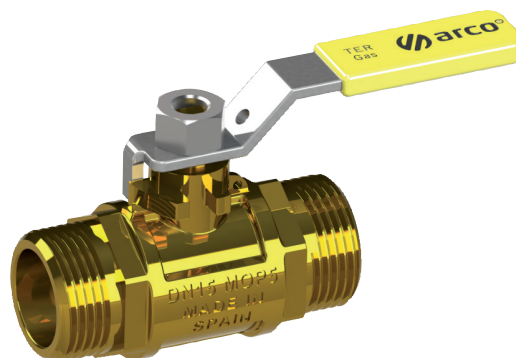




ter valve



TECHNICAL SHEET 07/2015 | IP11010

SCOPE

TER series are manually operated metallic ball valves.

The valves can not be dismantled, avoiding tampering of components in contact with gas, and have blockage and sealing systems. TER series are intended to be installed (straight or angle models) in gas network as in-line valves, its purpose is to open and close the gas flow between two network areas. Its maneuver is performed by a quarter turn.

TER valves are designed to be used in domestic and commercial applications, where the valves are not required to be directly buried or embedded, inside or outside the building. TER valves are intended to work with 1st, 2nd and 3rd gas families (according to EN 437).

SERVICE CONDITIONS

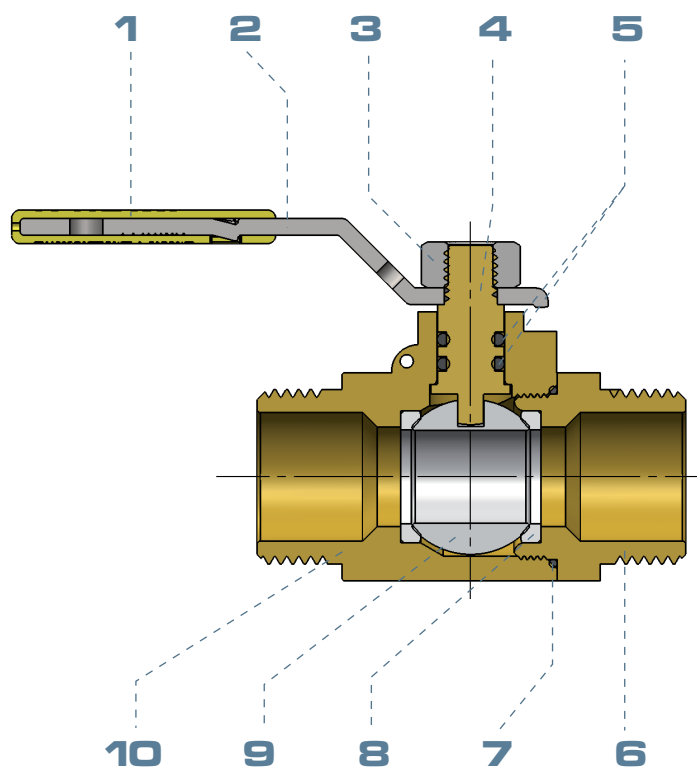
Maximum operating pressure:	MOP 5
Temperature classes:	-40°C up to 60°C
Fluid	1 st , 2 nd and 3 rd family gases according to EN 437



