



## COMBI VITAQ VALVE

Two independent quarter-turn angle ball valves in a single body with a one inlet.

- A single water inlet and two independent outlets in a single body.
- VITAQ system, more life, less lime at higher temperatures.
- Without reducing flow, it prolongs comfort at service points.
- European Brass, DW (4MS) quality for use in drinking water installations.
- The knurled inlet thread make it easy to apply the sealant.
- 100% valves are tested for inner leakage.
- Strong one-piece body construction for secure installations.
- Double o-ring.
- Metal handle.
- Some models include check valve.



## TECHNICAL SHEET COMBI VITAQ VALVE

### PRODUCT DESCRIPTION

COMBI are 2 independent quarter-turn angle ball valves in a single body for surface mounting.

This valve allows the water supply to be cut off independently to the equipment connected at each of its two outlets, providing the following advantages:

- Avoid unnecessary works when there is only one water point and two services are required.
- Reduction in the number of threaded fittings.
- More than 80% reduction in installation time.
- Compact, less space for installation.
- Increased reliability and safety of the installation by reducing the number of connections.

VITAQ system increase the valve life span and flow comfort in hard water areas.

### PRODUCT SCOPE

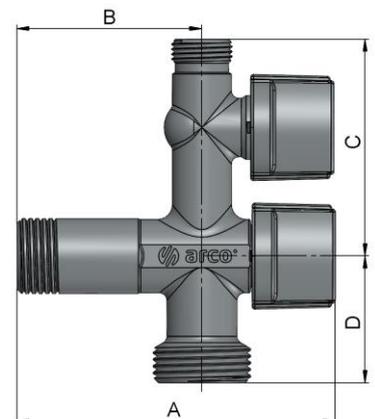
Designed for indoor plumbing installations, allowing to individually cut off the water supply to each of the 2 services connected to each outlet.

### GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

#### METAL HANDLE WITHOUT NUT

Code	Size	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)
COMB5MAC	1/2X3/4X3/8	86	50	59	35	16	0 to 95
COMB5MAC01	1/2X3/4X3/8	86	50	59	35	16	0 to 95
COMB5MAC02	1/2X3/4X3/8	86	50	59	35	16	0 to 95

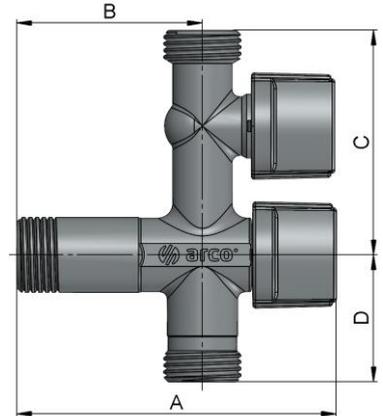
\* Freezing is excluded.




**METAL HANDLE WITHOUT NUT SIN TUERCA**

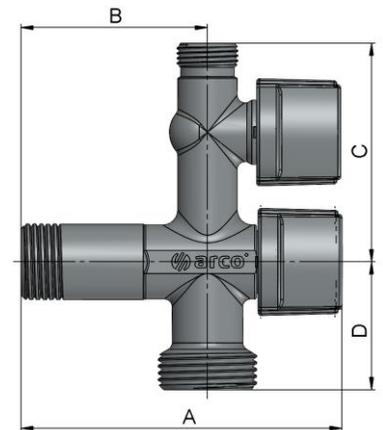
Code	Size	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)
COMB15MAC	1/2X1/2X1/2	86	50	61	35	16	0 to 95

\* Freezing is excluded.


