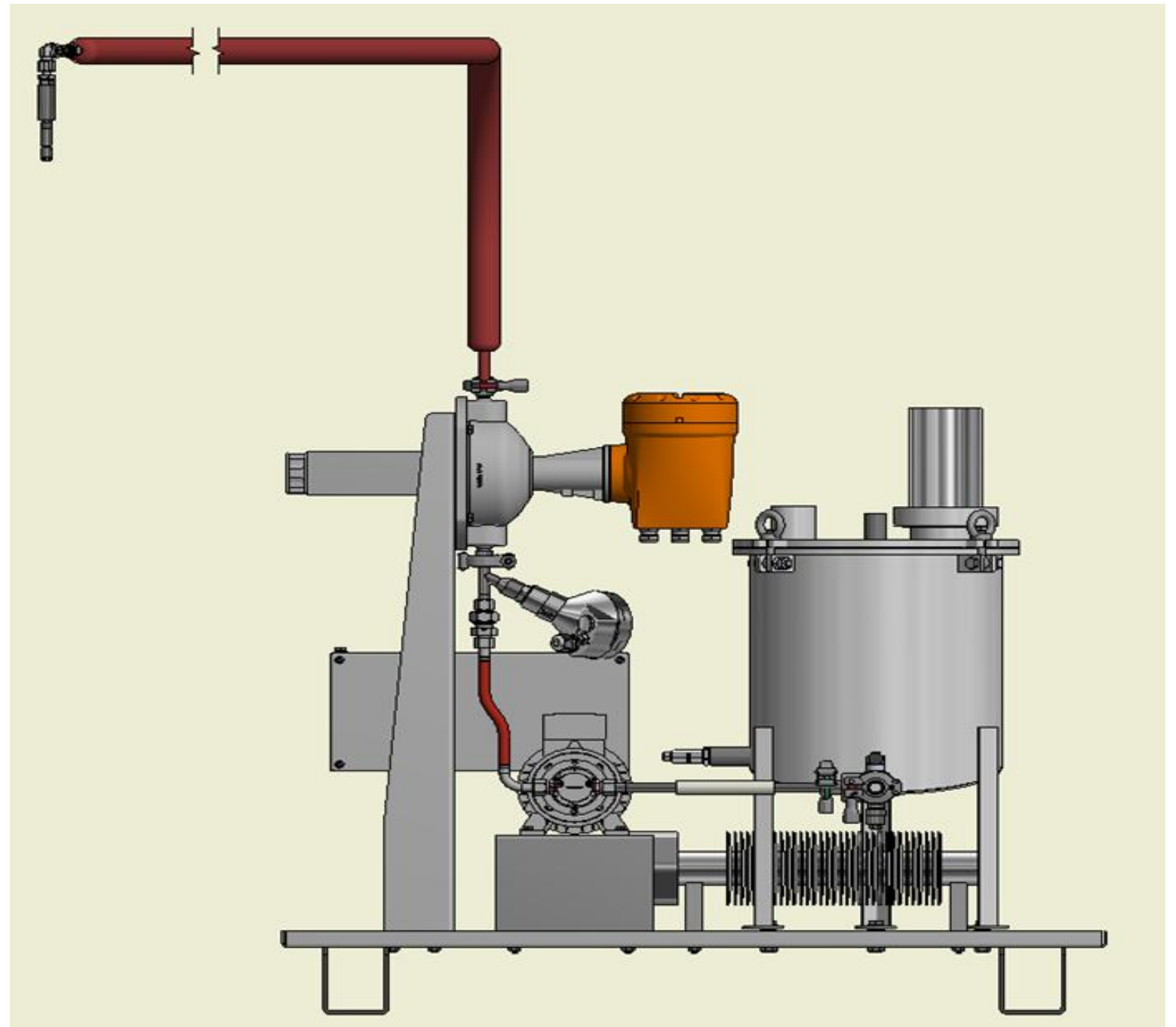


Welcome to our IPE-Liquid Dosing

Feeding of low- and high viscous liquids by means of flow measurement "Coriolis".

