



**WATER
SERIES**

 **arco**[®]
QUALITY BY TRADITION

jardin



TECHNICAL SHEET 06/2016 | IPO4010

SCOPE

JARDIN series are metallic ball valves that, due to their design and materials are intended to be used in outdoor plumbing networks like gardens, terraces, etc.

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

Moreover these taps JARDIN are able to connect a hose, so mostly of the models include a nozzle for that purpose.

SERVICE CONDITIONS

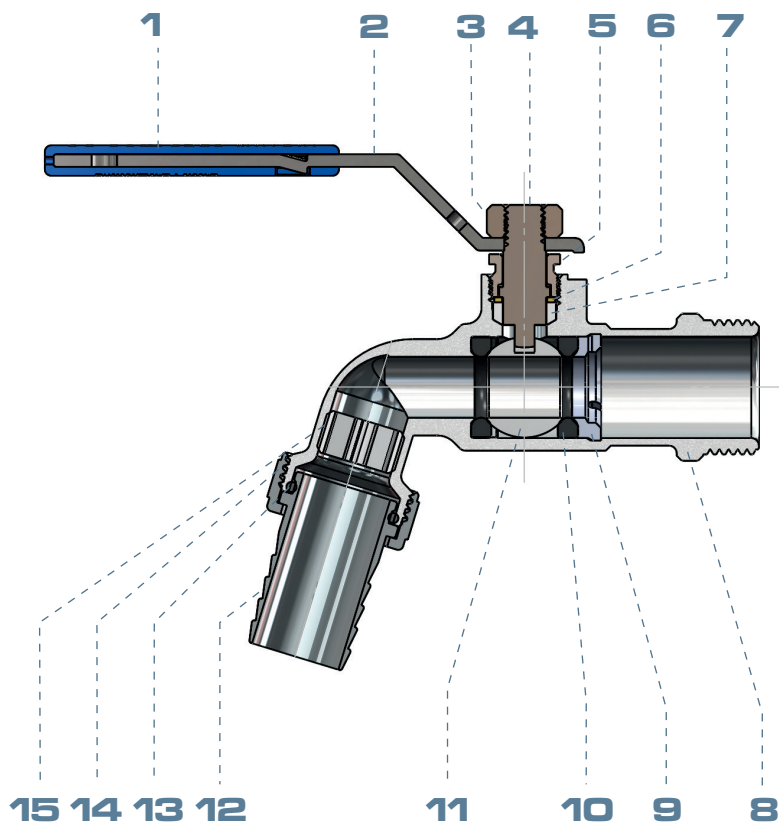
Nominal Pressure:	16 bar
Test Pressure:	25 bar
Temperature Range:	Cold and hot water until 90°C
Fluid:	Drinking water



COMPONENTS

Item	Component	Material	Treatment
1	Cover	PE	
2	Lever handle*	Stainless Steel	
3	Nut	Stainless Steel	
4	Stem	European Brass CW614N	Zinc
5	Nut Gland	European Brass CW614N	Zinc
6	Washer	European Brass CW614N	
7	Sealing Gland	PTFE	
8	Body	European Brass CW617N	Chromed
9	Supporting clip	POM	
10	Seat	NBR	
11	Ball	European Brass CW614N	Chromed
12	Nozzle	Brass	
13	O-ring	NBR	Chromed
14	Nut	Brass	
15	Diffuser	ABS	

* Lever handle also available in Geomet or Epoxy Covering, both options include Nut made of steel.





MAIN CONSTRUCTIVE FEATURES

BODY

Main body made in one piece in European brass CW617N by means of hot stamping process. Both process and materials confer the following advantages versus casting valves or valves made in different parts:

- Pores and bumpy texture absence.
- Surfaces with better finished.
- Higher mechanical endurance against high pressures.
- Monoblock body without a possibility of leak, being made in one piece versus other models from the competitors made in 2 pieces.



SPHERICAL CLOSURE

Spherical ball made in European brass CW614N for a higher mechanical resistance to high pressures and maneuvers. Its diamond mechanized and chromed plated applied on the ball surface assure a long lifespan and a smooth maneuver.

NUT AND SEALING GLAND

Sealing gland made in PTFE, avoiding external leak tightness due to its perfect fit on metallic surfaces.

LEVERS

Levers in this series are available in different materials and finished:

- Geomet treatment.
 - Epoxy covering.
 - Stainless steel AISI 304.
- (check levers according to models)





MAIN CONSTRUCTIVE FEATURES

CONNECTION NOZZLE

Allows both easy and quick connection of any type of hose with quick connection gadget.

They are available made of:

- Brass.
- Plastic.



