

L Options

L.1 Installation

L.1.1 Installation of the Kit 'Water Stop Valve'

- The water stop valve prevents the loss of water and an overflow of water when there is a defect at the dispenser or at the supply hose. Additionally a device to prevent a back flow is installed.

- **Technical data of the water stop valve:**

| | |
|--|---|
| Pressure that would burst the valve: | 50 bar |
| Max. static pressure: | 10 bar |
| Max. controlled water flow rate: | approx. 50 liter (setting 10 on the scale) |
| Min. flow rate: | 1,5 l/min. (setting between 0 and 1 on the scale) |
| Max. flow rate: | 30 l/min. |
| Max. water temperature: | +70 °C |
| Connection: | |
| - to the water cock: | inner thread R 3/4" |
| - to the supply hose of the dispenser: | outer thread R 3/4" |

Mounting

- Insert the filter (1) with the bulge pointing upwards into the water stop valve (fig. 1).

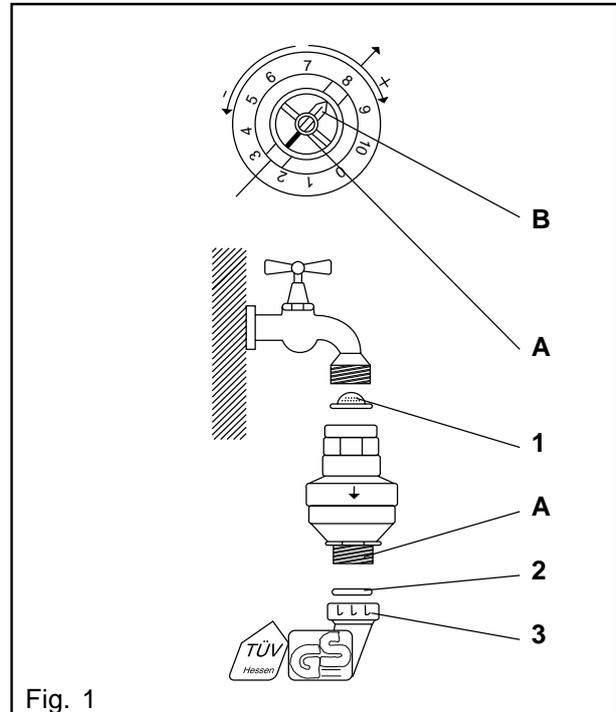


Incorrect mounting of the filter impairs the function of the dispenser.

- Connect the water stop valve to the water cock.
- Insert the sealing ring (2) into the supply hose (3) (fig. 1).
- Connect the supply hose (3) of the dispenser to the lower part of the water stop valve (fig. 1)



Use only hose screw connections with flat sealings. Remove any sieve in the screw connection. Only mount the water stop valve by hand.



Adjustment of the water quantity

- A scale with an adjustable pointer (**B**) is installed in the lower part of the water stop valve (inside the connection for the supply hose) (fig. 1).
- Each number stands for a water flow rate of approx. 5 liter.
(example: 3 = approx. 15 liter;
6 = approx. 30 liter).
- The water stop valve allows the adjusted amount of water to flow through the valve and then switches the water supply off.
- After each water delivery the pointer is reset to zero. The manufacturer's setting of the water stop valve is 6 (approx. 30 liter).
- Use the special key that is delivered with the valve to change the setting to 3 (approx. 15 l) (counter-clockwise).
Do not set it below 3!
- If the dispenser or the water supply hose is defective the water stop valve interrupts the flow after the adjusted amount of water has been allowed through the valve (e.g. setting 3 = 15 liter).

Starting operation with the water stop valve after a defect.

- Close the water cock.
- Repair the defect at the dispenser or the water stop valve.
- Unscrew the water stop valve from the water cock and the water supply hose (**3**).
- Press the central red button (**A**) on the valve (fig. 1).
- Re-connect the water stop valve to the water cock and to the water supply hose.
- The dispenser is now again ready for operation.

Maintenance

- The water stop valve requires no maintenance.
- We recommend to rinse the filter sieve (**1**) after 50.000 deliveries (more frequent if the water is hard) with flowing water (fig. 1).

