



SIL VALVES

Angle and straight ball valves with manual operation for single installations, in battery and service connections, where the connection is made by means of thread, flange or compression for PE pipe.

- European Brass, DW (4MS) quality for use in drinking water installations.
- Nickel-free water passage for greater healthiness.
- VITAQ system, more life, less lime, available according to models.
- 100% valves are tested for inner leakage.
- Double o-ring, ensures external leaktightness.
- Maximum thread length for demanding installations.
- Internal check valves are incorporated into the outlet models for meter.
- Strong construction and safe installations.



TECHNICAL SHEET SIL VALVES

PRODUCT DESCRIPTION

Angle and straight ball valves with manual operation for single installations, in battery and service connections, where the connection is made by means of thread, flange or compression for PE pipe.

The series includes a wide range of angle and straight models.

Designed according to UNE 19804.

PRODUCT SCOPE

Due to their design and materials, they are suitable for use in cold water meter installations, in battery or single installations, service connections and drinking water networks.

And in general, all those applications that require a valve capable of shutting off the supply of a fluid, guaranteeing tightness in accordance with the specified service conditions.

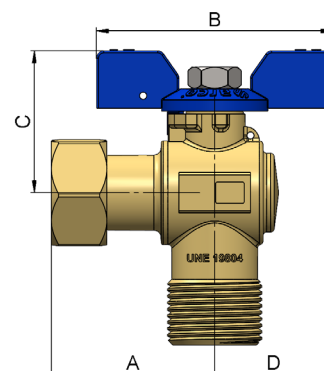
GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

ANGLE MALE - LOOSE NUT BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT31	3/4M X 3/4 LN	15	47	66	40	33	16	0 to 65
BAT41	3/4M X 7/8 LN	15	44	66	40	33	16	0 to 65
BAT56	1M X 1LN	20	53	66	44	33	16	0 to 65

Threading according to ISO228

* Freezing is excluded.



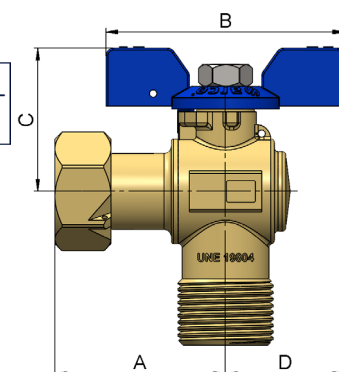
ANGLE CHECK VALVE LOOSE NUT - MALE BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT51	3/4 LN X 3/4M	15	47	66	40	33	16	0 to 65

Water inlet at the connection of LOOSE NUT

Threading according to ISO228

* Freezing is excluded.



ANGLE CHECK VALVE LOOSE NUT - MALE WITH MANOMETER SHOCKET BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT52	3/4 LN X 3/4M	15	47	66	40	33	16	0 to 65
BAT59	1LN X 1M	20	51	66	44	35	16	0 to 65

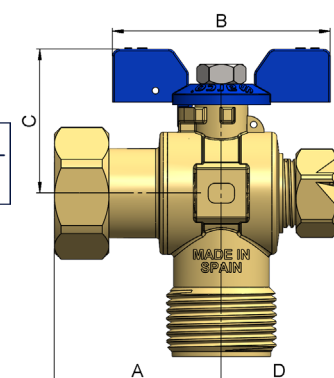
Water inlet at the connection of LOOSE NUT

BAT52 = Manometer socket 3/8

BAT59 = Manometer socket 1/2

Threading according to ISO228

* Freezing is excluded.



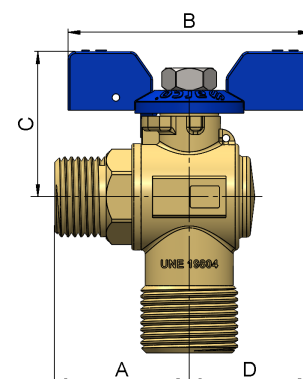
ANGLE MALE - THREAD 21,8 LEFT BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT61ST	3/4M X 21,8 LH	15	37	66	40	33	16	0 to 65

Requires a 21.8 LEFT NUT to connect to a 3/4 or 7/8 meter. Consult catalog

Threading according to ISO228

* Freezing is excluded.



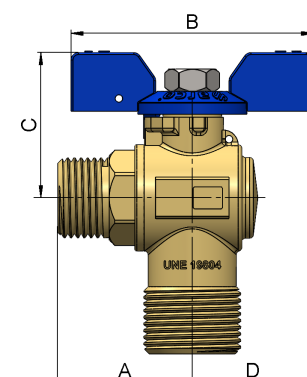
ANGLE CHECK VALVE THREAD 21,8 LEFT - MALE BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT21ST	21,8 LH. M-3/4M	15	37	66	40	33	16	0 to 65

Requires a 21.8 LEFT NUT to connect to a 3/4 or 7/8 meter. Consult catalog

Outlet threading according to ISO228

* Freezing is excluded.





