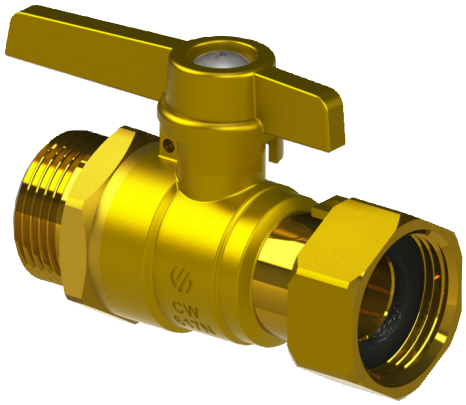
arco®
QUALITY BY TRADITION

sil mla water meter valves



TECHNICAL SHEET 06/2016 | IP09020

SCOPE

SIL MLA series are metallic ball valves manually operated that, due to their design are intended to be used in:

- Drinking water supplies.
- Home feed applications.

In general, all those applications that require a valve capable of shutting off the liquid flow, assuring leak tightness and fulfill all the following service conditions.

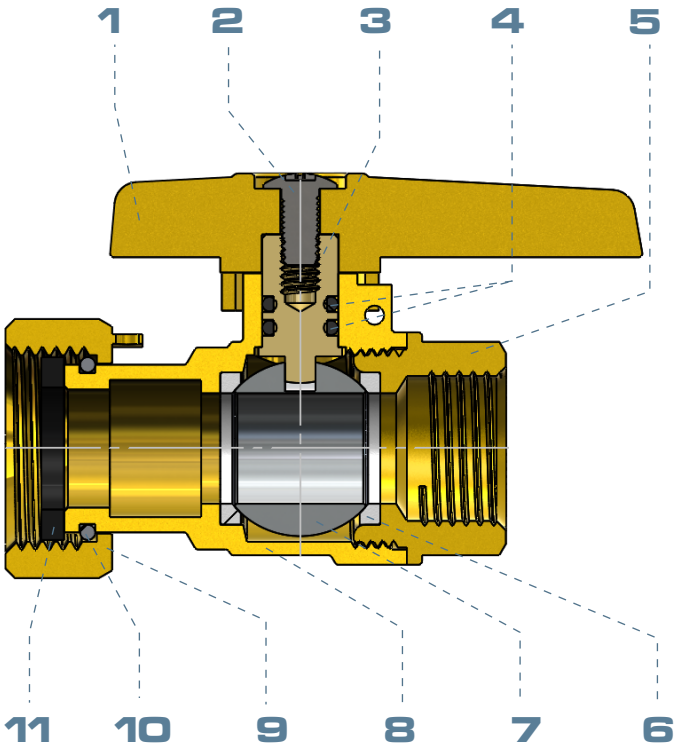
SIL MLA are quarter turn valves.

SERVICE CONDITIONS

Nominal pressure:	16 bar
Test pressure:	25 bar
Temperature range:	Cold water
Fluid:	Drinking water

