

Via Enzo Ferrari, 39 Zona Industriale D3 15121 Alessandria, Italy



TECHNICAL SPECIFICATIONS

The Vitop Uno Standard Tap

The Vitop Uno Standard Tap is designed in compliance with the Single Use Plastics Directive as it does not require the consumer to remove the tamper protection, as it has an attached tamper protection. Instead, it is deactivated when the product is first used and remains an integral part of the tap without affecting the subsequent use of the Bagin-Box® product.

This innovative solution eliminates the possibility of the tamper protection plastic ending up in the environment which can happen with detachable tamper protections. After use, the consumer can easily separate the box from the bag with the tap and send them for recycling in accordance with their country's recycling regulations.



As the Vitop Standard Tap, the Vitop Uno Standard Tap is suitable for a wide range of food applications including liquids such as wine, fruit juices, water and edible oils. The taps are generally used with Bag-in-Box (BIB) packaging but are also placed upon stand-up pouches or other containers.

1. Associations with Vitop Spouts

Vitop offers three models of spouts that can be used in association with the Vitop Uno Standard Tap. These are:



Vitop Standard Spout: suitable for a wide range of liquids such as wine, fruit juices and water.



Vitop Ivory Spout: from a high resistance material that is well suited for hot filling, high alcoholic beverages, and other special applications.



Vitop Spout for Aseptic Application Spout: designed to resist high sterilization temperatures for a short period of time

For further details please see our technical specification sheet issued for each Vitop Spout.

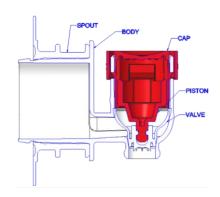
2. Components and Materials

The Vitop Uno Standard Tap is made of four components; see list below for identification.



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COMPONENT	MATERIAL
Body	Polypropylene (PP)
Сар	Polyethylene (HDPE)
Piston	Polyethylene (HDPE)
Valve	Thermoplastic elastomer (TPE)
Spout	Polyethylene (LDPE)



3. Performance

3.1 Weight

The Vitop Uno Standard Tap weighs about: 10.5 ± 0.2 g.

3.2 Colour

Currently colour options include, for the:

- **body:** natural
- Piston and Cap: red, orange, light blue, green.

Vitop can produce other colors on demand, a minimum batch is required.

3.3 Leak proof

Each tap must undergo and pass a tightness test at a pressure of 0.3 Bar on the production lines, before being assembled into the spout.

The Vitop Uno Standard Tap remains fully inserted in its spout up to 0.5 Bar.

3.4 Oxygen permeability

The Vitop Uno Standard Tap has a typical average Oxygen Transmission Rate of around 0.1 cm³ per day, 21% oxygen, 50% relative humidity, measured using a coulometric sensor at our production plant at room temperature (22° ± 2° C).

3.5 Flow rate

The Vitop Uno Standard Tap has a flow rate of about 3,5 L/min (\pm 5 L/min), calculated from the flow rate of 1 L poured from a column of water with measurement taken between 1.5 and 0.5 L levels at room temperature ($22^{\circ} \pm 2^{\circ}$ C).

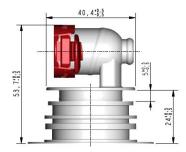
3.6 Overall dimensions

Below is an image of the Vitop Uno Standard Tap inserted into two Vitop Spouts options. This shows the more common critical dimension necessary relative to filling machines; typical dimensions provided for information purposes.

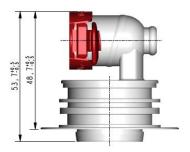


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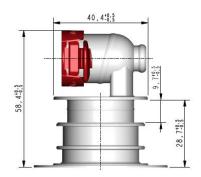
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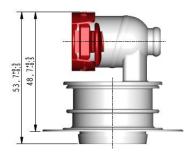
Vitop Uno Standard Tap inserted to 1.5 position with the Vitop Spout for aseptic applications.



Vitop Uno Standard Tap inserted to second (final) position with the Vitop Spout for aseptic applications.



Vitop Uno Standard Tap inserted to 1st position with the Vitop Standard Spout.



Vitop Uno Standard Tap inserted to second (final) position with the Vitop Standard Spout.

3.7 Resistance

The Vitop Uno Standard Tap resists steam sterilization at 100°C for 2 seconds.

