SIL MLA VALVES

Ball valves with manual operation where the connection is made by means of thread or compression for PE pipe.

- European Brass, DW (4MS) quality for use in drinking water installations.
- Nickel-free water passage for greater healthiness.
- 100% valves are tested for inner leakage.
- Handle made entirely of brass.
- Strong construction and safe installations.
- Models with straight and angle configuration.

Ni FREE | 4MS CW617N | PN 16 BAR | 0°C/65°C

TECHNICAL SHEET SIL MLA VALVES

PRODUCT DESCRIPTION

Angle and straight ball valves with manual operation for meter and service connection installations. This series has various models to connect to the network by means of male thread, female thread and compression connection to polyethylene (PE) pipe.

PRODUCT SCOPE

Specially designed for water networks, drinking water connections and meter installations.

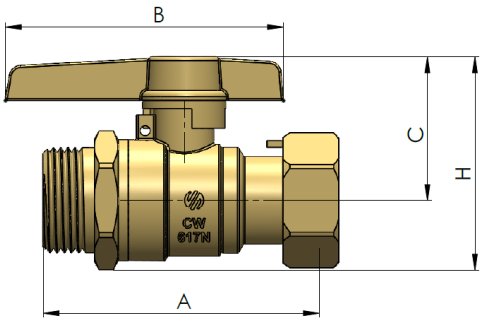
And in general, all those applications that require a valve capable of shutting off the supply of a fluid, guaranteeing tightness in accordance with the specified service conditions.

GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

STRAIGHT MALE – LOOSE NUT

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC) *
146010	1/2 M – 3/4 LN	68	70	36	54	16	0 to 65
146020	3/4 M – 3/4 LN	70	70	36	54	16	0 to 65

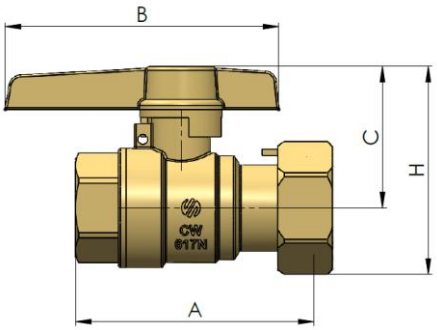
* Freezing is excluded.



STRAIGHT FEMALE – LOOSE NUT

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC) *
146030	1/2 F – 3/4 LN	61	70	36	54	16	0 to 65
146040	3/4 F – 3/4 LN	63	70	36	54	16	0 to 65

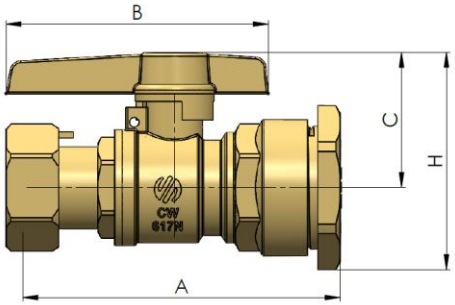
* Freezing is excluded.



STRAIGHT PE COMPRESSION – LOOSE NUT

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC)*
146110	PE25 – 3/4 LN	85	70	36	58	16	0 to 65

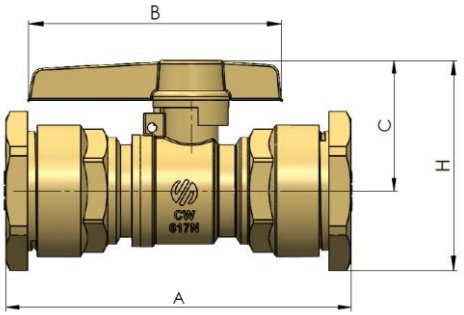
* Freezing is excluded.



STRAIGHT PE COMPRESSION – PE COMPRESSION

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC)*
146120	PE25 - PE25	95	70	36	58	16	0 to 65

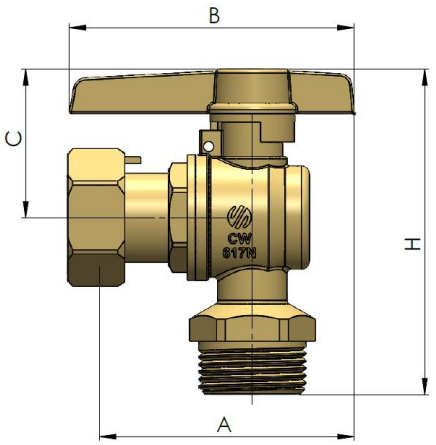
* Freezing is excluded.