COMPONENTS

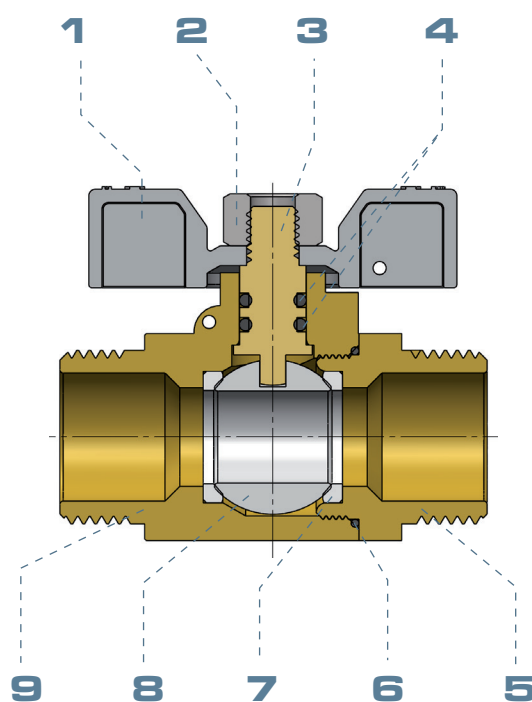
TER Valves Lever Handle

Item	Component	Material	Treatment
1	Cover	Polyethylene	
2	Lever handle	Steel	Geomet
3	Nut	Steel	Geomet
4	Stem	European Brass CW614N (EN 12164/EN 12165)	Brass color
5	O-ring	NBR (EN 549)	
6	Lateral	European Brass CW617N (EN 12164/EN 12165)	Brass color
7	O-ring	NBR (EN 549)	
8	Seat	PTFE	
9	Ball	European Brass CW614N/ CW617N (EN 12164/EN 12165)	Chrome plated
10	Body	European Brass CW617N (EN 12164/EN 12165)	Brass color



TER Valves Butterfly Handle

Item	Component	Material	Treatment
1	Handle	Metal	Epoxi coated
2	Nut	Steel	Geomet
3	Stem	European Brass CW614N (EN 12164/EN 12165)	Brass color
4	O-ring	NBR (EN 549)	
5	Lateral	European Brass CW617N (EN 12164/EN 12165)	Brass color
6	O-ring	NBR (EN 549)	
7	Seat	PTFE	
8	Ball	European Brass CW614N/ CW617N (EN 12164/EN 12165)	Chrome plated
9	Body	European Brass CW617N (EN 12164/EN 12165)	Brass color

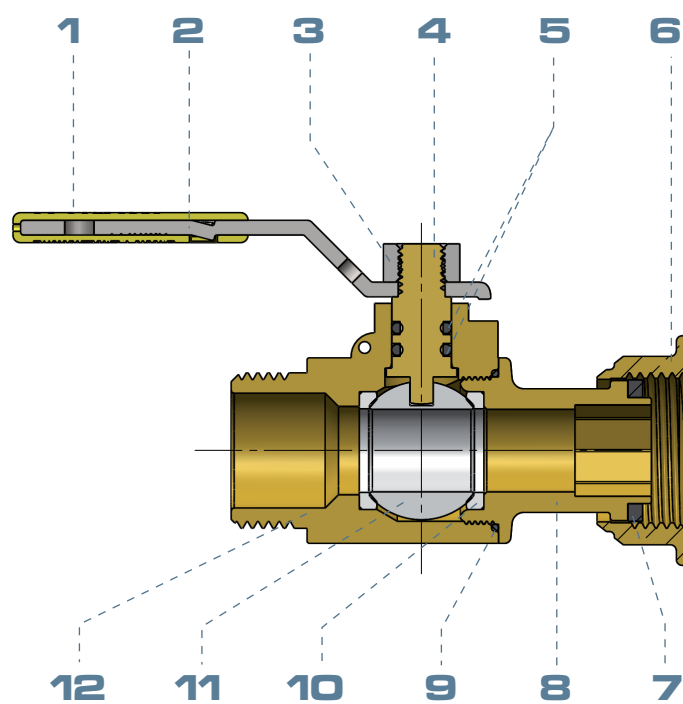
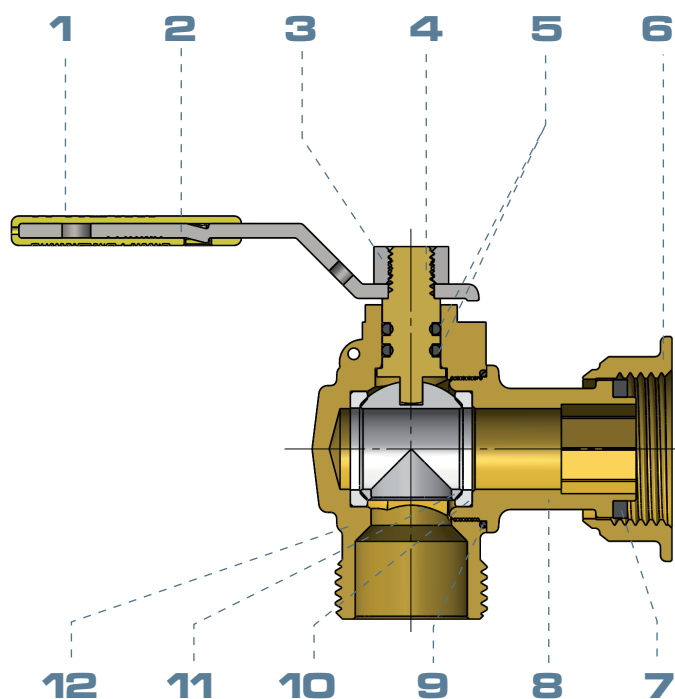