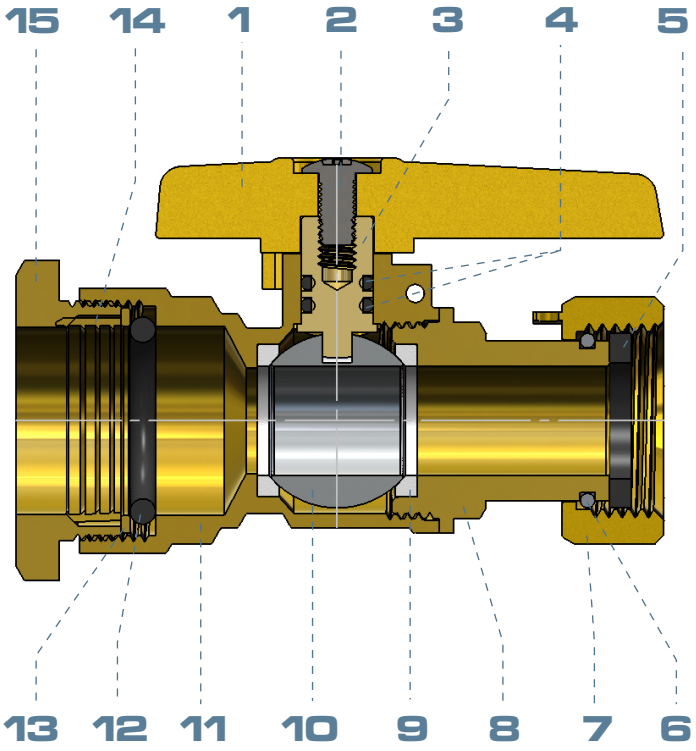
COMPONENTS

Item	Component	Material	Treatment
1	Handle	Brass CW617N	
2	Screw	Brass	
3	Stem	Brass CW617N	
4	O-Ring	NBR	
5	Lateral	Brass CW617N	
6	Seats	PTFE	
7	Sphere	Brass	Chrome plated
8	Body	Brass CW617N	
9	Nut	Brass CW617N	
10	Washer	Stainless steel AISI 304	
11	Flat joint	NBR	



COMPONENTS

Item	Component	Material	Treatment
1	Handle	Brass CW617N	
2	Screw	Brass	
3	Stem	Brass CW617N	
4	O-ring	NBR	
5	Flat joint	NBR	
6	Washer	Stainless steel AISI 304	
7	Nut	Brass CW617N	
8	Lateral	Brass CW617N	
9	Seat	PTFE	
10	Ball	Brass	Chrome plated
11	Body	Brass CW617N	
12	O-rings	NBR	
13	Washer PE	Brass	
14	Bicone PE25	Brass	
15	Nut PE25	Brass CW617N	



Item	Component	Material	Treatment
1	Handle	Brass CW617N	
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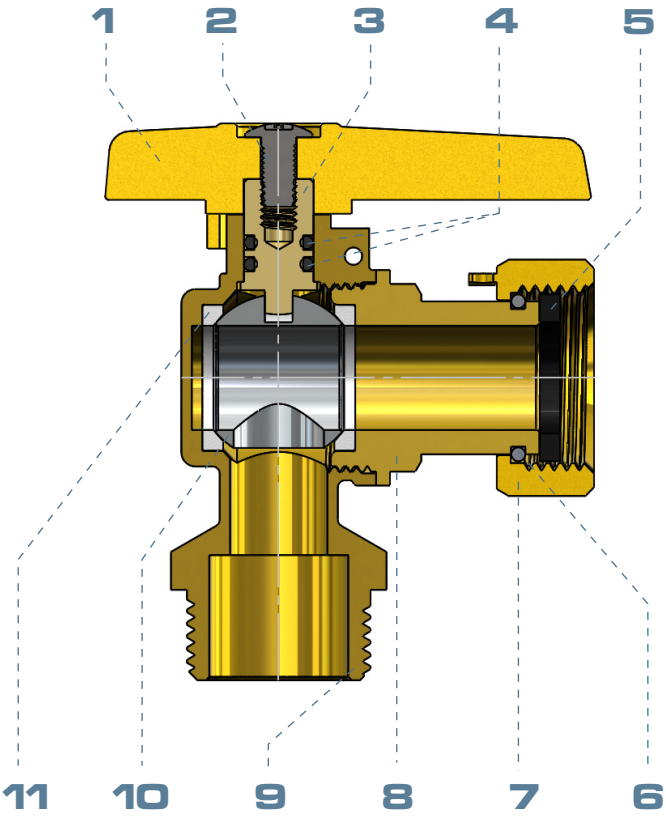
5	Flat joint	NBR	
6	Washer	Stainless steel AISI 304	
7	Nut	Brass CW617N	
8	Lateral	Brass CW617N	
9	Body	Brass CW617N	
10	Ball	Brass	Chrome plated
11	Seat	PTFE	

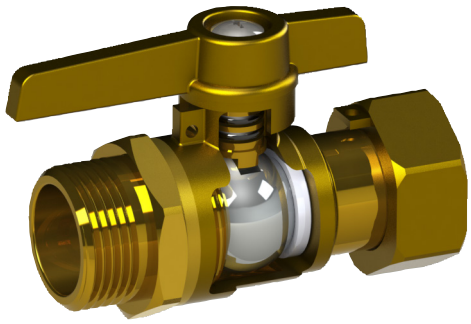


MAIN CONSTRUCTIVE **FEATURES**

BODY AND LATERAL

Main body and lateral made in European brass CW617 by means of hot stamping process. Both process and the material confer the following advantages versus casting valves.

- Pores and bumpy texture absence.
- Surfaces with better finished.
- Higher mechanical endurance against high pressures.



