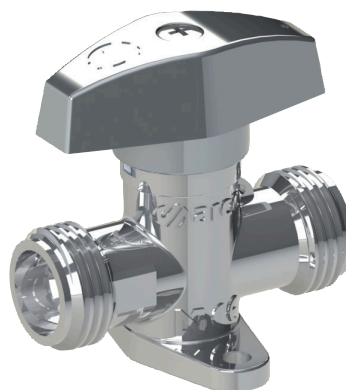




v valve



TECHNICAL SHEET 06/2015 | IP12010

SCOPE

V 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. V series are intended to be installed 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 (see section: Auto-blockage)

V 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. V valves are intended to work with 1st, 2nd and 3rd gas families (according to EN 437)

SERVICE CONDITIONS

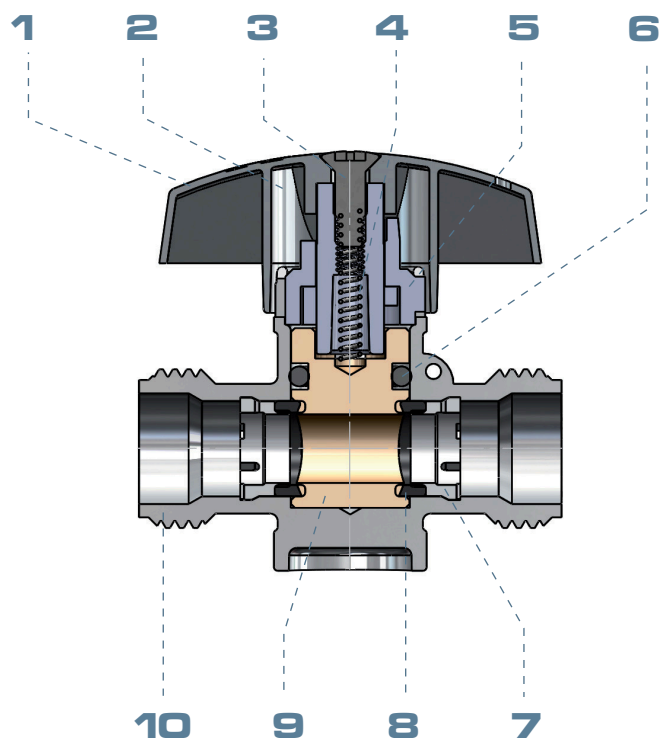
Maximum operating pressure:	MOP 5
Temperature classes:	-40°C up to 60°C
Fluid	1 st , 2 nd and 3 rd family gases according to EN 437



COMPONENTS

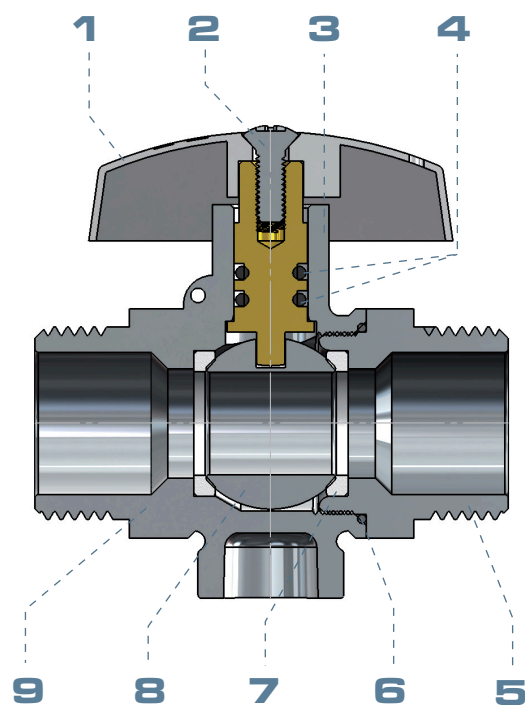
V-82

Item	Component	Material	Treatment
1	Handle	Metal	Chrome plated
2	Stem	Metal	
3	Screw	Brass	Nickel plated
4	Spring	Stainless steel	
5	Washer	Metal	
6	O-ring	NBR (EN 549)	
7	Supporting clip	POM	
8	Seat	NBR (EN 549)	
9	Stem	European Brass CW614N (EN 12164/EN 12165)	
10	Body	European Brass CW617N (EN 12164/EN 12165)	Chrome plated