ANGLE CHECK VITAQ VALVE THREAD 3/4 LEFT - MALE WITH MANOMETER SOCKET 1/2 BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT22AST	3/4 LH – 1M	20	41	66	44	35	16	0 to 65

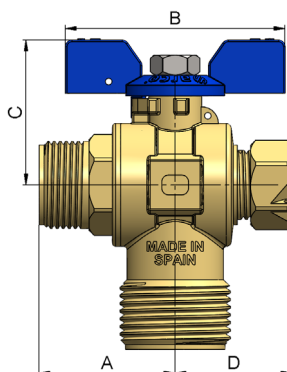
Water inlet at the 3/4 LEFT connection

Requires a 3/4 LEFT NUT. To connect to a 3/4, 7/8 o 1. Consult catalog

Manometer socket 1/2

Outlet threading according to ISO228

* Freezing is excluded.



ANGLE CHECK VITAQ VALVE THREAD 3/4 LEFT - MALE WITH SBA AND MANOMETER SOCKET 1/2 BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAT23AST	3/4 LH – 1M	20	41	66	45	35	16	0 to 65

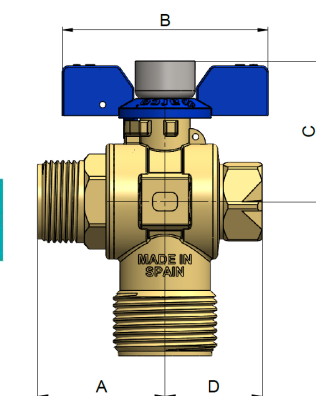
Water inlet at the 3/4 LEFT connection

Requires a 3/4 LEFT NUT. To connect to a 3/4, 7/8 o 1. Consult catalog

Manometer socket 1/2

Outlet threading according to ISO228

* Freezing is excluded.

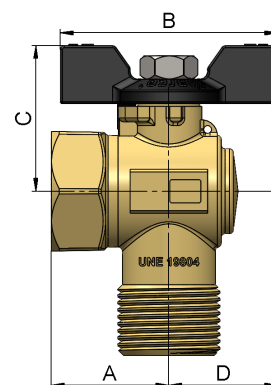


ANGLE MALE - FEMALE BLACK BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	D (mm)	PN (BAR)	Temp. (°C)*
BAMH2SAM	3/4M X 3/4F	16	30	56	38	28	16	0 to 65

Threading according to ISO228

* Freezing is excluded.

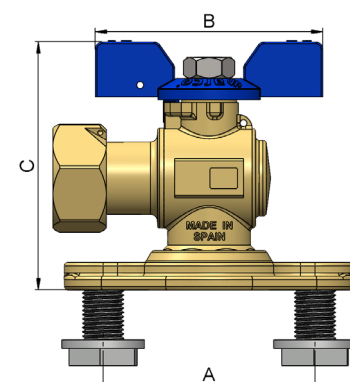


ANGLE FLANGE - LOOSE NUT BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
BAT03	Flange - 3/4LN	16	62	66	72	16	0 to 65
BAT12	Flange - 7/8LN	16	62	66	72	16	0 to 65
BAT16	Flange – 1LN	20	62	66	88	16	0 to 65

Outlet threading according to ISO228

* Freezing is excluded.



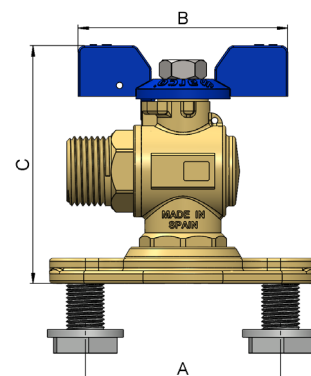


ANGLE FLANGE - THREAD 21,8 LEFT BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
BAT11ST	Flange - 21,8 LH	15	62	66	75	16	0 to 65

Requires a 21,8 LEFT NUT. To connect to a 3/4 or 7/8. Consult catalog.
Inlet threading according to ISO228

* Freezing is excluded.

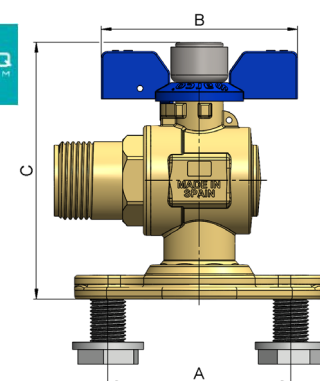


ANGLE VITAQ FLANGE - THREAD 21,8 LEFT WITH SBA BLUE BUTTERFLY

Code	Size	DN	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
BAT18AST	Flange - 3/4 LH	20	62	66	87	16	0 to 65

Requires a 3/4 LEFT NUT. To connect to a 3/4, 7/8 or 1. Consult catalog
Inlet threading according to ISO228

* Freezing is excluded.

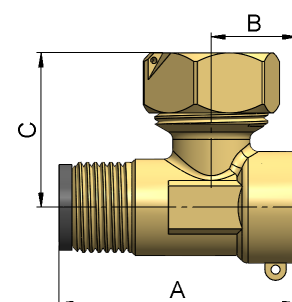


TEE DRAIN

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
03845	21,8 LH. F - 3/4M X 21,8 LH. M	56	20	36	16	0 to 65

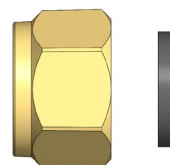
Threading according to ISO228

* Freezing is excluded.



