

# GOK

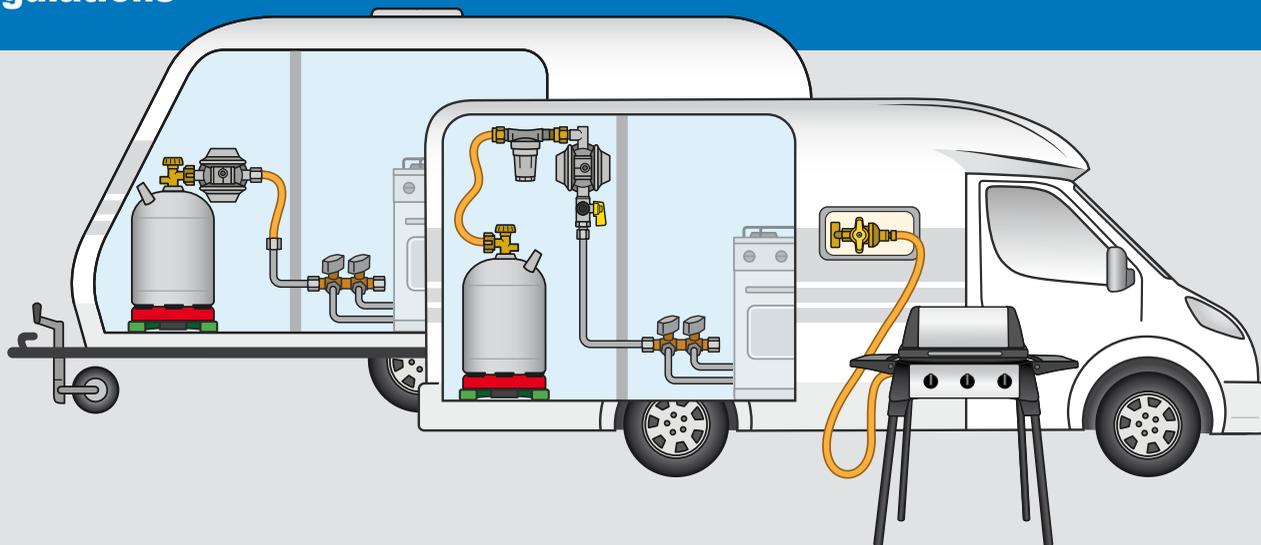
Components \* Solutions \* Systems



**LPG**

*Caravan*

**SAFETY and QUALITY**  
for **LPG systems**  
in **leisure vehicles**



### EN 1949 – the standard for installation

This standard describes the requirements for LPG installations in motorhomes and caravans throughout Europe.

#### The main requirements are:

1. Before a vehicle is sold to an end customer it must be fitted with a pressure regulator.
2. The pressure regulator must comply with EN 16129 Annex D.
3. The pressure regulator can be installed directly to the cylinder valve or be attached permanently to the vehicle wall and connected to the gas cylinder by means of a high pressure hose assembly.
4. A test pressure of 150 mbar is used for leak testing in the LPG installation.
5. External gas equipment can be connected to the vehicle's LPG installation and supplied by means of a quick coupler.
6. Automatic changeover systems according to EN 16129 Annex D or manual changeover systems may be used.
7. The LPG system in the vehicle may also be operated from an external gas supply. The connection is made using a quick coupler. Additionally, a manual changeover valve must be installed before the pressure regulator, which can be used to switch between the internal gas cylinder and the external LPG feed.
8. The requirements for the installation of LPG tanks that are attached firmly to the vehicle were included.

### Gas supply while driving

For operating of gas equipment while driving, directive 2006/119/EC requires special safety devices that prevent non-combusted LPG from leaking in case of an accident.

### EN 16129 Annex D – the standard for regulators and automatic changeover systems

#### The main points of this standard are:

1. The working pressure of the LPG system is 30 mbar (throughout Europe).
2. The maximum flow rate is 1.5 kg/h.
3. The inlet pressure range is 0.3 to 16 bar. Hence, these pressure regulators are suitable for all LPGs (propane, butane and mixtures of these).
4. The pressure regulator must be equipped with a safety device to protect the consumer device against excessive pressure increases (protection pressure 150 mbar):
  - Pressure relief valve PRV
  - Overpressure safety device S2SR

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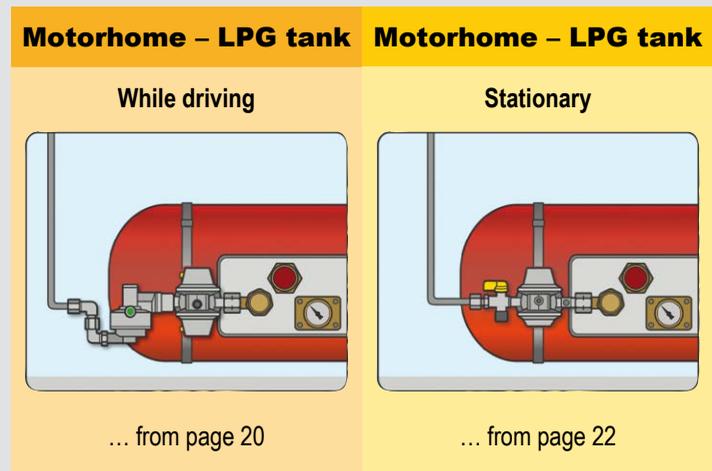
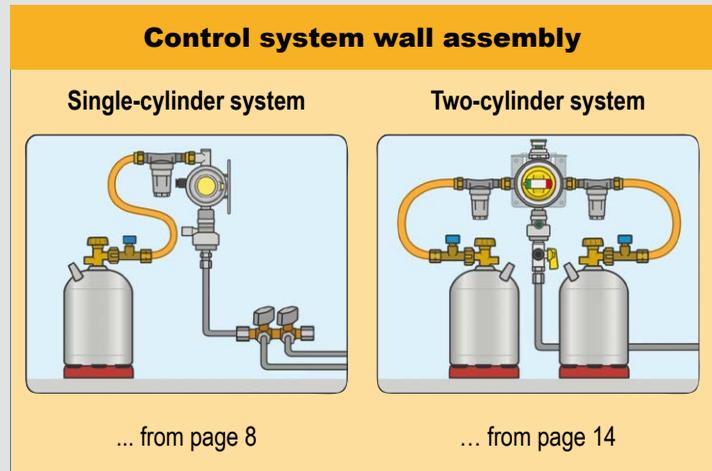
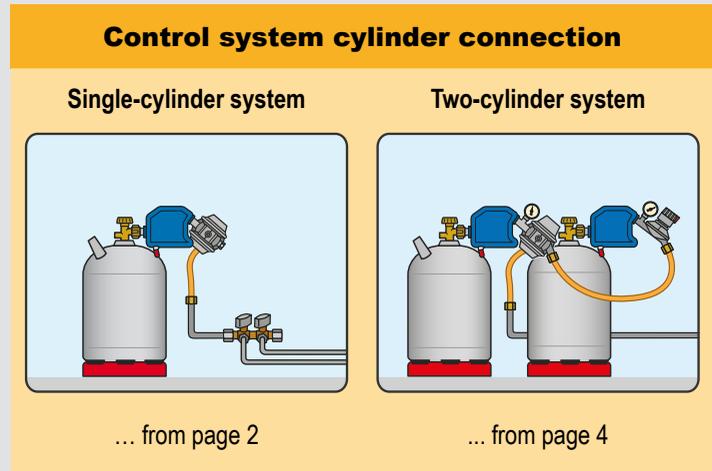
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**Product information:**

We only deliver products that do not contain chromium VI.