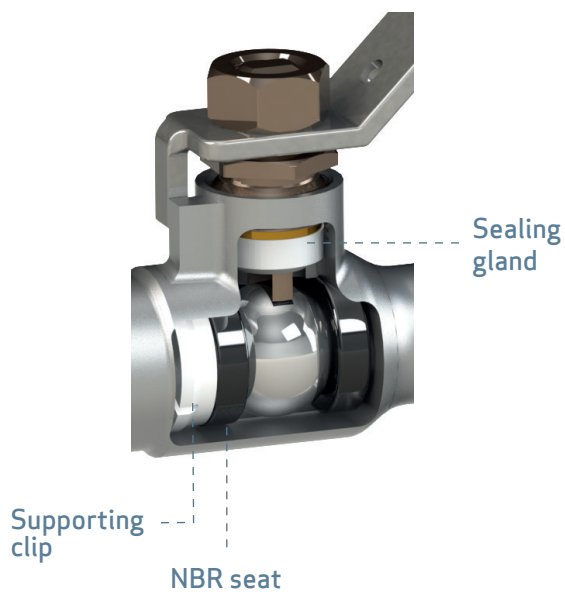
LEAK TIGHTNESS

INTERNAL leak tightness

Internal leak tightness is assured in both directions by the NBR seat that press against the spherical closure. This system cannot be dismantled, avoiding improper manipulations.

EXTERNAL leak tightness

External leak tightness through the stem is assured by a PTFE sealing gland allowing its retightening if necessary.



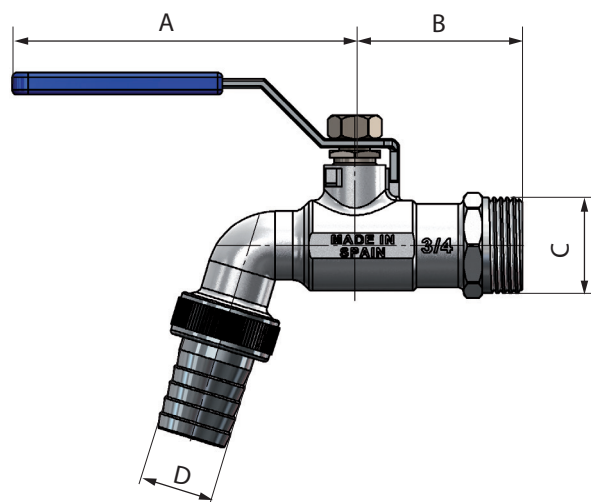


DIMENSIONS

Garden tap with lever handle

Size	A	B	C	D
½Mx½Mø15	95	43	G ½	G ½ x ø15
½Mx¾Mø15	95	43	G ½	G ¾ x ø15
¾Mx¾Mø20	95	47	G ¾	G ¾ x ø20
¾Mx½Mø15	95	43	G ¾	G ½ x ø15
1Mx1Mø25	95	48	G 1	G 1 x ø25

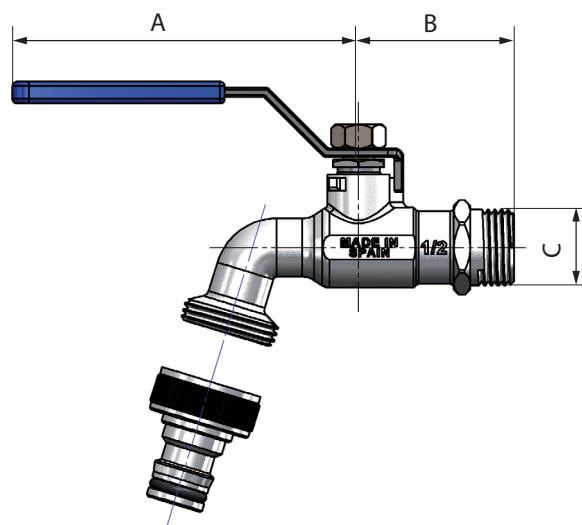
G. Thread ISO 228



Garden tap with quick connection nozzle

Size	A	B	C
½Mx¾ quick connection nozzle	95	43	G ½

G. Thread ISO 228



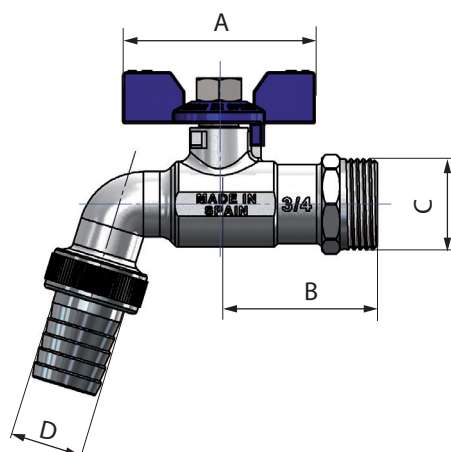


DIMENSIONS

Garden tap butterfly handle

Size	A	B	C	D
1/2 M x 1/2 M ø15	56	43	G 1/2	G 1/2 x ø15
3/4 M x 3/4 M ø20	56	47	G 3/4	G 3/4 x ø20