COMPONENTS

TER Straight/angle M-swivel Nut Lever Handle

Item	Component	Material	Treatment
1	Cover	Polyethylene	
2	Lever handle	Steel	Geomet
3	Nut	Steel	Geomet
4	Stem	European Brass CW614N (EN 12164/EN 12165)	Brass color
5	O-ring	NBR (EN 549)	
6	Swivel nut	European Brass CW617N (EN 12164/EN 12165)	Brass color
7	Gasket	NBR (EN 549)	
8	Lateral	European Brass CW617N (EN 12164/EN 12165)	Brass color
9	O-ring	NBR (EN 549)	
10	Seat	PTFE	
11	Ball	European Brass CW614N/ CW617N (EN 12164/EN 12165)	Chrome plated
12	Body	European Brass CW617N (EN 12164/EN 12165)	Brass color

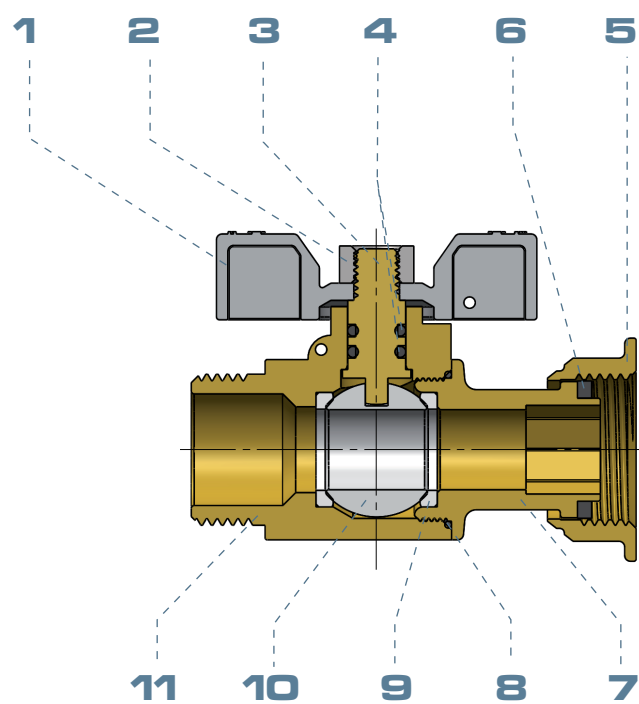
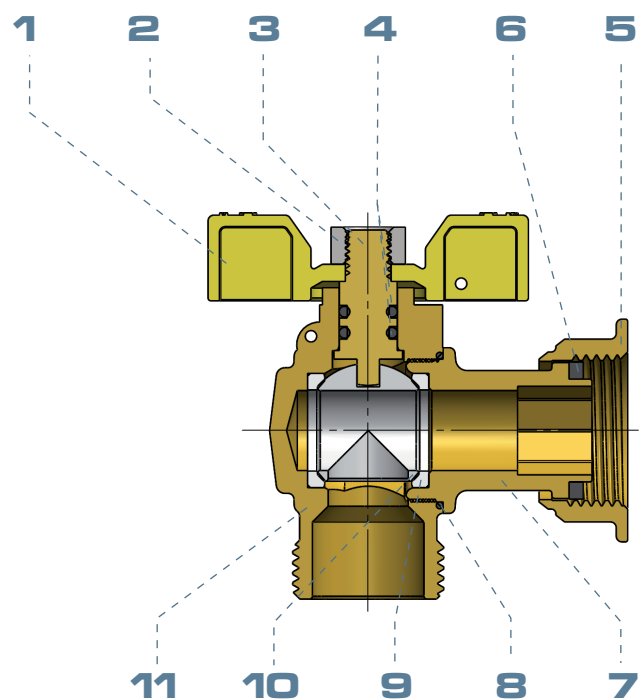




