

Chemical injection packages

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Our partners

Since 1979, Geveke Pompen has supplied thousands of pump packages to a wide range of customers worldwide.

Geveke is a technical trading company founded in 1874 in Amsterdam by Lodewijk Geveke. Geveke, still based in Amsterdam, consists of a group of companies that provide technical goods and services to process customers worldwide.



Reliable and efficient solutions

Geveke Pompen provides custom build packages for the international oil and gas industry both upstream and downstream. Based on vast application know-how and a long-term partnership with leading manufacturers, we can provide high quality systems for all kinds of applications.



People, planet and profit

With a focus on doing business in a responsible and sustainable way, Geveke always tries to find a balance between people, planet and profit. Therefore Geveke takes into account the impact of its operations, products and services on the environment, both inside and outside the company.

Our activities

- Consulting
- In-house engineering and design
- Project management
- Assembly
- Factory acceptance testing
- Equipment supply
- Start up and commissioning
- Service and maintenance
- Support by aftersales



Our clients

- Oil & gas production
- Petrochemical industry
- Refineries
- Chemical industries
- Engineering contractors



Photo courtesy of SBM



Chemicals injected include (but not limited to):

- Amine
- Anti-foam
- Asphaltene inhibitor
- Biocide
- Corrosion inhibitor
- Demulsifier
- Ethanol
- H₂S scavenger
- Hydrazine
- LDHI
- MEG, DEG and TEG
- Methanol
- Morpholine
- Oxygen scavenger
- Phosphate
- Poly electrolyte
- Pour point depressant
- Scale inhibitor
- Sodium hypochlorite
- Wax inhibitor
- Xylene

Basis of design

The design for each chemical injection package is based on project specifications and international codes and standards. Our project engineers and draftsmen are in close contact with engineers from our customers to design each package to their requirements. A 3D model is the basis for the production and final assembly of the unit.

The chemical injection packages are built around world class plunger and diaphragm type injection pumps; these form the heart of each package. These pumps can be powered by electric motors, instrument air, wellhead gas, or solar energy.

Tanks, piping, valves, mixers, instrumentation, control panels, and other components are matched for reliable operation.

Geveke Pompen chemical injection packages can be designed to comply with international standards as API, ASME, ANSI, BS, DIN, PED, IECEx, ATEX etc.

We meet the requirements of third party and/or authority inspection companies such as ABS, Lloyds Register, Bureau Veritas and DNV.

Service and testing

All components are individually tested and certified. A further functional test of the complete package will validate the proper operation of the unit.

Our own experienced service staff is available 24 hours a day, 7 days a week. Expert service, product support and prompt spare parts supply guarantee operational continuity of your production.

Management structures

Our QA/QC system meets ISO 9001:2015 requirements, IECEx 03 & 05, and is LRQA certified. The HSE system according to SCC* (VCA* 2017/6.0) is for a safe operation on your site.

Working principle

For chemical injection, the packages can be supplied using electric, air, gas and solar powered pumps for either safe- and hazardous areas. The pumps of the chemical injection package can be both plunger or diaphragm type, depending on chemical properties, operational or environmental considerations.

The package design is determined by the properties of the fluids, flow rates, operating pressures and tank volumes. All packages are designed as a fully integrated unit and can be provided with atmospheric tanks, pressure vessels or tote tanks. For process lines either tubing or piping can be used.

These packages can be supplied in materials as SS316, Hastelloy, Titanium or GRP, CPVC, PVDF and PTFE lined carbon steel. Typical design pressures are 6,000 and 10,000 psi. Higher pressures are available when required. All packages have easy access for operation and maintenance, due to attention for human factor engineering.