NUT LEFT HAND - FEMALE

Code	Size	A (mm)	B (mm)
04550	21,8 LH. F - 3/4F	-	-
04555	21,8 LH. F - 7/8F	-	-
04551	3/4 LH. F - 3/4F		
04552	3/4 LH. F - 7/8F		
04554	3/4 LH. F - 1F		

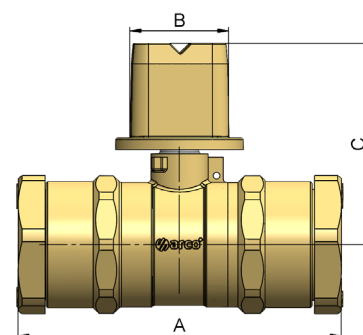




STRAIGHT COMPRESSION - COMPRESSION PE SQUARE HANDLE (30X30)

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
M1280RA	25 X 25	96	29	60	16	0 to 65
M1285RA	32 X 32	95	29	70	16	0 to 65

* Freezing is excluded.

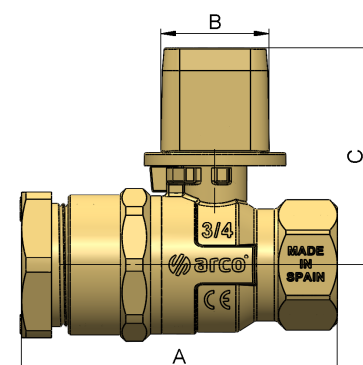


STRAIGHT FEMALE - COMPRESSION PE SQUARE HANDLE (30X30)

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
M1280	3/4F - 25	85	29	58	16	0 to 65
M1285	1F - 32	91	29	73	16	0 to 65

Female thread according to ISO228

* Freezing is excluded.

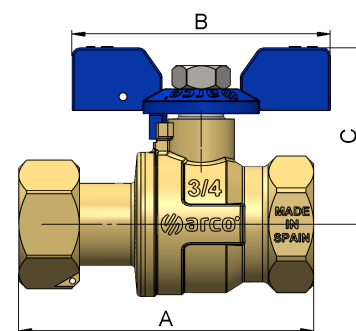


STRAIGHT FEMALE - LOOSE NUT BLUE BUTTERFLY

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
01255	3/4F - 3/4LN	74	66	45	16	0 to 65
01267	3/4F - 7/8LN	77	66	45	16	0 to 65

Threading according to ISO228

* Freezing is excluded.



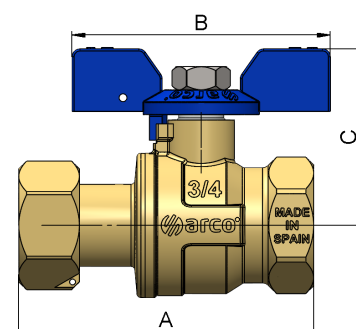
STRAIGHT CHECK VALVE LOOSE NUT - FEMALE BLUE BUTTERFLY

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
01255R	3/4LN - 3/4F	74	66	45	16	0 to 65

Water inlet at the connection of LOOSE NUT

Threading according to ISO228

* Freezing is excluded.

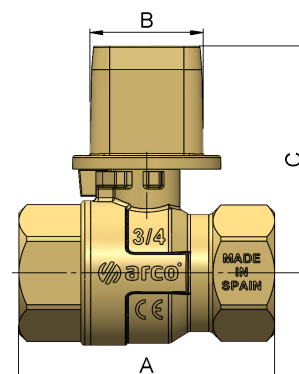


STRAIGHT FEMALE - FEMALE SQUARE HANDLE (30X30)

Code	Size	A (mm)	B (mm)	C (mm)	PN (BAR)	Temp. (°C)*
C1233AC	1/2 F-F	60	29	54	16	-20 to 60
C1234AC	3/4 F-F	66	29	58	16	-20 to 60
C1235AC	1 F-F	80	29	73	16	-20 to 60
C1236AC	1 1/4 F-F	89	29	76	16	-20 to 60
C1237AC	1 1/2 F-F	93	29	85	16	-20 to 60
C1238AC	2 F-F	107	29	92	16	-20 to 60

Threading according to ISO228

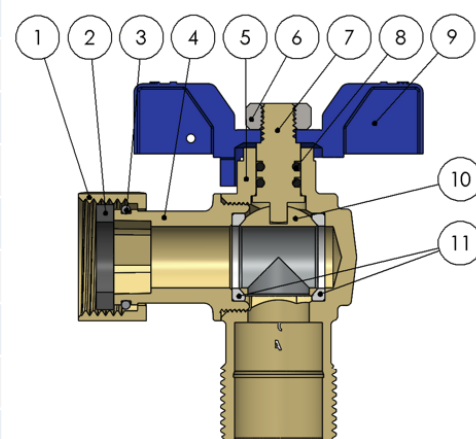
* Freezing is excluded.