COMPONENTS

TER Straight/angle M-swivel Nut Butterfly Handle

Item	Component	Material	Treatment
1	Handle	Metal	Epoxy coated
2	Nut	Steel	Geomet
3	Stem	European Brass CW614N (EN 12164/EN 12165)	Brass color
4	O-ring	NBR (EN 549)	
5	Swivel nut	European Brass CW617N (EN 12164/EN 12165)	Brass color
6	Gasket	NBR (EN 549)	
7	Lateral	European Brass CW614N (EN 12164/EN 12165)	Brass color
8	O-ring	NBR (EN 549)	
9	Seat	PTFE	
10	Ball	European Brass CW614N/ CW617N (EN 12164/EN 12165)	Chrome plated
11	Body	European Brass CW617N (EN 12164/EN 12165)	Brass color





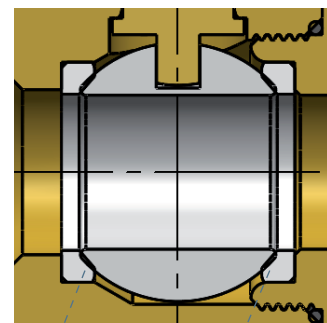
MAIN CONSTRUCTIVE FEATURES

LEAKTIGHTNESS

Internal

Internal leaktightness is guaranteed in both directions by the mean of two PTFE seats, which press against the sphere.

Internal leaktightness has been tested according to EN-331.



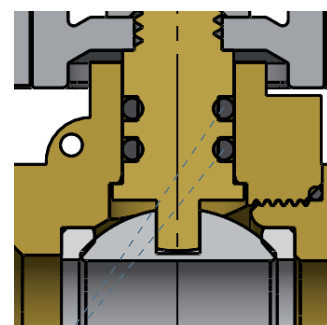
Seat

External

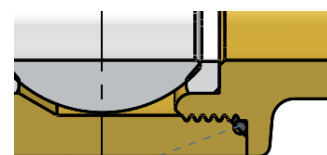
External leaktightness in the stem area is guaranteed by the mean of two o-rings directly assembled to the stem. The stem is assembly internally avoiding any external manipulation or disassembly of the stem (tamper-proof system). The double o-ring in the stem ensures an extra against leaks, wearing and ageing.

The leaktightness between body and lateral is reached by mechanical means, adding an o-ring at the joint of both components as additional leaktightness measure.

External leaktightness has been tested according to EN-331.



O-rings



O-ring



MAIN CONSTRUCTIVE FEATURES

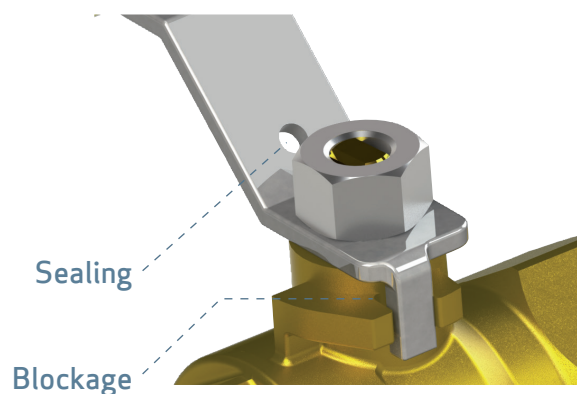
BLOCKAGE

TER series allows the valve blockage in the close position avoiding the gas flow, to its propose the main body has a gap between two stoppers to maintain blocked the handle.

The handle includes a sealing hole.

