VALVE MIÑO 650

Quarter-turn ball valves for manually operated gas installations where the connection is made by means of a screw connection.

- European brass.
- 100% leak tested at low and high pressure.
- Internally assembled stem that prevents disassembly from the outside (tamper-proof system)
- Locking system on the neck for closing and sealing the valve.
- 100% compatible with our SBA locking system
- CE marked, according to harmonized standard EN-331:1998/A1:2010.
- High temperatures resistance according to EN 1775:2008, tested and certified by BE-ARGB-KVBG.
- Robust construction for safe installations.

TECHNICAL DATA SHEET VALVE MIÑO 650

PRODUCT SCOPE

Quarte-turn ball valves and manual operation for gases of the first, second and third family (specified in the EN 437 standard).

These valves comply with EN 331:1998/A1:2010, the harmonised standard for CE marking. Type tests performed by CATIM from 1/4"HH to 2"HH.

In addition, they comply with the high temperature resistance test of the EN 1775:2008 standard, Annex A, Procedure B. Test carried out and certified by GAS. BE-ARGB-KVBG.

PRODUCT USES

Valves intended for domestic and commercial installations which are not directly buried inside or outside buildings, and which use gases of the first, second and third families (EN 437).

STANDARD EN 331:1998/A1:2010

The EN 331:1998 standard as amended A1:2010 introduces Annex ZA, which defines the essential requirements for the application of the European Construction Products Regulation (EU) 305/2011 (former Directive 89/106/EEC).

Compliance with these requirements through a Type 3 conformity verification system allows CE marking.

Although a new edition of EN 331:2015 is available, this version is not harmonised; therefore, it cannot be used to establish compliance with the essential requirements and, therefore, the CE marking. The list of harmonized standards is periodically published in the corresponding European Commission Implementing Decision.

In conclusion, the CE marking is supported by standard EN 331:1998/A1:2010. It applies to all sizes except 2 ½"HH (DN65), as it is not included in the aforementioned standard.

STANDARD EN 1775:2008, ANNEX A, PROCEDURE B RESISTANCE TO HIGH TEMPERATURES.

Compliance with this Annex is a complement to the CE marking, carried out in an external laboratory only in the measurements from 1/2" to 2".

This annex establishes compliance with High Temperature Resistance, when a valve is capable of exceeding these test conditions:

- Outdoor ambient temperature (oven): 650ºC
- Dwell Time: 30 minutes
- Continuous inlet pressure: 100 mbar
- Maximum allowable leakage flow: 200 l/h.

Under these test conditions compliance is granted.

It should not be confused with the valve service conditions established in the EN 331:1998/A1:2010 standard:

- Pressure Class: MOP 5 (5 Bar)
- Temperature class: -40º to +60ºC

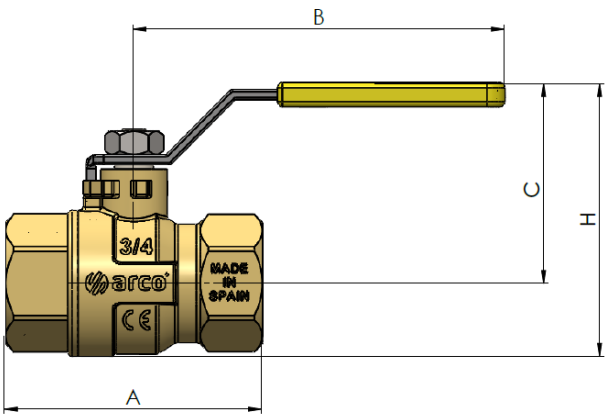
GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

FEMALE – FEMALE LEVER HANDLE. BRASS COLOR

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
M1100	1/4” F-F	44	70	36	47	MOP 5	-40 to 60ºC	Not applicable	Not applicable
M1101	3/8” F-F	44	70	36	47	MOP 5	-40 to 60ºC	Not applicable	Not applicable
M1102	1/2” F-F	60	95	47	61	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1103	3/4F-F	66	95	51	69	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1104	1” F-F	80	113	62	84	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1105	1 ¼” F-F	89	113	67	95	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1106	1 ½” F-F	108	153	72	106	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1107	2” F-F	126	153	82	124	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1108	2 ½” F-F	150	173	90	142	MOP 5	-40 to 60ºC	Not applicable	Not applicable

Threads Rp – ISO 7/1

The **IM108** model is manufactured with the same materials and designed with identical construction solutions as the rest of the models, but does not have CE marking as the average of 2 1/2"HH (DN 65) is not included in the EN 331:1998/A1:2010 standard.

