



**WATER
SERIES**



turia 3000 valve



TECNICAL SHEET 08/2011 | IPO6010

SCOPE

TURIA series are manually operated metallic ball valves, by its design and raw materials are intended to be used in:

Drinking water networks.
Water supply connection.
Plumbing networks
Hot water networks.
Heating systems.
Compressed air networks.
Pneumatic applications.

In general all those applications where it is required a valve to stop the fluid supply, assuring the leaktightness in accordance to the working conditions.

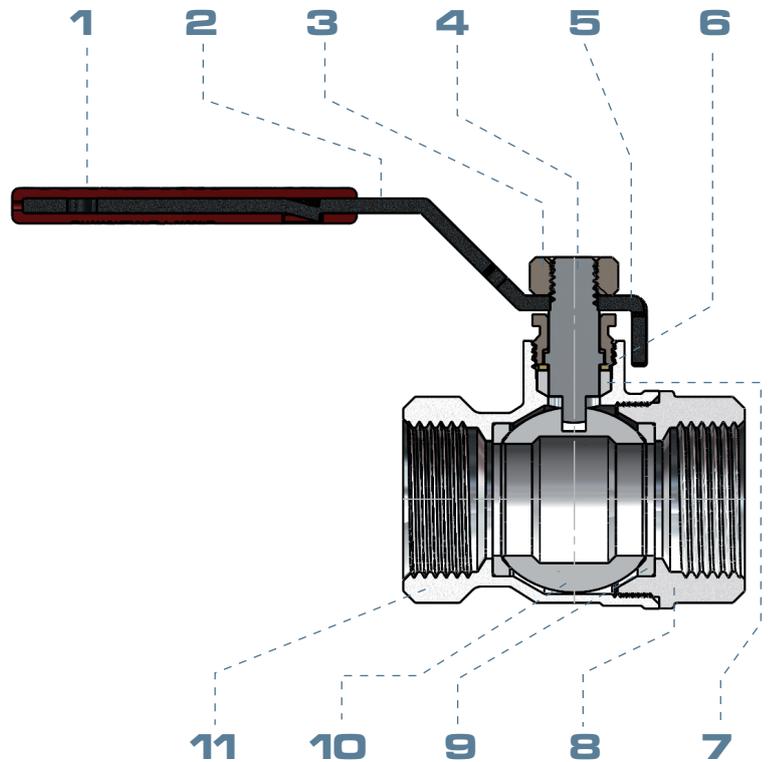
SERVICE CONDITIONS

Nominal pressure:	40 bar
Test pressure:	60 bar
Temperature range:	-20°C up to 140°C, excluding frozen
Fluid:	Drinking water, hot water and compressed air



COMPONENTS

Item	Component	Material	Treatment
1	Cover	LDPE	
2	Handle	Steel	Black epoxy coated
3	Handle nut	Steel	Zinc plated
4	Stem	European Brass CW614N	
5	Sealing gland nut	European Brass CW614N	
6	Washer	European Brass CW614N	
7	Sealing gland	PTFE	
8	Lateral	European Brass CW617N	Chrome plated
9	Seat	PTFE	
10	Ball	European Brass CW614N	Chrome plated
11	Body	European Brass CW617N	Chrome plated



MAIN CONSTRUCTIVE FEATURES

Body and lateral

Main body manufactured in European brass alloy CW617N, by the mean of a hot stamping process. This process confers to the European brass alloy the following advantages against casting parts:

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

Seat and sealing gland

Seats and sealing gland are made in PTFE, avoiding internal and external leaktighness due to its perfect fit on metallic surfaces

Spherical closure

Spherical closure is made in European brass alloy CW614N, ensuring a higher mechanical endurance against high pressure and maneuvers.

Its diamond mechanized and chrome plated applied on the ball surface assure a long lifespan and a smooth maneuver.