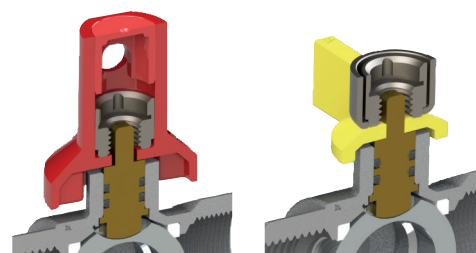
SEALING

The handle has a hole that with the blockage ensures that the closed of the valve has not been manipulated.



TAMPER PROOF LOCKING COVER

In addition it is available a tamper proof locking cover, to ensure the blockage of the valve and that the valve could not be tampered by anyone unconnected to the gas supplier company.



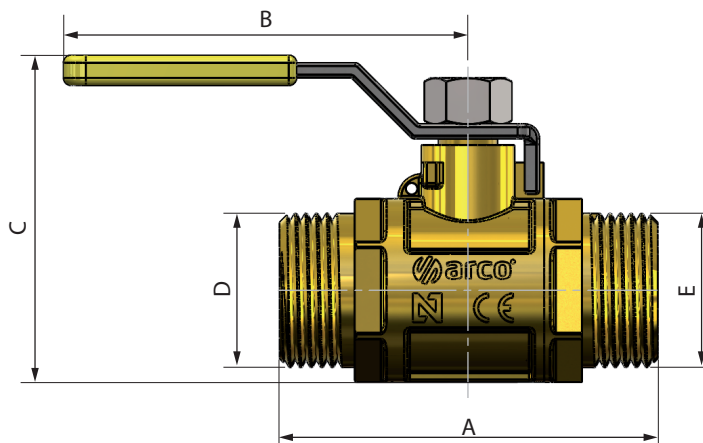


DIMENSIONS

TER Straight Male-male. Lever handle

Size	A	B	C	D	E
DN10	55	70	56	G 1/2	G 1/2
DN15	65	70	56	G 3/4	G 3/4
DN20	75	95	69	G 1	G 1
DN25	85	112	86	G 1 1/4	G 1 1/4
DN32	100	112	98	G 1 1/2	G 1 1/2
DN40	125	154	113	G 2	G 2
DN50	140	154	129	G 2 1/2	G 2 1/2

