



nano VITAQ tap



TECHNICAL SHEET 06/2016 | IPO4030

SCOPE

NANO VITAQ taps are metallic garden taps that incorporate ARCO anti-lime solution already present in other series such as valves A-80, Washing Machine, Mini... This solution minimizes the effect of lime in the valves.

Due to their design and materials are intended to be used in:

- Indoor networks, its reduced dimensions makes it suitable for its use inside the housing (galleries, balconies, parking areas, etc.) as auxiliary tap.
- Outdoor networks, gardening, terrace, balcony, etc. Coupling for hosepipe is available.

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.

NANO VITAQ is a quarter turn tap, allowing great maneuver accessibility in reduced spaces.

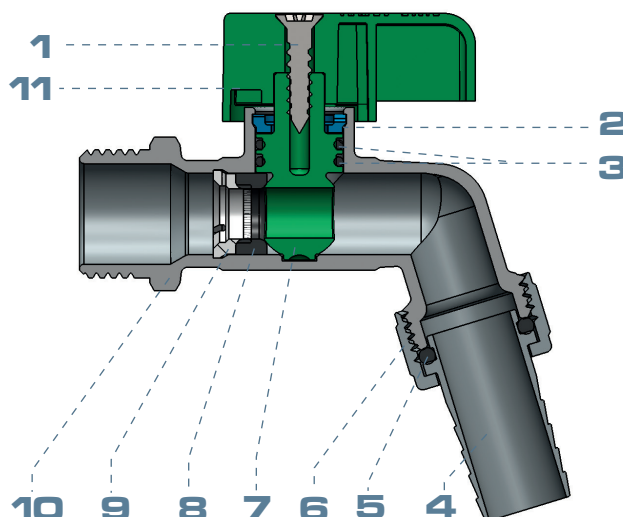
SERVICE CONDITIONS

Nominal pressure:	16 bar
Test pressure:	25 bar
Temperature range:	Cold water
Fluid:	Water intended to human consumption

COMPONENTS

Item	Component	Material	Treatment
1	Screw	Stainless steel	
2	Supporting clip	POM	
3	O-ring	NBR	
4	Coupling	Brass	Nickel
5	O-ring	NBR	
6	Nut	Brass	Chrome plated
7	Stem-ball	Anti-lime polymer	
8	Seat	NBR	
9	Supporting clip	POM	
10	Body	European Brass CW 617N	Chrome plated
11	Handle*	PA with UV protection	Green

* Handle also available chromed.





MAIN CONSTRUCTIVE FEATURES

BODY: MANUFACTURED IN ONE WHOLE PIECE

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.

VITAQ SYSTEM

Stem and ball are manufactured in one whole piece made of anti-lime polymer, which increases its resistance and performance, avoiding lime effects.

This original ARCO's component has been designed to reduce loss of pressure, keeping a constant flow rate and avoiding noise. As well ball-stem's quarter turn system has the same fundamental features of leak tightness and loss of pressure that you can find in the A-80 series.

The anti-lime stem-ball is the perfect solution to prevent lime problems, that can render useless the valve and maintain the flow rate constant along the time, avoiding the lime to adhere, reducing the water flow.

INTERNAL AND EXTERNAL LEAK TIGHTNESS

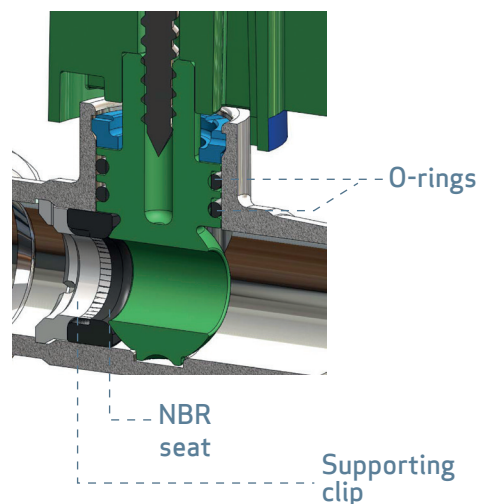
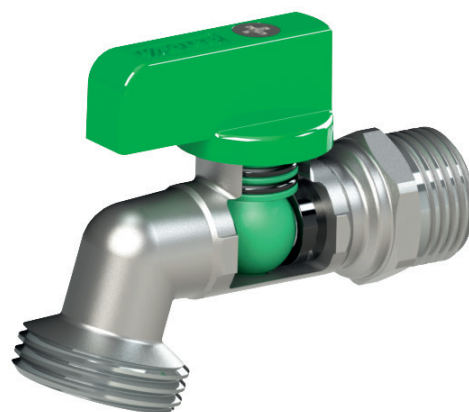
INTERNAL leak tightness

The supporting clip made of POM is placed in the valve to push the NBR seat against the stem-ball, assuring internal leak tightness.

This system cannot be dismantled, avoiding improper manipulations.

EXTERNAL leak tightness

A pair of NBR O-rings placed on the stem assure external leak tightness. This double joint system guarantees safety against external leakage, use, ageing, etc.