# FOR LPG IN LEISURE VEHICLES



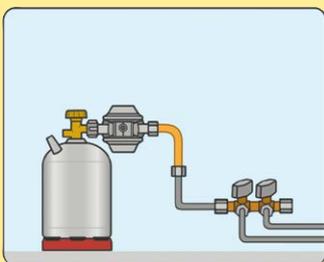
## MOTORHOMES AND CARAVANS



## OPERATION AND TESTING

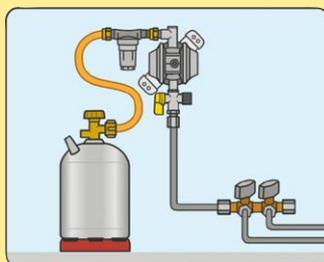
### Choice of pressure regulators

#### Cylinder connection



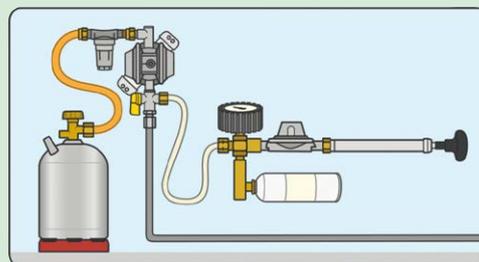
... from page 24

#### Wall assembly



... from page 28

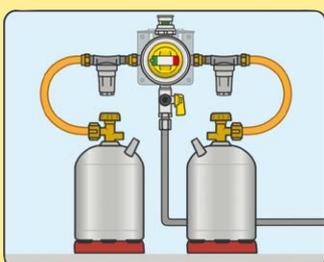
### Check for leaks by qualified persons



... from page 62

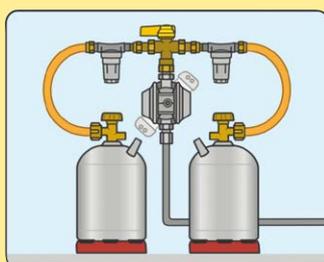
### Two-cylinder system

#### Automatic changeover



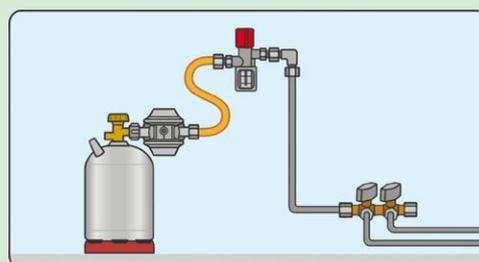
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#### Manual changeover



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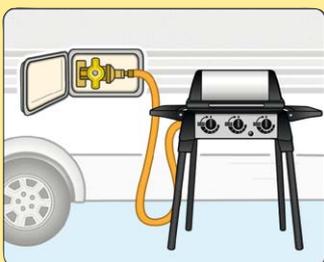
### Leak checking by the operator



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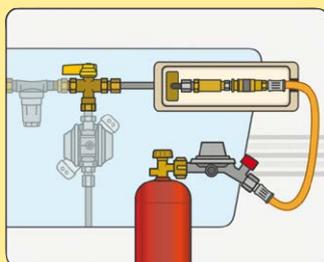
### External connection

#### LPG withdrawal



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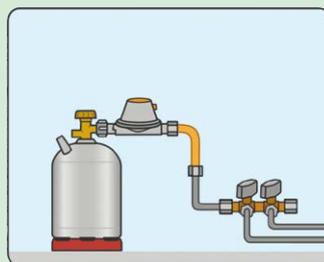
#### LPG feed



... from page 48

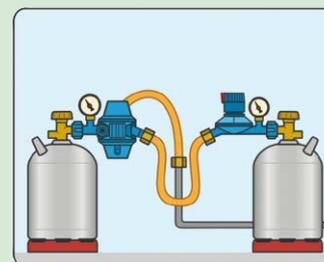
### Care and maintenance

#### Installation 50 mbar



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#### Two-cylinder system



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### Capacity stages of low pressure regulators

By using the calculation examples below, you can determine the correct capacity stage of the low pressure regulator for your vehicle. All you have to do is add up the required LPG volumes of the consumer equipment that you have installed.

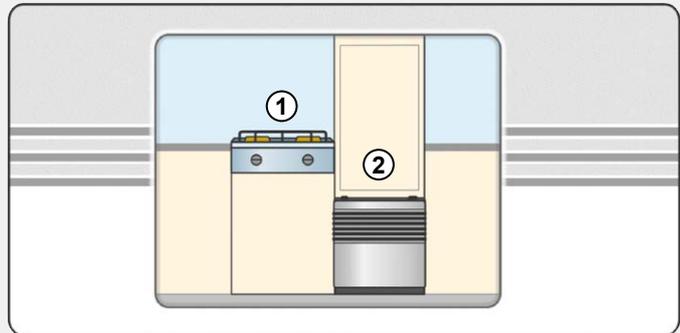


### INSTALLATION EXAMPLES

#### Capacity stage 1 – nominal flow rate 0.8 kg/h

**Installation example:**

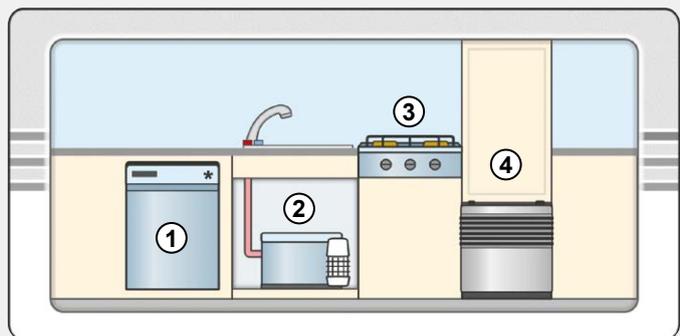
① Stove 2 flame	=	approx. 194 g/h
② Caravan heating	=	approx. 480 g/h
<b>Total consumption</b>	=	<b>approx. 674 g/h</b>



#### Capacity stage 2 – nominal flow rate 1.2 kg/h

**Installation example:**

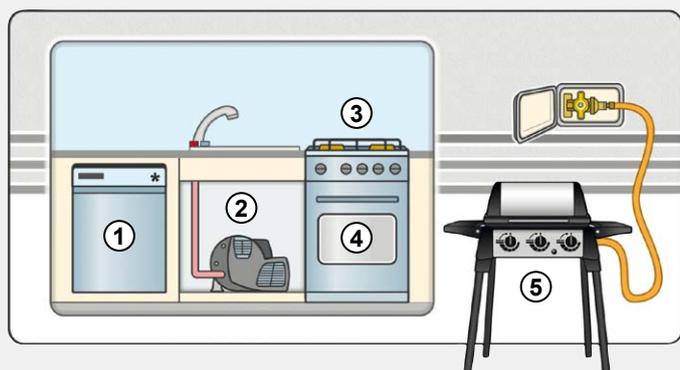
① Cooling device	=	approx. 80 g/h
② Boiler	=	approx. 120 g/h
③ Stove 3 flame	=	approx. 200 g/h
④ Caravan heating	=	approx. 480 g/h
<b>Total consumption</b>	=	<b>approx. 880 g/h</b>

