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PEGASTM

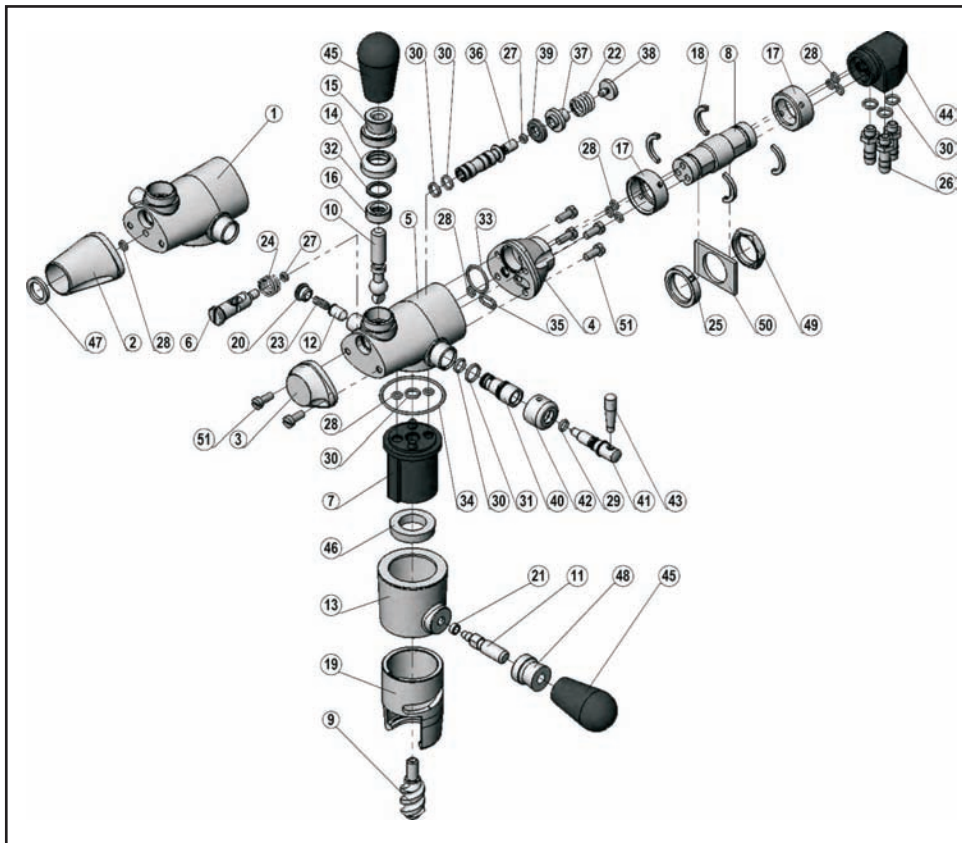
novotap

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Operation Manual

PEGAS NovoTap, PEGAS NovoTap+

1. Assembling Diagram



- | | | | | | |
|----------------------------------|--|------------------------------------|---|----------------------------|------------------------------|
| 1. Body | 10. Bolt of the changeover valve | 19. Bottle fixing mechanism | 27. Ring 004-007-19 | 33. Ring 019-022-19 | 44. Tee adapter |
| 2. Front part of the body | 11. Bolt of the bottle fixing mechanism | 20. Bolt of the pin | 28. Ring 005-008-19 | 34. Ring 045-048-19 | 45. Beer tap handle |
| 3. Front part of the body | 12. Pin | 21. Roller | 29. Ring 006-009-19 | 35. O-ring | 46. PET bottle O-ring |
| 4. Back part of the body | 13. Ring | 22. Spring 1.8x14x18 | 30. Ring 008-011-19 | 36. Rod | 47. O-ring |
| 5. Body | 14. Coupling nut | 23. Spring 0.8x5.5x22 | 31. Ring 011-014-19 | 37. Bushing | 48. Bushing |
| 6. Rod | 15. Bushing | 24. Spring 1.2x14x15 | 32. Ring of the changeover valve | 38. Screw | 49. Nut 5/8 |
| 7. Bushing | 16. Bushing | 25. Nut | | 39. O-ring | 50. Flat washer |
| 8. Shank | 17. Coupling nut | 26. Nipple | | 40. Bushing | 51. Screw M5x12 DIN84 |
| 9. Screw | 18. Semi-ring | | | 41. Valve | |
| | | | | 42. Coupling nut | |
| | | | | 43. Handle | |

*The PEGAS NovoTap set includes parts **Nº3**, **Nº5**. The PEGAS NovoTap+ set includes parts **Nº1**, **Nº2**.