G Thread according to ISO 228

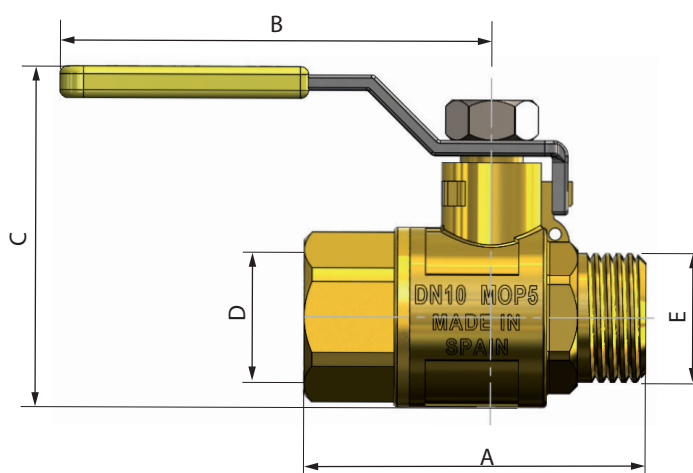


TER Straight Male-female. Lever handle

Size	A	B	C	D	E
DN10	55	70	56	Rp 1/2	G 1/2
DN15	65	70	69	Rp 3/4	G 3/4

G Thread according to ISO 228

Rp Thread according to ISO 7



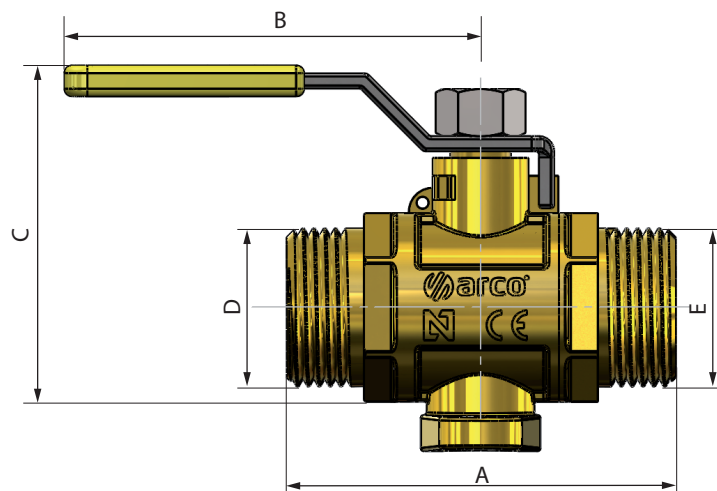
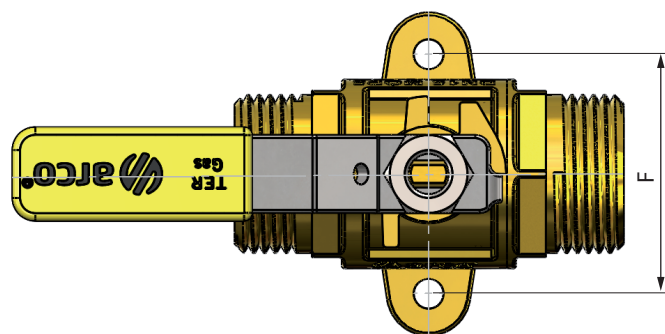