MATERIALS

Models BAT31, BAT41, BAT56 y BAT51

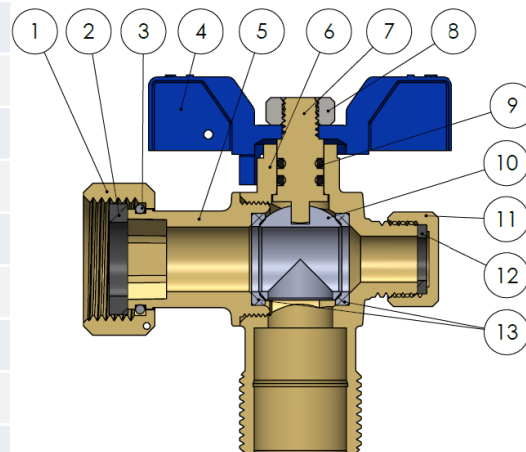
Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	EPDM	-
3	Washer	Stainless steel	Stainless steel
4	Lateral	Brass CW617N	Brass color
5	Body	Brass CW617N	Brass color
6	Nut	Steel	Geomet® 500
7	Stem	Brass CW614N	Brass color
8	Joint	NBR	-
9	Handle	ZAMAK	Blue EPOXY
10	Ball	Brass CW617N	Chrome plated
11	Seat	PTFE	-





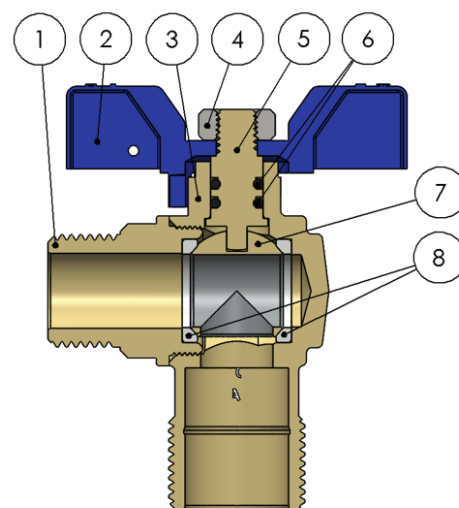
Models BAT52 y BAT59

Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	EPDM	-
3	Washer	Stainless steel	Stainless steel
4	Handle	ZAMAK	Blue EPOXY
5	Lateral	Brass CW617N	Brass color
6	Body	Brass CW617N	Brass color
7	Stem	Brass CW614N	Brass color
8	Nut	Steel	Geomet® 500
9	Joint	NBR	-
10	Ball	Brass CW617N	Chrome plated
11	Cap	Brass CW617N	Brass color
12	Joint	EPDM	-
13	Seat	PTFE	-



Models BAT61ST y BAT221ST

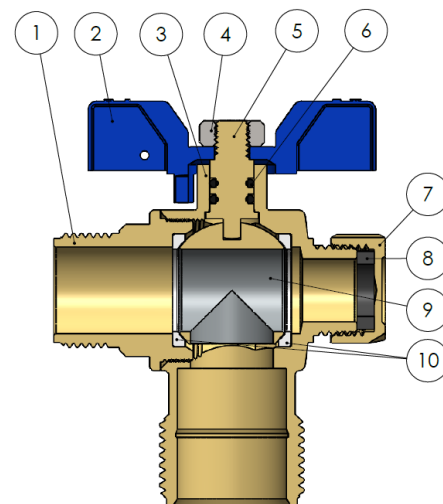
Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Blue EPOXY
3	Body	Brass CW617N	Brass color
4	Nut	Steel	Geomet® 500
5	Stem	Brass CW614N	Brass color
6	Joint	NBR	-
7	Ball	Brass CW617N	Chrome plated
8	Seat	PTFE	-





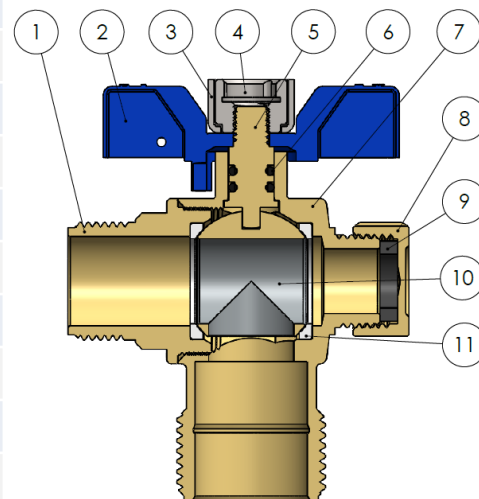
Models BAT22AST

Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Blue EPOXY
3	Body	Brass CW617N	Brass color
4	Nut	Steel	Geomet® 500
5	Stem	Brass CW614N	Brass color
6	Joint	NBR	-
7	Nut	Brass CW617N	Brass color
8	Joint	EPDM	-
9	Ball	Brass CW617N	Chrome plated
10	Seat	PTFE	-