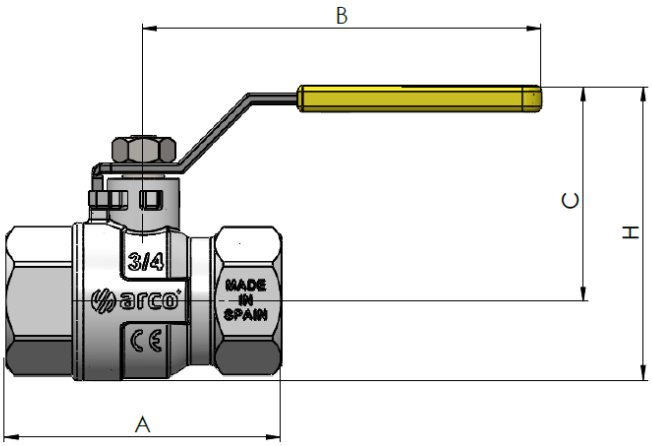


FEMALE – FEMALE LEVER HANDLE. CHROME PLATED

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
P0102	1/2” F-F	60	95	47	61	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0103	3/4F-F	66	95	51	69	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0104	1” F-F	80	113	62	84	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0105	1 ¼” F-F	89	113	67	95	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0106	1 ½” F-F	108	153	72	106	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0107	2” F-F	126	153	82	124	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0108	2 ½” F-F	150	173	90	142	MOP 5	-40 to 60ºC	Not applicable	Not applicable

Threads Rp – ISO 7/1

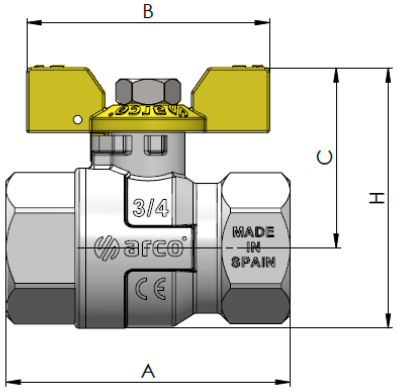
The **P0108** model is manufactured with the same materials and designed with identical construction solutions as the rest of the models, but does not have CE marking as the average of 2 1/2"HH (DN 65) is not included in the EN 331:1998/A1:2010 standard.



FEMALE – FEMALE BUTTERFLY. CHROME PLATED

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
PM102	1/2” F-F	60	56	37	52	MOP 5	-40 to 60ºC	100 mbar	650ºC
PM103	3/4F-F	66	56	42	60	MOP 5	-40 to 60ºC	100 mbar	650ºC
PM104	1” F-F	80	80	52	75	MOP 5	-40 to 60ºC	100 mbar	650ºC

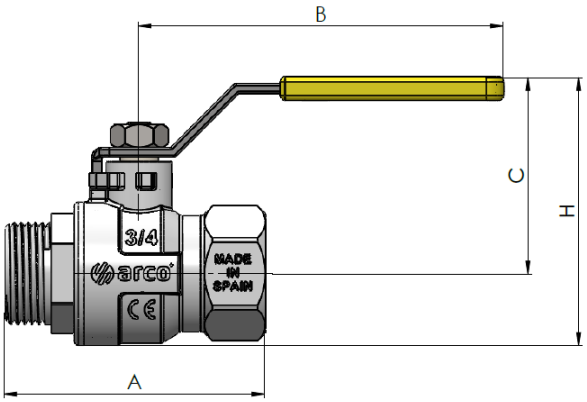
Threads Rp – ISO 7/1



MALE – FEMALE LEVER HANDLE. CHROME PLATED

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
M1127CR	1/2 M-F	61	95	47	61	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1129CR	3/4 M-F	67	95	51	69	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1131CR	1 M-F	87	113	62	84	MOP 5	-40 to 60ºC	100 mbar	650ºC

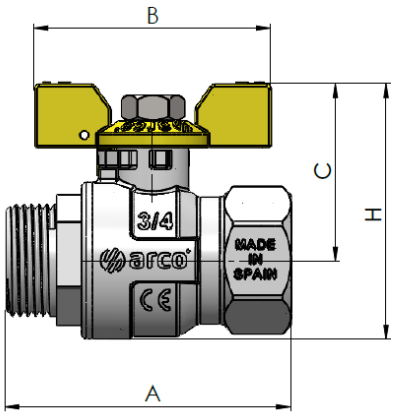
Male Thread G – ISO 228 and Female Thread Rp – ISO 7/1



