JESSBERGER
pumps and systems

www.jesspumpen.com

Small filling plant

for acidic and basic solutions

- For easily filling of empty or partial filled containers.
- The filling control is done by a scale (0-30 kg, accuracy ± 20 g).
- Also for foaming media.
- The required quantities are set on the evaluation unit.
- The filling tube is fed manually into the container. (Semi-automatic mode).
- With index system or with stop for the container.
- The filling process does not begin until the container and the pump tube are in position.
- Plant made of Stainless steel. Electronic components IP67.
- Easy to use.

Best suited for operation with a drum pump

Bottling made easy

Semi-automatic filling system for acidic and basic media.

The drum pump manufacturer JESSBERGER offers a cost-effective filling system made of Stainless steel, which allows a convenient and easy filling or dosing of 200 liter drums or IBC containers (1000 liters) safe, comfortable and clean into smaller containers.

With this new development, it was taken into account that numerous companies from the bottling, chemical or packaging industry would like to transfer quick and accurate thin to slightly viscous media at a push of a button from drums or containers into manually fed canisters. The filling system was specially designed for the own drum pumps. In addition, however, the use of already existing pumps is possible. In combination with a scale, this allows a clean, accurate and safe filling, even of foaming media (immersed filling for foaming products).

The technicians of the pump manufacturer had to ensure a repeatability for this new development in addition to a mandatory dosing accuracy. Therefore, in combination with a calibrated scale available as an option, the requirements of the EC prepackage directive are met.

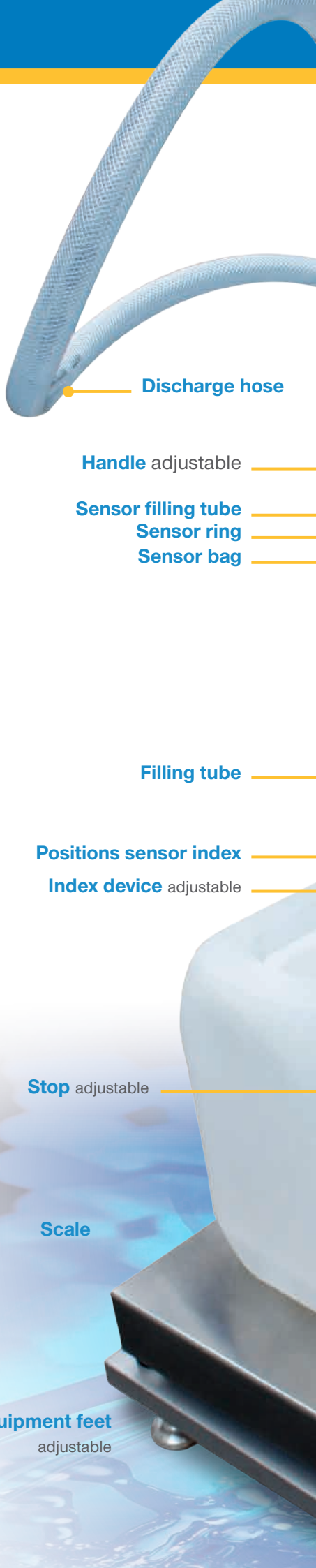
The filling system is user-friendly and easy to operate. It is suitable for transferring acidic or basic media from large containers into small canisters, for example with a capacity of 10, 15 or 25 liters. These filling quantities agreed in advance with the customer (one or two liters are also possible) are preset on the evaluation unit. The filling process is controlled by a scale (here: 0–30 kg, accuracy ± 20 g). For this purpose, the technicians of the pump manufacturer programmed a database in which the nominal values of the weight to be filled, the empty weight of the containers and the filling tolerances were preset. The system can also detect whether an empty container or a container with residual amount is set up.

Before the filling process, the filling tube must be manually guided into the can to be filled according to the request of a customer who has purchased some of these systems. For safety reasons, the filling process should only be started if the sensors for container detection and the sensor ”filling tube below“ enable the process. This is indicated to the user by corresponding control lamps on the control box. The filling system is therefore not a fully automatic system.