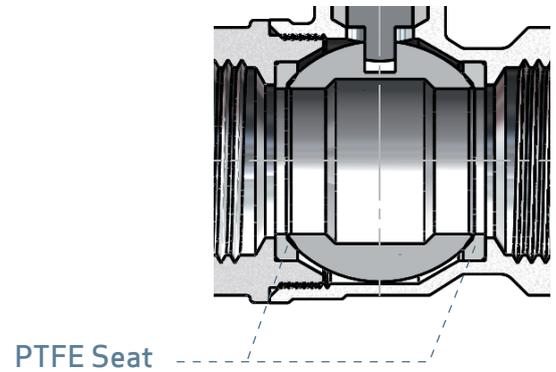




MAIN CONSTRUCTIVE FEATURES

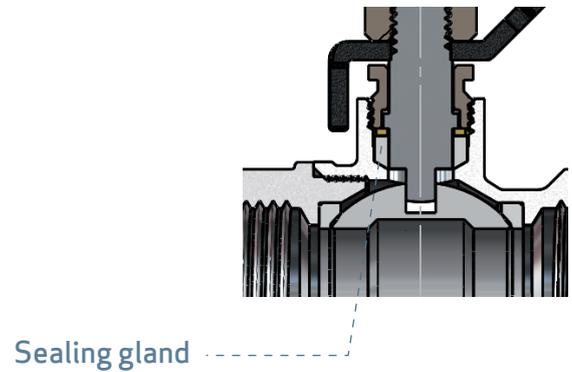
Internal leaktighness (Close position)

Internal leaktighness is assured in both directions by the PTFE seat that press against the spherical closure.



External leaktighness (Open position)

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

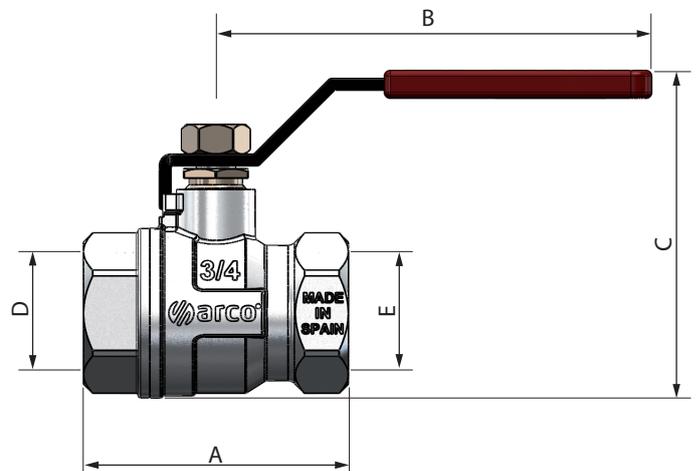


DIMENSIONS

Female - female. Lever handle

Size	A	B	C	D	E
1/4 FF	44	68	40	G 1/4	G 1/4
3/8 FF	44	68	40	G 3/8	G 3/8
1/2 FF	60	93	62	G 1/2	G 1/2
3/4 FF	66	93	70	G 3/4	G 3/4
1 FF	80	112	81	G 1	G 1
1 1/4 FF	89	112	90	G 1 1/4	G 1 1/4
1 1/2 FF	108	152	107	G 1 1/2	G 1 1/2
2 FF	125	152	127	G 2	G 2
2 1/2 FF	150	172	142	G 2 1/2	G 2 1/2

G Thread ISO 228



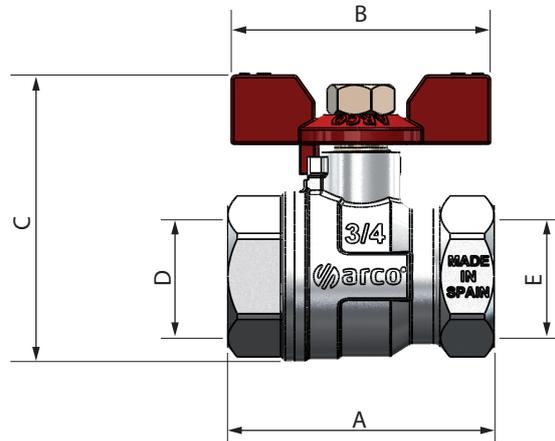


DIMENSIONS

Female - female. Butterfly handle

Size	A	B	C	D	E
1/4 FF	44	56	48	G 1/4	G 1/4
3/8 FF	44	56	48	G 3/8	G 3/8
1/2 FF	60	56	53	G 1/2	G 1/2
3/4 FF	66	56	62	G 3/4	G 3/4
1 FF	80	80	74	G 1	G 1