V-83

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

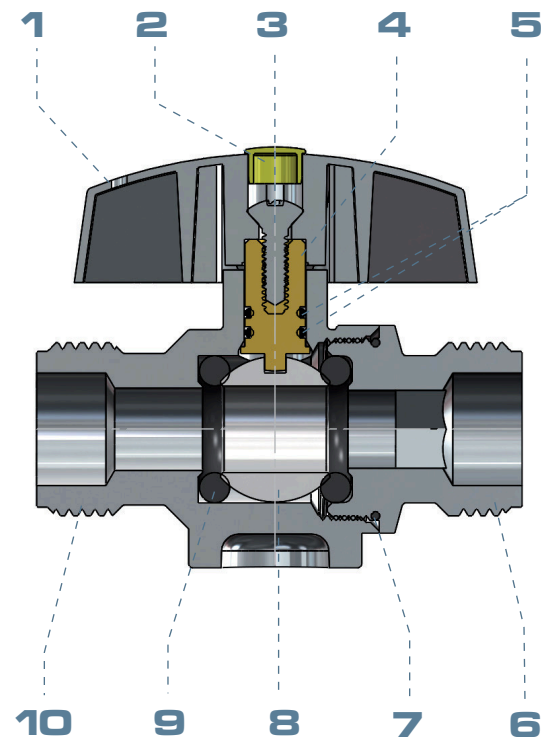




COMPONENTS

V-90

Item	Component	Material	Treatment
1	Handle	Metal	Chrome plated
2	Distinctive	ABS	
3	Screw	Steel	Nickel plated
4	Stem	European Brass CW614N (EN 12164/EN 12165)	
5	O-ring	NBR (EN 549)	
6	Lateral	European Brass CW614N (EN 12164/EN 12165)	
7	O-ring	NBR (EN 549)	
8	Ball	European Brass CW614N (EN 12164/EN 12165)	Chrome plated
9	O-ring	NBR (EN 549)	
10	Body	European Brass CW617N (EN 12164/EN 12165)	Chrome plated



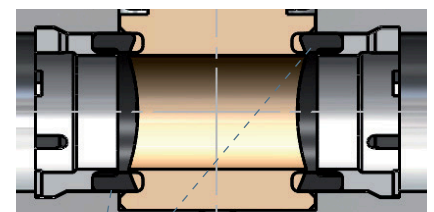
MAIN CONSTRUCTIVE FEATURES

LEAKTIGHTNESS

Internal

V-82 / V-90

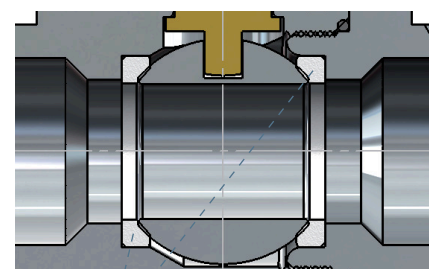
Ball valve leaktightness is guarantee in both directions by the mean of two NBR seats, with a special composition for gas, which press against the sphere.



Seats

V-83

Ball valve leaktightness is guarantee in both directions by the mean of two PTFE seats, which press against the sphere.



Seats



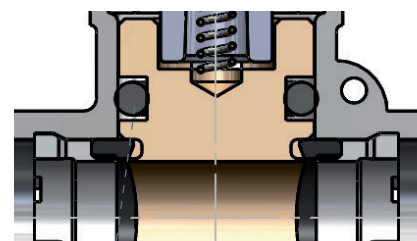
MAIN CONSTRUCTIVE FEATURES

LEAKTIGHTNESS

External

V-82

External leaktightness in the stem area is guaranteed by the mean of o-ring directly assembled to the stem.

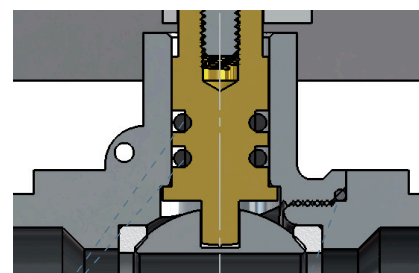


O-ring

V-83 / V-90

External leaktightness in the stem area is guaranteed by the mean of two o-rings directly assembled to the stem.

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.



O-rings

O-ring

BLOCKAGE AND SEALING

V series allows the valve blockage in the close position. The handle includes a sealing hole.

