



ICS 610 INLINE CARBONATION SYSTEM ...

...for reliable and quick low capacity carbonation

Especially for production of small batches, carbonation systems are a major expense factor. For this application, the ICS 610 is the ideal solution. This carbonation system is built directly into the beverage line. It automatically adds the correct amount of carbon dioxide to the beverage.

The ICS 610 is designed especially for spritzers, sparkling wines, table waters and mixed beverages. A most remarkable feature of the device is the "elegant" solution of the carbon dioxide in the beverage.



The ICS 610 is designed for every particular customer specification. It can be placed directly before the filler (requiring a small buffer tank) or, better, between two tanks. (The target tank must be pressurized for the CO₂ to stay dissolved.)

The rated diameter can be selected as well as the pipe connections.

The device works purely pneumatically and doesn't need any electric energy supply. The desired carbon dioxide concentration is set directly at the device itself. If product flow drops below a minimum flow rate, the device is automatically deactivated. When the product flow increases, carbonation is activated again.

The ICS 610 is made of high-grade materials which are approved by food and beverage industry standards. The device is designed for CIP.

BENEFITS:

- Customer-specific rated diameter and pipe connectors of device and mixing stage
- Low investment costs
- Reliable precision of dosing
- Designed for CIP
- Carbonation proportional to product flow
- Easy operation
- Automatic activation / deactivation
- No electric energy supply necessary

OPERATION:

A feed pump (not included) presses the beverage through a built-in Venturi pipe where the desired amount of CO₂ is added. The CO₂ bubbles dissolve in the downstream mixing stage.

Within operating range, CO₂ dosing is largely independent from the product flow rate.

TECHNICAL DATA:

Flow rate: 1.000 - 10.000 l/h
(depends on injector size) (265 – 2650 gal/h)

CO₂ concentration: 0 - 6 g/l / 0 – 3 vol
(continuously variable, temperature-dependent)

Required feed pump pressure: ≥ 6 bar / 87 PSI

Maximum operating pressure: 10 bar / 145 PSI

CO₂ supply pressure: 10 bar / 145 PSI

Dimensions (HxWxD) in mm: 150 x 295 x 100
inch: 5.9 x 11.6 x 3.9

Dimension of mixing stage [mm]: Ø 80 x 210
[inch]: Ø 3.2 x 8.3

Rated diameter: DN 40 or DN 50

Pressure loss: approx. 3–3.5 bar
(43 – 50 psi)

Minimum flow rate: approx. 2/3 x rated flow

Steinfurth, Inc.

305 Etowah Trace • Suite 102 • Fayetteville, GA 30214
Phone: (678) 674 1096 • Fax: (678) 674 1097
e-mail: info@steinfurth.com
Internet: www.steinfurth.com

Steinfurth Mess-Systeme GmbH (Germany)

Bonifaciusring 15 • D-45309 Essen
Phone: +49 (201) 85517-0 • Fax: +49 (201) 85517-20
e-mail: info@steinfurth.de
Internet: www.steinfurth.de