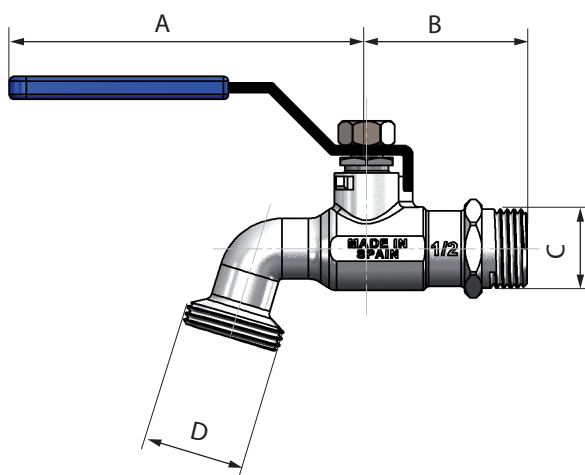
G. Thread ISO 228



Garden tap NPT black lever

Size	A	B	C	D
1/2 M NPT x 3/4 HT	95	43	1/2 NPT	3/4 HT
3/4 M NPT x 3/4 HT	95	50	3/4 NPT	3/4 HT

NPT Thread ASME B1.20.1
HT Thread ASME B1.20.7



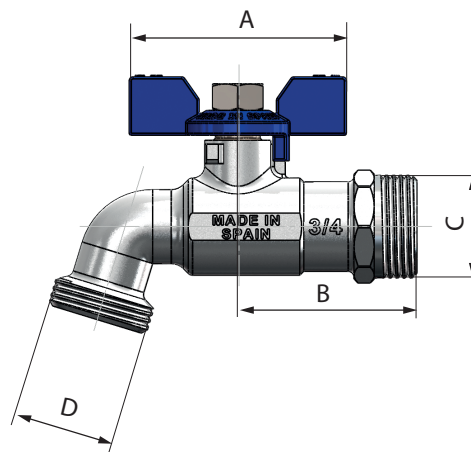


DIMENSIONS

Garden tap NPT butterfly handle

Size	A	B	C	D
½ M NPT x ¾ HT	56	43	½ NPT	¾ HT
¾ M NPT x ¾ HT	56	50	¾ NPT	¾ HT

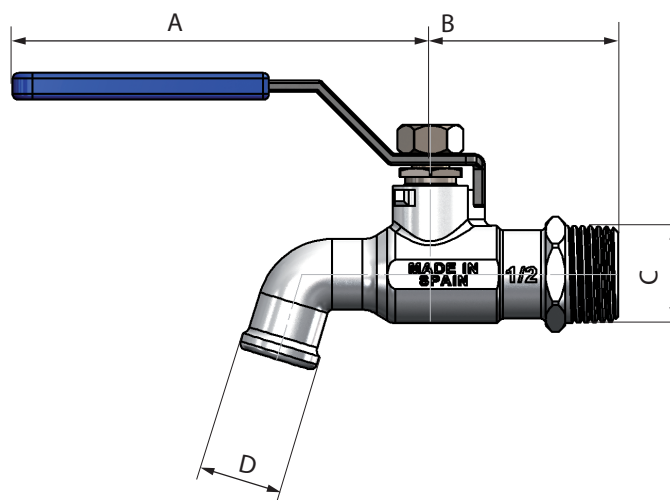
NPT Thread ASME B1.20.1
HT Thread ASME B1.20.7



Garden tap NPT handle W/O outlet thread

Size	A	B	C
½ M	95	43	G ½
½ M NPT	95	43	½ NPT

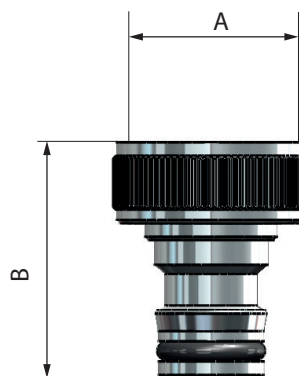
G. Thread ISO 228



Quick connection nozzle

Size	A	B
¾ H	G ¾	35

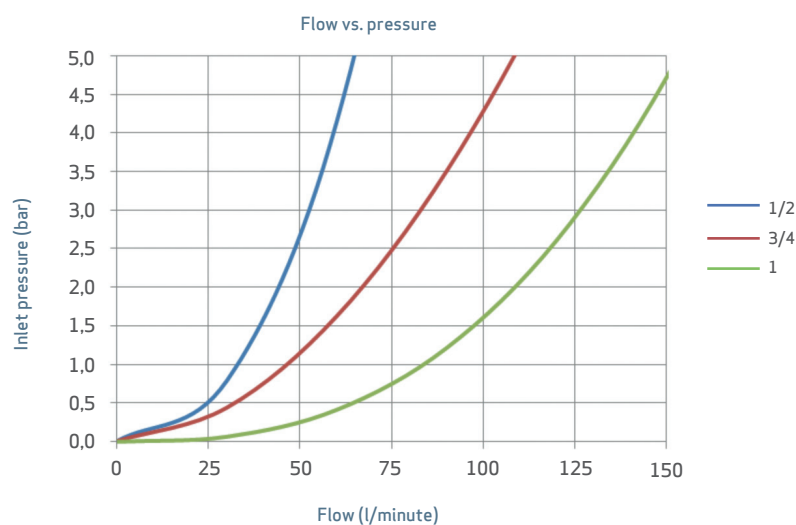
G. Thread ISO 228
(made in brass or plastic)





HYDRAULIC CHARACTERISTICS

JARDIN series have been tested in our laboratory to determine the hydraulic features of flow vs. pressure according to European norm EN 1267.



INSTALLATION 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 50°.