Chemical injection packages

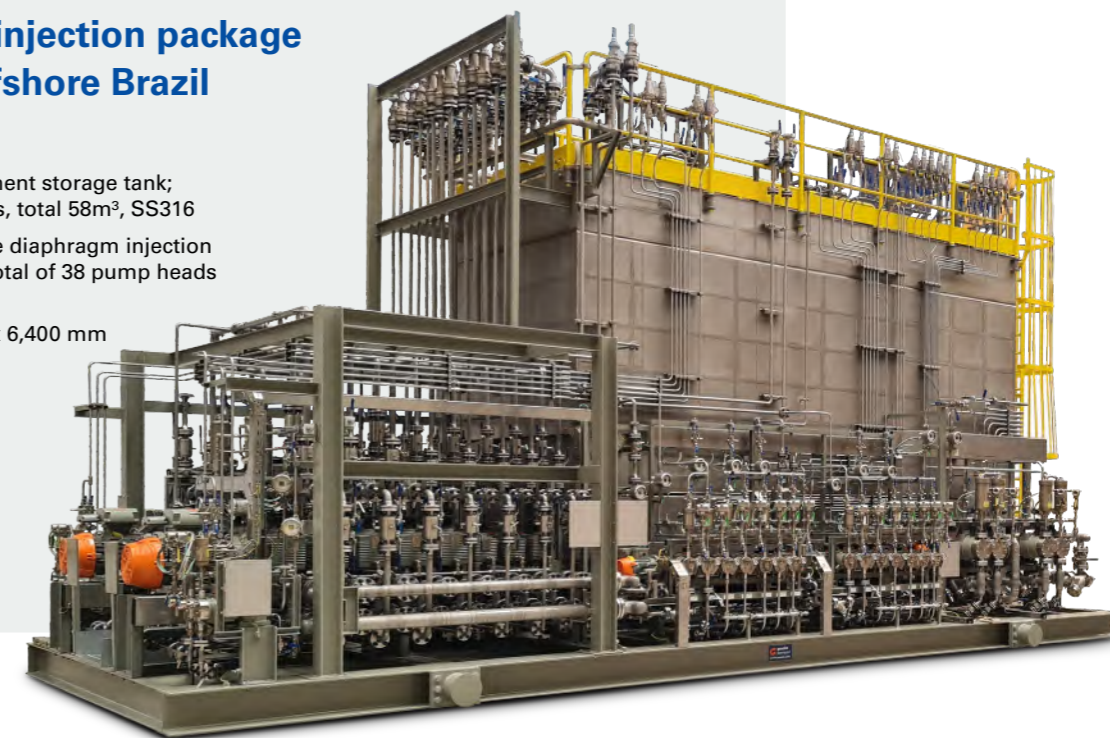
Chemical injection package – FPSO offshore Brazil

- Storage tank; 22m³, SS316
- 11 API675 double diaphragm injection pumps with a total of 43 pump heads
- 2 decks for space efficiency
- Dimensions:
14,700 x 3,900 x 4,800 mm (L x W x H)
- Weight: 58T



Chemical injection package – FPSO offshore Brazil

- Multi-compartment storage tank;
5 compartments, total 58m³, SS316
- 8 API675 double diaphragm injection pumps with a total of 38 pump heads
- Dimensions:
11,000 x 4,300 x 6,400 mm
(L x W x H)
- Weight: 49T



Chemical injection package – FPSO offshore Brazil

- Multi-compartment storage tank; 3
compartments, total 85m³, SS316
- 7 API675 double diaphragm injection
pumps with a total of 51 pump heads
- 3 decks for space efficiency
- Dimensions:
9,300 x 5,600 x 7,000 mm (L x W x H)
- Weight: 67T



