE +20% PEEK
	Sealing joints	PTFE	
	Junction base	Stainless Steel 316L 1.4408	
Connexion	Piping size	DN08 to DN150	
	Valve body DN size	DN15 to DN100	
Options	Actuation Type	Manual : lockable lever	
	Others options	Cavity filler seats, electrical continuity, degreased	
Certification & norms	Standard Compliance	PS4 : DESP 2014/68/UE (Cat 1 Pipe & Vessels) FDA 21CFR	PZ4 : DESP 2014/68/UE (Cat 1 Pipe & Vessels) FDA 21CFR CE-1935/2014 (Food & Ingredients -30°C à +121°C) (Steam, hot water, oils : -30°C à +250°C) BNIC
	Options	ATEX II 2GD	

Maximum operating pressure per fluid group

In compliance with PED, datas applicable for orbital welding ending.

Body Size	Liquid Group 1 (dangerous) PS MAX	Liquid Group 2 PS MAX	Gas Group 1 (dangerous) PS MAX	Gas Group 2 PS MAX
DN15	100 bar to +20°C			
DN20	100 bar to +20°C			
DN25	70 bar to +20°C			
DN32	PS4 : 60 bar to +110°C PZ4 : 60 bar to +160°C	70 bar to +20°C	PS4 : 30 bar to +150°C PZ4 : 30 bar to +220°C	70 bar to +20°C
DN40	PS4 : 60 bar to +110°C PZ4 : 60 bar to +160°C	50 bar to +20°C	PS4 : 25 bar to +150°C PZ4 : 25 bar to +220°C	50 bar to +20°C
DN50	40 bar to +140°C	50 bar to +20°C	PS4 : 20 bar to +150°C PZ4 : 20 bar to +220°C	50 bar to +20°C
DN65	PS4 : 30 bar to +150°C PZ4 : 30 bar to +185°C	40 bar to +20°C	PS4 : 15 bar to +165°C PZ4 : 15 bar to +250°C	40 bar to +20°C
DN80	PS4 : 25 bar to +150°C PZ4 : 25 bar to +220°C	40 bar to +20°C	PS4 : 12 bar to +165°C PZ4 : 12 bar to +250°C	40 bar to +20°C
DN100	PS4 : 20 bar to +150°C PZ4 : 20 bar to +140°C	25 bar to +20°C	PS4 : 10 bar to +165°C PZ4 : 10 bar to +250°C	25 bar to +20°C

Dimensions of the DBB Valve

Units	Body size DN	Bleed DN (BSP ending)	Orbital welding ending			Flanged endings (EN1092-1)			Others endings (BW, SW, BSP, NPT)		
			width D	length L	weight	width D	length L	weight	width D	length L	weight
 Width D (mm) Length L (mm) Weight without lever (kg)	15	DN15	204.4	98.7	3.1	217.4	98.7	4.6	157.4	98.7	3.1
	20		218.6	102.7	4.7	238.6	102.7	6.7	173.6	102.7	4.6
	25		236.4	108.2	5.4	256.4	108.2	7.5	196.4	108.2	5.3
	32		261.2	118.7	9.1	290.2	118.7	12.8	220.2	118.7	8.9
	40		277.2	126.2	11.1	318.2	126.2	15.1	243.2	126.2	10.9
	50		336.0	137.2	20.4	381.0	137.2	25.8	301.0	137.2	20.3
	65	DN25	364.0	187.2	33.8	452.0	187.2	41.0	342.0	187.2	34.0
	80		420.0	192.2	47.5	502.0	192.2	55.7	402.0	192.2	47.9
	100		478.0	212.2	73.6	572.0	212.2	83.5	452.0	212.2	74.0

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A BRAND OF GROUP

Meca-inox
SINCE 1955



BALL VALVES MADE IN FRANCE

WORLDWIDE AVAILABLE