**METAL HANDLE WITHOUT NUT WITH CHECK VALVE ON 3/4 OUTLET**

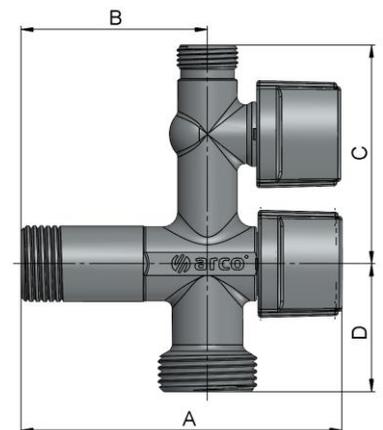
Code	Size	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)
COMB7MAC	1/2X3/4X3/8	86	50	59	35	16	0 to 95

\* Freezing is excluded.


**METAL HANDLE WITHOUT NUT WITH CHECK VALVE ON BOTH OUTLETS**

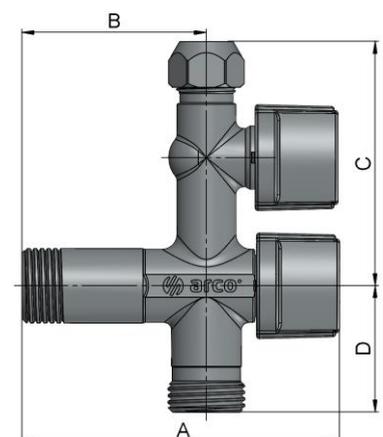
Code	Size	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)
COMB9MAC	1/2X3/4X3/8	86	50	62	35	16	0 to 95

\* Freezing is excluded.


**METAL HANDLE WITH NUT**

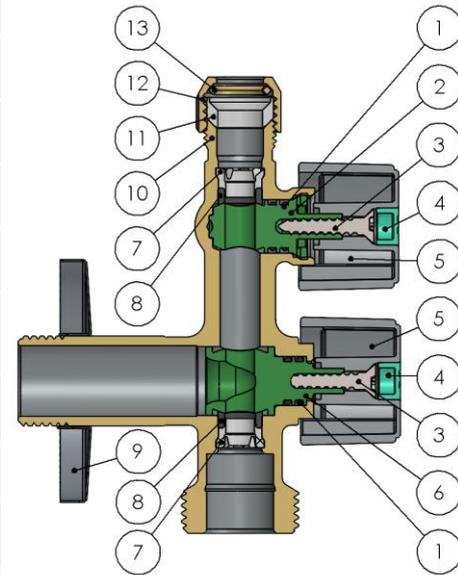
Code	Size	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)
COMB10MAC	1/2X1/2X3/8-10	86	50	67	35	16	0 to 95
COMB1MAC	1/2X3/4X3/8-10	86	50	59	35	16	0 to 95

\* Freezing is excluded.

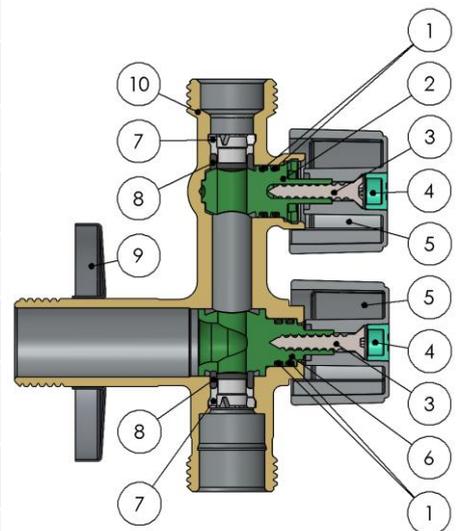



**MATERIALS**
**MODELS COMB10MAC, COMB1MAC**

Item	Component	Material	Finishing
1	O-ring	NBR	-
2	Stem-ball	Anti-lime polymer	VITAQ
3	Screw	Stainless steel	Stainless steel
4	Index	ABS	VITAQ
5	Handle	ZAMAK	Chrome plated
6	Stem-ball	Anti-lime polymer	VITAQ
7	Supporting clip	POM	-
8	Seat	NBR	-
9	Rosette	Stainless steel	Stainless steel
10	Body	Brass CW617N	Chrome plated
11	Sleeve	POM	-
12	Nut	Brass CW614N	Chrome plated
13	Washer	Brass CW614N	Brass color