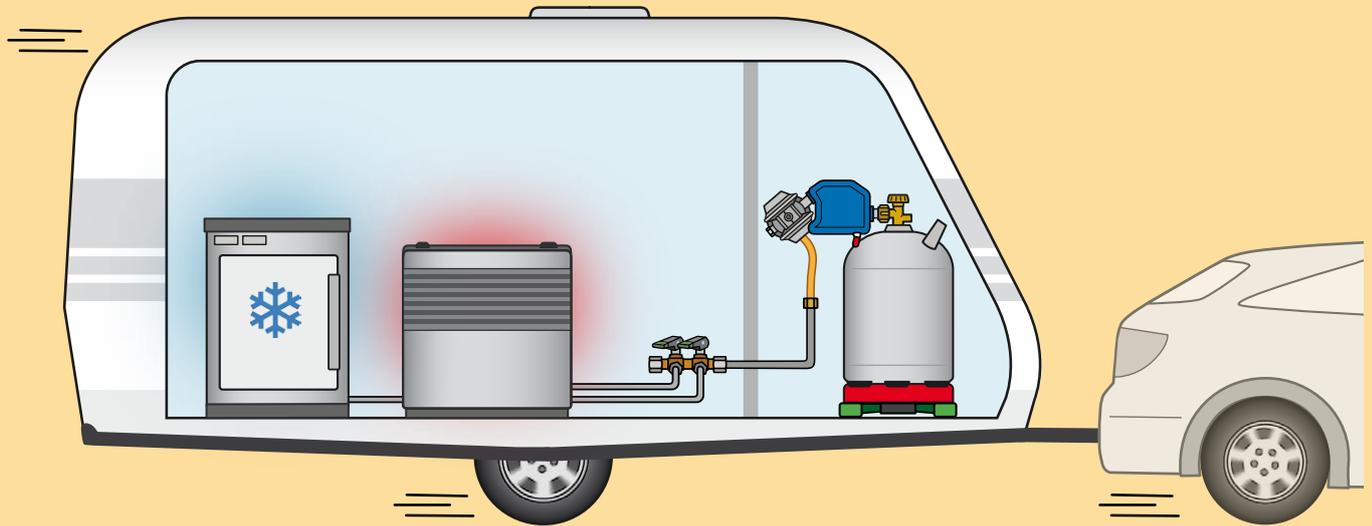


#### Capacity stage 3 – nominal flow rate 1.5 kg/h

**Installation example:**

① Cooling device	=	approx. 80 g/h
② Heater and water heater	=	approx. 480 g/h
③ Stove 4 flame	=	approx. 330 g/h
④ Oven	=	approx. 200 g/h
⑤ Gas barbecue	=	approx. 350 g/h
<b>Total consumption</b>	=	<b>approx. 1440 g/h</b>





**Caramatic SafeDrive is a safety pressure regulation system to operate single-cylinder systems in motorhomes and caravans also while driving.**

The unit consisting of low pressure regulator and crash sensor is mounted directly on the gas cylinder. A hose assembly connects the regulation system to the vehicle's piping.

The advantages of Caramatic SafeDrive are:

- Straightforward retrofitting, as no wall assembly of the regulator is required; the installation takes place directly on the gas cylinder
- Problem-free change of manufacturer to GOK
- No gas filter or excess flow valve necessary thanks to the installation of the system directly on the gas cylinders
- Low space requirement for the installation in the gas cylinder case
- Protection of the entire pipe system starting from the gas cylinder thanks to the crash sensor
- The gas cylinder can stay open at all times
- Gas supply to gas appliances also while driving



In contrast to the previous version, the crash sensor with pendulum solution from GOK offers the following advantages:

- faster and easier start-up and reset after response
- more precise performance and therefore less interference from incorrect response behaviour
- start-up possible with no problem, even if the leisure vehicle is in an inclined position



### Caramatic SafeDrive

safety gas pressure regulation device for the operation of single-cylinder systems in motorhomes and caravans while driving, for direct connection to the gas cylinder

consisting of: mechanical crash sensor with pendulum, low pressure regulator with over-pressure safety device S2SR, medium pressure hose assembly and regulator bracket

#### Advantages and equipment

- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- straightforward retrofitting, as no wall assembly of the regulators is required; the installation takes place directly on the gas cylinder
- low space requirement for installation in the gas cylinder case
- gas cylinder can also stay open all the time while driving
- increased safety, as in the event of an accident, the gas supply is stopped directly at the gas cylinder
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 1/4 lh nut x compr. fit. 10 x 450 mm
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping
- brackets for safe holding of the regulator on the wall, e.g. when replacing the gas cylinder

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate PED

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Caramatic SafeDrive cannot be used with an adapter for the gas cylinder with clip-on connector.

#### Caramatic SafeDrive

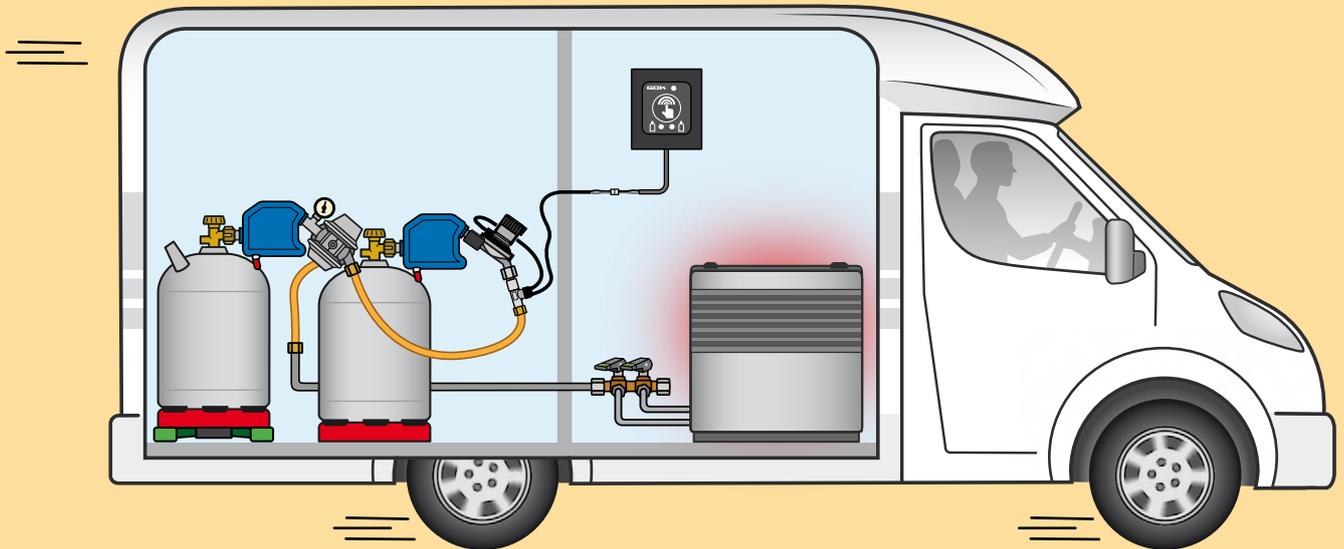
KLF	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	DE / AT / PL	<b>71 833 12</b>	
Brit.POL	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	GB propane	<b>71 833 07</b>	
EU-Shell	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	GB butane	<b>71 833 08</b>	
Ital.A	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	IT / GR / CY	<b>71 833 01</b>	
POL-WS	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	SE	<b>71 833 10</b>	
Shell-F	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	CH / BE	<b>71 833 02</b>	
KLF	x	compr. fit. 10 / 8	50 mbar	1.5 kg/h	DE / AT / PL	<b>71 835 12</b>	

#### Spare part

Fitting pipe socket 10 x compr. fit. 8	<b>67 223 00</b>	
Medium pressure hose assembly G 1/4 lh nut x compr. fit. 10 x 450 mm	<b>04 409 16</b>	

**NEW**





### **Caramatic SafeDrive PLUS is a unit to operate two-cylinder systems in motorhomes and caravans also while driving.**

The central and changeover regulators - each equipped with integrated crash sensor – are mounted to the two gas cylinders and connected to each other with a hose assembly. Another hose assembly provides the connection to the vehicle's piping.

The advantages of Caramatic SafeDrive PLUS are:

- Straightforward retrofitting, as no wall assembly of the regulators is required; the installation takes place directly on the gas cylinder
- Problem-free change of manufacturer to GOK
- No gas filter or excess flow valve necessary thanks to the installation of the system directly on the gas cylinders
- Low space requirement for the installation in the gas cylinder case
- Protection of the entire pipe system starting from the gas cylinder thanks to the crash sensor
- Automatic changeover – without interrupting the gas supply
- The gas cylinder can stay open at all times
- Gas supply to gas appliances also while driving
- Can be upgraded with the Caramatic BasicControl remote display



In contrast to the previous version, the crash sensor with pendulum solution from GOK offers the following advantages:

- faster and easier start-up and reset after response
- more precise performance and therefore less interference from incorrect response behaviour
- start-up possible with no problem, even if the leisure vehicle is in an inclined position



### Caramatic SafeDrive PLUS

safety gas pressure automatic changeover system for the operation of two-cylinder systems in motorhomes and caravans while driving, for direct connection to the gas cylinder

consisting of: central and changeover regulator with mechanical crash sensor with pendulum and pressure gauge, medium pressure hose assemblies and regulator bracket