2. Device Purpose

The PEGAS NovoTap device is intended for fast foam-free manual dispensing of foamy and/or carbonated beverages (e.g. beer) from pressurized vessels (kegs) into plastic bottles with PCO or BPF necks. Dispensing is based on backpressure method. Backpressure method consists of filling an empty bottle with gas under the pressure equal to the pressure in a keg with beverage. This method provides foam-free dispensing and keeps beverage quality in case of a long-term storage in sealed bottles. It is recommended to use clean bottles for beverage dispensing. The PEGAS NovoTap+ package includes a G 5/8" shank which gives an option to mount a beer tap to its body for filling glasses/mugs, etc.

3. Technical Data

	Unit	Value	
Filling capacity	liter/hour	45-120	
CO ₂ pressure supplied to a keg	MPa	0.15-0.25	
CO ₂ flow rate (to create backpressure)	kg/hour	0.2-0.8	
Weight	Net	kg	2.1
	Gross	kg	2.2

4. Package Contents

The device is supplied in a separate package including:

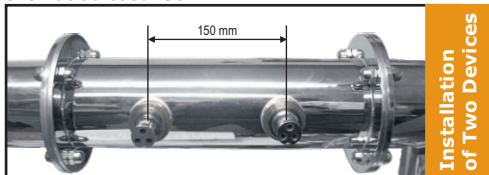
- PEGAS NovoTap device -1 pc
- Operation manual -1 pc
- Wrench -1 pc
- Tee fitting -1 pc

Spare parts:

- Valve O-ring (39) -1 pc
- Drainage O-ring (35) -1 pc
- PET bottle O-ring (46) -1 pc
- Ring 004-007-19 (27) -2 pc
- Ring 005-008-19 (28) -2 pc
- Ring 006-009-19 (29) -2 pc
- Ring 008-011-19 (30) -1 pc
- Ring 011-014-19 (31) -1 pc
- Ring 019-022-19 (33) -1 pc
- Ring 045-048-19 (34) -1 pc
- Ring of a changeover valve (32) -2 pc

5. Device Assembly, Installation and Connection

The device shall be installed vertically over a table or a bar counter on a hollow-core beer tower (D = 90 mm at least) with a through hole (d = 23 mm) so that the bottle fixing mechanism shall look downward. The distance between the axe of the shank and the table surface shall be not less than 450 mm. If two devices are installed, the recommended distance between their shanks shall be at least 150 mm.



Installation of Two Devices

Before mounting the device to a beer tower it is necessary to check whether hoses can be freely connected to nipples (26) of tee adapter (44) provided that the tee adapter is located strictly vertically and looks downwards (hoses shall be connected from below). If the hoses can not be freely connected, it is necessary to replace the tee adapter with a different one (meant for side/rear connection of hoses). A drip tray (62) shall be provided on the table. (See Fig. 1a).

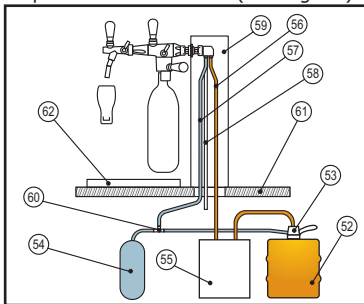


Fig.1a Equipment required for the PEGAS NovoTap installation

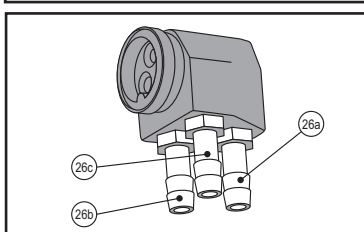


Fig.1b Tee adapter for connecting hoses to the PEGAS NovoTap

The following equipment is required for the device connection (See Fig. 1a):

- A keg with beer and a keg coupler (52,53)
- A gas cylinder with a pressure regulator (0.15 — 0.25 MPa) (54)
- A beer cooler (55)
- PVC hoses (56, 57, 58) with 7 — 9 mm inner diameter are used for beer supply, CO₂ supply and drainage. Hoses shall be secured on nipples and tee fitting by means of screw clamps.
- Hollow-core beer tower (d = 90 mm at least)(59)
- Tee fitting (60)
- Table (61)

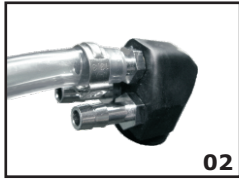
The device shall be assembled, installed and connected as follows (numbers are given as per Assembling diagram Fig. 1a, Fig. 1b):

Before installation beer tap handles (45) shall be screwed to bolts (10, 11).