**MODELS COMB5MAC, COMB5MAC01, COMB5MAC02, COMB15MAC**

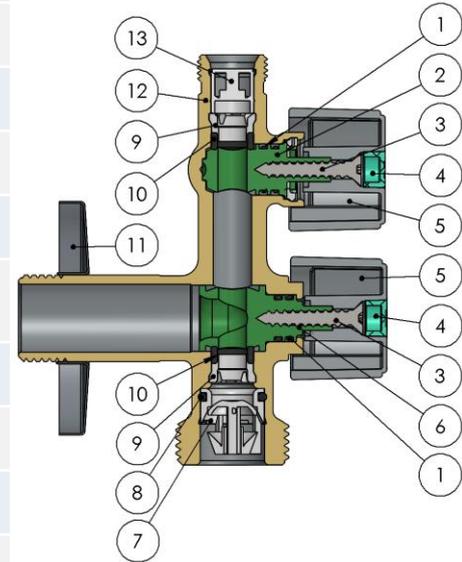
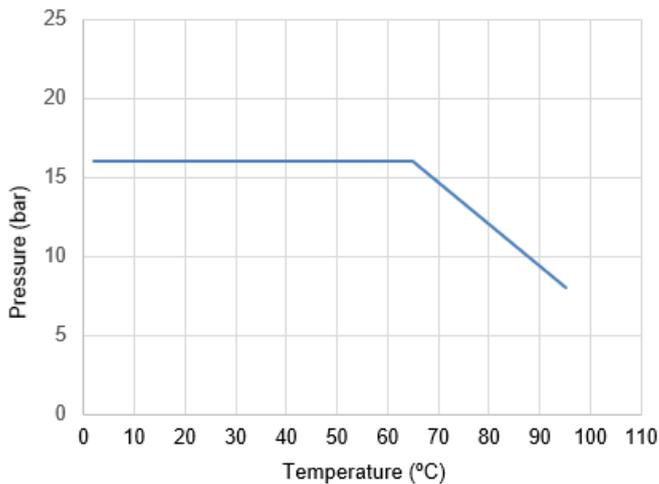
Item	Component	Material	Finishing
1	O-ring	NBR	-
2	Stem-ball	Anti-lime polymer	VITAQ
3	Screw	Stainless steel	Stainless steel
4	Index	ABS	VITAQ
5	Handle	ZAMAK	Chrome plated
6	Stem-ball	Anti-lime polymer	VITAQ
7	Supporting clip	POM	-
8	Seat	NBR	-
9	Rosette	Stainless steel	Stainless steel
10	Body	Brass CW617N	Chrome plated




**MODELS COMB7MAC y COMB9MAC**

Item	Component	Material	Finishing
1	O-ring	NBR	-
2	Stem-ball	Anti-lime polymer	VITAQ
3	Screw	Stainless steel	Stainless steel
4	Index	ABS	VITAQ
5	Handle	ZAMAK	Chrome plated
6	Stem-ball	Anti-lime polymer	VITAQ
7	Check valve 1	POM + Inox.	-
8	O-ring	NBR	-
9	Supporting clip	POM	-
10	Seat	NBR	-
11	Rosette	Stainless steel	Stainless steel
12	Body	Brass CW617N	Chrome plated
13	Check valve 2 *	POM + Inox.	-

\* Only on model COMB9MAC.


**TECHNICAL DATA**
**Pressure vs. temperature**


Temperature range excludes freezing.