Models BAT23AST

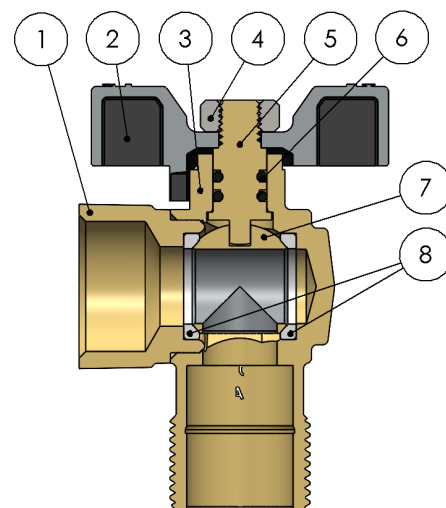
Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Blue EPOXY
3	Safety cap	Steel	Geomet® 500
4	Safety screw	Steel	Geomet® 500
5	Stem	Brass CW614N	Brass color
6	Joint	NBR	-
7	Body	Brass CW617N	Brass color
8	Nut	Brass CW617N	Brass color
9	Joint	EPDM	-
10	Ball	Brass CW617N	Chrome plated
11	Seat	PTFE	-





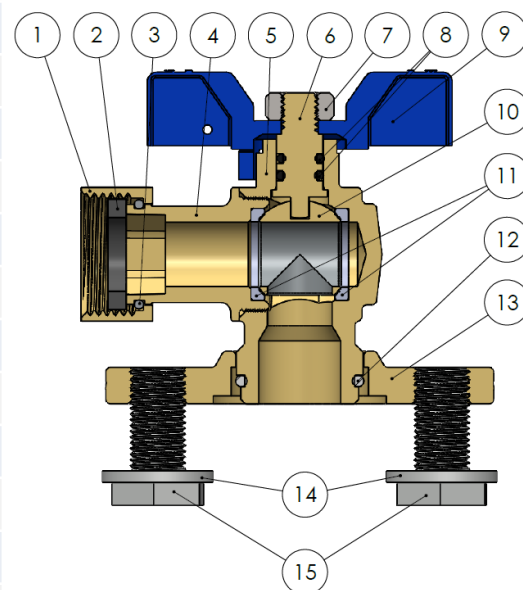
Models BAMH2SAM

Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Negro EPOXY
3	Body	Brass CW617N	Brass color
4	Nut	Steel	Geomet® 500
5	Stem	Brass CW614N	Brass color
6	Joint	NBR	-
7	Ball	Brass CW617N	Chrome plated
8	Seat	PTFE	-



Models BAT03, BAT12 y BAT16

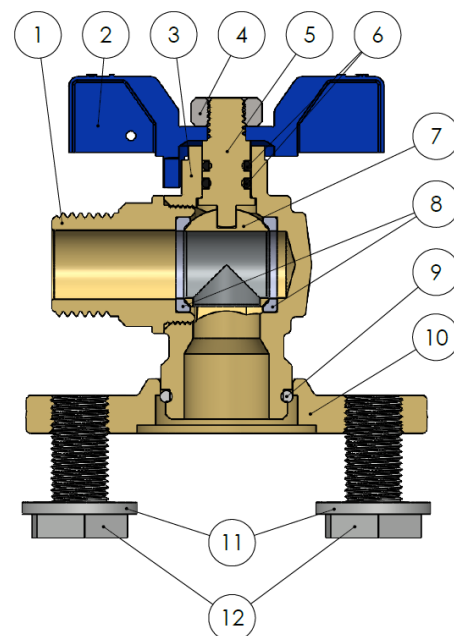
Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	EPDM	-
3	Washer	Stainless steel	Stainless steel
4	Lateral	Brass CW617N	Brass color
5	Body	Brass CW617N	Brass color
6	Stem	Brass CW614N	Brass color
7	Nut	Steel	Geomet® 500
8	Joint	NBR	-
9	Handle	ZAMAK	Blue EPOXY
10	Ball	Brass CW617N	Chrome plated
11	Seat	PTFE	-
12	Washer	Stainless steel	Stainless steel
13	Flange	Brass CW617N	Brass color
14	Washer	Steel	Zinc plated
15	Screw	Steel	Zinc plated





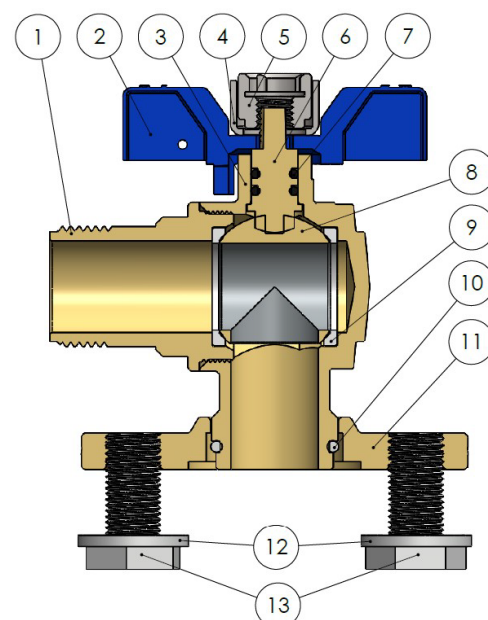
Model BAT11ST

Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Blue EPOXY
3	Body	Brass CW617N	Brass color
4	Nut	Steel	Geomet® 500
5	Stem	Brass CW614N	Brass color
6	Joint	NBR	-
7	Ball	Brass CW617N	Chrome plated
8	Seat	PTFE	-
9	Washer	Stainless steel	Stainless steel
10	Flange	Brass CW617N	Brass color
11	Washer	Steel	Zinc plated
12	Screw	Steel	Zinc plated



