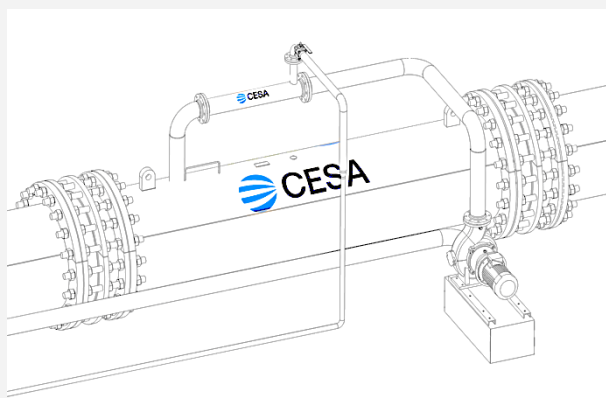


CESA CO₂ STATIC MIXER SYSTEM

Inline dissolution of CO₂ for stable pH control and remineralization

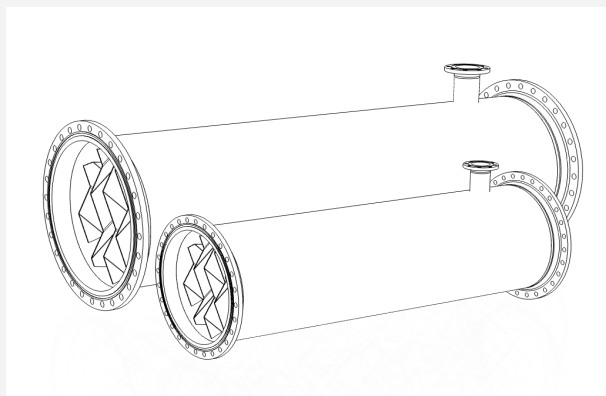


CESA CO₂ Static mixer system

Two-stage concept: CO₂ is fully dissolved in a controlled sidestream, then homogenized in the main line.

- Diverts 5-15 % of the main flow into a controlled sidestream.
- Fully dissolves CO₂ before returning it to the main line.
- Achieves 93-98 % dissolution efficiency.
- Ensures uniform CO₂ distribution, precise dosing, and stable pH.

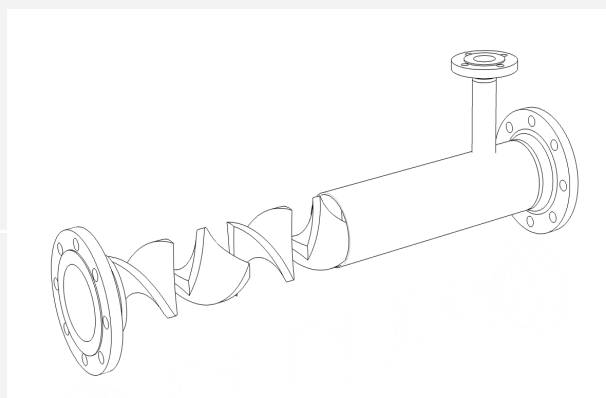
(CO₂ pump is out of scope)



Mainstream Mixer

Installed directly in the main water line.

- Mixes CO₂ evenly across the full flow.
- High efficiency, no moving parts.
- Ideal for large or constant flow systems.
- Corrosion-resistant (AISI 316L/316TI).



Sidestream Mixer

A partial flow is diverted, mixed, and returned.

- Enables fine dosing and stable control.
- Lower gas pressure required.
- Easy installation and maintenance.
- Suited for smaller or variable flow systems.

SIZE RANGE	DN 25 TO DN 1800
MAX OPERATING PRESSURE	PN10 / PN25 (HIGHER ON REQUEST)
MEDIUM TEMPERATURE	0 °C ... +60 °C (OPTIONS UP TO +90 °C)
MATERIAL	1.4404 (AISI 316L) / 1.4517 (AISI 316TI)
CONNECTIONS	FLANGES EN 1092-1 PN16/PN25 OR ASME B16.5 CLASS 150/300.
QUALITY	PED 2014/68/EU CONFORMITY, HYDROTESTED; EN 10204 3.1 MATERIAL CERTIFICATES