MALE – FEMALE BUTTERFLY. CHROME PLATED

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
M1128CR	1/2 M-F	61	56	37	52	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1130CR	3/4 M-F	67	56	42	60	MOP 5	-40 to 60ºC	100 mbar	650ºC
M1132CR	1 M-F	87	80	52	75	MOP 5	-40 to 60ºC	100 mbar	650ºC

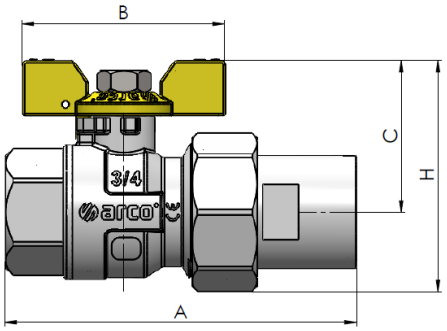
Male Thread G – ISO 228 and Female Thread Rp – ISO 7/1



STRAIGHT MANIFOLD BUTTERFLY HANDLE. CHROME PLATED

Code	Measure	A (mm)	B (mm)	C (mm)	H (mm)	Pressure Class EN 331	Temperature Class EN 331	Maximum Pressure EN 1775	Class Temperature EN 1775
P0122	1/2 H-RH	89	56	37	56	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0123	3/4 H-RH	97	56	42	64	MOP 5	-40 to 60ºC	100 mbar	650ºC
P0124	1 H-RH	115	80	52	78	MOP 5	-40 to 60ºC	100 mbar	650ºC

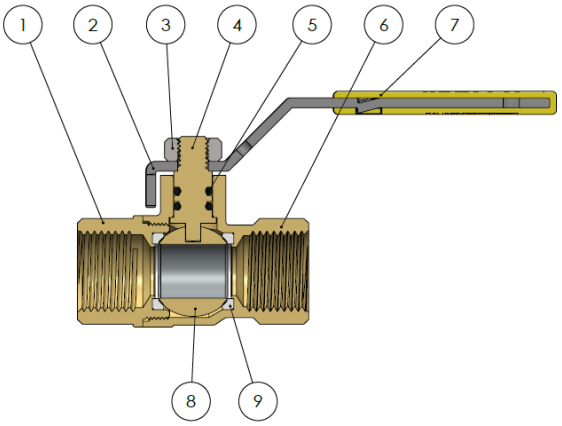
Threads Rp – ISO 7/1



MATERIALS

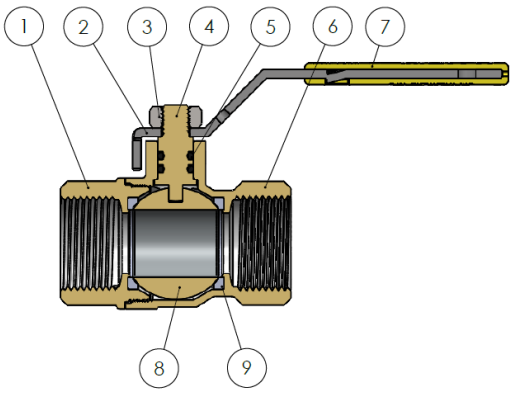
FEMALE – FEMALE LEVER HANDLE. BRASS COLOR

Item	Component	Material	Finishing
1	Lateral	CW617N	Brass colour
2	Handle	Steel	Geomet ®
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc Plated
5	O-Rings	NBR	-
6	Body	CW617N	Brass colour
7	Cover	PE	Yellow
8	Ball	CW617N	Chrome plated
9	Seats	PTFE	-



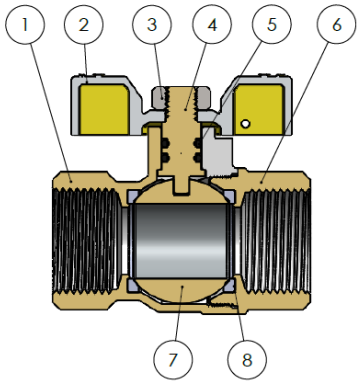
FEMALE – FEMALE LEVER HANDLE. CHROME PLATED

Item	Component	Material	Finishing
1	Lateral	CW617N	Chrome plated
2	Handle	Steel	Geomet ®
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc Plated
5	O-Rings	NBR	-
6	Body	CW617N	Chrome plated
7	Cover	PE	Yellow
8	Ball	CW617N	Chrome plated
9	Seats	PTFE	-