1) Put hoses for beer supply (56), CO₂ supply (57) and drainage (58) inside a beer tower as shown in Fig. 1a; **(photo 01)**

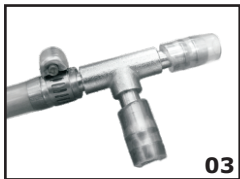


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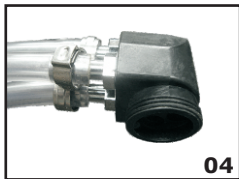


02

3) Connect one end of CO₂ supply hose (57) to CO₂ supply nipple (26b) of tee adapter (44) and the other end to tee fitting (60); **(photos 03, 04)**



03



04

4) Supply beer from keg coupler (53) to beer cooler (55);

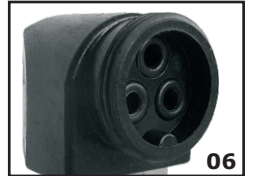
5) Supply CO₂ under 0.15 — 0.25 MPa pressure from gas cylinder (54) through tee fitting (60) to keg coupler (53) and CO₂ supply nipple (64) of tee adapter (44); **(photo 05)**

6) Connect drainage hose (58) to drainage nipple (26c) of tee adapter (44) and put the free end of the drainage hose into an empty drain container; **(photo 05)**

7) Make sure that all 3 rings (28) are located in the point of shank (8) connection to tee adapter (44). Rings shall be placed in grooves of tee adapter (44). Further assembly and installation procedures without these rings will result in the device malfunctions; **(photo 06)**

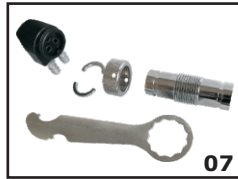


05



06

8) Connect shank (8) to tee adapter (44) by means of 2 semi-rings (18) and coupling nut (17). Use the wrench included in the kit to ensure tight connection of the thread joint; **(photos 07, 08)**



07



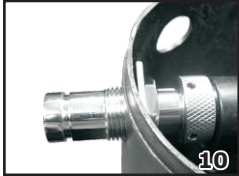
08

9) Screw nut (49) on shank (8), then put flat washer (50) on shank (8); **(photo 09)**



09

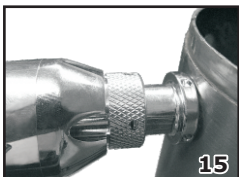
10 Inside of the beer tower put shank (8) with nut (49) and flat washer (50) through a hole of the beer tower. Outside the beer tower screw nut (25) onto shank (8) by means of the wrench included in the kit so that the tight connection of shank (8) to the beer tower is provided and the groove of the end surface of the shank looks strictly downwards. Adjust the position of shank (8) by tightening/loosening nut (49) if required; **(photos 10, 11)**



11 Make sure that all 3 rings (28) are located in the point of shank (8) connection to the back part of the body (4). Rings shall be placed in grooves of the back part of the body (4). Further assembly and installation procedures without these rings will result in the device malfunctions; **(photo 12)**



12 Connect shank (8) to the back part of the body (4) by means of 2 semi-rings (18) and coupling nut (17). Use the wrench included in the kit to ensure tight connection of the thread joint; **(photos 13 – 16)**



13 The device is ready for operation; **(photos 17, 18)**



14 In the PEGAS NovoTap+ package the hole in the front part of the device body (2) is intended for mounting a beer tap with G 5/8" shank. **(photos 19, 20)**



6. Filling Procedure

Before filling make sure that the device is installed and connected properly (see Section 5) and all joints are connected tightly. Bottle filling procedure consists of the following steps (all numbers correspond to Fig.2):