DIMENSIONS

TER with flange Male-male. Lever handle

Size	A	B	C	D	E	F
DN10	55	70	65	G 1/2	G 1/2	40
DN15	65	70	65	G 3/4	G 3/4	40

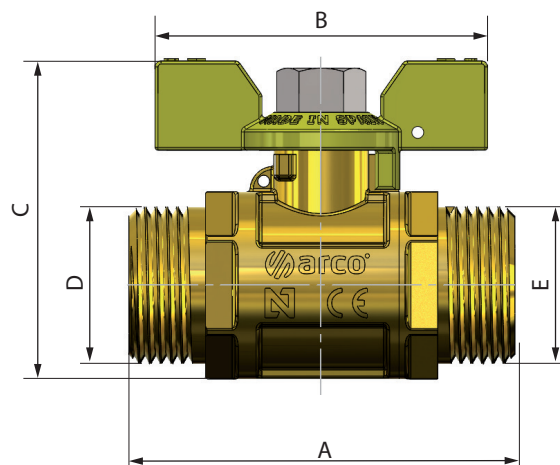
G Thread according to ISO 228



TER Straight Male-male. Butterfly handle

Size	A	B	C	D	E
DN10	55	56	52	G 1/2	G 1/2
DN15	65	56	54	G 3/4	G 3/4
DN20	75	56	60	G 1	G 1
DN25	85	80	76	G 1 1/4	G 1 1/4

G Thread according to ISO 228





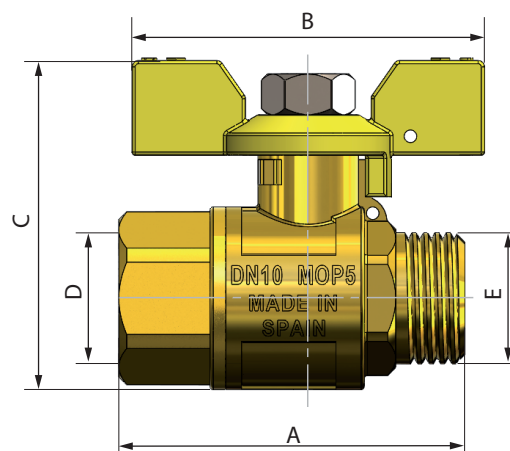
DIMENSIONS

TER Straight Male-female. Butterfly handle

Size	A	B	C	D	E
DN10	55	56	52	Rp 1/2	G 1/2
DN15	65	56	60	Rp 3/4	G 3/4

G Thread according to ISO 228

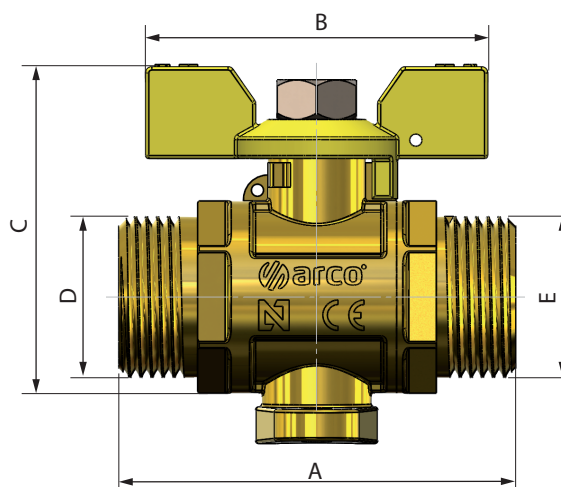
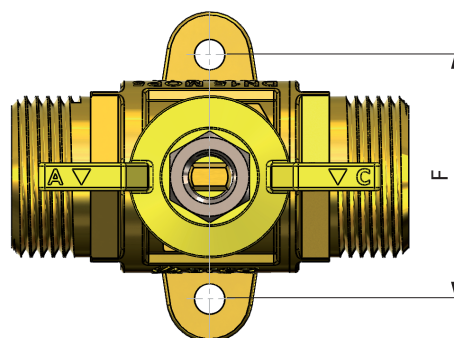
Rp Thread according to ISO 7