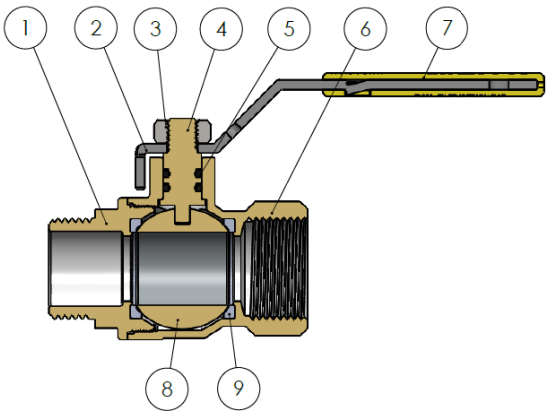
FEMALE – FEMALE BUTTERFLY HANDLE. CHROME PLATED

Item	Component	Material	Finishing
1	Body	CW617N	Chrome plated
2	Butterfly	ZAMAK	Yellow epoxy
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc plated
5	O-Rings	NBR	-
6	Lateral	CW617N	Chrome plated
7	Ball	CW617N	Chrome plated
8	Seats	PTFE	-



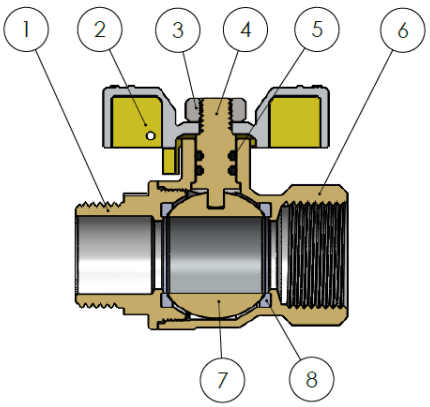
MALE – FEMALE HANDLE. CHROME PLATED

Item	Component	Material	Finishing
1	Lateral	CW617N	Chrome plated
2	Handle	Steel	Geomet ®
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc plated
5	O-Rings	NBR	-
6	Body	CW617N	Chrome plated
7	Cover	PE	Yellow
8	Ball	CW617N	Chrome plated
9	Seats	PTFE	-



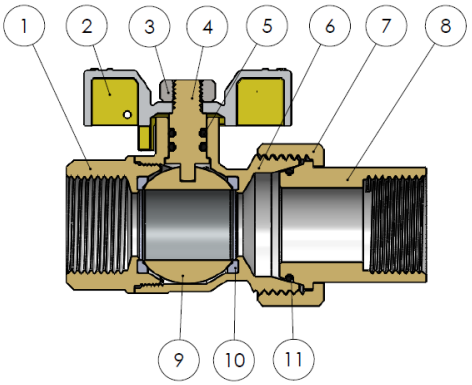
MALE – FEMALE BUTTERFLY HANDLE. CHROME PLATED

Item	Component	Material	Finishing
1	Lateral	CW617N	Chrome plated
2	Butterfly	ZAMAK	Yellow epoxy
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc Plated
5	O-Rings	NBR	-
6	Body	CW617N	Chrome
7	Ball	CW617N	Chrome
8	Seats	PTFE	-



STRAIGHT MANIFOLD BUTTERFLY HANDLE. CHROME PLATE

Item	Component	Material	Finishing
1	Lateral	CW617N	Chrome plated
2	Butterfly	ZAMAK	Yellow epoxy
3	Nut	Steel	Geomet ®
4	Stem	CW614N	Zinc plated
5	O-Rings	NBR	-
6	Body	CW617N	Chrome plated
7	Nut	Steel	Geomet ®
8	Coupling	CW617N	Chrome plated
9	Ball	CW617N	Chrome plated
10	Seats	PTFE	-
11	O-Ring	NBR	-



INSTALLATION INSTRUCTIONS

Before taking any action, the gas supply in the installation must be cut off, make sure that there is no dirt or foreign element in the connection to the network. Apply the appropriate sealing material to the threads. The installation of the valve should be done with a suitable tool, preferably with a fixed, English or similar wrench; Hold it by the ends acting on the flat faces, avoid deforming this area due to excess pressure from the tool. Restore the gas supply and check the tightness of all connections before leaving the valve in service.

Do not alter or manipulate the internal components of the valve, risk of explosion.

The maximum duration of the ball valves is obtained in the completely open or closed positions, it is recommended not to permanently use the valve in intermediate positions and to perform a maneuver every 6 months, to avoid blockages.

Every product has an environmental impact during its life cycle, even after it has been removed from use. All components of this product can be recycled, deposit the valve at a recycling point or green point once it is finished use. Valves Arco reserves the right to change the product or its technical specifications without prior notice.

FT10010 ING – Edition 2025-10

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