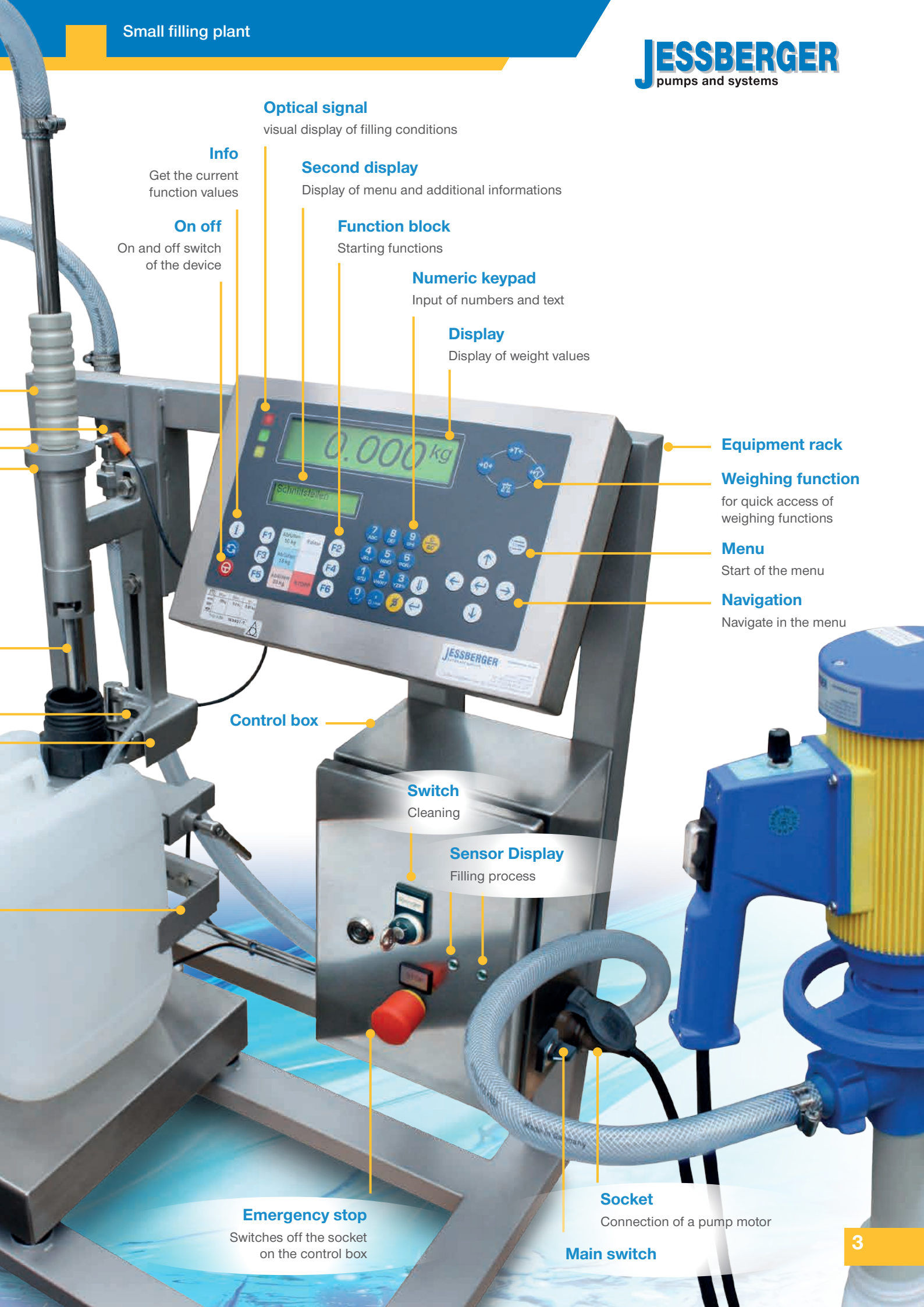
The filling tube can be adjusted in the height. Optional, a pneumatic shut-off valve can be mounted to prevent the media from running out of the filling tube. A drip tray under the filling tube is provided as standard. On customer‘s request an index system can be mounted, which ensures to fill only the right container with the respective medium. Index units of already existing systems such as Safety Can or own developments are possible. The control system is an industrial control, which makes it possible to combine the filling system with conveyor belts or existing system parts.