ANGLE MALE – LOOSE NUT

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC)*
146210	1/2 M – 3/4 LN	66	70	36	78	16	0 to 65
146220	3/4 M – 3/4 LN	66	70	36	71	16	0 to 65

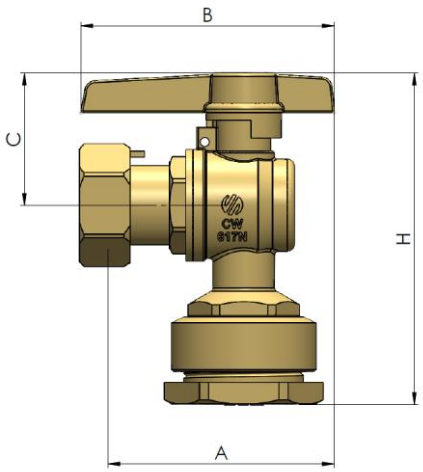
* Freezing is excluded.



ANGLE PE COMPRESSION – LOOSE NUT

Code	Size	A (mm)	B (mm)	C (mm)	H (mm)	PN (bar)	Temp. (ºC)*
146230	PE 25 – 3/4 LN	66	70	90	54	16	0 to 65
146240	PE 32 – 3/4 LN	66	70	97	54	16	0 to 65

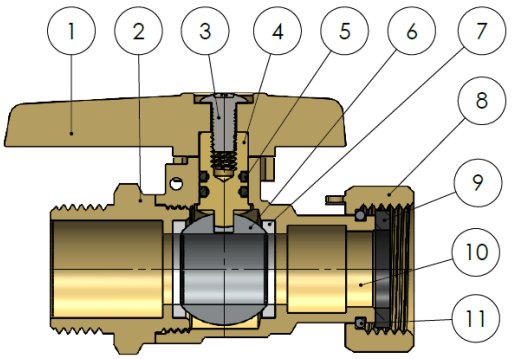
* Freezing is excluded.



MATERIALS

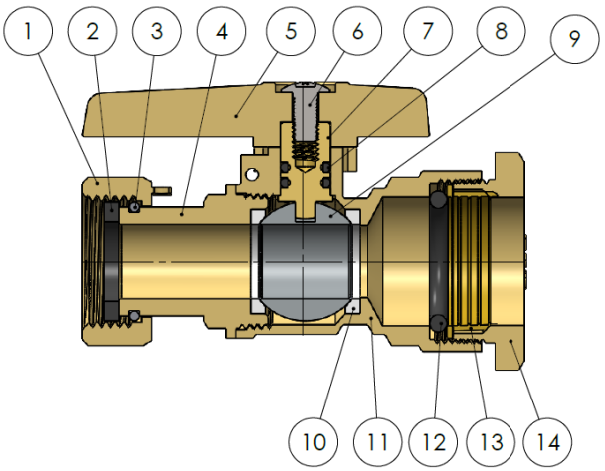
STRIGHT THREAD MODELS – LOOSE NUT

Item	Component	Material	Finishing
1	Handle	Brass CW617N	Brass color
2	Lateral	Brass CW617N	Brass color
3	Screw	Stainless steel	Stainless steel
4	Stem	Brass CW617N	Brass color
5	O-ring	NBR	-
6	Ball	Brass CW617N	Chrome plated
7	Seat	PTFE	-
8	Nut	Brass CW617N	Brass color
9	Joint	NBR	-
10	Body	Brass CW617N	Brass color
11	Washer	Stainless steel	Stainless steel



