

Aseptic Carbonation for Beverages

Exact Dosage with the Carbonating Jet Pump

 Innovative Engineering –
Quality in Line.



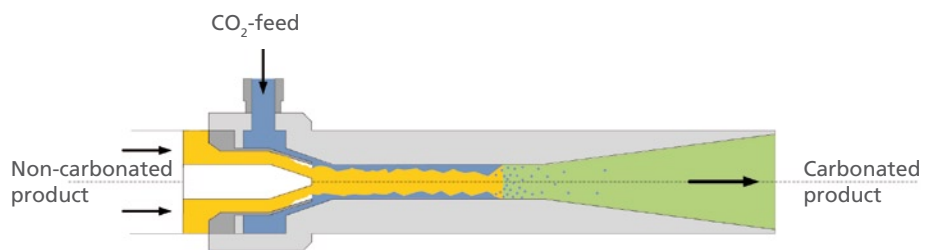
Aseptic Carbonation for Beverages



The aseptic carbonation unit can be easily integrated into existing or newly planned process lines, especially if the product is also de-aerated.

Carbonation with GEA TDS at a glance
A special carbonating jet pump minimizes the gushing effect
Aseptic carbonation offers many advantages
Exact dosage, simple operation
Exact measurement of results in the product
Compact, hygienic assembling unit
Easy to integrate into the overall concept
CIP cleaning

In contrast to the non-aseptic process, the carbonation will be operated after the heater. The heater unit does not have to be pressure resistant in this case. The capacity will be adapted to the flow capacity of the process line. The carbonation is operated as by-pass and is automatically CIP cleanable. The production of premium beverages benefits from an extremely exact dosing technology and the very fine distribution of CO₂ – achieved by a special carbonating jet pump. This specially designed carbonating jet pump works on the principle of injection and minimizes the gushing effect in filled bottles. The achieved total CO₂ concentration in the beverage is 9 g/l product at a maximum product temperature of 18 °C.



Carbonating jet pump (schematic diagram)



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