L.1.2 Installation of the Kit 'Fault Current Safety Switch'

(only for 1-phase operation, Germany)

- For safety reasons we recommend to connect the dispenser only to a mains supply that is protected by a fault current safety switch. If this switch is not provided on site, an easy to mount fault current safety switch can be ordered.
- The fault current safety switch is delivered complete with connecting cable and a safety plug socket. It is ready for connection. It is installed like an extension cable between the safety plug socket and the dispenser power cable.
- **Technical data**

| | | |
|-------------------------|----------|----------|
| Nominal voltage: | U_n | 250 V AC |
| Nominal current: | I_n | 16 A |
| Nominal faulty current: | I_{Dn} | 30 mA, |
| | I_{Dn} | 15 mA |

acc. to VDE 0661/01.04.88

Protection

- The fault current safety switch provides extreme safety for the personnel against electric shocks:
 - when there is a faulty insulation in the dispenser
 - when directly touching a voltage carrying component
 - when the ground conductor is interrupted
 - faulty connected socket (phase and ground conductor have been interchanged)
 - all poles are switched off within max. 40 ms when a fault current occurs (differential current between L- and N conductor) of more than 30 mA or when the ground conductor current is higher than 15 mA.
- The fault current safety switch reduces the dangers of a fire significantly:
 - when there is a faulty insulation, e.g. at the connections of the heating elements.
 - by a safe switching off before high currents can occur on the ground conductor.

Peculiarities

- The fault current switch (optional) also fulfills its functions when the supply voltage drops to 0 V.
- Short fault signals do not lead to an unnecessary switching off.
- The delivered fault current safety switch fulfills the regulations that are valid in Germany. When installing the dispenser in other countries pay attention to local regulations. If necessary buy a faulty current switch on site.

CAUTION: The fault current switch requires no maintenance. If it is defective it must be replaced. (DO NOT REPAIR IT !).

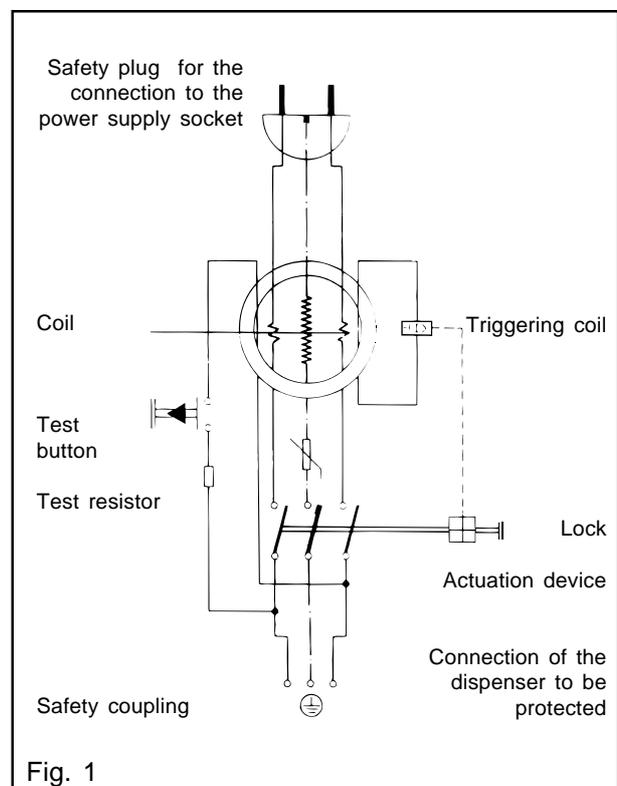


Fig. 1

L.1.3 Installation of the Kit 'Counter'

- Open the left door.
- Switch off the main switch, disconnect the power supply plug and close the water cock.
- Open the right door.
- Remove the product container.
- Remove the top front cover (see chap. G.1.4).
- Remove the dummy caps from the cut-outs for the counters.
- Fasten the counter with the screws (1) (Fig. 1).
- Connect the plug connections to P6 on the electronic control (VMC board) (see chap. K).
- Check the block diagram to glue the counter labels to the cover.

Function:

- Depending on which model, the dispenser can be equipped with up to 3 counters.
- Each counter shows the total number of beverages that have been delivered (Fig. 1) (e. g):
 - Counter for coffee or tea (2) or total counter (2)
 - Counter for mocha (3)
 - Counter for hot water (4)
- The counters cannot be reset.
- The service technician can set up a counter so that it indicates the total number of all beverage portions that have been delivered by the dispenser.