Models BAT18AST

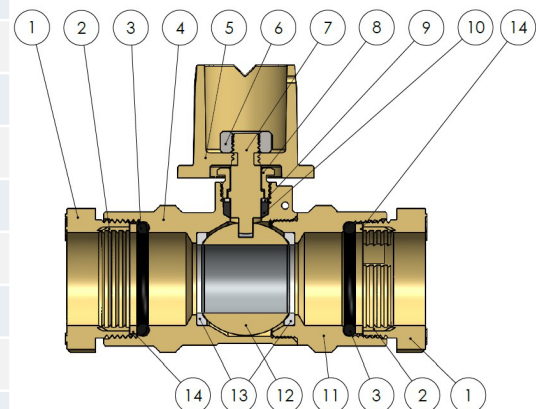
Item	Component	Material	Finishing
1	Lateral	Brass CW617N	Brass color
2	Handle	ZAMAK	Blue EPOXY
3	Body	Brass CW617N	Brass color
4	Safety cap	Steel	Geomet® 500
5	Safety screw	Steel	Geomet® 500
6	Stem	Brass CW614N	Brass color
7	Joint	NBR	-
8	Ball	Brass CW617N	Chrome plated
9	Seat	PTFE	-
10	Washer	Stainless steel	Stainless steel
11	Flange	Brass CW617N	Brass color
12	Washer	Steel	Zinc plated
13	Screw	Steel	Zinc plated





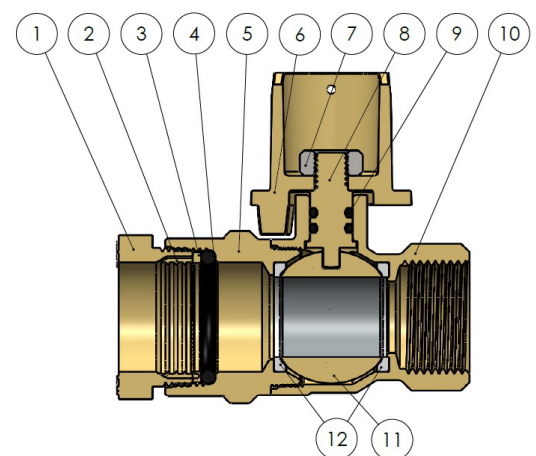
Models M1280RA y M1285RA

Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Sleeve	Brass CW617N	Brass color
3	Joint	NBR	-
4	Body	Brass CW617N	Brass color
5	Square	Brass CW617N	Brass color
6	Nut	Steel	Geomet® 500
7	Stem	Brass CW614N	Brass color
8	Gland nut	Brass CW617N	Brass color
9	Washer	Brass CW614N	Brass color
10	Gland	PTFE	-
11	Lateral	Brass CW617N	Brass color
12	Ball	Brass CW617N	Chrome plated
13	Seat	PTFE	-
14	Washer	Brass CW614N	Brass color



Models M1280 y M1285

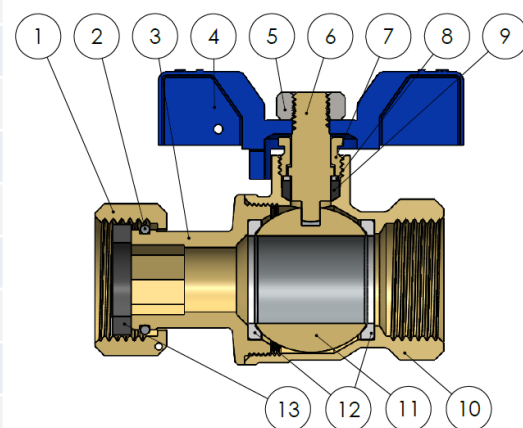
Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Sleeve	Brass CW617N	Brass color
3	Washer	Brass CW617N	Brass color
4	Joint	NBR	-
5	Lateral	Brass CW617N	Brass color
6	Square	Brass CW617N	Brass color
7	Nut	Steel	Geomet® 500
8	Stem	Brass CW614N	Brass color
9	Joint	NBR	-
10	Body	Brass CW617N	Brass color
11	Ball	Brass CW617N	Chrome plated
12	Seat	PTFE	-





