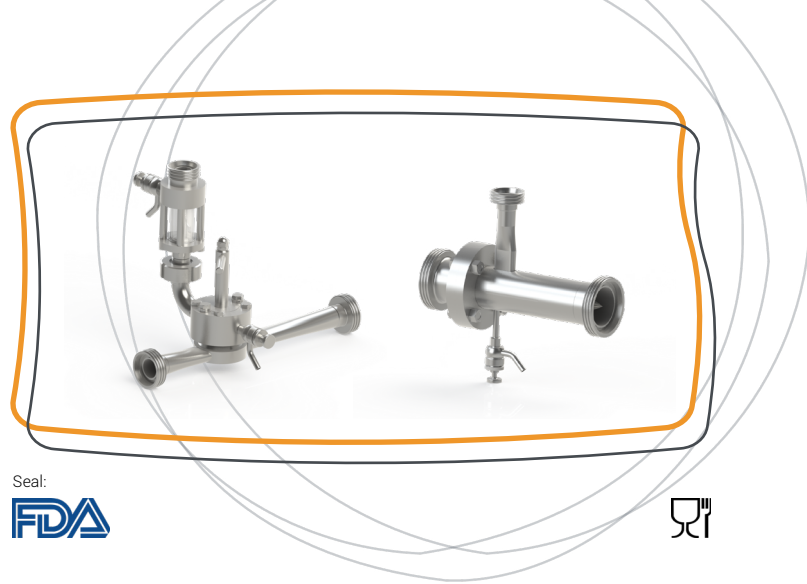


AE[®]

Carbonators - in-line gas introduction for clear liquids



Presentation

The AE carbonator is designed to inject a gas into a clear liquid in line. The gas is introduced into the carbonator through a side inlet and diffused into the liquid through a porous disc (version A) or an injection sleeve perforated with calibrated holes (version D). The particular profile of the carbonator optimises the dissolution of the gas in the product and limits the expansion of the saturated liquid at the equipment outlet. The AE carbonator is fitted with welding male parts on the liquid inlet and outlet, and on the gas inlet. A drain cock on the injection chamber allows the cleaning solution to be evacuated from the chamber when the line is cleaned. The rate of gas saturation of the liquid is determined by the flowrate, the temperature of the liquid and the gas pressure. There are a number of supports available for determining these values according to the level of saturation required.

The AE carbonator can be integrated into a XAE-type assembly incorporating automatic adjustment and in-line measurement control.

Key features

- In-line carbonation (if CO₂ is injected) or in-line decarbonation (if nitrogen is injected)
- Injection of gas into the centre of the liquid flow
- Version available for wort aeration
- Minimised desaturation after injection

Applications

- On circuits conveying clear liquids
- Beer, carbonated beverages, milk (dairy) and water (fish farming)

Technical features

Sizes:

SMS: 38 mm (1.1/2"), 51 mm (2"), 63.5 mm (2.1/2"), 76.1 mm (3") and 104 mm (4")

DIN 11851: DN 15, DN 20, DN 25, DN 40, DN 50, DN 65, DN 80 and DN 100

Connection: Male

Gas connection size: DN 20 for standard DIN 11851, DN 25 for standard SMS

Operating pressure: Up to 6.0 bar
Operating temperature: from 1°C to 120°C

Materials

- Parts in contact with the product: Stainless steel 1.4404 (316L)
- Other parts: Stainless steel 1.4301 (304L)
- Sealing in contact with the product (type CFB252 made by us): EPDM (Ethylene Propylene Diene Monomer)

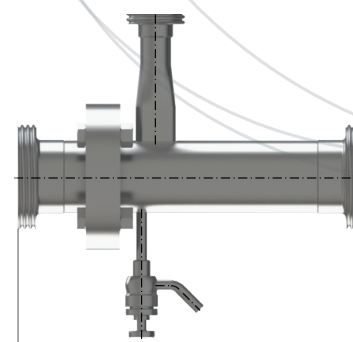
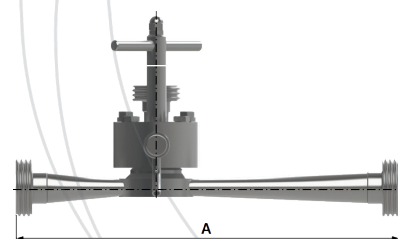
We recommend that you fit a non-return valve with a drain on the gas inlet so that the inlet side connection can be cleaned.

Dimensions in mm

DIN sizes	Length A (mm)
DN 15	250
DN 20	340
DN 25	350

DIN sizes	Length B (mm)
DN 40	20
DN 50	260
DN 65	374
DN 80	510
DN 100	760

SMS sizes	Length B (mm)
38 mm	200
51 mm	245
63.5 mm	380
76.1 mm	474
104 mm	764



Options

- Wort aeration version
- Other types of connection
- Other grades of manufacturing materials
- Made-to-measure equipment

Warranty

12 months as from the date of dispatch (except for special conditions)

Conformity

- Pipe fitting and tank compliant with Paragraph 4.3 of the PED 2014/68/EU.
- Elastomer membranes compliant with FDA CFR 21.177.2600 and Regulation (EC) 1935/2004.

*Non-contractual document and visuals, subject to change without notice.
Only the commercial offer and the technical manual supplied with the equipment may be used for technical and legal purposes.*