#### Advantages and equipment

- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- straightforward retrofitting, as no wall assembly of the regulators is required; the installation takes place directly on the gas cylinder
- low space requirement for the installation in the gas cylinder case
- gas cylinder can also stay open all the time while driving
- increased safety, as in the event of an accident, the gas supply is stopped directly at the gas cylinder
- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- with pressure relief valve PRV
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 3/8 lh nut x G 3/8 lh nut x 450 mm to connect the two regulators
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 1/4 lh nut x compr. fit. 10 x 450 mm
- suitable for connection of the remote display Caramatic BasicControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping
- brackets for safe holding of the regulator on the wall, e.g. when replacing the gas cylinder

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate PED

#### Technical data

- maximum admissible pressure: PS 16 bar
- connections: outlet: central regulator: G 1/4 lh M  
changeover regulator: G 3/8 lh M
- outlet pressure: central regulator: 30 or 50 mbar  
changeover regulator: 150 mbar

**Note:** Caramatic SafeDrive PLUS cannot be used with adapter for the gas cylinder with clip-on connector.

#### Caramatic SafeDrive PLUS

KLF	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	DE / AT / PL	<b>71 843 12</b>	
Brit.POL	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	GB propane	<b>71 843 07</b>	
EU-Shell	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	GB butane	<b>71 843 08</b>	
Ital.A	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	IT / GR / CY	<b>71 843 01</b>	
POL-WF	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	SE	<b>71 843 10</b>	
Shell-F	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	CH / BE	<b>71 843 02</b>	
KLF	x	compr. fit. 10 / 8	50 mbar	1.5 kg/h	DE / AT / PL	<b>71 845 12</b>	

#### Spare part

Medium pressure hose assembly G 1/4 lh nut x compr. fit. 10 x 450 mm	<b>04 409 16</b>	
Medium pressure hose assembly G 3/8 lh nut x G 3/8 lh nut x 450 mm	<b>04 505 11</b>	
Fitting pipe socket 10 x compr. fit. 8	<b>67 223 00</b>	

#### Accessories

Caramatic BasicControl - Remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS	<b>71 392 00</b>	
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**NEW**





### Caramatic BasicControl

remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS

Convenient information and control unit for monitoring of the operating and reserve cylinders of the two-cylinder system Caramatic BasicTwo for motorhomes, caravans and boats or the Caramatic SafeDrive PLUS for motorhomes and caravans.

consisting of: information and control unit including connection cable 6 m, cover frame, pressure and reed sensor for remote display with connection cable 2 m

#### Advantages and equipment

- remote indication of the operating status (normal or reserve operation) of the gas cylinders
- always know whether and, if so, which of the two gas cylinders is empty and needs to be changed
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the two-cylinder system Caramatic BasicTwo or Caramatic SafeDrive PLUS
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- CE marking according to ATEX and EMC

#### Technical data

- supply voltage: 12 V

#### Caramatic BasicControl

##### Remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS

Information and control unit with pressure and reed sensor for the remote display **71 392 00** 

##### Spare part

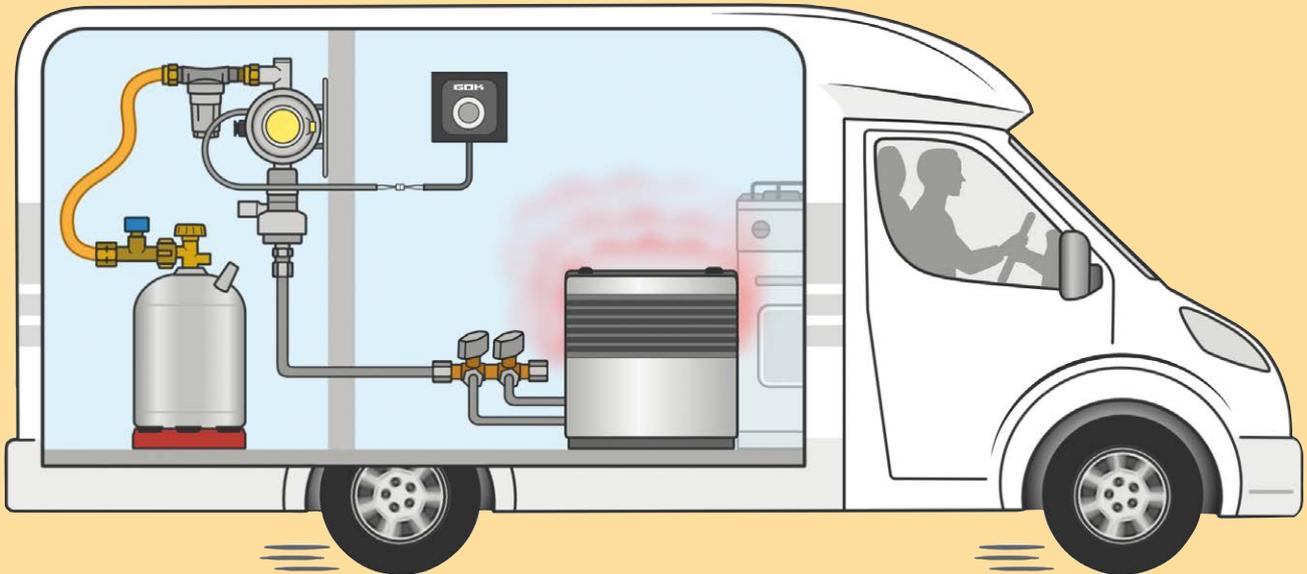
Cover frame, colour: anthracite **71 391 00** 

##### Accessories

Extension cable 10 m **71 392 01** 







### Safety of gas supply while driving

If, for example, the on-board gas heating is also to be used to heat the vehicle while driving, specialist safety devices must be installed to prevent gas leakage in case of an accident.

The combination of an excess flow valve for the high pressure hose assembly and a mechanical crash sensor for the piping continuously monitors the LPG installation.



In contrast to the previous version, the crash sensor with pendulum solution from GOK offers the following advantages:

- faster and easier start-up and reset after response
- more precise performance and therefore less interference from incorrect response behaviour
- start-up possible with no problem, even if the leisure vehicle is in an inclined position

The connection to the gas cylinder is made with the suitable country-specific excess flow valve and a Caramatic ConnectDrive high pressure hose assembly without the Caramatic DriveOne low pressure regulator needing to be replaced.

Between the hose assembly and the low pressure regulator is a gas filter, which protects the connected fittings and devices from soiling.



### Caramatic DriveOne Set

safety gas pressure regulation device for operating single-cylinder systems in motorhomes and caravans while driving

consisting of: Caramatic ConnectDrive (length: 450 mm), Caramatic ConnectClean 2.0 with fixing bracket, low pressure regulator with over-pressure safety device S2SR, mechanical crash sensor with pendulum, test point and fixing bracket

#### Advantages and equipment

- includes all components for start-up a single-cylinder system suitable for gas supply while driving
- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate PED
- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate GGV

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV regulation 79) and is suitable for use in commercially used motorhomes and caravans.

### Caramatic DriveOne Set

#### horizontal installation

##### straight inlet

KLF	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 113 23</b>	
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#### vertical installation

##### 90° inlet

KLF	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 113 13</b>	
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#### Spare parts

Caramatic ConnectDrive G.12 (KLF) x M20 x 1.5 nut x 450 mm	<b>71 884 12</b>	
Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core	<b>71 781 60</b>	
Filter element 2.0 without supporting core / cont. 2 units	<b>71 781 90</b>	
Additional fixing bracket for Caramatic ConnectClean 2.0	<b>71 781 81</b>	

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	
Caramatic TwoControl with Eis-Ex regulator heating	<b>71 300 20</b>	
Eis-Ex regulator heating with connection cable	<b>71 390 20</b>	





### Caramatic DriveOne

safety gas pressure regulation device for operating single-cylinder systems in motorhomes and caravans while driving

consisting of: low pressure regulator with over-pressure safety device S2SR, mechanical crash sensor with pendulum and test point

#### Advantages and equipment

- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages of crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- can be used all over Europe through the use of country-specific high pressure hose assemblies – Caramatic ConnectDrive (not included in delivery)
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

#### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV Regulation 79) and is suitable for use in commercially used motorhomes and caravans.
- For Caramatic DriveOne with wall bracket it is recommended to use the gas filter Caramatic ConnectClean 2.0 (part no. 71 781 03) to protect the LPG system in the vehicle from oily aerosols and evaporation residues!