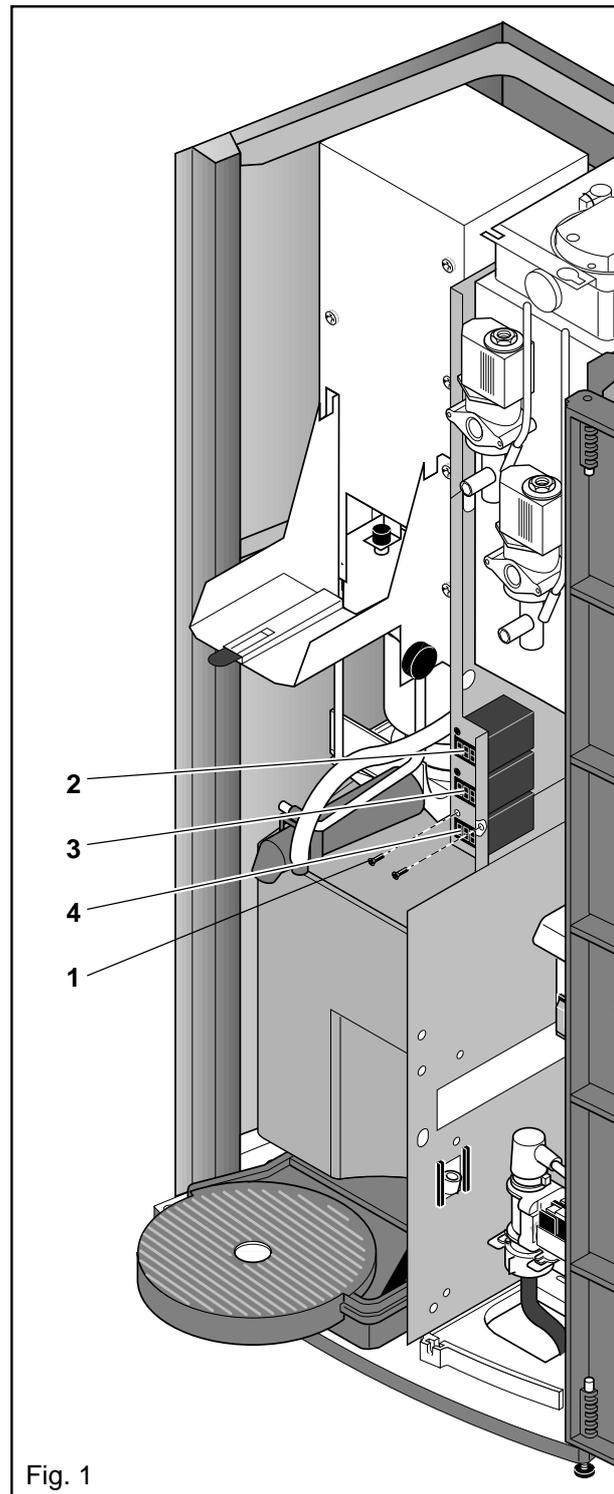


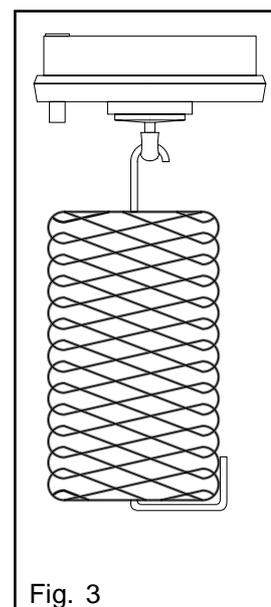
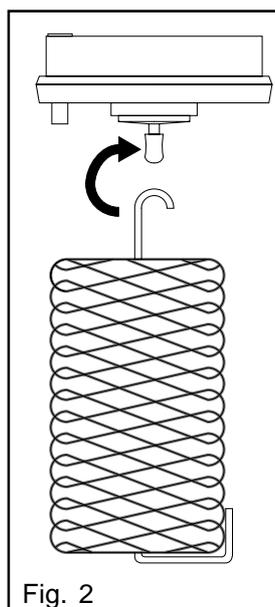
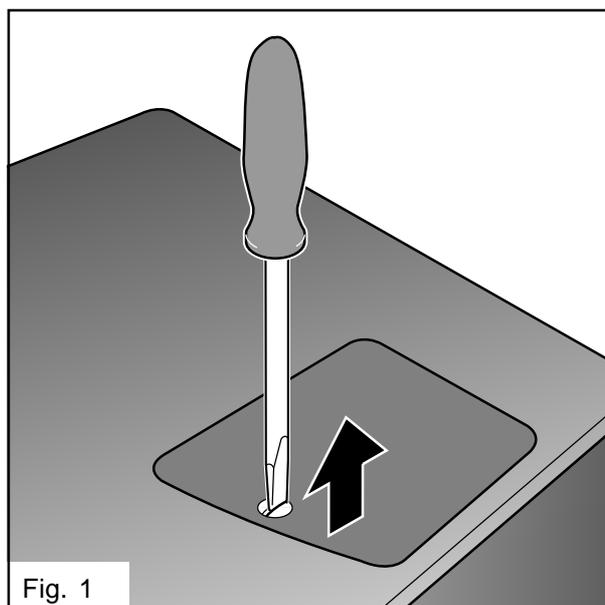
Fig. 1

L.1.4 Installation of the Kit 'Carber'

- Open the left door.
- Switch off the main switch, disconnect the power supply plug and close the water cock.
- Remove the service cover (1 screw) (Fig. 1).