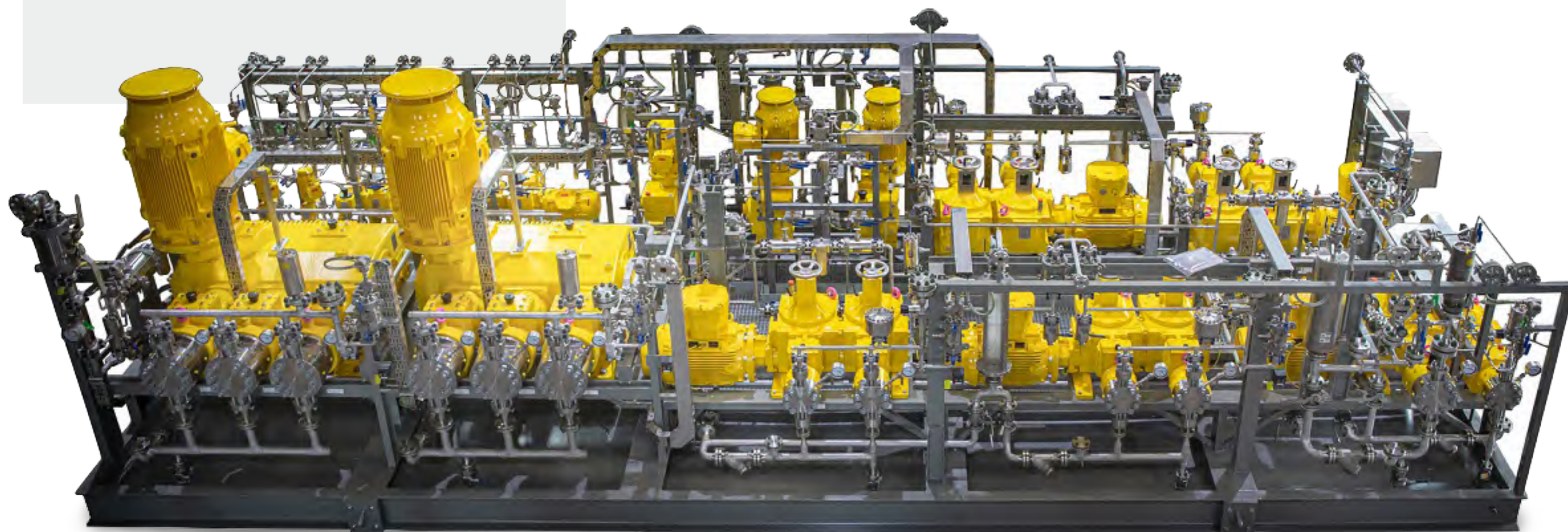
Chemical injection package – FPSO offshore Guyana

- Multi-compartment storage tank;
5 compartments, total 51m³, SS316
- 8 API675 double diaphragm injection
pumps with a total of 20 pump heads
- Dimensions:
9,500 x 3,750 x 5,022 mm (L x W x H)
- Weight: 23T



Chemical injection package – FPSO offshore Guyana

- 14 API675 double diaphragm injection pumps with a total of 23 pump heads
- Dimensions: 10,500 x 4,000 x 3,100 mm (L x W x H)
- Weight: 36T



Distribution racks

Chemical dosing package for water treatment – FPSO offshore Brazil

- Multi-compartment tank;
7 compartments, total 34m³, SS316
- One vessel; 3.5m³, GRP
- 16 API675 double diaphragm
injection pumps with electric
stroke adjustment
- Dimensions:
10,000 x 5,000 x 4,850 mm
(L x W x H)
- Weight: 30T