Given the complex set of product and process parameters at the filling level (that Vitop cannot control), it is essential that customers first test our Vitop Uno Standard Tap for a specific hot fill application (with their specific product and filling technology) before any commercial launch as Vitop cannot guarantee suitability under all conditions.

According to Vitop experience there is no issue in filling with the Vitop Uno Standard Tap at 80 to 85°C.

Please however also refer to the technical specification relative to the Spout used as its resistance may not be the same as for the Vitop Uno Standard Tap.

After filling, once the bags have been inserted into the boxes, it is strongly recommended to store the bags with the taps facing upwards to reduce bending of the spouts and reduce the risk of stress cracking, especially under high temperature.

The Vitop Uno Standard tap is intended for food applications, and we do not claim that it is suitable for chemicals. Given the complex set of product ingredients and filling and use conditions, Vitop cannot furnish an exhaustive list of compatible or non-compatible chemicals. It is essential that customers test the suitability of the Vitop Uno Standard Tap with their specific product and filling technology, over the expected shelf life, before any commercial launch.

4. Food contact and other statements

The Vitop Uno Standard Tap meets EU and FDA food contact requirements; specific statements for food contact, are provided by

In case of other food requirements are necessary it is mandatory to require them before any commercial launch as Vitop cannot guarantee compliance under all conditions.



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5. Packaging

Units per box: 1000 Vitop Uno Standard Tap.

Pallets: 24 cardboard boxes (24 000 taps in total) – Dimensions 80 x 120 x 230cm Pallets: 30 cardboard boxes (30 000 taps in total) – Dimensions 100 x 120 x 230 cm

Each cardboard box is identified with a proper label and with an identification code that includes the traceability code.

In order to guarantee a correct traceability system, the traceability code must be recorded by bag manufacturers in their production records. Vitop's code must be retrievable when identifying a specific batch of bags with the traceability code used by the bag manufacturer.

6. Storage specification and shelf-life

Store the Vitop Uno Standard Tap only in the original boxes and keep them sealed until use.

In order to prevent damage to the taps or box, no pallet should be stacked on another one, except for a short period of time (example: transport not exceeding 48 hours).

The temperature of the zone where the taps are stocked shall be over 4°C and less than 30°C with relative humidity under 75%. This storage area should be in an inside room that is dry, clean and exempt from odorous or poisonous compounds that could potentially contaminate our product.

The Vitop Uno Standard Tap however should be brought to the temperature and humidity conditions prevailing in the room where they are to be converted into finished packages prior to any conversion. Special care should be taken to avoid microbiological or chemical contamination of our products during the various steps involved in incorporating them into containers.

Vitop suggests to use FIFO stock management.

The period of delivery of the taps by Vitop and their installation on the container by the manufacturer shall not exceed one year. Also, the period between delivery of the taps by Vitop to the container manufacturer and their use by the final consumer must not exceed two years.

7. Filling and fitting information

Filling centers are provided with Bag-in-Box or Stand-Up Pouch containers with the taps partially inserted in the spout.

Depending on the version on the spout, the taps may be placed in a first (preset) position (Vitop Standard Spout) or in an intermediary (1.5) position (Vitop Spout for Aseptic Applications) with the height being determined by the position of the Vitop spout's inner grooves and oriented inside the spout according to the client's requirements.

On inserting the tap inside the spout, the tap must be centered to prevent any damage to either part.

Additionally, in order to prevent damage to the tap during uncapping and insertion, Vitop recommends to pull up and to push down on the round back-plate of the body rather than on the top of the tap.

Vitop suggests to keep pallets in the production department at least 24 hours in advance to make sure that operations with Vitop taps and spouts will be carried out at room temperature (22° ± 2°C).



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On inserting the tap inside the gland push down on the round back-plate of the body.

8. Responsibility

The information provided above is supplied in good faith and it does not comprise a guarantee or warranty of any kind either expressed or implied. This data should be considered as average typical properties observed rather than a guaranteed specification.

It is the customer's responsibility to test the suitability of these products for its specific application.

Vitop cannot be considered responsible for any improper use of its products by the buyer and/or the final consumer and assumes no liability for any incidents that may arise from the use of this data.

As the regulations and products mentioned in this statement change over time, Vitop advises its customers to ask for a new declaration periodically.

Food contact compliance letters are available upon request.

It is the responsibility of the end user to assure compliance with any packaging regulations applicable to the end use for which the product is manufactured.

This declaration cancels any previous version.