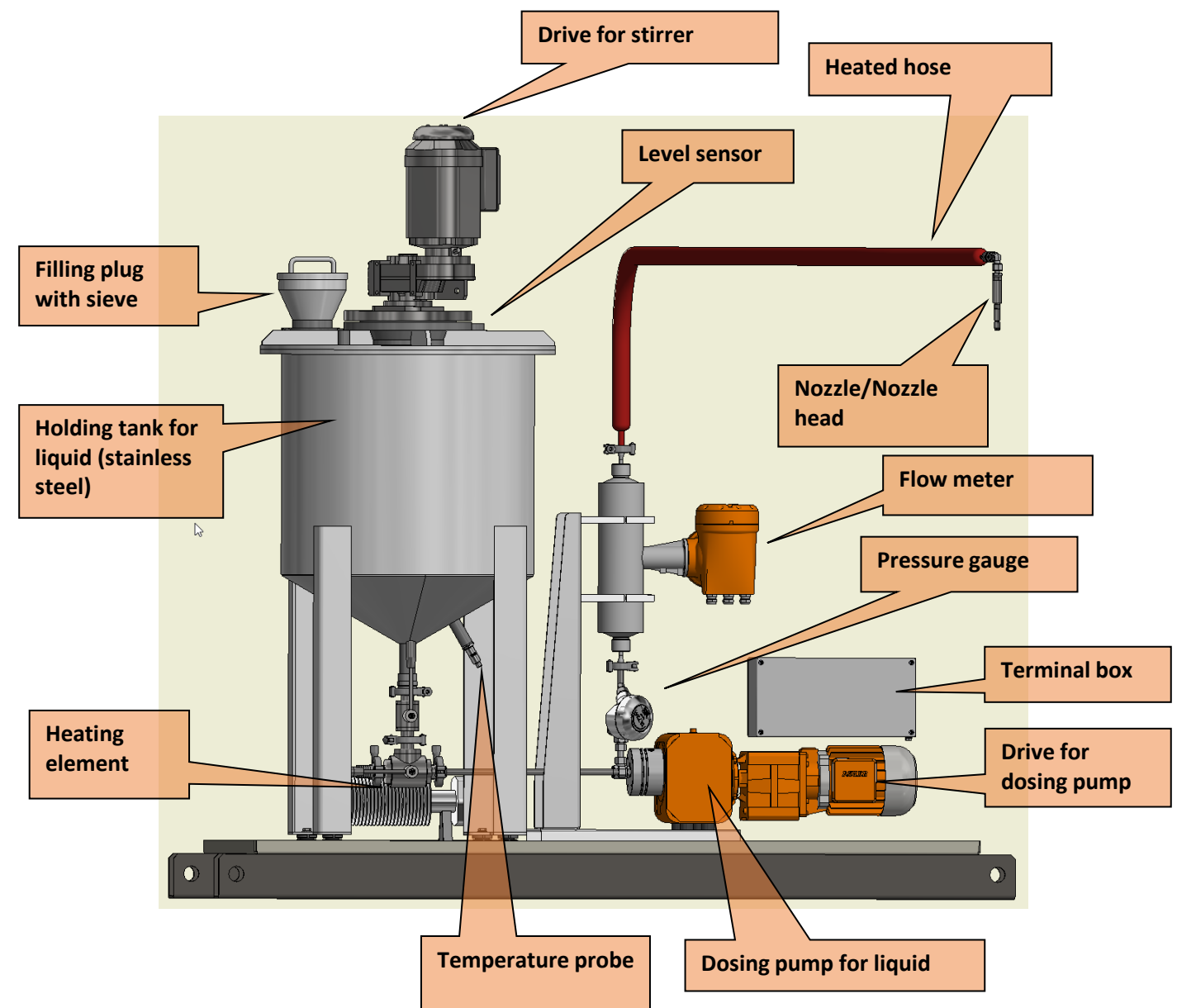
The Coriolis measuring principle is used in a wide range of industries, e.g. life sciences, chemicals, petrochemicals, oil and gas, foodstuffs and, last but not least, custody transfer. Almost all media can be measured with it: Cleaning agents, solvents, fuels, crude oils, vegetable oils, animal fats, latex, silicone oils, alcohol, fruit solutions and juices, toothpaste, vinegar, ketchup, seasoning dips, gases and also liquid gases.