SEATS

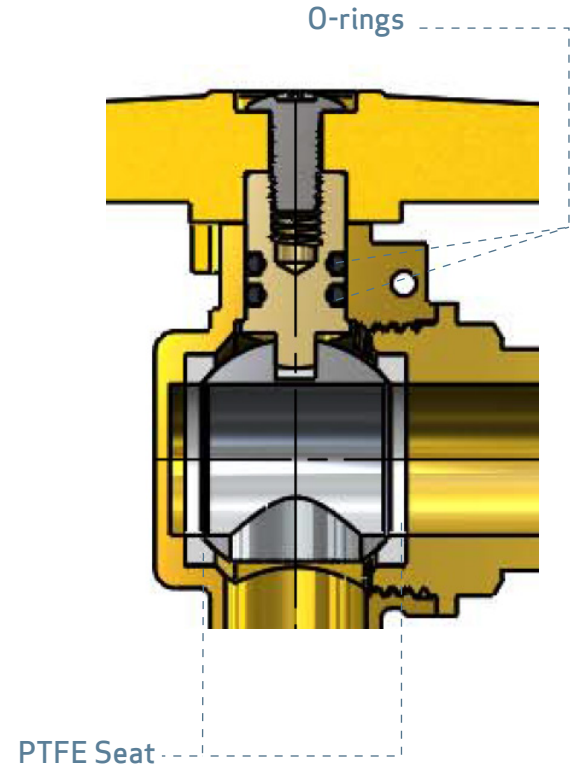
Made in PTFE, assuring internal and external leak tightness due to its perfect fit on metallic surfaces.

INTERNAL leak tightness

Internal leak tightness is assured in both directions by the PTFE seats that press against the spherical closure. This system can not be dismantled, avoiding improper manipulations.

EXTERNAL leak tightness

External leak tightness is achieved by the mean of a pair of NBR O-rings. These avoid every leak and moreover are allowed to be in contact with drinking water.