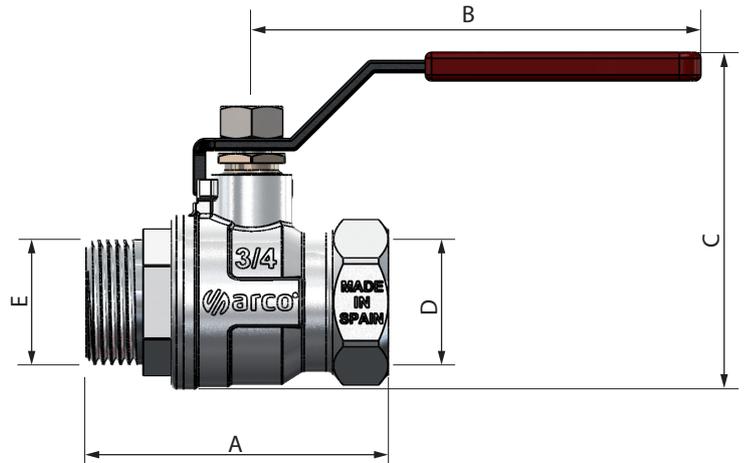
G Thread ISO 228



Male - female. Lever handle

Size	A	B	C	D	E
1/4 MF	49	68	40	G 1/4	G 1/4
3/8 MF	49	68	40	G 3/8	G 3/8
1/2 MF	55	93	63	G 1/2	G 1/2
3/4 MF	64	93	70	G 3/4	G 3/4
1 MF	75	112	80	G 1	G 1

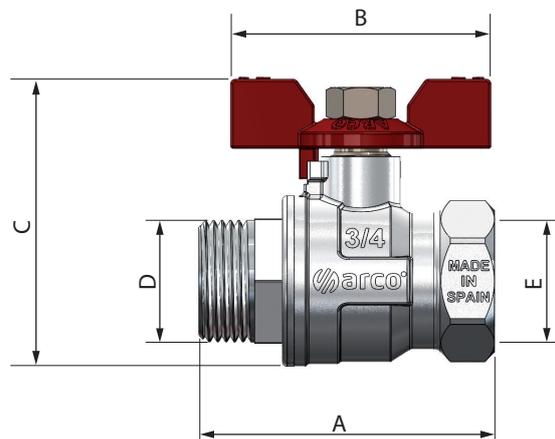
G Thread ISO 228



Male - female. Butterfly handle

Size	A	B	C	D	E
1/4 MF	49	56	48	G 1/4	G 1/4
3/8 MF	49	56	48	G 3/8	G 3/8
1/2 MF	55	56	54	G 1/2	G 1/2
3/4 MF	64	56	52	G 3/4	G 3/4
1 MF	75	80	71	G 1	G 1