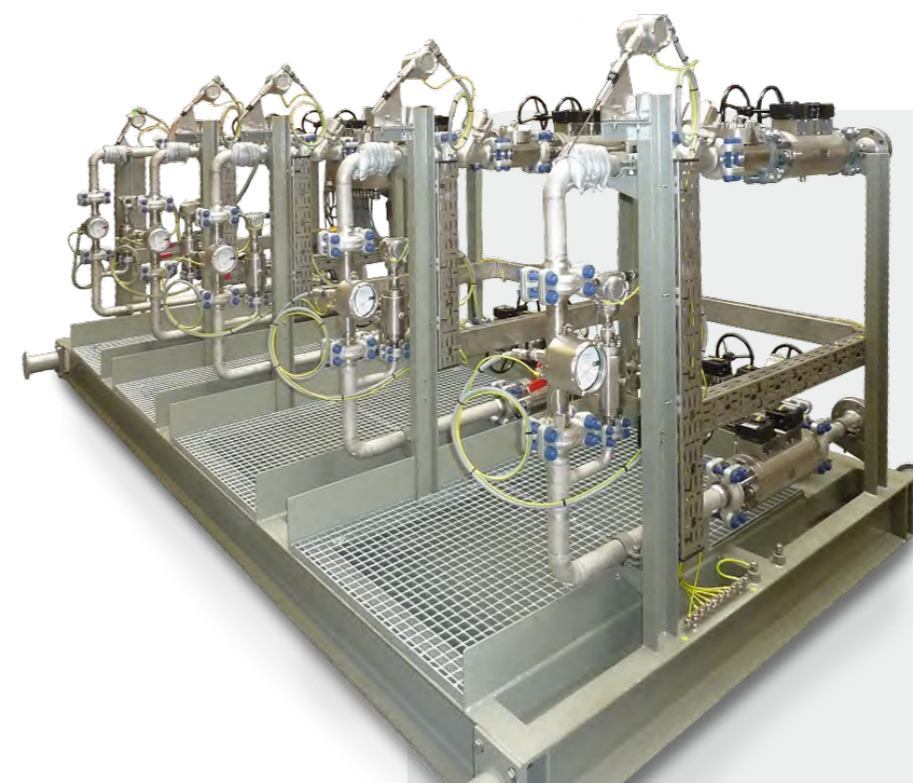
Subsea chemical distribution rack – FPSO offshore Guyana

- 6 chemical lines with one universal spare
- 10,000psi piping with hub and
clamp connections
- Manual flow control
- Dimensions:
7,000 x 2,500 x 2,450mm (L x W x H)
- Weight: 5T



Subsea methanol and xylene distribution rack – FPSO offshore Guyana

- 10,000psi piping with hub and
clamp connections
- 1 inlet methanol and 3 outlets
- 1 inlet xylene and 2 outlets
- 1 spare line interchangeable with
methanol and xylene
- Dimensions:
5,000 x 2,400 x 1,800 mm (L x W x H)
- Weight: 6.5T



Methanol/ MEG/ ethanol injection packages

Methanol injection package – FPSO offshore Guyana

- 2 API675 double diaphragm injection pumps with a total of 6 pump heads
- Each pump has been provided with a closed cooling system
- Capacity control via Variable Speed Drive
- Dimensions: 7,000 x 3,500 x 3,300 mm (L x W x H)
- Weight: 28T



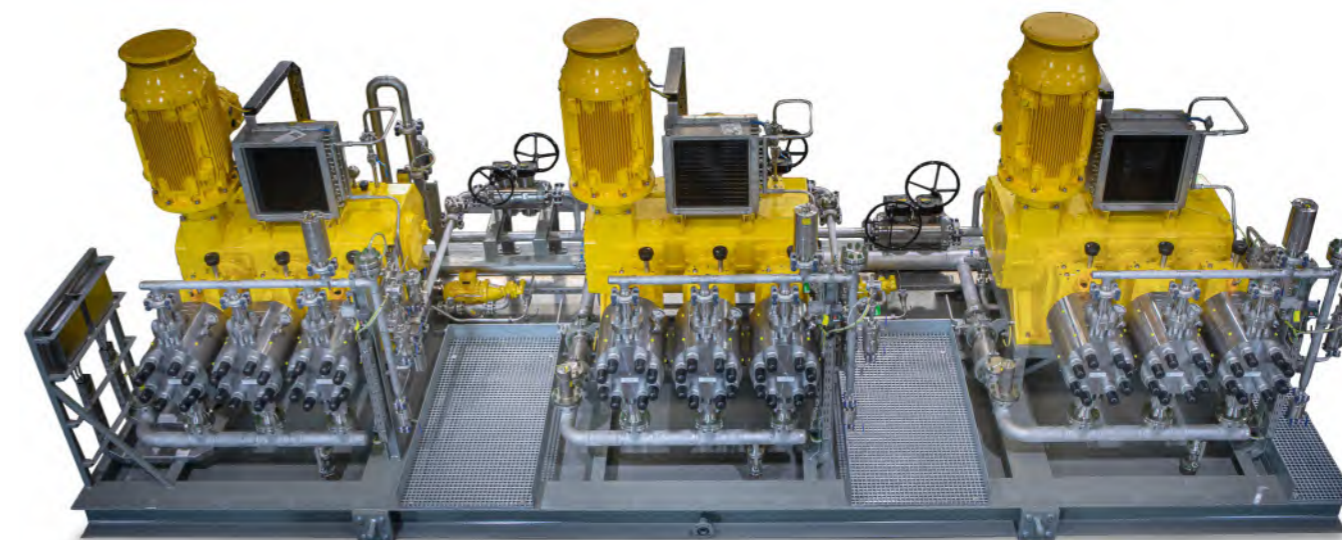
Methanol injection package – FPSO offshore Guyana