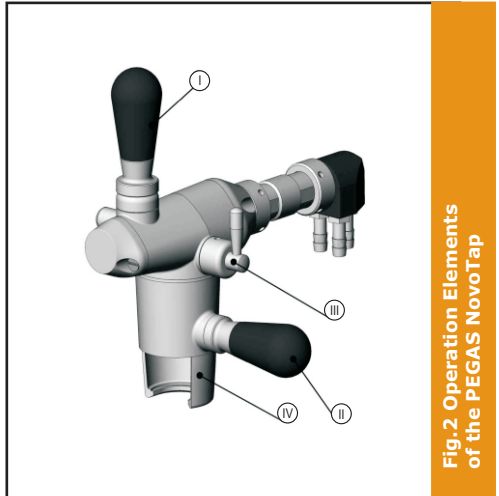
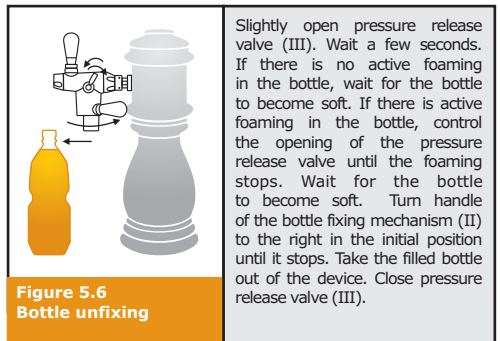
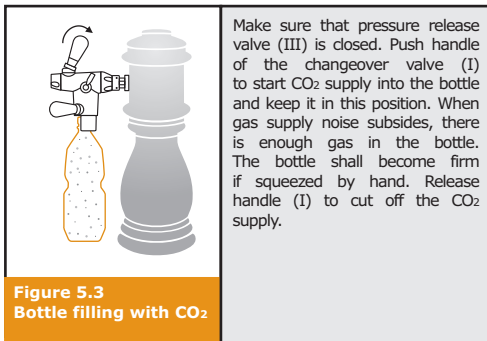
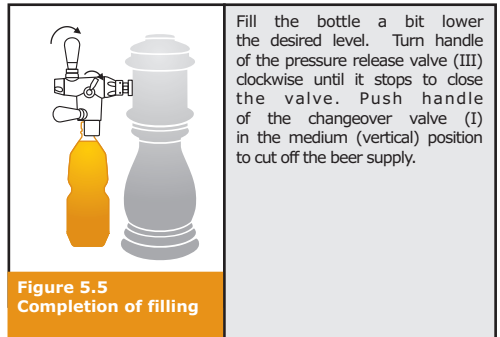
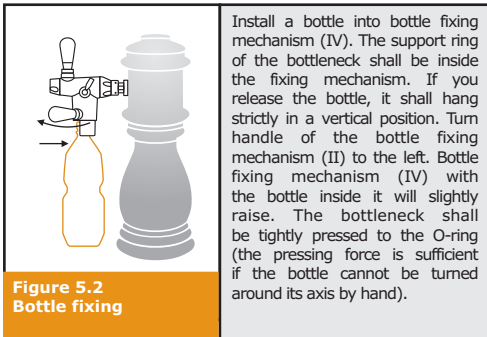
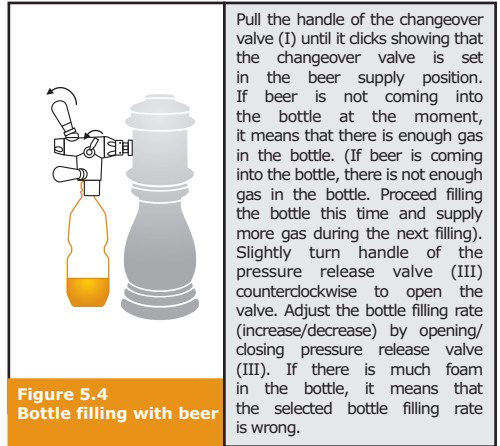
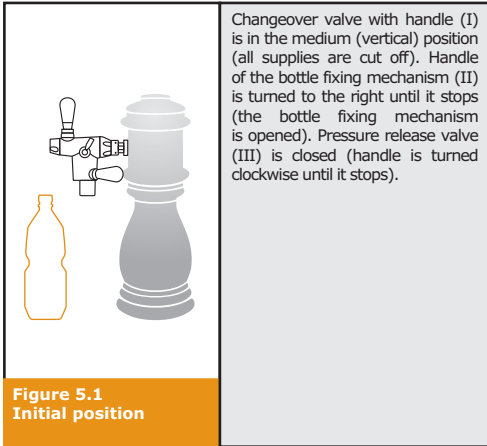


Fig.2 Operation Elements of the PEGAS NovoTap



To keep beer quality it is required to seal the filled bottle with a closure as soon as possible after taking the bottle out of the device.