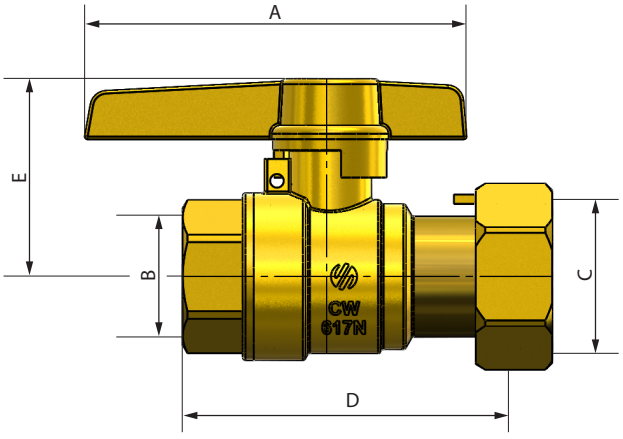


DIMENSIONS

SIL Straight F-LN

Size	A	B	C	D	E
1/2F x 3/4LN	70	G1/2	G3/4	60	37
3/4F x 3/4LN	70	G3/4	G3/4	63	37

G Thread ISO 228

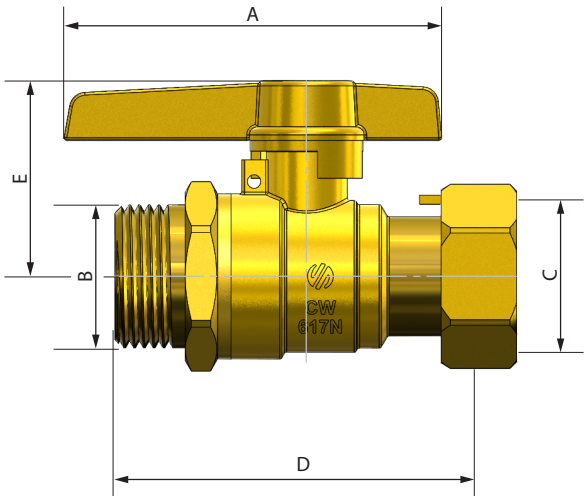


DIMENSIONS

SIL Straight M-LN

Size	A	B	C	D	E
1/2M x 3/4 LN	70	G1/2	G3/4	60	36
3/4M x 3/4 LN	70	G3/4	G3/4	68	36

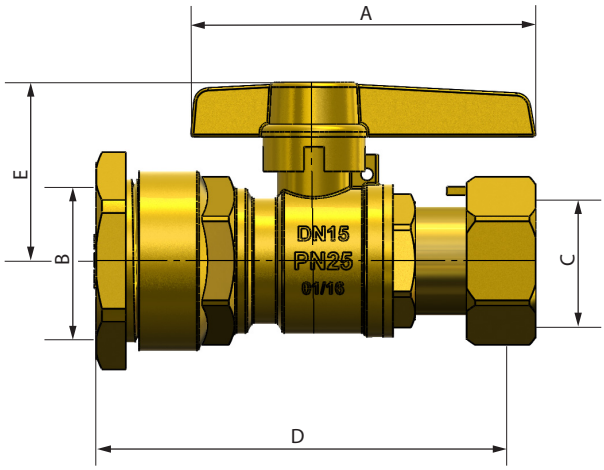
G Thread ISO 228



SIL Straight PE-LN

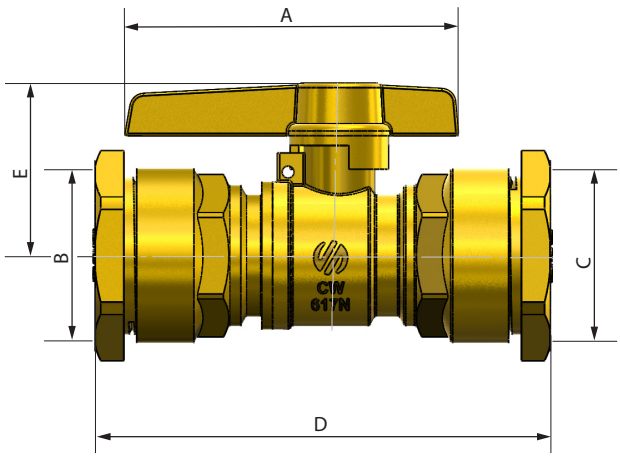
Size	A	B	C	D	E
PE25x1/2LN	70	25	G1/2	74	38
PE25x3/4LN	70	25	G3/4	74	38
PE32x3/4LN	70	32	G3/4	74	43

G Thread ISO 228



SIL Straight PE25-PE25

Size	A	B	C	D	E
PE25x PE25	70	25	25	74	37

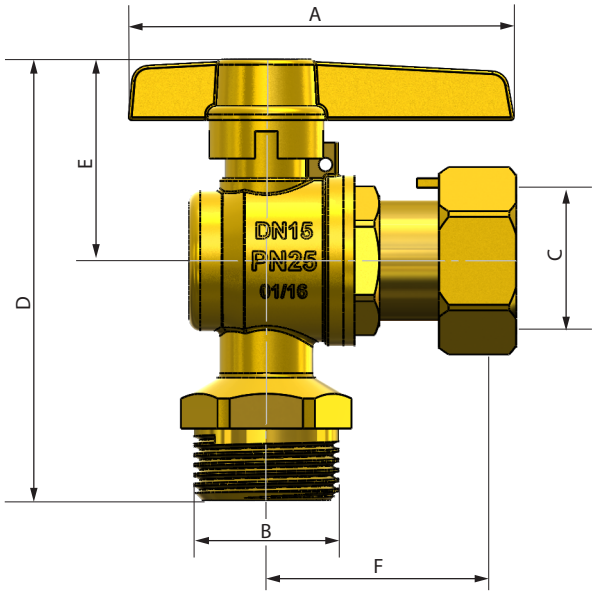


DIMENSIONS

SIL Angle M-LN

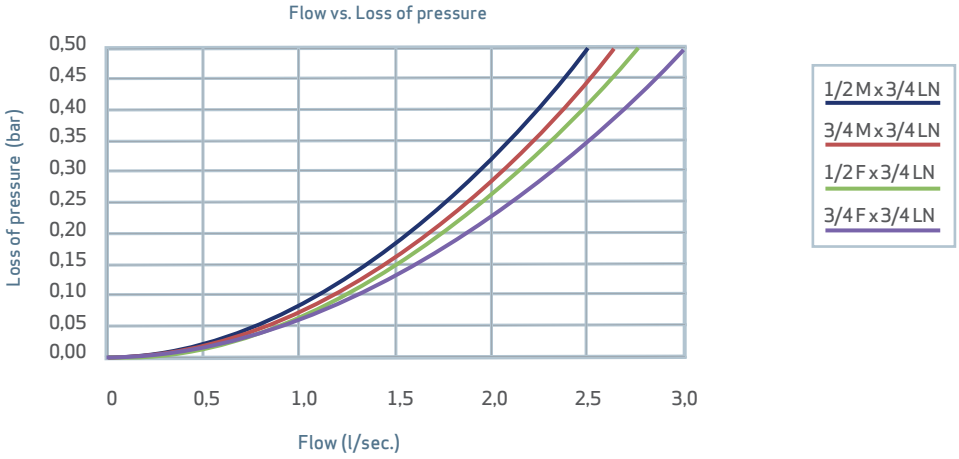
Size	A	B	C	D	E	F
1/2 M x 3/4 LN	70	G1/2	G3/4	78	37	41
3/4 M x 3/4 LN	70	G3/4	G3/4	81	37	41

