MI_2156 Gas valve (hot air and steam) - dismantling and installation

iCombi Gas

15 min

Standard

23/10/2023

Topic

The information describes the dismantling and installation gas valve hot air and steam.

Affected product/accessories

iCombi Pro / iCombi Classic Gas:

- 6-1/1
- 6-2/1
- 10-1/1
- 10-2/1
- 20-1/1
- 20-2/1

Required tool

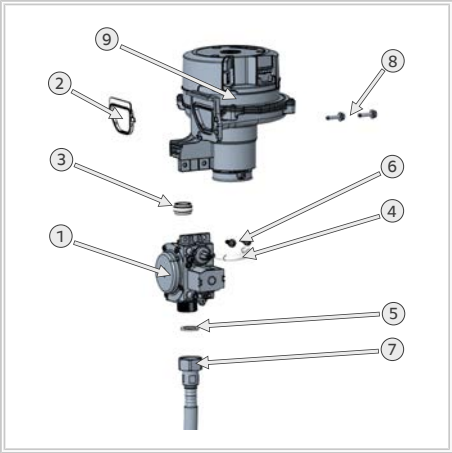
- Standard
- Torque wrench fork mount size 30 with 25Nm
- Spanner size 30

Required components

iCombi (Gas)	6-1/1	6-2/1	10-1/1	10-2/1	20-1/1	20-2/1
Steam gas valve	87.01.838 S	87.01.838 S	87.01.838 S	87.01.839 S	87.01.839 S	87.01.839 S
Gas valve kit HL bottom	87.01.838 S	87.01.839 S	87.01.838 S	87.01.839 S	87.01.838 S	87.01.839 S
Gas valve kit HL top	w/o	w/o	w/o	w/o	87.01.838 S	87.01.839 S

Components included in delivery:

No.:	Gas valve complete 061-101/201 (Art. no.: 87.01.838S):	Gas valve complete 062G/102-202G (Art. no.: 87.01.839S):
1	Gas valve E01 LK1 061-101G/ 201G- (Art. no.: 70.01.675)	Gas valve E01 LK2 062G/102-202G– (Art. no.: 70.01.676)
2	Gas blower seal 061-202 – (Art. no.: 70.01.148)	
3	Gas valve seal E01 061-202G – (Art. no.: 70.01.193)	
4	Compensation line cpl. 061-202G – (Art. no.: 70.01.745)	
5	Corrugated hose gas seal 061 -202 – (Art. no.: 70.01.622)	
6	Screw M5x12 T25 f. gas valve E01 – (Art. no.: 10.01.902)	



General information

For the gas components installed in RATIONAL units, the documents of the component manufacturer apply:

NOTICE

The documents of the component manufacturer, as well as the information from RATIONAL, must be read before use.

The documents can be called up by the QR code or the link.

Pict. 4: QR code_en

https://portal.rational-online.com/fs4p/media/service/3_dokumentationen/icombi_pro___icombi_classik/beipack/divers_1/Sicherheitshinweise-Gaskomponenten_en.pdf

NOTICE

Enter the installation of the component on the service level ("Component replacement" tab). This is an integral part of the maintenance history.

The work steps apply to the unit gas valve hot air and steam.

Do not use the screws already used in the unit as a service part when installing the gas valve, but rather use the screws included in the accessories kit.

Target group

- This document is intended for skilled technicians, who have been certified by the manufacturer after attending training and safety instructions.
- Installation, inspection, maintenance, and repair work must only be carried out by trained technicians.
- It is recommended that only technicians authorised by the manufacturer perform inspection, maintenance and repair work.
- The unit may not be used, cleaned, or maintained by children. The unit may not be used for play. This is prohibited even under supervision.
- The unit may not be used, cleaned, or maintained by people with limited physical, sensory, or mental capacity or those without the necessary experience or knowledge, unless such people are supervised by a person who is responsible for their safety and who has been informed of the hazards of the unit.
- In order to prevent accidents or damage, the manufacturer recommends that technicians attend training and safety instructions.

Safety instructions

⚠ DANGER

High voltages when connecting to the mains power
Danger to life due to high voltage.
- Disconnect from the power supply.
- Make sure the unit is disconnected from the power.