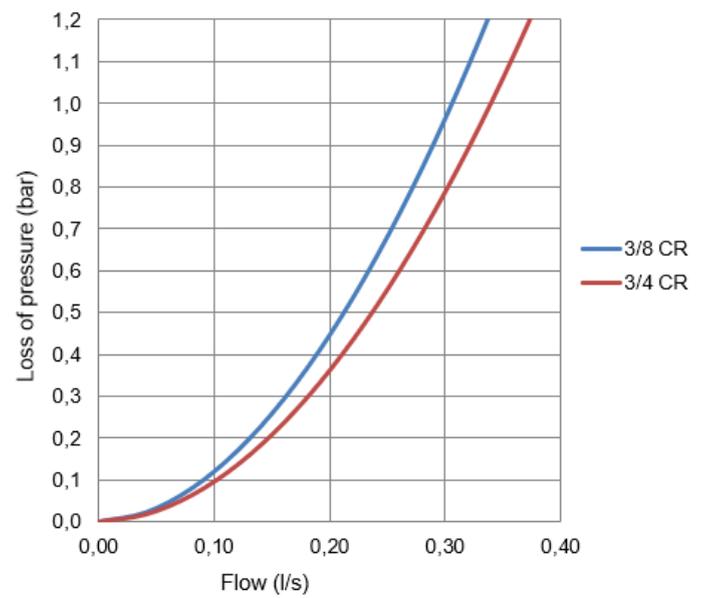
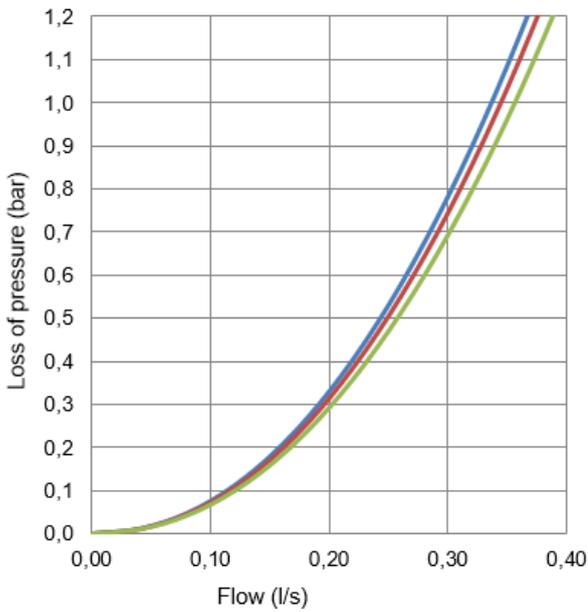
**Compatibility with fluids**

Fluid	Compatibility
Drinking water and domestic hot water	Excellent

For any other fluid, please contact Arco technical service.



**Hydraulic features.**  
**Flow vs. loss of pressure.**



Size	3/8 SR Without check valve	1/2 SR Without check valve	3/4 SR Without check valve
Kv	1,21	1,24	1,28

•Kv (m<sup>3</sup>/h), cubic meters per hour that flow through the valve generating a loss of 1 bar pressure.

Size	3/8 CR With check valve	3/4 CR With check valve
Kv	1,21	1,24

•Kv (m<sup>3</sup>/h), cubic meters per hour that flow through the valve generating a loss of 1 bar pressure.

**INSTALLATION AND OPERATION INSTRUCTIONS**

Before performing any action, the water supply to the installation should be shut off. Make sure there is no dirt or foreign objects in the connection to the network. Apply the appropriate sealing material to the inlet thread of the valve. The valve should be installed with a suitable tool, preferably with a wrench to hold the body. The tool should act on the flat surfaces of the valve body to avoid deforming this area due to excessive pressure from the tool. Restore the water supply and check the tightness of all connections before fixing the valve to service.

Do not alter the assembly of the valve components; replacement or disassembly of the handle may cause external leaks. Quarter-turn valves should always operate in a fully open position.



All products have an environmental impact during its life cycle, even once retired. All the components of this product can be recycled. Once the use is over, leave the valve in any recycling green point. Válvulas Arco reserves the right to change the product or any of its technical specifications without prior notice.

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