- 3 API675 double diaphragm injection pumps with a total of 9 pump heads
- Each pump has been provided with a closed cooling system
- Capacity control via Variable Speed Drive
- Dimensions: 9,500 x 3,500 x 3,300 mm (L x W x H)
- Weight: 43T



Subsea ethanol/ MEG injection skid – FPSO offshore Brazil

- 3 API675 double diaphragm injection pumps
- Each pump has been provided with a closed cooling system
- Capacity control via Variable Speed Drive
- Dimensions: 8,000 x 3,700 x 2,600 mm (L x W x H)
- Weight: 25.5T



Corrosion inhibitor injection packages

Corrosion inhibitor injection package – onshore Nigeria

- 2 9m³ storage tanks
- 2 API675 injection pumps
- For corrosion inhibitor injection in gas pipe lines
- Dimensions: 7,500 x 3,500 x 2,400 mm (L x W x H)
- Weight: 12T



Hydrate inhibitor injection packages

Hydrate inhibitor injection package – onshore Nigeria

- Triplex API675 injection pump
- 2.75m³ storage tank
- Including gravity filling facility by tote tanks
- Dimensions: 4,700 x 2,400 x 4,660 mm (L x W x H)
- Weight: 8T



Corrosion inhibitor injection package – offshore Brunei

- 2 API 675 double diaphragm triplex injection pumps
- Coated AISI 316 base frame
- Dimensions: 3,000 x 2,800 x 2,260 mm (L x W x H)
- Weight: 6.5T



Biocide injection package – offshore Brunei

- Coated atmospheric storage tank, 28m³, SS316
- Two API675 injection pumps
- Coated SS316 piping
- Dimensions: 6,250 x 3,000 x 4,500mm (L x W x H)
- Weight: 11.5T

Sodium hypochlorite injection packages

Sodium hypochlorite injection package – FPSO offshore Brazil

- GRP with PVC storage tank, 0.75m³
- 2 API675 double diaphragm injection pumps, Titanium pump heads
- Multi-point injection systems, fully Titanium
- Dimensions: 2,000 x 2,000 x 1,960 mm (L x W x H)
- Weight: 1.3T



Sodium hypochlorite injection package – FPSO offshore Nigeria

- GRP tank, 4.5m³
- 2 API675 injection pumps with Titanium pump heads and level gauge
- CPVC process lines
- Dimensions: 5,050 x 2,200 x 3,207mm (L x W x H)
- Weight: 3.6T