⚠ CAUTION

Sharp edges on the housing
Risk of cuts on the housing when working in the unit.
Wear protective gloves.

NOTICE

Do not use leak detection spray when checking gas components for leaks.
The leak detection spray may damage adjacent components.

Revision Log

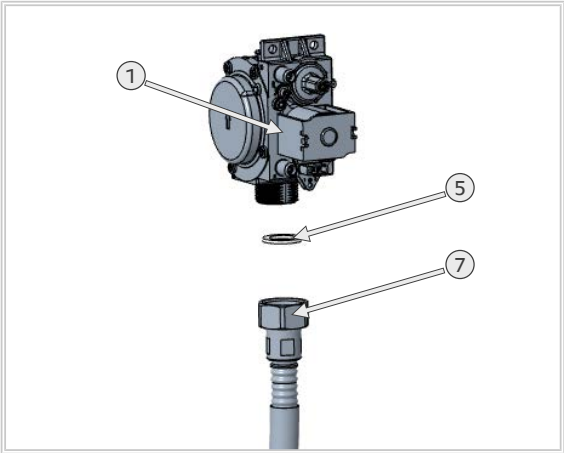
Changes from previous version of this manual:
- Components included in the scope of delivery – change of article number: Compensation line cpl. 061-202G – (Art. 70.01.745)
- In the chapter "Work steps – Installation of the gas hose on floor units", the note "Do not use leak detection spray when checking gas components for leaks. The leak detection spray may damage adjacent components." has been added.

Work steps - Removal of the gas valve hot air and steam

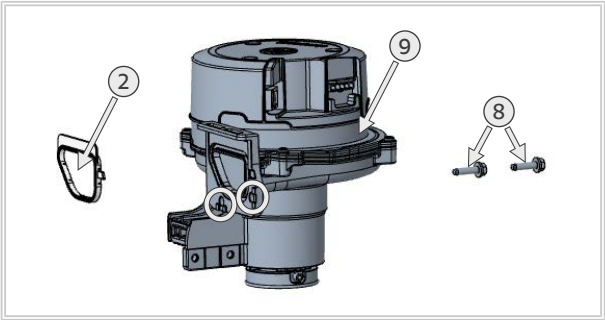
- ✔ The unit is switched off and voltage-free.
- ✔ The electrical compartment is open.
- ✔ The gas supply is switched off.

1. Remove all cables from the gas valve (1) and the gas blower (9).

2. Remove the yellow gas hose (7) and the seal for corrugated hose gas (5) from the gas valve (1). Dispose of the seal for corrugated hose (gas) (5).