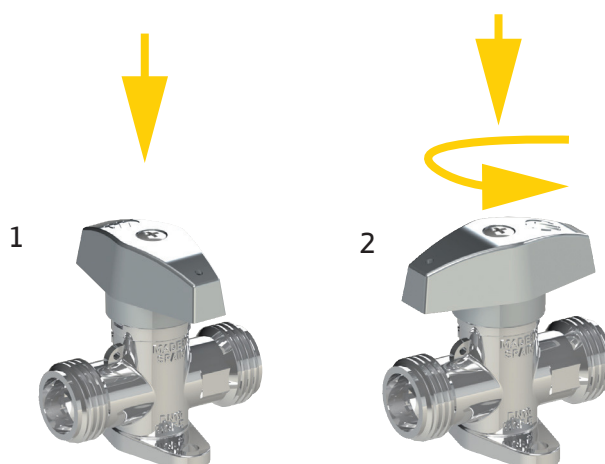


OPERATION

V-82 & V-83 valves have additionally an Auto-blockage function; this system block the valve at closed position avoiding any accidental opening.

To unlock and allow the opening

- 1 Push the handle.
- 2 Turn the handle in a counterclockwise direction to open the valve.



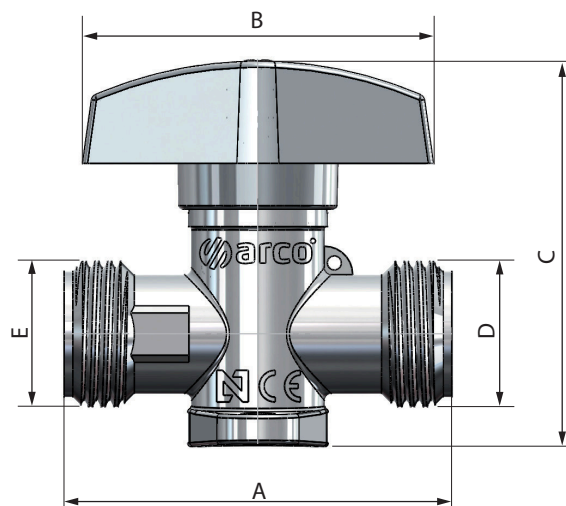


DIMENSIONS

V-82

Measure	A	B	C	D	E
1/2MX1/2M	55	50	54	G 1/2	G 1/2
M20 X 150	55	50	54	M20 X 150	M20 X 150

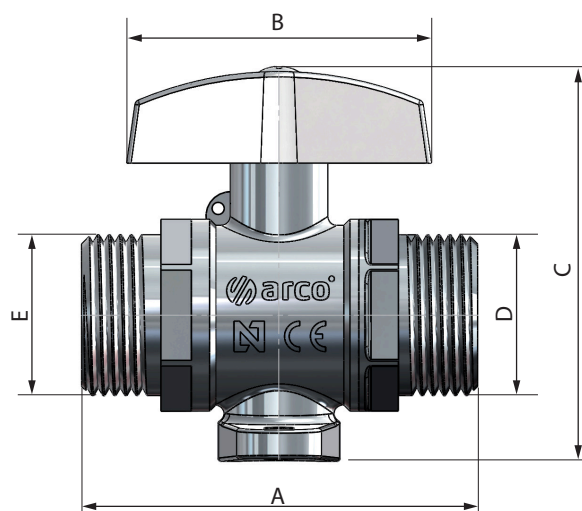
Space between holes: 35



V-83

Measure	A	B	C	D	E
3/4MX3/4M	65	50	62	G 3/4	G 3/4
M20 X 150*	65	50	71	G 3/4	G 3/4

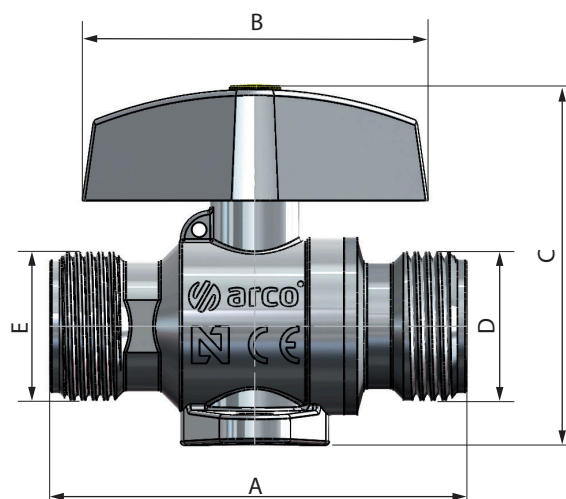
Space between holes: 35 - *Auto blockage system



V-90

Measure	A	B	C	D	E
M20 X 150	56	47	48	M20 X 150	M20 X 150

Space between holes: 35





TEST & CERTIFICATIONS

- N of AENOR certificates according to EN 331.
- 'CE' mark according to the "Constructions Products Regulation" (UE 305/2011).

*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 other 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 counterclockwise.
- 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 performance a full open close maneuver every 6 month.