Sodium hypochlorite injection package – FPSO offshore Angola

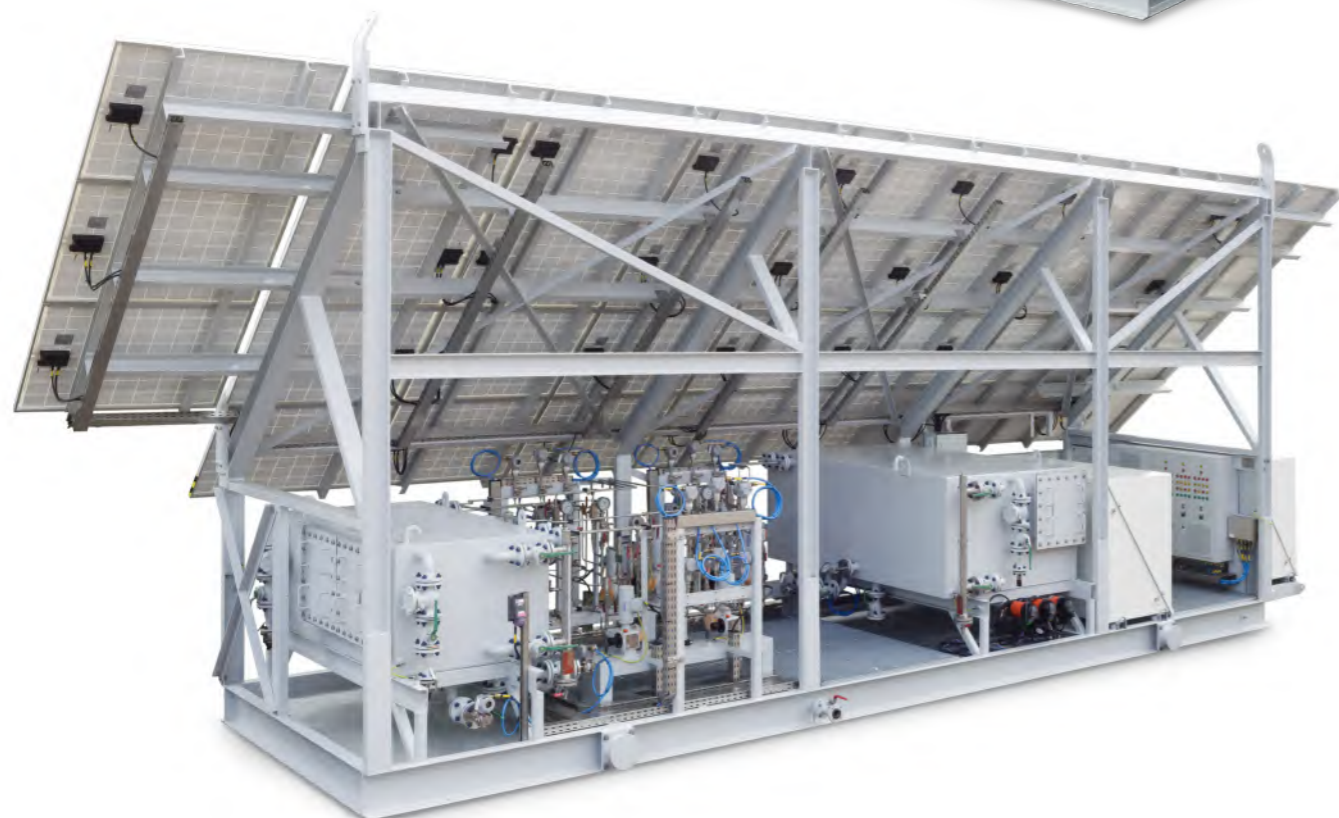
- PTFE lined carbon steel piping and GRP storage vessel
- Double diaphragm pumps, Titanium pump heads and wetted parts
- All components are PTFE lined carbon steel, Coriolis mass flow meter with Titanium wetted parts
- Dimensions: 3,700 x 2,050 x 2,760mm (L x W x H)
- Weight: 2.4T



Solar powered chemical injection packages

Solar powered chemical injection package – onshore Western Desert Egypt

- 2 atmospheric chemical storage tanks, coated SS316
- 6 API675 solar driven injection pumps
- With battery banks for 7 days autonomy
- Total of 35 solar panels suitable for a total of 4340 Ah
- Dimensions: 8,660 x 2,700 x 4,400mm (L x W x H)
- Weight: 13T



Worldwide service

Geveke has a well-equipped and well-trained service department, with direct access to our suppliers' most recent technical developments.

Our service package includes:

- Preventive and corrective maintenance
- Troubleshooting
- Field maintenance
- Parts delivery
- Advice concerning maintenance, conditions and modifications
- Available 24 hours a day, 7 days a week
- VCA* and IECEx certified technicians
- Workshop with testing facilities

Geveke is ISO 9001:2015, VCA* 2017/6.0 and IECEx 03 & 05 certified.



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