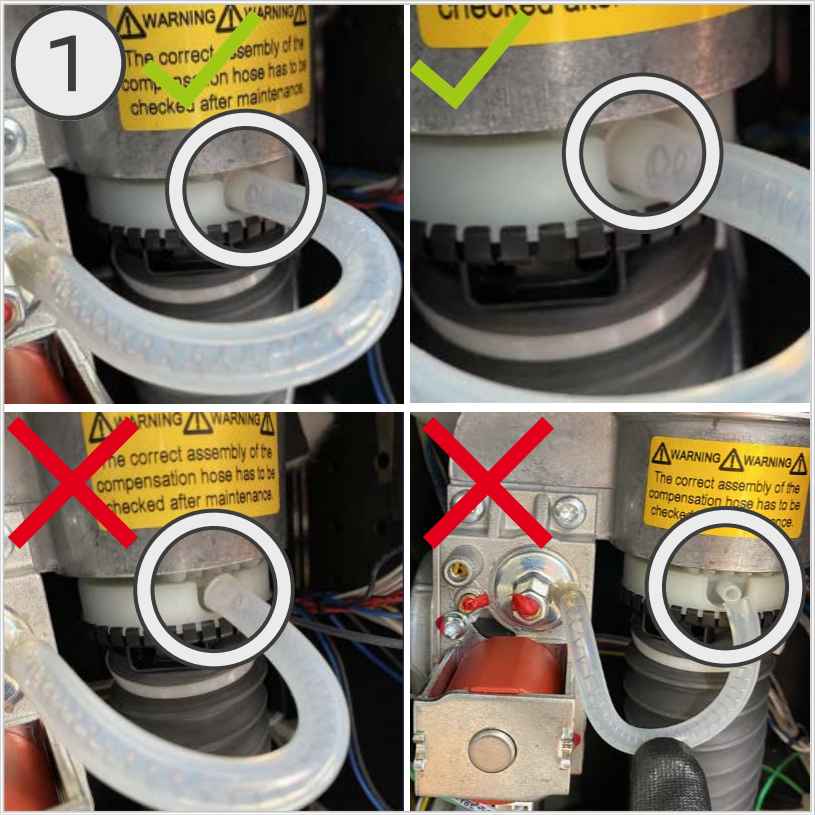


3. NOTE: If only the gas valve is to be replaced, continue with point 4.
   Loosen the screws (8).
   Remove the gas blower (9).
   Remove and dispose of the seal on the gas blower (2).



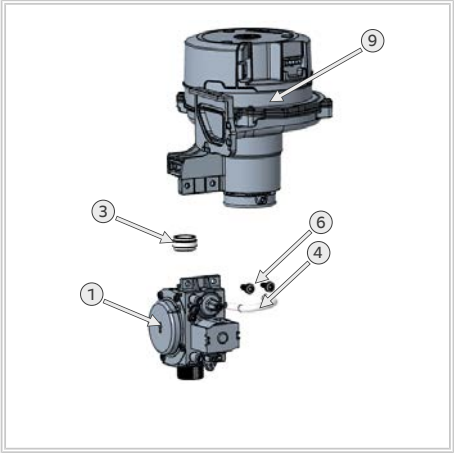
4. Bend the compensation line (Fig. 1) on the gas blower up and down by 90° alternately (see Fig. 2 and Fig. 3).
   Repeat this process a total of 5 times.

5. Check the secure fit of the compensation line on the fitting (Fig. 1).
   If the compensation line has slipped off the fitting only a few mm or even completely, the compensation line must be replaced.
   NOTICE! If the compensation line has to be replaced: make sure that the compensation line is pushed all the way onto the two fittings!



6. The test result of step 5 is good:
   Disconnect the compensation line (4) from the gas valve (1) only and leave it connected to the blower (9).

Loosen the two screws (6) fixing the gas valve (1) on the gas blower (9).
Remove and dispose of the gas valve (1).
Remove and dispose of the seal of the gas valve (3).



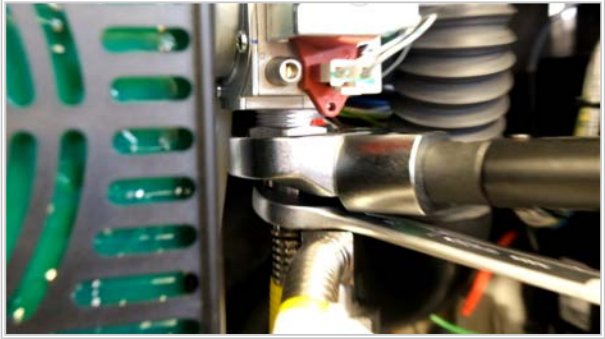
>> The removal is complete.

Work steps - Installation of the gas valve hot air and steam

1. Proceed in reverse order to install. For the installation, use the new components provided.
2. A open-end wrench (size 20) and the torque wrench size 30 with 25Nm are needed to connect the gas hoses to the gas valves (hot air and steam).

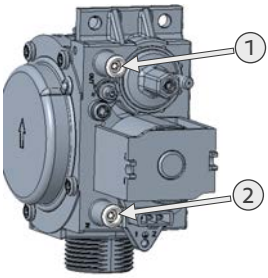
NOTICE

Do not place the open-end wrench on the gas hose. Only place the open-end wrench on the nuts.



NOTICE

The marked adjusting screws (1) and (2) may only be tightened with a torque of 1.2Nm (+/- 0.1Nm).
Too high a torque will damage the valve.



3. Conduct a gas leak check after installation.
4. After the installation, carry out a leak test and flue gas analysis.
   Note: Do not use leak detection spray when checking gas components for leaks. The leak detection spray may damage adjacent components.

>> The installation is complete.