#### Caramatic DriveOne with wall bracket

##### horizontal installation

##### straight inlet

M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 813 23</b>	
M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 815 21</b>	

##### vertical installation

##### 90° inlet

M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 813 13</b>	
M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 815 11</b>	

#### Accessories

Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 1 unit	<b>71 781 03</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	
Caramatic TwoControl with Eis-Ex regulator heating	<b>71 300 20</b>	





### Caramatic ConnectDrive

high pressure hose assembly with excess flow device for connection to all wall-mounted low pressure regulators with inlet M20 x 1.5 M, in particular for gas supply while driving and to the gas cylinder valve



#### Advantages and equipment

- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections
- excess flow device prevents gas escape in case of damage or if the hose assembly becomes detached, and blocks the gas flow, as soon as the nominal flow rate is exceeded by 10 %
- **manual excess flow valve SBS/MA:**  
no delay or leakage volume, but manual opening required

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- The 750 mm long hose assembly may only be used for cylinder brackets with a pull-out device.

### Caramatic ConnectDrive PS 30 bar

**hose dimensions 6.3 x 5.0 mm**

**connections: cylinder connection x regulator connection**

G.12 (KLF)	x	M20 x 1.5 nut	x	450 mm	DE / AT / PL	<b>71 884 12</b>	
G.12 (KLF)	x	M20 x 1.5 nut	x	750 mm	DE / AT / PL	<b>71 887 12</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	450 mm	GB propane	<b>71 884 07</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	750 mm	GB propane	<b>71 887 07</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	450 mm	GB butane	<b>71 884 08</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	750 mm	GB butane	<b>71 887 08</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	450 mm	IT / GR / CY	<b>71 884 01</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	750 mm	IT / GR / CY	<b>71 887 01</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	450 mm	SE	<b>71 884 10</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	750 mm	SE	<b>71 887 10</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	CH / BE	<b>71 884 03</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	CH / BE	<b>71 887 03</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	450 mm	NL / RU	<b>71 884 23</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	750 mm	NL / RU	<b>71 887 23</b>	
X.7 (Shell)	x	M20 x 1.5 nut	x	450 mm	SI / CZ / HR / SK / RS	<b>71 884 27</b>	
X.7 (Shell)	x	M20 x 1.5 nut	x	750 mm	SI / CZ / HR / SK / RS	<b>71 887 27</b>	



### Caramatic ConnectDrive PS 20 bar

**hose dimensions 6.6 x 4.0 mm**

**connections: cylinder connection x regulator connection**

G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	FR	<b>71 884 02</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	FR	<b>71 887 02</b>	

#### Spare parts

Gasket for EU-Shell / Shell-F, material: NBR	<b>20 009 81</b>	
Gasket for Ital.A, material: NBR	<b>20 011 05</b>	
Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Gasket for POL-WF / POL-WS, material: NBR	<b>02 513 37</b>	
Gasket for KLF, material: NBR / cont. 5 units	<b>80 016 00</b>	
Gasket for EU-Shell / Shell-F, material: NBR / cont. 5 units	<b>80 009 00</b>	





### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70

Filter element 2.0 without supporting core / cont. 2 units

71 781 90

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81



### 90° elbow

to connect high pressure hose assemblies to a low pressure regulator or to combine pressure regulators with automatic changeover valves

#### 90° elbow

##### male thread x coupling nut

M20 x 1.5 M x M20 x 1.5 nut

71 509 00



### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

#### Advantages and equipment

- with fastening clip

#### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

#### Note

- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

#### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

60 300 92





### Caramatic TwoControl – Regulator heating

convenient information and control unit of the de-icer regulator heating in the leisure vehicle consisting of: information and control unit including connection cable 6 m, cover frame and de-icer regulator heating including connection cable 2 m

#### Advantages and equipment

- central control unit to switch on/off the Eis-Ex regulator heating
- remote indication of the operating status of the regulator heating
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the models of the Caramatic line DriveOne, BasicOne with test point as well as the Truma model MonoControl CS in silver colour
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- Conformity assessment procedure according to ATEX
- CE marking according to EMC
- Type approval according to UNECE R 10

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Regulator heating

Information and control unit with Eis-Ex regulator heating

71 300 20

#### Spare parts

Information and control unit with connection cable

71 391 20

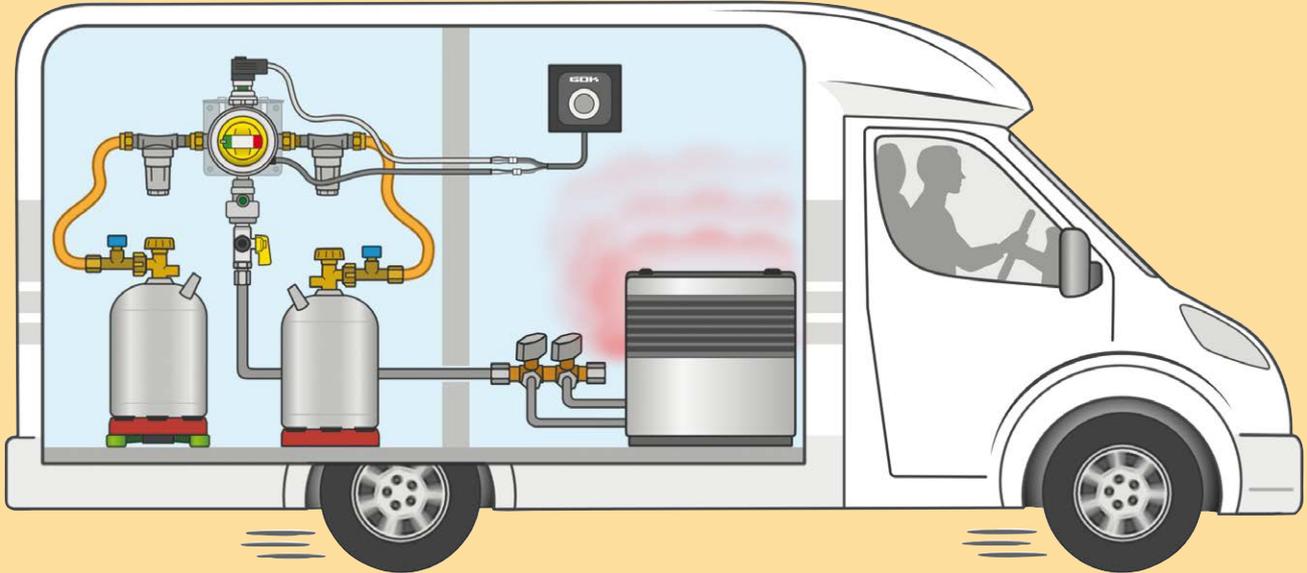
Cover frame, colour: anthracite

71 391 00

Eis-Ex regulator heating with connection cable

71 390 20





### Motorhome and caravan – Gas supply while driving

If, for example, the on-board gas heating is also to be used to heat the vehicle during the journey, special safety devices must be installed to prevent gas leakage in the event of a traffic accident.

The combination of an excess flow device for the high pressure hose assembly and a mechanical crash sensor for the piping monitors the LPG installation continuously.



In contrast to the previous version, the crash sensor with pendulum solution from GOK offers the following advantages:

- faster and easier start-up and reset after response
- more precise performance and therefore less interference from incorrect response behaviour
- start-up possible with no problem, even if the leisure vehicle is in an inclined position

The system is particularly convenient to monitor with the Caramatic TwoControl. With this information and control unit the camper always has an eye on which gas cylinder gas is currently in use, and can operate the Eis-Ex regulator heating remotely.

The connection to the gas cylinder is made with the suitable country-specific excess flow device and a high pressure hose assembly without the low pressure regulator having to be replaced.