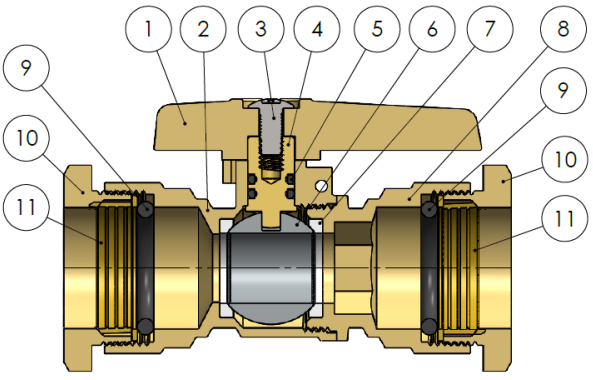
STRAIGHT PE COMPRESSION MODEL – LOOSE NUT

Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	NBR	-
3	Washer	Stainless steel	Stainless steel
4	Lateral	Brass CW617N	Brass color
5	Handle	Brass CW617N	Brass color
6	Screw	Stainless steel	Stainless steel
7	Stem	Brass CW617N	Brass color
8	O-ring	NBR	-
9	Ball	Brass CW617N	Chrome plated
10	Seat	PTFE	-
11	Body	Brass CW617N	Brass color
12	Joint	NBR	-
13	Sleeve	Brass CW617N	Brass color
14	Nut	Brass CW617N	Brass color



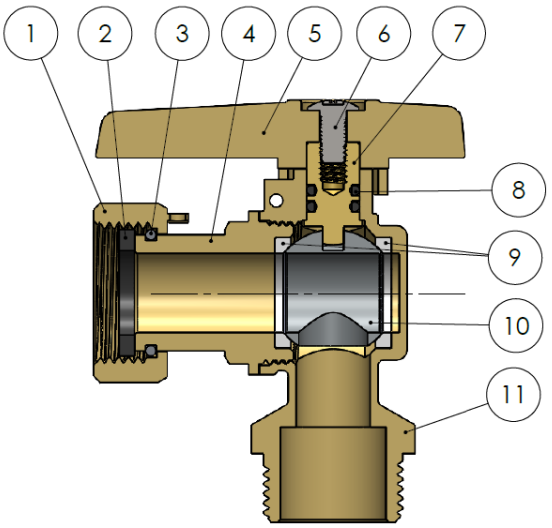
STRAIGHT PE COMPRESSION MODEL – PE COMPRESSION

Item	Component	Material	Finishing
1	Handle	Brass CW617N	Brass color
2	Body	Brass CW617N	Brass color
3	Screw	Stainless steel	Stainless steel
4	Stem	Brass CW617N	Brass color
5	O-ring	NBR	-
6	Ball	Brass CW617N	Chrome plated
7	Seat	PTFE	-
8	Lateral	Brass CW617N	Brass color
9	Joint	NBR	-
10	Nut	Brass CW617N	Brass color
11	Sleeve	Brass CW617N	Brass color



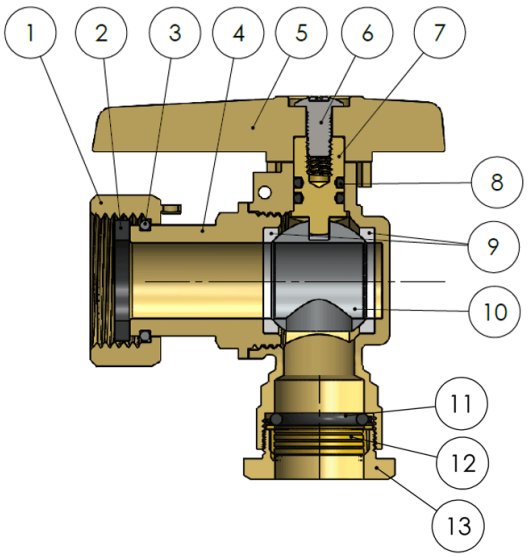
ANGLE THREAD MODEL – LOOSE NUT

Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	NBR	-
3	Washer	Stainless steel	Stainless steel
4	Lateral	Brass CW617N	Brass color
5	Handle	Brass CW617N	Brass color
6	Screw	Stainless steel	Stainless steel
7	Stem	Brass CW617N	Brass color
8	O-ring	NBR	-
9	Seat	PTFE	-
10	Ball	Brass CW617N	Chrome plated
11	Body	Brass CW617N	Brass color