The frame of the bottling plant, the weighing platform and the evaluation unit were made of Stainless steel AISI 304. All components that come into contact with the medium, such as the filling tube or the sensors, are made of Stainless steel AISI 304. The Stainless steel control box, the weighing platform and the evaluation unit are protected against the ingress of moisture and water due to the IP65 protection class. The total weight of the system is 45 kg.

With the filling system, many different media can be precisely dosed and filled. However, liquids that have a flashpoint below 55 °C (explosion protection) or where Stainless steel AISI 304 is no longer stable must not be filled. The filling ensures clean, accurate and efficient handling and brings a significant time saving compared to transfer by hand from larger to smaller containers.



JESSBERGER pumps and systems



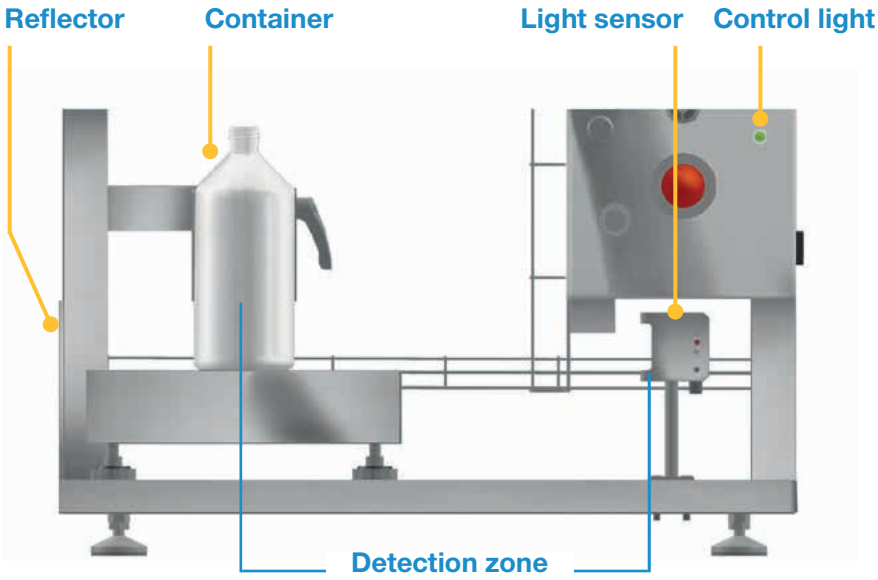
Bottling made easy

Other features

- The evaluation unit can be equipped with special functions.
- Precise adjustment of the system via four adjustable feet.
- Automatic self-test to initialize the system.
- The scale can automatically detect whether an empty container or a container with remaining quantity has been placed for filling.
- All pumps that are operated with a universal or AC motor can be connected.
- The system has an adjustable stop for different container sizes and an INDEX system.
- For control, two indicator lights are mounted on the control box. Both are GREEN when all sensors are active. The filling process can start.
- With the switch “Clean” on the control box, the magnetic valve is opened. In addition, the socket of the pump motor is released (option). This allows the hose and the filling tube to be cleaned when changing the media.

Addition light sensor

- The light sensor is an opto-electronic sensor and works with red light 624nm. No laser light is used.
- The light sensor reliably detects whether a container to be filled is on the scale or not. If no container is detected, no filling process can be started.
- The light sensor sends a weak light to the reflector. If this light is interrupted, the control lamp lights up and the filling process is released.
- The light sensor detectes the center of the container. If the light sensor is misaligned, it must be readjusted. The adjustment buttons are located below the light sensor casing. Use the manufacturer‘s instructions to adjust.



Technical data

Material frame:	Stainless, AISI 304
Material filling tube:	Stainless, AISI 304
Material sensors:	Stainless, AISI 304
Material weighing platform:	Stainless, AISI 304
Material evaluation unit:	Stainless, AISI 304
IP protection:	IP 65
Electrical connection:	230 V/AC, 50 Hz, 10 A
Weight:	45 kg
Dimensions: b x h x d:	650 x 1228 (1800) x 550 mm

JESSBERGER GmbH
Jaegerweg 5–7
D-85521 Ottobrunn
Phone +49 (0) 89 - 66 66 33 400
Fax +49 (0) 89 - 66 66 33 411
info@jesspumpen.de
www.jesspumpen.de