Between the hose assembly and the low pressure regulator is a gas filter, which protects the connected fittings and devices from soiling.



### Caramatic DriveTwo Set

safety gas pressure regulation device with automatic changeover valve for the operation of two-cylinder systems in motorhomes and caravans while driving, for connection to gas cylinders with high pressure hose assemblies to regulate the pressure to the nominal pressure of the gas equipment

consisting of: 2 x Caramatic ConnectDrive (length: 450 mm), 2 x Caramatic ConnectClean 2.0 with fixing bracket, automatic changeover valve, low pressure regulator with pressure relief valve PRV, mechanical crash sensor with pendulum, control knob, operation and reserve display, non-return gas valve, test point and wall bracket

### Advantages and equipment

- includes all components for start-up a two-cylinder system suitable for gas supply while driving
- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- even gas supply through the optimum use of the gas cylinder content
- displays which gas cylinder gas is being taken from
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- suitable for connection of a remote display, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate PED
- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate GGV

### Technical data

- maximum admissible pressure: PS 16 bar

### Caramatic DriveTwo Set horizontal installation

2 x KLF x compr. fit. 10 / 8      30 mbar      1.5 kg/h      **71 123 23**

### vertical installation

2 x KLF x compr. fit. 10 / 8      30 mbar      1.5 kg/h      **71 123 13**

### Spare part

Caramatic ConnectDrive G.12 (KLF) x M20 x 1.5 nut x 450 mm      **71 884 12**

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core      **71 781 70**

Filter element 2.0 without supporting core / cont. 2 units      **71 781 90**

Additional fixing bracket for Caramatic ConnectClean 2.0      **71 781 81**

Fitting for pipe socket 10 x compr. fit. 8      **67 223 00**

Sealing nut with fastening clip M20 x 1.5 nut      **71 509 30**

### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut      **71 509 00**

Connection set M20 x 1.5 M x compr. fit. 10 / M20 x 1.5 F x compr. fit. 10      **71 509 20**

Caramatic TwoControl with transmitter for remote display and Eis-Ex regulator heating      **71 300 00**

Caramatic TwoControl with Eis-Ex regulator heating      **71 300 20**

Eis-Ex regulator heating with connection cable      **71 390 20**





### Caramatic DriveTwo

safety gas pressure regulation device with automatic changeover valve for the operation of two-cylinder systems in motorhomes and caravans while driving, for connection to gas cylinders with high pressure hose assemblies to regulate the pressure to the nominal pressure of the gas equipment

consisting of: automatic changeover valve, low pressure regulator with pressure relief valve PRV, mechanical crash sensor with pendulum, control knob, operation and reserve display, non-return gas valve, test point and wall bracket

#### Advantages and equipment

- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- even gas supply through the optimum use of the gas cylinder content
- displays which gas cylinder gas is being taken from
- can be used all over Europe through the use of country-specific high pressure hose assemblies – Caramatic ConnectDrive (not included in delivery)
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- suitable for connection of a remote display, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

#### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The gas filter Caramatic ConnectClean 2.0 (part no. 71 781 04 / cont. 2 units) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residue!

### Caramatic DriveTwo

#### horizontal installation

2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 823 23</b>	
2 x M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 825 21</b>	

#### vertical installation

2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 823 13</b>	
2 x M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 825 11</b>	

#### Spare part

Sealing nut with fastening clip M20 x 1.5 nut	<b>71 509 30</b>	
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#### Accessories

Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 2 pieces	<b>71 781 04</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	
Connection set M20 x 1.5 M x compr. fit. 10 / M20 x 1.5 F x compr. fit. 10	<b>71 509 20</b>	
Fitting for pipe socket 8 x compr. fit. 10	<b>62 082 00</b>	
Fitting for pipe socket 10 x compr. fit. 8	<b>67 223 00</b>	
Caramatic TwoControl with transmitter for remote display and Eis-Ex regulator heating	<b>71 300 00</b>	



horizontal



vertical



### Caramatic ConnectDrive

high pressure hose assembly with excess flow device for connection to all wall-mounted low pressure regulators with inlet M20 x 1.5 M, in particular for gas supply while driving and to the gas cylinder valve



#### Advantages and equipment

- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections
- excess flow device prevents gas escape in case of damage or if the hose assembly becomes detached, and blocks the gas flow, as soon as the nominal flow rate is exceeded by 10 %
- **manual excess flow valve SBS/MA:**  
no delay or leakage volume, but manual opening required

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- The 750 mm long hose assembly may only be used for cylinder brackets with a pull-out device.

### Caramatic ConnectDrive PS 30 bar

**hose dimensions 6.3 x 5.0 mm**

**connections: cylinder connection x regulator connection**

G.12 (KLF)	x	M20 x 1.5 nut	x	450 mm	DE / AT / PL	<b>71 884 12</b>	
G.12 (KLF)	x	M20 x 1.5 nut	x	750 mm	DE / AT / PL	<b>71 887 12</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	450 mm	GB propane	<b>71 884 07</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	750 mm	GB propane	<b>71 887 07</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	450 mm	GB butane	<b>71 884 08</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	750 mm	GB butane	<b>71 887 08</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	450 mm	IT / GR / CY	<b>71 884 01</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	750 mm	IT / GR / CY	<b>71 887 01</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	450 mm	SE	<b>71 884 10</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	750 mm	SE	<b>71 887 10</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	CH / BE	<b>71 884 03</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	CH / BE	<b>71 887 03</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	450 mm	NL / RU	<b>71 884 23</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	750 mm	NL / RU	<b>71 887 23</b>	
X.7 (Shell)	x	M20 x 1.5 nut	x	450 mm	SI / CZ / HR / SK / RS	<b>71 884 27</b>	
X.7 (Shell)	x	M20 x 1.5 nut	x	750 mm	SI / CZ / HR / SK / RS	<b>71 887 27</b>	



### Caramatic ConnectDrive PS 20 bar

**hose dimensions 6.6 x 4.0 mm**

**connections: cylinder connection x regulator connection**

G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	FR	<b>71 884 02</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	FR	<b>71 887 02</b>	

#### Spare parts

Gasket for EU-Shell / Shell-F, material: NBR	<b>20 009 81</b>	
Gasket for Ital.A, material: NBR	<b>20 011 05</b>	
Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Gasket for POL-WF / POL-WS, material: NBR	<b>02 513 37</b>	
Gasket for KLF, material: NBR / cont. 5 units	<b>80 016 00</b>	
Gasket for EU-Shell / Shell-F, material: NBR / cont. 5 units	<b>80 009 00</b>	





### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03 

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04 

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60 

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70 

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81 



### 90° elbow

to connect high pressure hose assemblies to a low pressure regulator or to combine pressure regulators with automatic changeover valves

#### 90° elbow

male thread x coupling nut

M20 x 1.5 M x M20 x 1.5 nut

71 509 00 



### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

#### Advantages and equipment

- with fastening clip

#### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

#### Note

- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

#### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

60 300 92 





### Caramatic TwoControl – Remote display and regulator heating

convenient information and control unit in the leisure vehicle to monitor the operating and reserve cylinder in two-cylinder systems as well as the de-icer regulator heating

consisting of: information and control unit including connection cable, cover frame, transmitter for remote display including connection cable and de-icer regulator heating including connection cable

#### Advantages and equipment

- central control unit to switch on/off the remote display and the Eis-Ex regulator heating
- remote indication of the operating status of the regulator heating
- remote indication of the operating status (normal or reserve operation) of the gas cylinders
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the models of the Caramatic line DriveTwo, ProTwo, SwitchTwo as well as the Truma models DuoControl CS and DuoComfort in silver colour
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- Conformity assessment procedure according to ATEX
- CE marking according to EMC
- Type approval according to UNECE R 10

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Remote display and regulator heating

Information and control unit with transmitter for remote display and Eis-Ex regulator heating