ANGLE PE COMPRESSION MODEL – LOOSE NUT

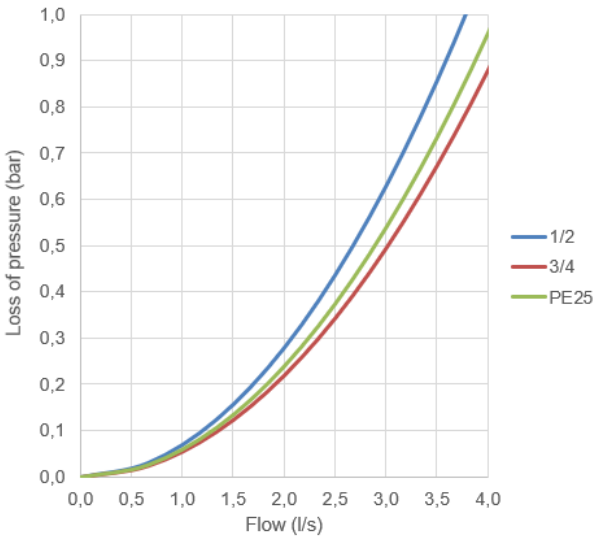
Item	Component	Material	Finishing
1	Nut	Brass CW617N	Brass color
2	Joint	NBR	-
3	Washer	Stainless steel	Stainless steel
4	Lateral	Brass CW617N	Brass color
5	Handle	Brass CW617N	Brass color
6	Screw	Stainless steel	Stainless steel
7	Stem	Brass CW617N	Brass color
8	O-ring	NBR	-
9	Seat	PTFE	-
10	Ball	Brass CW617N	Chrome plated
11	Joint	NBR	-
12	Sleeve	Brass CW617N	Brass color
13	Nut	Brass CW617N	Brass color



TECHNICAL DATA

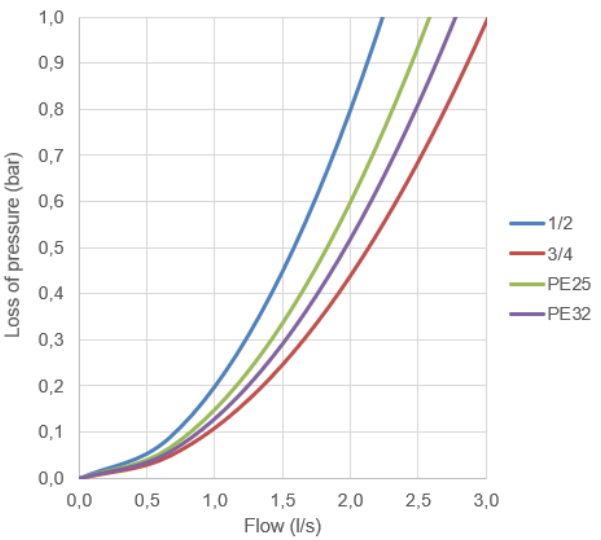
Hydraulic features. Flow vs. loss of pressure.

Straight models



Size	1/2	3/4	PE25
Kv	13,6	15,4	14,7

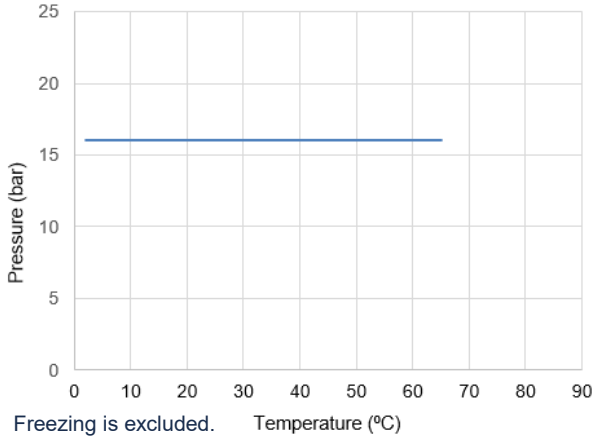
Angle models



Size	1/2	3/4	PE25	PE32
Kv	8,0	10,9	9,3	10,0

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

Pressure vs temperature.



Compatibility with fluids

Fluid	Compatibility
Drinking water and domestic hot 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. 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.

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