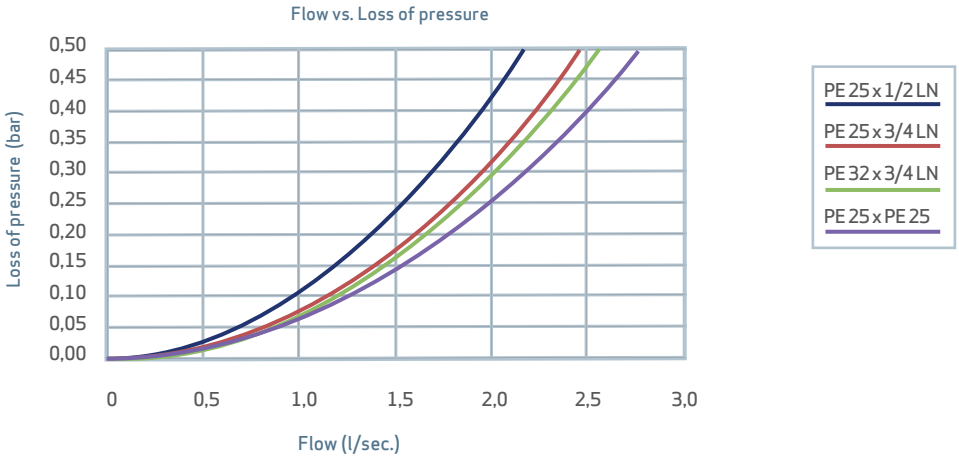
G Thread ISO 228



HYDRAULIC **FEATURES**

SIL MLA series have been tested in our laboratory to determine the hydraulic features of flow vs. loss of pressure according to European Norm EN 1267.





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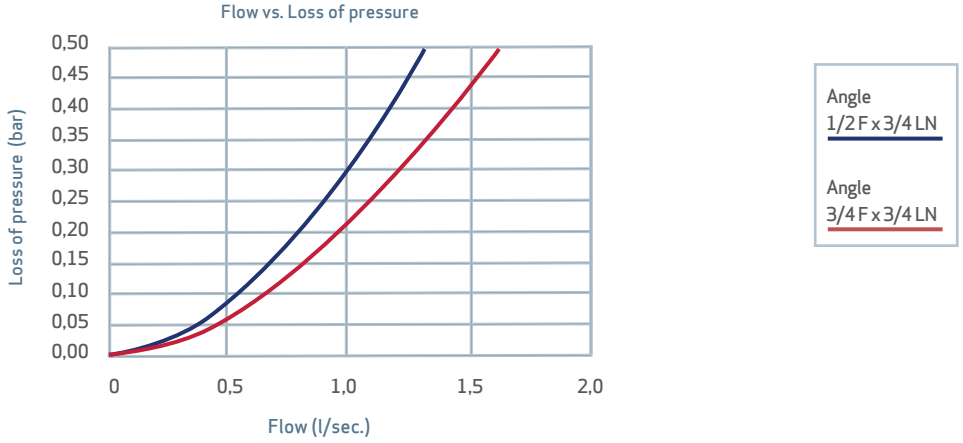

INSTALATION **AND ASSEMBLY**

The installation of valves must be done with the right tool, mostly with a spanner.

Hold the valve from the end of the connection, never from the central part or the neck of the valve in order to avoid internal components deformation, the valve could be damaged inevitably.

The maximum lifespan of the valve is obtained with the spherical closure in full open or closed position, it is recommended to not operate in intermediate positions for long time periods.

Valves should be maneuvered every 3 months. This frequency should be increased for waters with French hardness over 50º.

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Every product has an impact on the environment during all stages of its life-cycle, including final disposal. All components of these valves can be recycled, deposit the valve in a green or recycled point when no longer useful.