71 300 00 

#### Spare parts

Information and control unit with connection cable

71 391 20 

Cover frame, colour: anthracite

71 391 00 

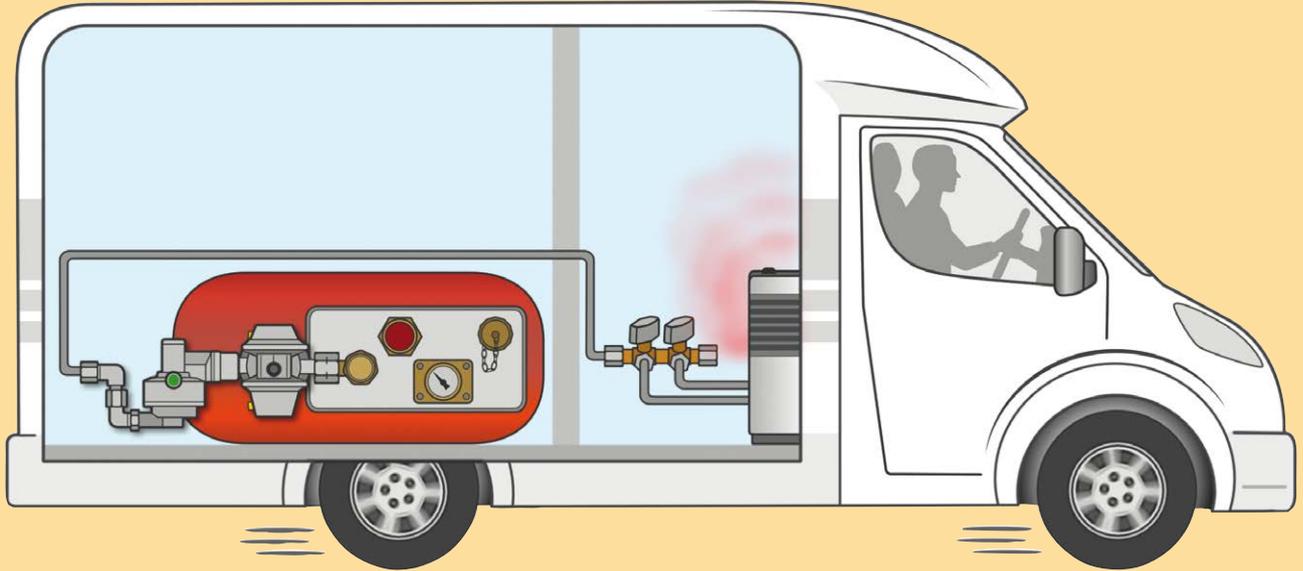
Transmitter for remote display with connection cable

71 390 00 

Eis-Ex regulator heating with connection cable

71 390 20 





### Safety for gas supply while driving – with a gas tank

If, for example, the on-board gas heating is also to be used to heat the vehicle also during the journey, special safety devices must be installed to prevent gas leakage in the event of an accident. This applies as well for vehicles which are fitted with a gas tank

For the safe operation of these vehicles, the combination of a low pressure regulator and mechanical crash sensor is connected directly onto the gas tank.



In contrast to the previous version, the crash sensor with pendulum solution from GOK offers the following advantages:

- faster and easier start-up and reset after response
- more precise performance and therefore less interference from incorrect response behaviour
- start-up possible with no problem, even if the leisure vehicle is in an inclined position



### Caramatic DriveOne

safety gas pressure regulation device for operating single-cylinder systems in motorhomes and caravans while driving

consisting of: low pressure regulator with over-pressure safety device S2SR, mechanical crash sensor with pendulum and test point

#### Advantages and equipment

- gas supply while driving using the integrated mechanical crash sensor with pendulum, which blocks the gas flow in case of an accident
- Advantages crash sensor with pendulum:
  - faster and easier start-up and reset after response
  - more precise performance and therefore less interference from incorrect response behaviour
  - start-up possible with no problem, even if the leisure vehicle is in an inclined position
- can be used all over Europe through the use of country-specific high pressure hose assemblies – Caramatic ConnectDrive (not included in delivery)
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl

#### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV Regulation 79) and is suitable for use in commercially used motorhomes and caravans.

#### Caramatic Drive One without wall bracket

##### horizontal installation

##### straight inlet

##### for LPG tank with 90° tank panel

Komb.A x compr. fit. 10      30 mbar      1.5 kg/h      **71 813 34** 

##### for LPG tank with 105° tank panel

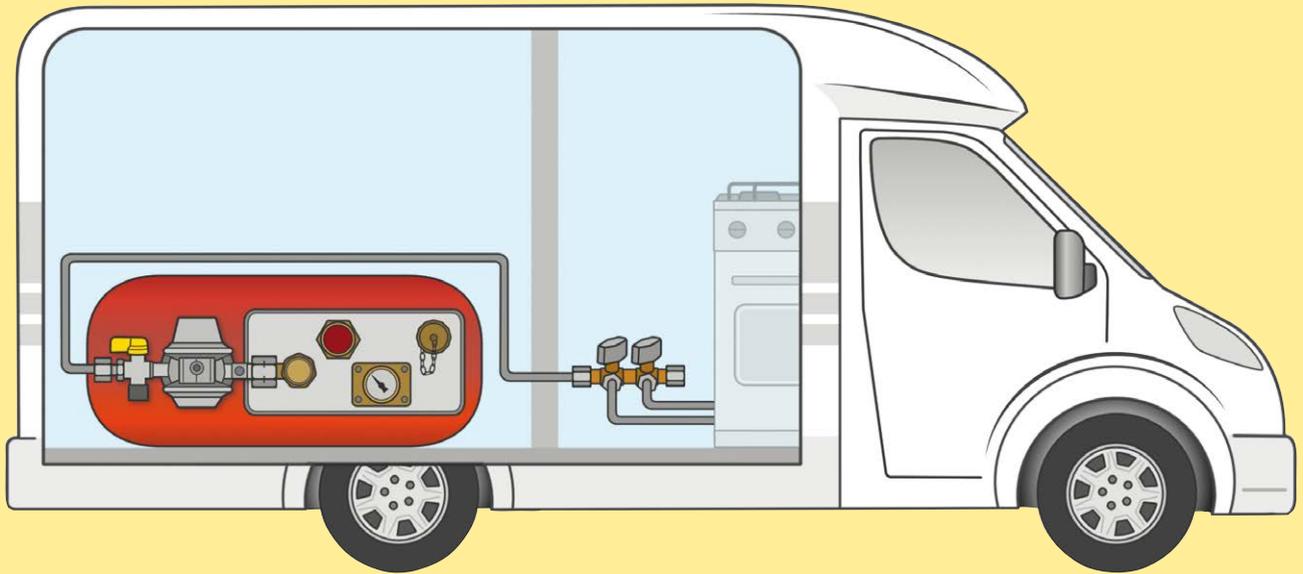
Komb.A x compr. fit. 10      30 mbar      1.5 kg/h      **71 813 35** 

#### Accessories

Caramatic TwoControl with Eis-Ex regulator heating

**71 300 20** 





### **The classic connection for the LPG tank**

A low pressure regulator with an over-pressure safety device S2SR, integrated test point and ball valve is used to supply the LPG installation with LPG tank.