DIMENSIONS

Nano VITAQ metallic nozzle

Size	A	B	C	D	E
½Mx½Mø15	35	78	32	G ½ A	G ½ Ax ø15
½Mx¾Mø15	35	78	32	G ¾ A	G ¾ Ax ø15

G. Thread ISO 228

Nano VITAQ plastic nozzle

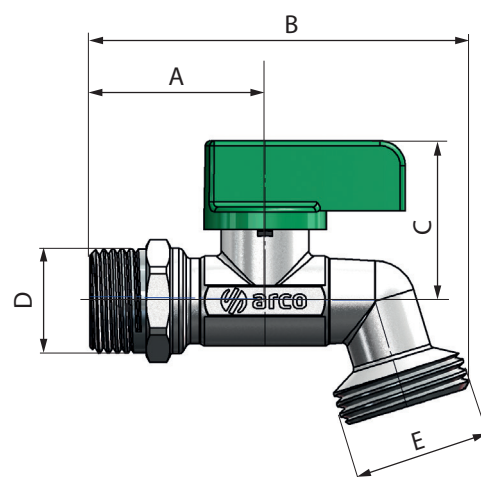
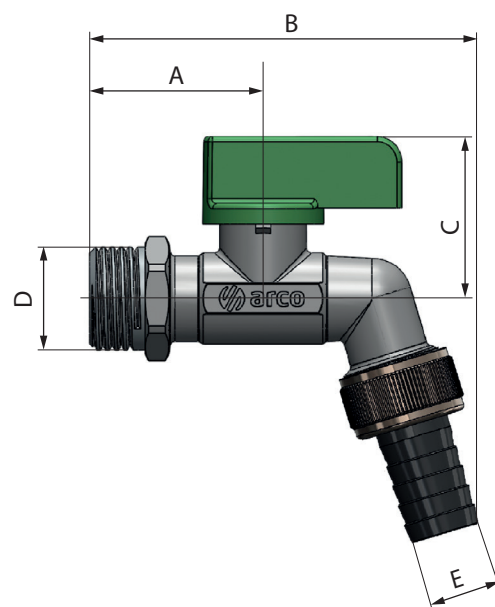
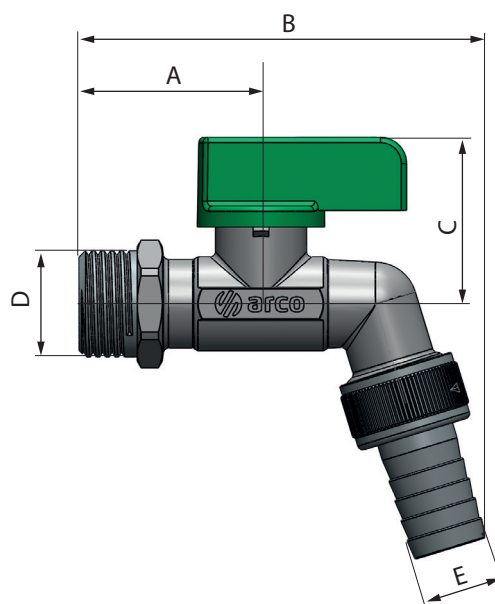
Size	A	B	C	D	E
½Mx½Mø13	35	78	32	G ½ A	G ½ Ax ø13
½Mx¾Mø15	35	78	32	G ¾ A	G ¾ Ax ø15

G. Thread ISO 228

Nano VITAQ NPT

Size	A	B	C	D	E
½NPTx¾HT	76	35	32	1/2 NPT	3/4 HT

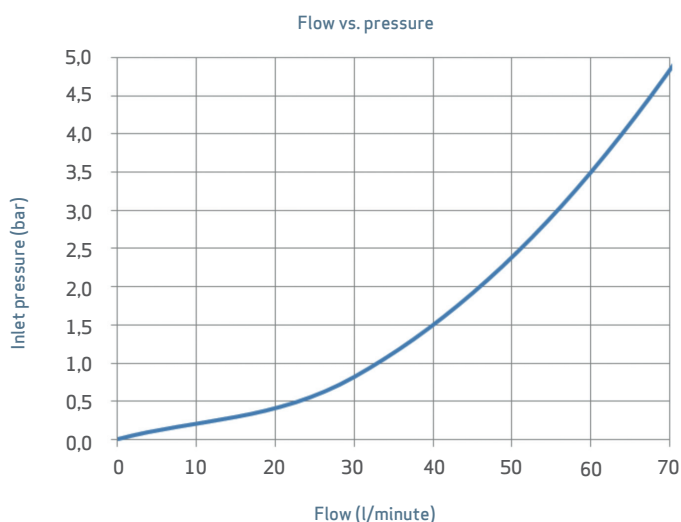
NPT Thread ASME B1.20.1
HT Thread ASME B1.20.7





HYDRAULIC CHARACTERISTICS

NANO VITAQ series have been tested in our laboratory to determine the hydraulic features of flow vs. inlet 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°.