7. Device Maintenance

Only the personnel who have studied this manual and have been trained on the safe operation of the device are allowed to maintain the device. The device shall be maintained as shown in Table 1.

Type of washing	Frequency	Cleaning agent	Time, min.	t°C	Concentration, %	Source of working solution
Washing	Daily after using the device	Water	10	20	-	Water pipeline
Rinsing		Water	15	70-85	-	Water pipeline
Washing - disinfection	Weekly	For choice: Neoseptal OS/ Neomoscan Sepa/ Neomoscan RD-B	10-15	60	2.0 1.0 1.0	Vessel with proper fitting (washing keg)
Rinsing	After washing - disinfection	Water	10	40-60	-	Water pipeline
Rinsing		Water	15	20	-	Water pipeline

Table 1. Hygienic Maintenance Program for the PEGAS NovoTap

Washing procedures shall be performed as follows:

Please, PAY ATTENTION: Numbers in points 1 – 12 correspond to Fig. 2!

- 1)** Disconnect a beer keg from the beer supply system;
- 2)** Prepare a container for collecting spent working solution (water);
- 3)** Make sure that handle of the changeover valve (I) is set in the medium (vertical) position;
- 4)** Connect the beer supply system to the source of working solution (water);
- 5)** Install an empty plastic bottle (preferably a small one) into the bottle fixing mechanism (IV) and press it by turning handle (II) to the left;
- 6)** Open the pressure release valve by turning handle (III) counterclockwise;
- 7)** Pull handle of the changeover valve (I) until it clicks showing that changeover valve (I) is set in the beer supply position;
- 8)** Watch the bottle filling. Soon the excessive working solution (water) appears in the drainage hose due to the opened pressure release valve. Be prepared to collect the spent working solution (water) from the drainage hose;
- 9)** The device shall be washed as long as it is shown in Table 1;
- 10)** Push handle of the changeover valve (I) in the initial vertical position to cut off the working solution (water) supply;
- 11)** Take the bottle out of the fixing mechanism;
- 12)** Repeat steps 2 – 11 if rinsing is required;

Please, PAY ATTENTION: Numbers in points 13 – 34 correspond to the Device Assembling Diagram!

- 13)** Unscrew back part of the body (4) from shank (8) containing beer supply, CO₂ supply and drainage hoses by means of the wrench included in the kit;

- 14)** Unscrew a screw (9) provided for fastening bushing (7) to body (5) by means of 6 mm hex-nut wrench. Remove the bottle fixing mechanism. Be careful not to lose O-rings (28, 34);

- 15)** Unscrew beer tap handle (45) and bushing (48) from bolt of the bottling fixing mechanism (11);

- 16)** Unscrew bolt of the bottle fixing mechanism (11) from ring (13);

- 17)** Remove bushing (7) with bottle fixing mechanism (19) and screw (9) inside it from ring (13). Be careful not to lose roller (21);

- 18)** Unscrew screws M5 (51) and disconnect front part of the body (3) from body (5 or 1). If a beer tap is installed, disconnect the front part of the body (2) together with the beer tap from the body. Be careful not to lose O-ring (28);

- 19)** Wash thoroughly the beer tap as per the manufacturer's manual if required;

- 20)** Wash thoroughly with a brush the channel located in the end of the body part (1);

- 21)** Wash thoroughly and remove dirt from surfaces of the following parts: ring (13), bottle fixing mechanism (19), bushing (7), roller (21), bolt of the bottle fixing mechanism (11), and screw (9);

- 22)** Insert O-ring (28) into the groove of body part (5 or 1), and connect this body part to front part of the body (3). If a beer tap is installed, connect this body part to front part of the body (2) together with the beer tap by means of screws M5 (51);

- 23)** Place bushing (7) inside bottle fixing mechanism (19) so that the groove of bottle fixing mechanism and the dowel of bushing match;

- 24)** Place roller (21) in the extreme position of the groove of bottle fixing mechanism (19);

- 25)** Carefully insert the bottle fixing mechanism with bushing and roller into ring (13) so that the ring hole provided for bolt of the bottle fixing mechanism (11) matches with the roller (21) hole;