WARNING: **Warning - hot water, risk of being scalded.**
 Wait until the water has cooled down.

- Remove the carber cover from the boiler cover insert.
- Insert the carber sponge into the support of the boiler cover insert. (Fig. 2, 3)



L.1.5 Installation of the Kit 'Wall Mounting'

- Remove the dummy caps (1). (Fig. 1)
- Use the wall mounting (2) of the kit as a drilling gauge and mount it. (Fig. 2)
- If necessary mount the locking screw (3) from the inside. For this the brewer must be dismantled. (Fig. 2)
- The wall distance for the dispenser is 19 mm.
- The kit 'Securing unit for the wall mounting' must be mounted. (Fig. 3)

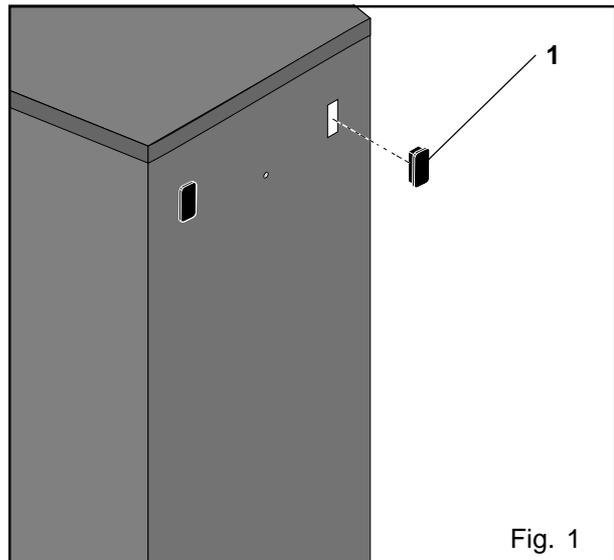


Fig. 1

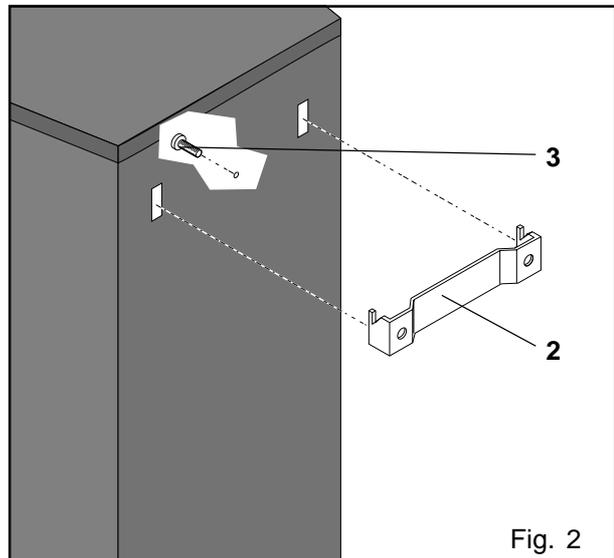


Fig. 2

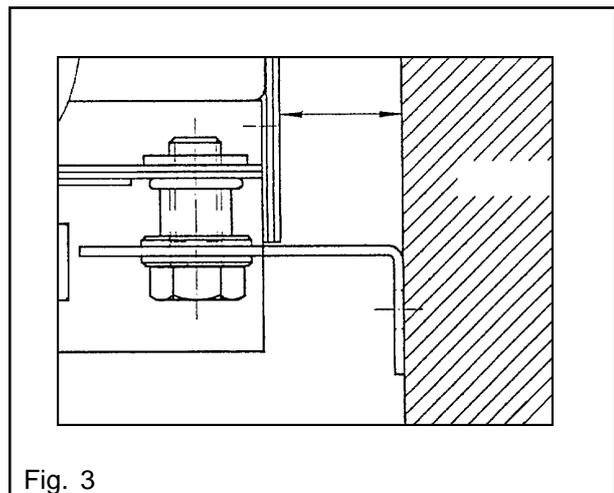


Fig. 3

L.1.6 Installation of the Kit 'Fan'



When this kit is installed the fan is switched on for every beverage delivery (cup and pot delivery).