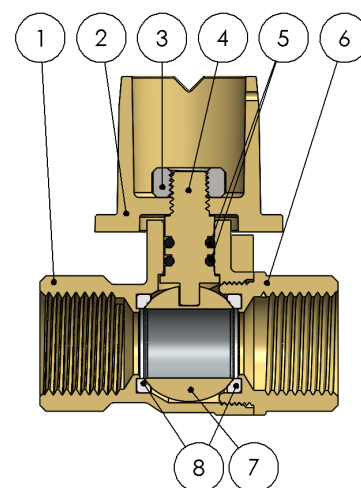
Models 01255, 01267 y 01255R

Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Washer	Stainless steel	Stainless steel
3	Lateral	Brass CW617N	Brass color
4	Handle	ZAMAK	Blue EPOXY
5	Nut	Steel	Geomet® 500
6	Stem	Brass CW614N	Brass color
7	Gland nut	Brass CW614N	Brass color
8	Washer	Brass CW614N	Brass color
9	Gland	PTFE	-
10	Body	Brass CW617N	Brass color
11	Ball	Brass CW617N	Chrome plated
12	Seat	PTFE	-
13	Joint	EPDM	-



Models Female – Female square handle (30x30)

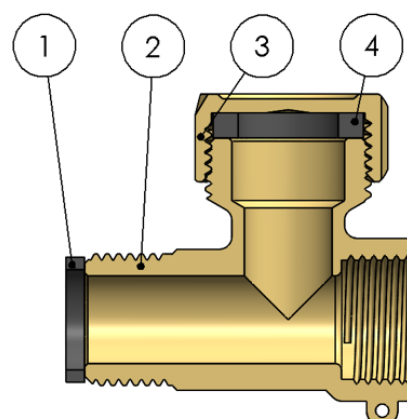
Item	Component	Material	Finishing
1	Body	Brass CW617N	Brass color
2	Square	Brass CW617N	Brass color
3	Nut	Steel	Geomet® 500
4	Stem	Brass CW614N	Brass color
5	Joint	NBR	-
6	Lateral	Brass CW617N	Brass color
7	Ball	Brass CW617N	Chrome plated
8	Seat	PTFE	-





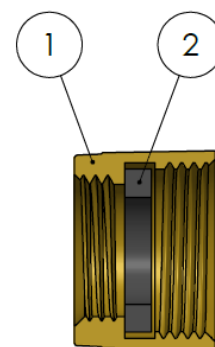
Model Tee drain

Item	Component	Material	Finishing
1	Flat joint	NBR	---
2	Body	Brass CW617N	Brass color
3	Cap	Brass CW617N	Brass color
4	Flat joint	NBR	---



Models Nut with thread left / right

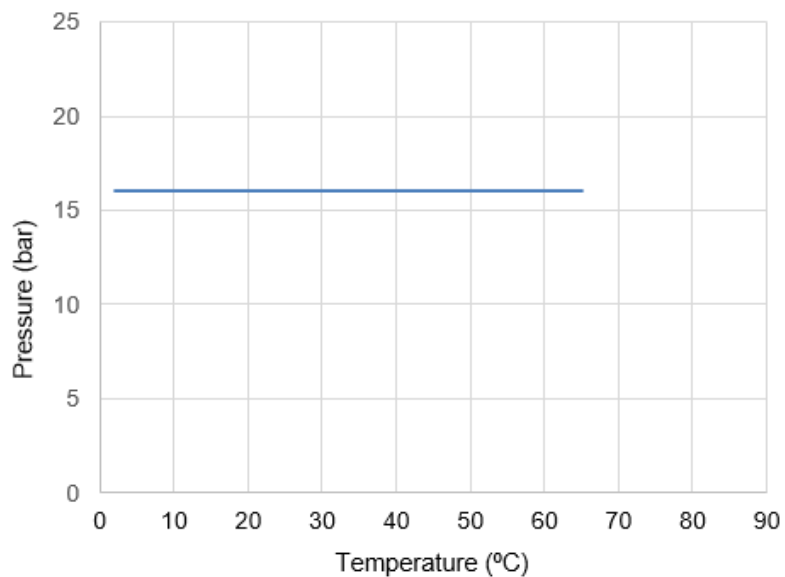
Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Flat joint	NBR	---





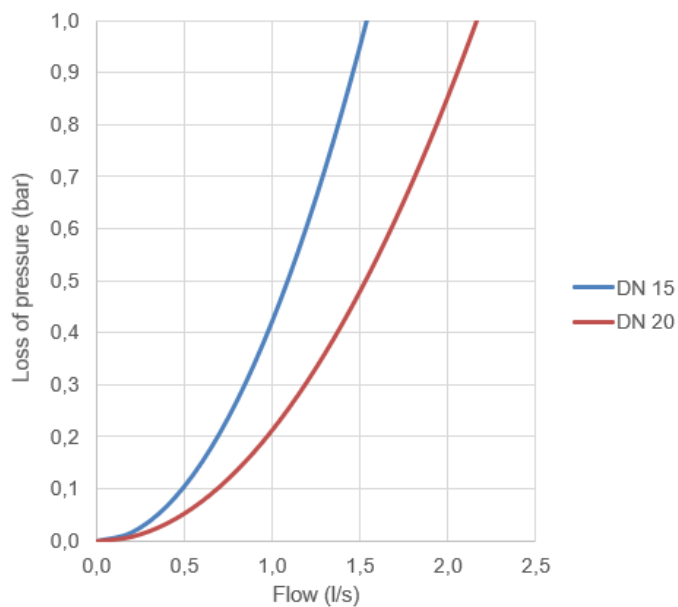
TECHNICAL DATA

Pressure vs. temperature.