TER With Flange Male-male Butterfly Handle

Size	A	B	C	D	E	F
DN10	55	56	62	G 1/2	G 1/2	40
DN10	55	56	62	M20X150	M20X150	40
DN15	65	56	62	G 3/4	G 3/4	40

*G Thread according to ISO 228



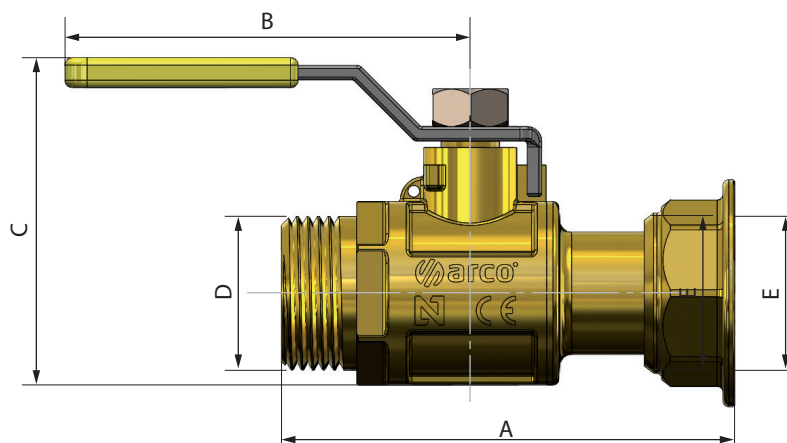


DIMENSIONS

TER Straight Male-swivel Nut Lever Handle

Size	A	B	C	D	E
DN15	68	70	56	G 3/4	G 3/4
DN20	70	70	63	G 7/8	G 7/8
DN20	75	95	69	G 1	G 1
DN25	95	112	86	G 1 1/4	G 1 1/4

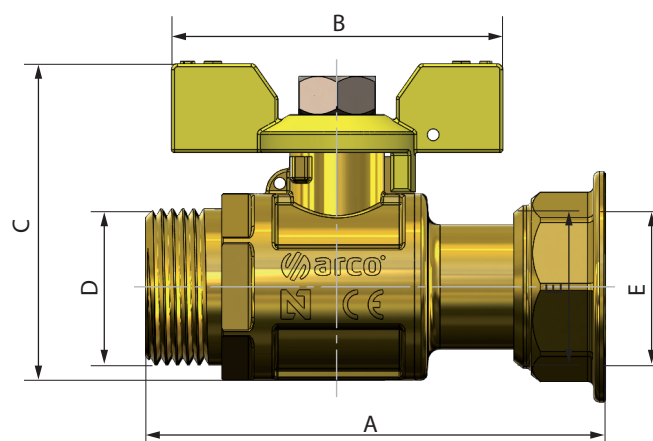
*G Thread according to ISO 228



TER Straight Male-swivel Nut Butterfly Handle

Size	A	B	C	D	E
DN15	68	56	54	G 3/4	G 3/4
DN20	70	56	61	G 7/8	G 7/8
DN20	75	56	61	G 1	G 1
DN25	95	80	76	G 1 1/4	G 1 1/4

*G Thread according to ISO 228



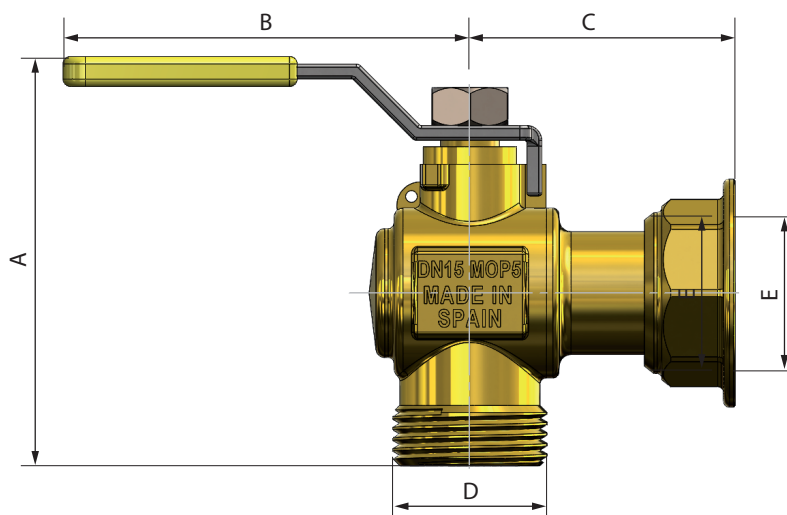


DIMENSIONS

TER Angle M-swivel Nut Lever Handle

Size	A	B	C	D	E
DN15	73	70	35	G 3/4	G 3/4
DN20	76	70	37	G 7/8	G 7/8

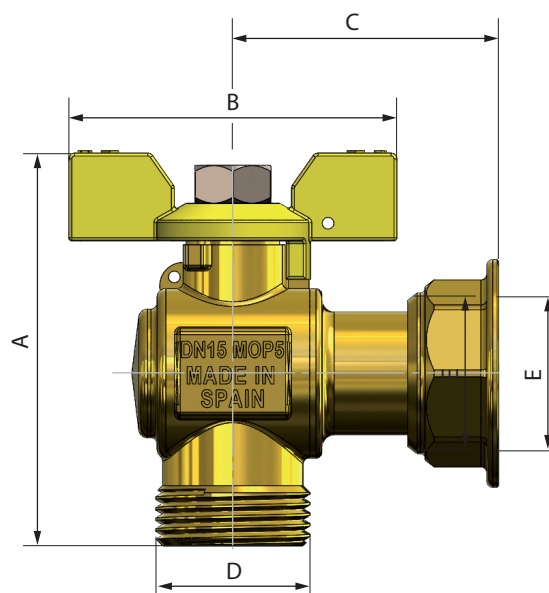
G Thread according to ISO 228



TER Angle M-swivel Nut Butterfly Handle

Size	A	B	C	D	E
DN15	67	56	35	G 3/4	G 3/4
DN20	74	56	37	G 7/8	G 7/8
DN25	95	80	53	G 1 1/4	G 1 1/4

G Thread according to ISO 228





TEST & CERTIFICATIONS

- 'CE' mark according to the "Constructions Products Regulation" (UE 305/2011)
- 'N' mark AENOR certificated according to EN 331
- Conformity certificate according to the Directive 2009/142/CE according to EN 331
- * Check at www.valvulasarco.com our Declaration of Performance.

INSTALATION AND ASSEMBLY

INSTALATION

- Connect the valve to the device or network using the appropriate leaktightness mediums (not supplied with the valve).
- Hold the valve through one of its edges, but never through the central part of the valve's neck in order to avoid damage it.
- Carry out the corresponding leaktightness tests before the network or device commissioning implementation.

WORKING MODES

- Open: turn the handle in counterclockwise.
- Close: turn the handle in clockwise.
- Never keep the handle working in intermediate open or close positions. These valves are not intended for regulation and working in this way can decrease rapidly the valve life span.

MAINTENANCE

No maintenance is required, but it is recommended to perform a full open close maneuver every 6 months.