- 26)** Screw bolt of the bottle fixing mechanism (11) into the ring (13) hole, make sure that there is no backlash if rotating parts relative to each other;
- 27)** Screw bushing (48) and handle (45) onto bolt of the bottle fixing mechanism (11);
- 28)** Place screw (9) inside bushing (7);
- 29)** Put ring (30) onto screw (9) thread;
- 30)** Insert rings (28), (34) into grooves of the body part (5);
- 31)** Install the assembled bottle fixing mechanism onto body (5 or 1) so that the parts holes match;
- 32)** Tighten the parts by screw (9) using 6 mm hex-nut wrench;
- 33)** Connect back part of the body (5) to shank (8) containing beer supply, CO₂ supply and drainage hoses by means of the wrench included in the kit;
- 34)** Remove the remaining working solution (water) from the device surface using a clean cloth.

Precautions, re-use, methods for collecting and disposal of working solution are specified in the manuals issued by its manufacturer.

The PEGAS NovoTap device is manufactured with high accuracy and surface condition. During the operation its parts get highly adjusted to each other. It is recommended not to replace the similar parts taken from the different PEGAS NovoTap units. O-rings and movable parts of the device shall be periodically greased with BERULUBER FR 6, BERULUBER FR 7 GSN or similar grease which is allowed to be used in food industry.

8. Precautions

The following rules shall be observed to ensure the device failure-free operation:

- 1)** It is prohibited to use bottles which are not allowed to contact with food according to sanitary norms.
- 2)** It is prohibited to set pressure above 0.4 MPa in the device.
- 3)** Only regular control of the device sanitary condition guarantees its safe and failure — free operation. Regular washing of the device is strictly required (see Section 7).

9. Warranty

The manufacturer provides 12-month warranty from the date of sale and undertakes to eliminate defects arisen through the manufacturer's fault. The manufacturer bears no responsibility for the defects resulting from the device misuse, in particular, from the absence of regular washing. The manufacturer reserves the right to modify the device design in order to improve its consumer properties.

10. Acceptance and sale information

The PEGAS NovoTap is manufactured in accordance with Technical Specifications TY 5131-002-48278688-04. The device has passed the presale testing and inspection for conformance to all applicable standards and is approved good for operation.

11. Comments and claims on quality shall be sent to:

Novosibirskprod mash Co. Ltd.

Russia, 630108, Novosibirsk, P.O. Box 175

Tel./fax: **+7 (383) 211-90-49**,

E-mail: pegas@prod mash.ru

Date of manufacture:

Date of sale:

12. Troubleshooting

Problem	Possible cause	Remedy
Beer is not coming into the bottle	No beer in the keg	Replace the keg
	Coupler is not connected to the keg	Connect the coupler to the keg
	No gas in the gas cylinder	Replace the gas cylinder
	Pressure regulator is closed	Open the pressure regulator
	Misconnection of hoses to the device	Check if hoses are connected in the right order, correct what is wrong
	Hoses or their joints are damaged	Check the hoses, eliminate the damages
	Beer/gas supply hoses are clogged	Replace the defective hoses
	Pressure release valve is closed/sticky	Open/wash the pressure release valve
Gas is not supplied into the bottle	No gas in the gas cylinder	Replace the gas cylinder
	Pressure regulator is closed	Open the pressure regulator
	Misconnection of gas supply hoses to the device	Check if hoses are connected in the right order, correct what is wrong
	Hoses, their joints are damaged	Replace the defective hoses, check if the joints are tightly connected
Bottle fails to be fixed	Bottleneck does not meet PCO or BPF standard	Use the bottles with PCO or BPF necks
	Bottle fixing mechanism is defective	Check and replace the bottle fixing mechanism if required
A lot of foam during bottle filling	Incorrect pressure is set in the pressure regulator	Set pressure according to the beer type
	Gas in the gas cylinder is running out	Replace the gas cylinder
	Beer in the keg is running out	Replace the keg
	There is not enough gas in the bottle	Supply more gas into the bottle
	Pressure release rate is too high	Adjust the pressure release rate
	Beer supply hose is contaminated	Wash the device (see Section 7)
Beer, CO ₂ or foam leaks from parts joints	Improper tightening of parts	Tighten all thread connections by means of proper instrument
	Rubber O-rings are worn out	Check and replace O-rings if required
Beer, CO ₂ or foam leaks from the bottle filling channel	O-rings of the changeover valve are worn out	Replace the worn-out parts
	Changeover valve springs are loosened	Replace the worn-out parts