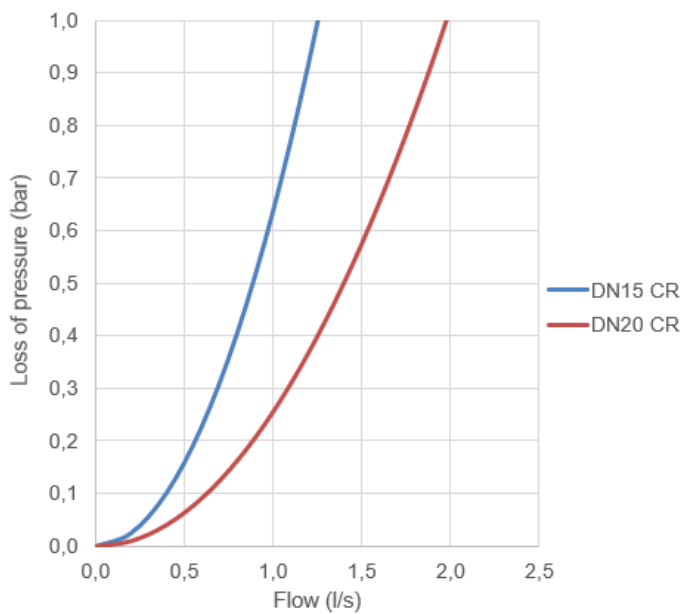
Hydraulic features. Flow vs. loss of pressure.

SIL Models SIL Angle without check valve



Size	DN15	DN20
Kv	5,5	7,8

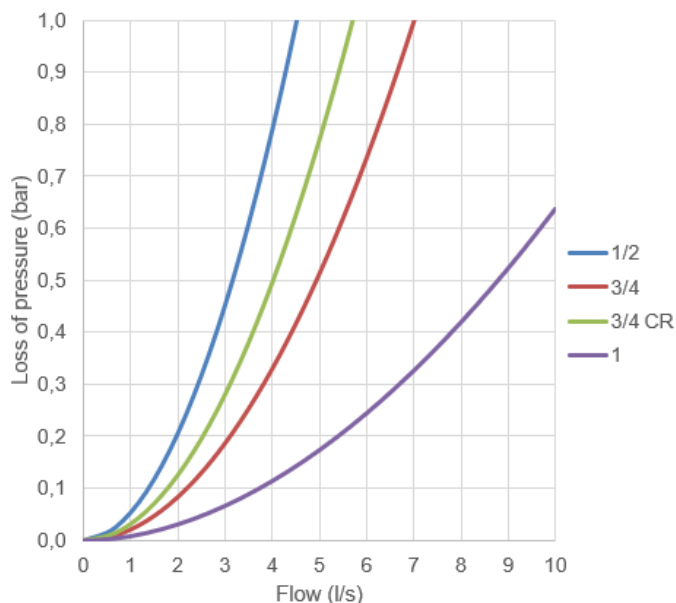
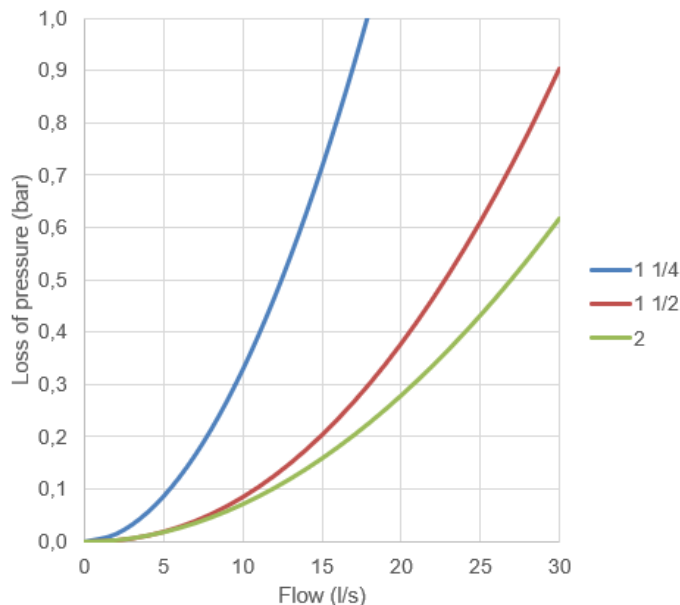
SIL Models Angle with check valve



Size	DN15 With check valve	DN20 Without check valve
Kv	4,6	7,0



SIL Straight Models



Size	1/2	3/4 PE 25	3/4 CR With check valve	1 PE 32	1 1/4	1 1/2	2
Kv	16,3	25,3	20,6	45,8	64,3	113,3	138,2

Compatibility with fluids

Fluid	Compatibility
Drinking water	Excellent

For any other fluid, please contact Arco technical service.

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. Ball 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.

FT09000ING – Edition 2024-12