If the dispenser is used primarily for the delivery of pots (multibrew) we recommend to install a fan to prevent the formation of condensation water on the product container.

- Remove the brewer (see chap. B.2).
- Fasten the fan (1). (Fig.1)
- Carry out the electrical connection with the plug (2) at the separating wall (3) and connect the cable harness to P11 on the electronic control.

CAUTION: Make sure that the mounting position of the fan is correct. The air jet must lead from the inside to the outside.

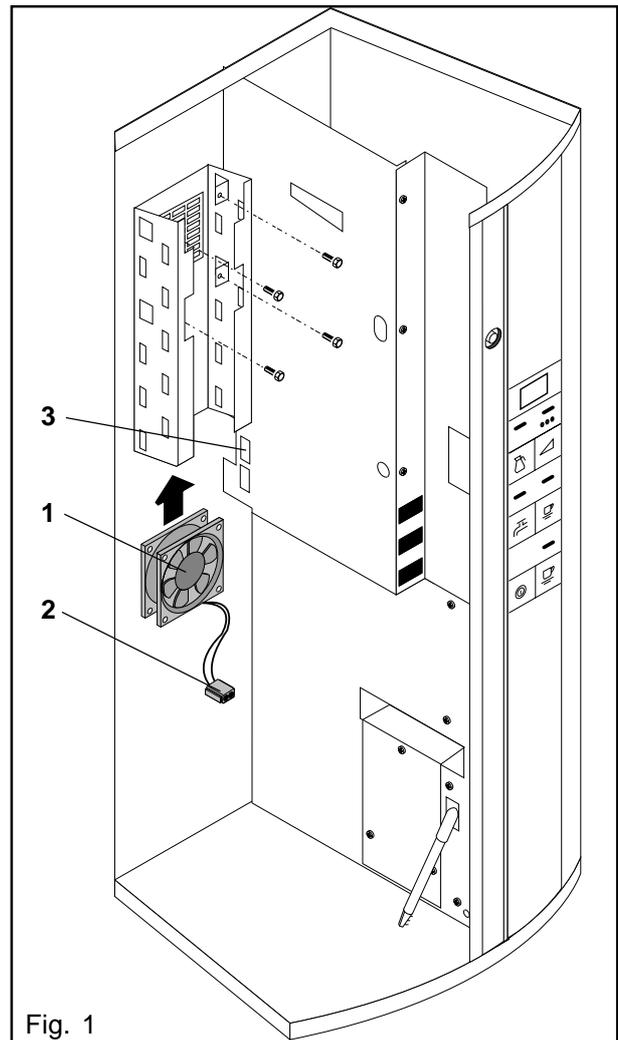


Fig. 1

L.1.7 Installation of the 'Tea'-Kit

(technically not yet released)

L.1.8 Installation of the Kit 'Key Switch'

- Open the left door.
- Switch off the main switch, disconnect the power supply plug and close the water cock.
- Open the right door.
- Remove the product container. (see chap. C.2)
- Remove the lower cover from the door.
- Install the new lower front cover from the kit.
- Install the new cover for coin modules from the kit.
- Insert the key switch from the inside into the operating panel for coin modules and fasten it with two screws.
- Connect the key switch 'Gratis stop' to P10 on the electronic control. (see chap. K.2)
- Assemble the dispenser.

Function:

| Pos. | dispenser without coin or card module | dispenser with coin or card module |
|---|---------------------------------------|------------------------------------|
|  0 | normal operation | normal operation |
|  1 | delivery blocked | delivery blocked |
|  2 | normal operation | free delivery |
| The key can be removed in every position. | | |

With an optional key switch the following dispenser functions are possible (see above):



Multibrew is generally blocked when a coin module is installed.

1. Normal operation - vending mode:
The dispenser works as usual. If a coin or a card module is connected, free delivery is not possible.
 2. Delivery blocked:
Delivery (delivery buttons) is generally blocked.
Only the programming mode and the rinsing cycle are accessible. The other dispenser functions remain connected (water level, heating, error indications).
 3. Free delivery:
If a coin or a card module is connected, free delivery is possible. The coin acceptance is blocked, no amount is debited from a card.
- Free delivery or free delivery for multibrew is only possible when a key switch is installed.

L.1.9 Holder for Measuring Cup

Installation of the holder for the measuring cup

- Remove the brewing cylinder.
- Suspend the holder for the measuring cup (1) at the left-hand side suspension for the filter roll holder (2). (Fig. 1)
- For test deliveries, the measuring cup can be placed on the the holder.

