# Complete solutions for the starting area for alcoholic beverages

### 1. Alcohol mass metering system (spirit concentration meter)

- to determine the amount of excise duty due
- complete unit installed on a base frame
- possible for all ranges of flow rate

### 2. Reception system for alcohol/water mixtures

- reception from tankers
- determination of excise duty due
- determination of the mass of alcohol/water
- determination of the proportion of pure alcohol
- flow rate of up to 60,000 l/h possible
- use as a counterchecking device for verification purposes

### 3. Blending system for alcohol/water mixtures, type DIVA™

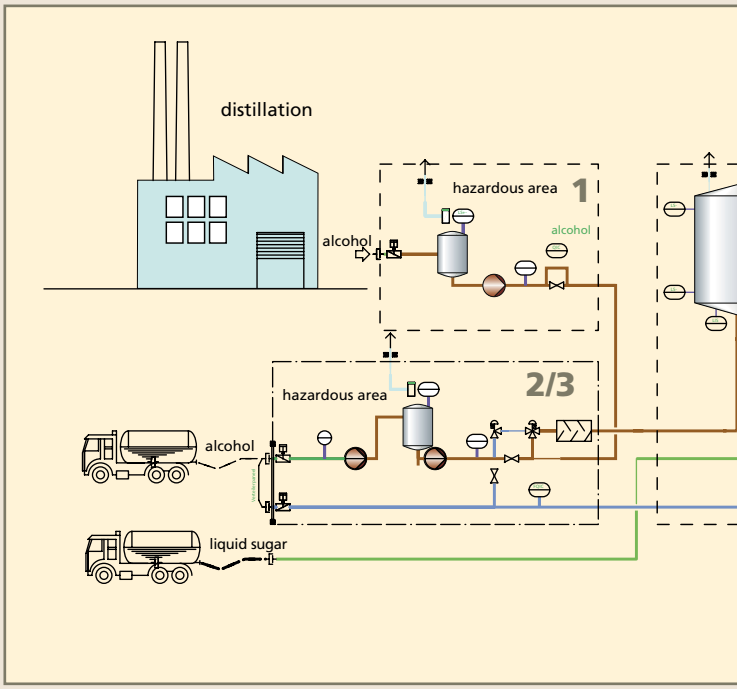
- reception of alcohol/water mixture
- automatic concentration measurement (better than 0.1% vol.)
- preselection of final concentration
- data capture and data transfer possible

### 4. Water deaeration system, type DIOX™

- preparation of high-quality beverage water
- minimisation of oxidation in the beverage
- reduction of residual oxygen to under 0.05 ppm possible
- minimisation of foaming during filling

### 5. Filtration systems

- continuous filtration
- batch filtration
- particle filtration
- sterile filtration




### 6. Equipment for storage tank facilities

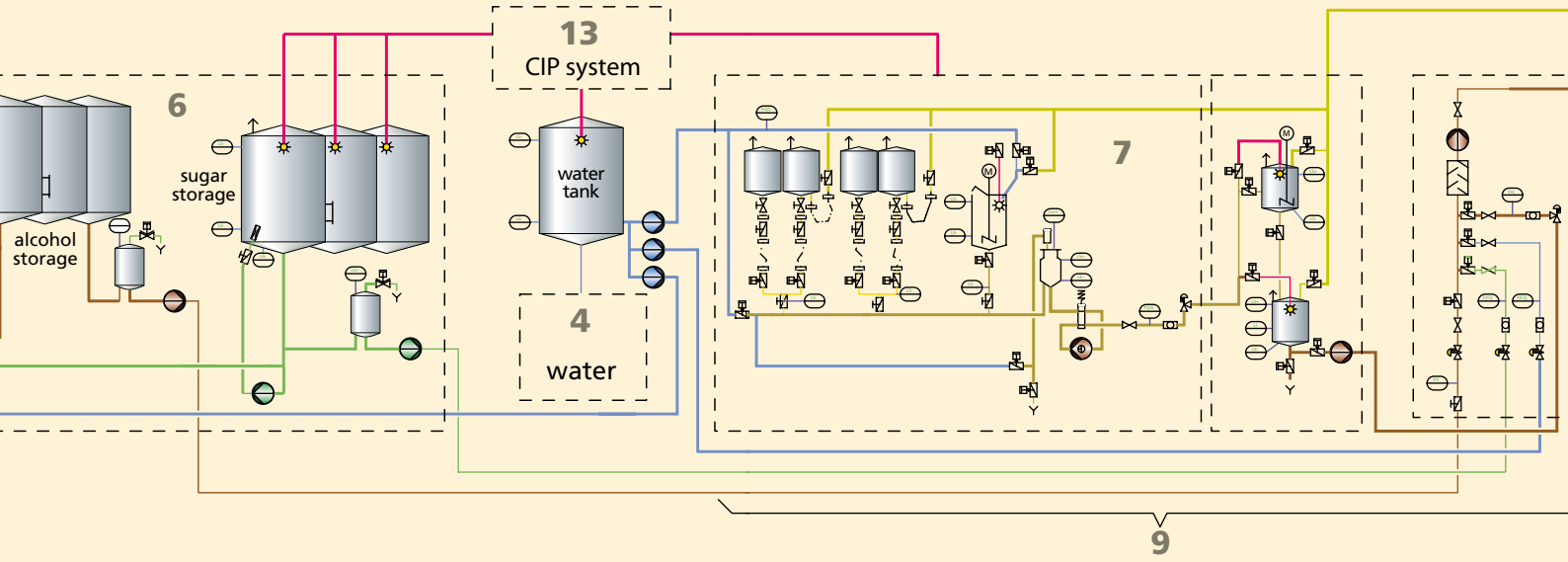
- storage tank for product
- sterile tank for liquid sugar
- CIP tank
- concentrate starter tank with catwalks and working platforms
- automatic valve manifolds