G Thread ISO 228



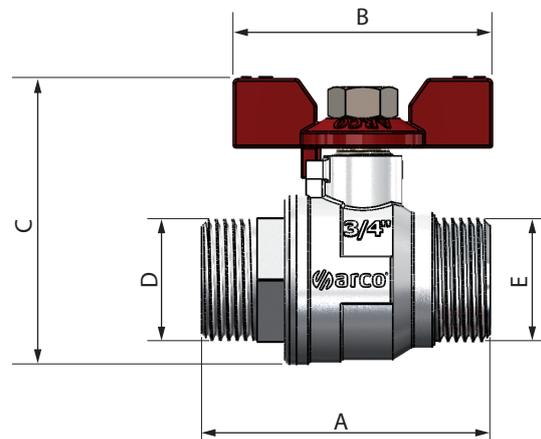


DIMENSIONS

Male - male. Butterfly handle

Size	A	B	C	D	E
3/8 MM	49	56	48	G 1/4	G 1/4
1/2 MM	54	56	54	G 1/2	G 1/2
3/4 MM	62	56	62	G 3/4	G 3/4
1 MM	75	80	72	G 1	G 1

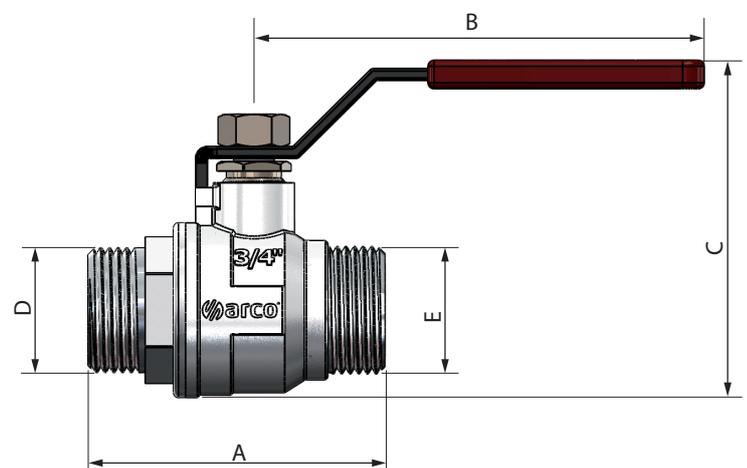
G Thread ISO 228



Male - male. Lever handle

Size	A	B	C	D	E
3/8 MM	49	68	40	G 3/8	G 3/8
1/2 MM	54	93	62	G 1/2	G 1/2
3/4 MM	62	93	70	G 3/4	G 3/4
1 MM	75	112	82	G 1	G 1

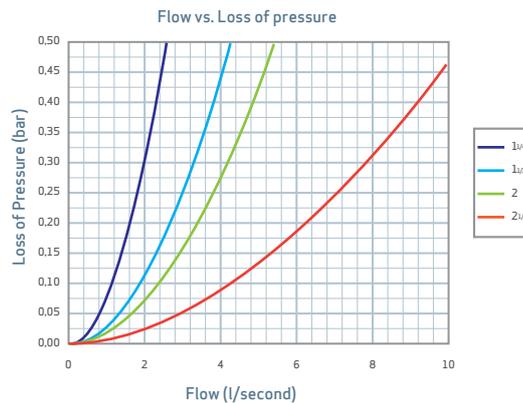
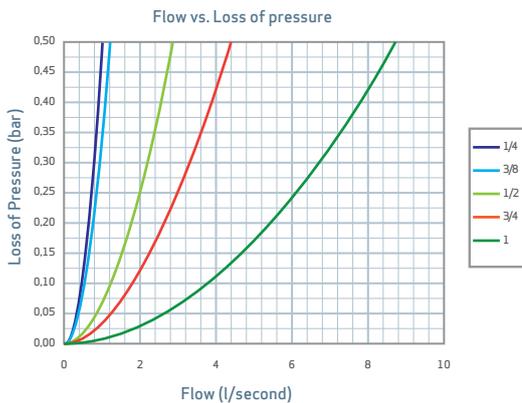
G Thread ISO 228





HYDRAULIC FEATURES

TURIA series have been tested in our laboratory, hydraulic features obtained according to European Standard EN 1267.



INSTALATION AND ASSEMBLY

Hold the valve from faces of the hexagons, never from the central part or its neck, that will avoid internal components deformations (in other case valve could be damaged inevitably).

The maximum valve life is obtained with the closure sphere in the full open or close position, it is recommended do not work in intermediate positions for long time periods.

Valve must be maneuver every 3 month, this frequencies must be increased for waters with a French hardness over 50°.