IPE-Liquid Dosing – For High Viscous Liquids *iTec* *swiss*

Design Concept of the Liquid Feeders

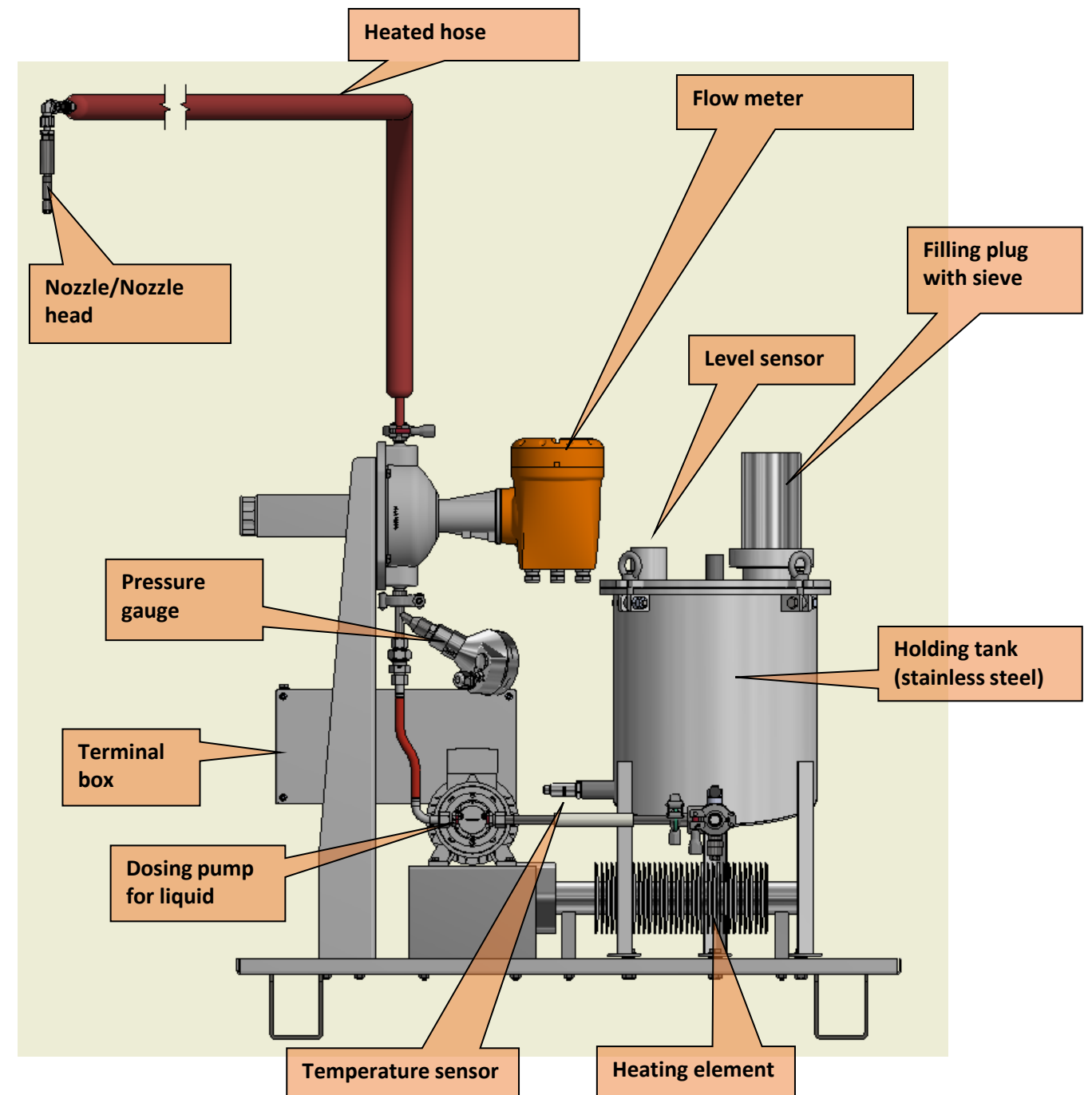
The basic design of all Ingtec liquid feeders is identical and based on the Coriolis-principle.



IPE-Liquid Dosing – For Low Viscous Liquids

Principle of the Coriolis mass flow measurement

Coriolis flowmeters contain one or more measuring tubes which are artificially vibrated by an exciter. As soon as the medium in the measuring tube starts to flow, an additional "rocking motion" is imposed on this oscillation - due to the inertia of the flowing medium. Two sensors record this temporal and spatial change in the tube vibration as a "phase difference". This difference is a direct measure of the mass flow. From the oscillation frequency of the measuring tubes, the density of the medium can also be determined.



IPE-Liquid Dosing

Coriolis mass flow measurement: Simultaneous measurement of mass flow, density, temperature and viscosity.

The simultaneous measurement of mass flow, density and temperature opens up completely new perspectives for process control, quality assurance and plant protection. In addition, other important characteristic values can be calculated from these primary measured variables:

- *Volume flow rate*
- *Solids content*
- *Concentrations in multiphase media*



Typical measuring accuracy: $\pm 0,1$ v.M.

Thank you for your attention

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