



Double Block and Bleed Ball valve your 3 in 1 solution

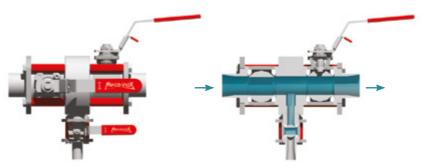






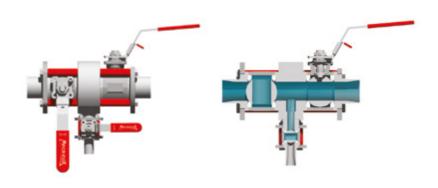
Working principles

Normal operation



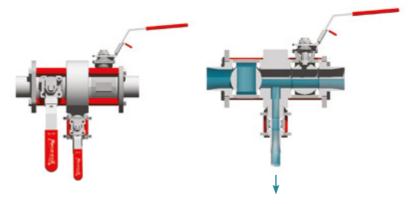
Main line valves are in open position, while the bleed valve is closed. Fluids flows through the DBB valve.

Maintenance operation



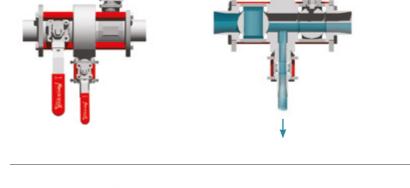
STEP 1

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



STEP 2

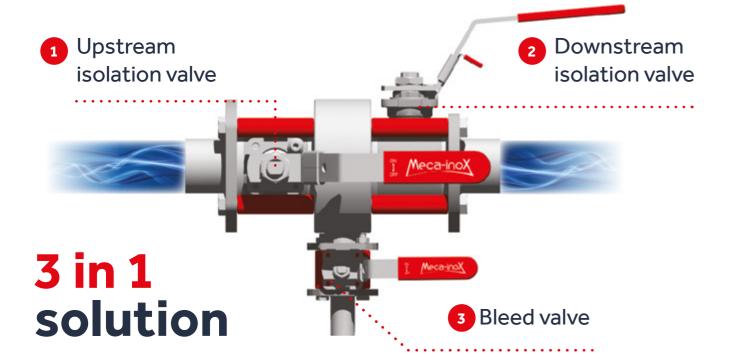
The bleed valve 3 is open, to evacuate the remaining fluid to a secured event pipe.



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.





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 equiment maintenance or cleaning on this line.



Avoid risk of overpressure

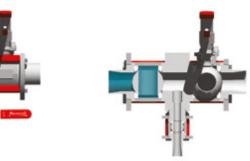
bleed the remaining fluid between valve 1 and 2.



Close & lock all valves

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







Multiple combination

DN08 to DN50



DN65 to DN150

alnab



Flexible & modular actuation lockable manual or actuated (mix available)

From DN08 to DN 150

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

- **Ø** Availability within 4-6 weeks after receipt of order
- Meca-Inox standard spare parts for maintenance
- **Ø** Full traceability of the valve and its components

«PLUG & PLAY» DESIGN

Ø Easy and fast installation

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

Ø 3-1 compact design

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

OCCUPY 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



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



valve and junction base



A unique know-how

Our DBB valve are (Normandy – France). They result from



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



Applications

The DBB PZ4 valve



Temperature range: from -30°C to

All industries utilities.

Explosion prevention of fuel, natural gas

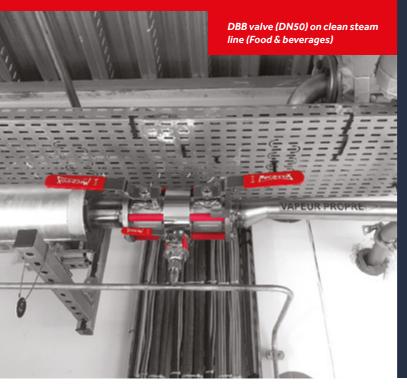
Steam isolation for safety measure and staff injuries prevention. Steam for drying, extraction or heating. Sampling connection. Clean steam (food industries).













The DBB P54 valve

- Corrosive and dangerous fluids
- Temperature range: from -50°C to
- 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				
	Body	Stainless Steel 316L 1.4409					
Matarial	Seats	PS4: PTFE TFM1600	PZ4: PTFE +20% PEEK				
Material	Sealing joints	PTFE					
	Junction base	Stainless Steel 316L 1.4408					
Connexion	Piping size	DN08 to DN150					
Connexion	Valve body DN size	DN15 to DN100					
0 11	Actuation Type	Manual : lockable lever					
Options	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) PSMAX	Gas Group 2 PS MAX					
DN15	100 bars to +20°C								
DN20	100 bars to +20°C								
DN25	70 bars to +20°C								
DN32	PS4 : 60 bars to +110°C PZ4 : 60 bars to +160°C	70 bars to +20°C	PS4 : 30 bars to +150°C PZ4 : 30 bars to +220°C	70 bars to +20°C					
DN40	PS4 : 60 bars to +110°C PZ4 : 60 bars to +160°C	50 bars to +20°C	PS4 : 25 bars to +150°C PZ4 : 25 bars to +220°C	50 bars to +20°C					
DN50	40 bars to +140°C	50 bars to +20°C	PS4 : 20 bars to +150°C PZ4 : 20 bars to +220°C	50 bars to +20°C					
DN65	PS4 : 30 bars to +150°C PZ4 : 30 bars to +185°C	40 bars to +20°C	PS4 : 15 bars to +165°C PZ4 : 15 bars to +250°C	40 bars to +20°C					
DN80	PS4 : 25 bars to +150°C PZ4 : 25 bars to +220°C	40 bars to +20°C	PS4 : 12 bars to +165°C PZ4 : 12 bars to +250°C	40 bars to +20°C					
DN100	PS4 : 20 bars to +150°C PZ4 : 20 bars to +140°C	25 bars to +20°C	PS4 : 10 bars to +165°C PZ4 : 10 bars to +250°C	25 bars 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
Leng		15	DN15	204,4	98,7	3,1	217,4	98,7	4,6	157,4	98,7	3,1
	D	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
	1	32		261,2	118,7	9,1	290,2	118,7	12,8	220,2	118,7	8,9
	<u> </u>	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
	Width D (mm)	65	DN25	364,0	187,2	33,8	452,0	187,2	41,0	342,0	187,2	34,0
	Length L (mm) Weight without lever (kg)	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









BALL VALVES MADE IN FRANCE

WORLDWIDE AVAILABLE