### 7. Batch mixing system, type DIMA™

- batch mixing
- flow rate up to 10,000 l/h
- one measuring device for all components
- 12 components in the standard version
- high mixing precision
- recipe memory and automatic running of program sequence

### 9. Combined blending system, type DIKO™

- syrup made available quickly
- uninterrupted production
- starting quantities directed towards a predetermined production volume
- small tank volumes
- quick and easy to clean (cleaning possible between batches)
- extremely low syrup losses
- high flow rate, thanks to the combination of batch and in-line processes




### 8. Continuous in-line blending system, type DICON™

- in-line blending process
- no mixing tanks required
- flow rate up to 30,000 l/h; other ranges possible on application
- compact arrangement, requires little space
- automatic control with recipe memory

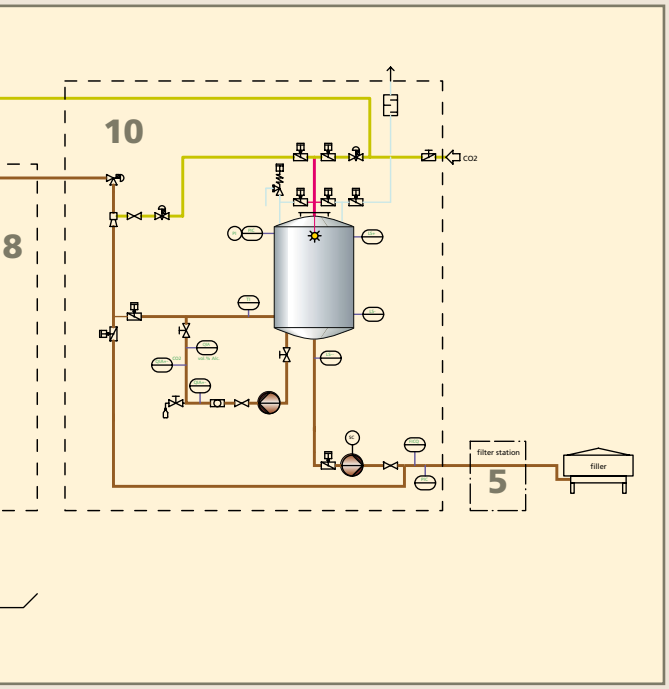
### 10. DICAR™ carbonation and beverage analysis

- $CO_2$ dosing, measurement and correction in the finished beverage
- beverage analysis before the start of production
- $CO_2$ content automatically determined through recipe memory

### 11. Mobile metering units

Particularly suitable for small or medium-sized production facilities. Depending on the version, different metering tasks can be carried out:

- flow metering
- volume dosing with preselection of quantities
- batch mixing using several component valves
- filling control




### 12. Product tracing for internal documentation by means of

- determination of volume in the filler line
- determination of consumption of individual basic ingredients, concentrates, syrup, beverage water and alcohol/water mixture
- documentation and storage of analysis values
- determination of storage capacities by measurement of tank contents
- storage of available basic ingredients and concentrates

### 13. Cleaning system, type DICIP™

- available with one or more circuits, depending on requirements
- flexible program control allows precise adaptation of the cleaning procedures to the task in hand
- cleaning media are largely recuperated, for greater economy

## Automation and after-sales service

### GEA Diessel offers you

- electronic process control systems
- visualisation systems
- measurement and control systems
- analysis systems
- programmable controllers, training courses, execution specifications, remote diagnosis, planning, on-the-spot maintenance and consultancy. Try us!

*Metering technology for the filler lines*