### Low pressure regulator type EN61-DS

for connection to LPG tanks firmly installed on the vehicle to regulate the pressure to the nominal pressure of the gas equipment

#### Advantages and equipment

- overpressure safety valve S2SR to protect consumer equipment against inadmissible high pressures
- test point for leak testing the LPG system without disassembling the pressure regulating device
- version with combined fitting for optional connection to 5, 11 or 33 kg gas cylinders

#### Conformity

- EC type examination certificate PED (EN 16129, annex D)
- EC type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)
- UKCA type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)

#### Technical data

- maximum admissible pressure: PS 16 bar

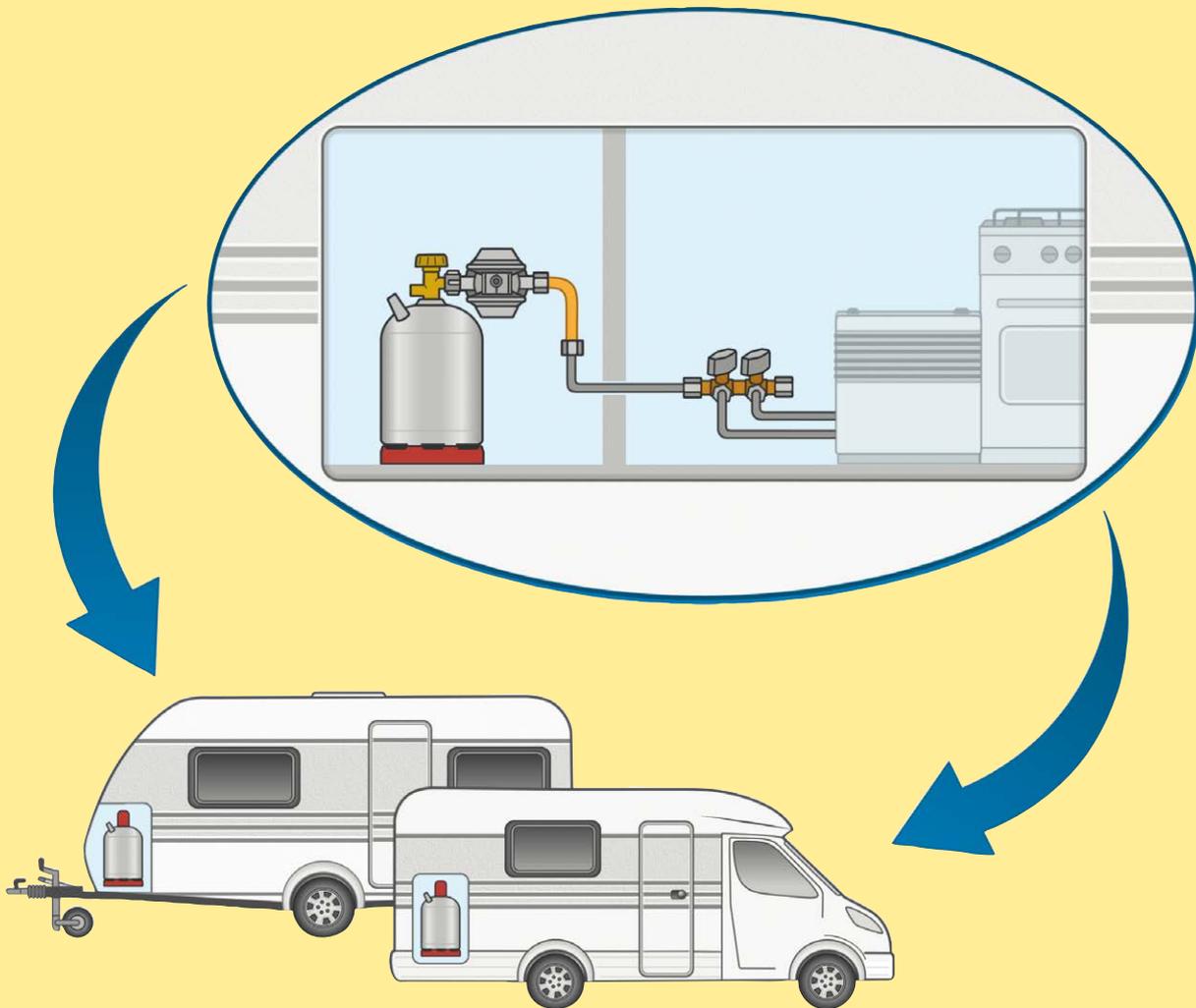
#### Low pressure regulator type EN61-DS with coupling nut type M and olive type D-MS

Komb.A	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 293 06</b>	
compr. fit. 8	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 293 05</b>	

#### Accessories

Fitting GF F x compr. fit. 8	<b>62 531 00</b>	
Fitting 1/2 UNF F x GF M	<b>62 528 00</b>	
Fitting 1/2 UNF F x compr. fit. 8	<b>62 527 00</b>	
Fitting 1/2 UNF F x pipe socket 8	<b>62 523 00</b>	





### **Classic connection to gas cylinders**

The tried and tested connection solution for motorhomes and caravans is the classic method of connecting a gas cylinder to the supply line of the vehicle.

The low pressure regulator is installed directly to the gas cylinder. The connection to the supply line of the vehicle is made with a medium pressure hose assembly.



### Caramatic BasicOne

for connection to gas cylinders to regulate the pressure to the nominal pressure of the gas equipment consisting of: low pressure regulator with integrated safety device against overpressure

#### Advantages and equipment

- version with pressure gauge for leak testing e.g. when the cylinder is replaced
- version with extended inlet connector, 90° outlet suitable for VW camper vans with Westfalia fit-out

#### Conformity

- EC type examination certificate PED (EN 16129, annex D)
- EC type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)
- UKCA type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The nominal flows of all the devices must be added together to choose the right capacity stage.
- Version type EN61-DS fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV Regulation 79) and is suitable for use in commercially used motorhomes and caravans!

### Caramatic BasicOne

#### capacity stage 1, Type EN61 with PRV pressure relief valve

##### straight outlet

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	<b>61 280 27</b>	
KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 00</b>	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	<b>61 281 00</b>	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 281 01</b>	

##### 90° outlet

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	<b>61 280 30</b>	
KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 15</b>	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	<b>61 280 33</b>	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 32</b>	

##### with extended inlet connector

##### 90° outlet

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 14</b>	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 34</b>	

##### U-form

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		<b>61 280 05</b>	
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#### capacity stage 2, Type EN71 with safety pressure relief valve PRV

##### straight outlet

KLF	x	G 1/4 lh M	30 mbar	1.2 kg/h	with pressure gauge	<b>61 285 02</b>	
KLF	x	G 1/4 lh M	30 mbar	1.2 kg/h		<b>61 285 00</b>	
Shell-F	x	G 1/4 lh M	30 mbar	1.2 kg/h	with pressure gauge	<b>61 286 02</b>	
Shell-F	x	G 1/4 lh M	30 mbar	1.2 kg/h		<b>61 286 00</b>	

#### capacity stage 3, Type EN61-DS with overpressure safety device S2SR

##### straight outlet

KLF	x	G 1/4 lh M	30 mbar	1.5 kg/h	with pressure gauge	<b>61 290 03</b>	
KLF	x	G 1/4 lh M	30 mbar	1.5 kg/h		<b>61 290 05</b>	
Shell-F	x	G 1/4 lh M	30 mbar	1.5 kg/h	with pressure gauge	<b>61 293 04</b>	
Shell-F	x	G 1/4 lh M	30 mbar	1.5 kg/h		<b>61 293 03</b>	

##### 90° outlet

KLF	x	G 1/4 lh M	30 mbar	1.5 kg/h		<b>61 290 11</b>	
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### Medium pressure hose assembly rubber

to connect fittings, consumer equipment and piping

#### Conformity

- DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 10 bar
- hose: **rubber with textile lining**
- cold-resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.

### Medium pressure hose assembly rubber

**hose dimensions 6.3 x 3.5 mm**

**connections: coupling nut x compression fitting**

**with coupling nut type M and olive type D**

G 1/4 lh nut	x	compr. fit. 8	x	400 mm	<b>64 402 00</b>	
G 1/4 lh nut	x	compr. fit. 8	x	750 mm	<b>64 405 01</b>	
G 1/4 lh nut	x	compr. fit. 10	x	400 mm	<b>64 409 00</b>	
G 1/4 lh nut	x	compr. fit. 10	x	750 mm	<b>64 409 02</b>	

**Other versions, connections or dimensions on request.**

### Medium pressure hose assembly plastic

to connect fittings, consumer equipment and piping

#### Conformity

- DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 10 bar
- hose: **plastic with textile lining**

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.

### Medium pressure hose assembly plastic

**hose dimensions 6.3 x 3.5 mm**

**connections: coupling nut x compression fitting**

**with coupling nut type M and olive type D**

G 1/4 lh nut	x	compr. fit. 8	x	400 mm	<b>64 402 02</b>	
G 1/4 lh nut	x	compr. fit. 10	x	400 mm	<b>64 409 09</b>	

**Other versions, connections or dimensions on request.**



-30 °C





### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

### Advantages and equipment

- with fastening clip

### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

### Note

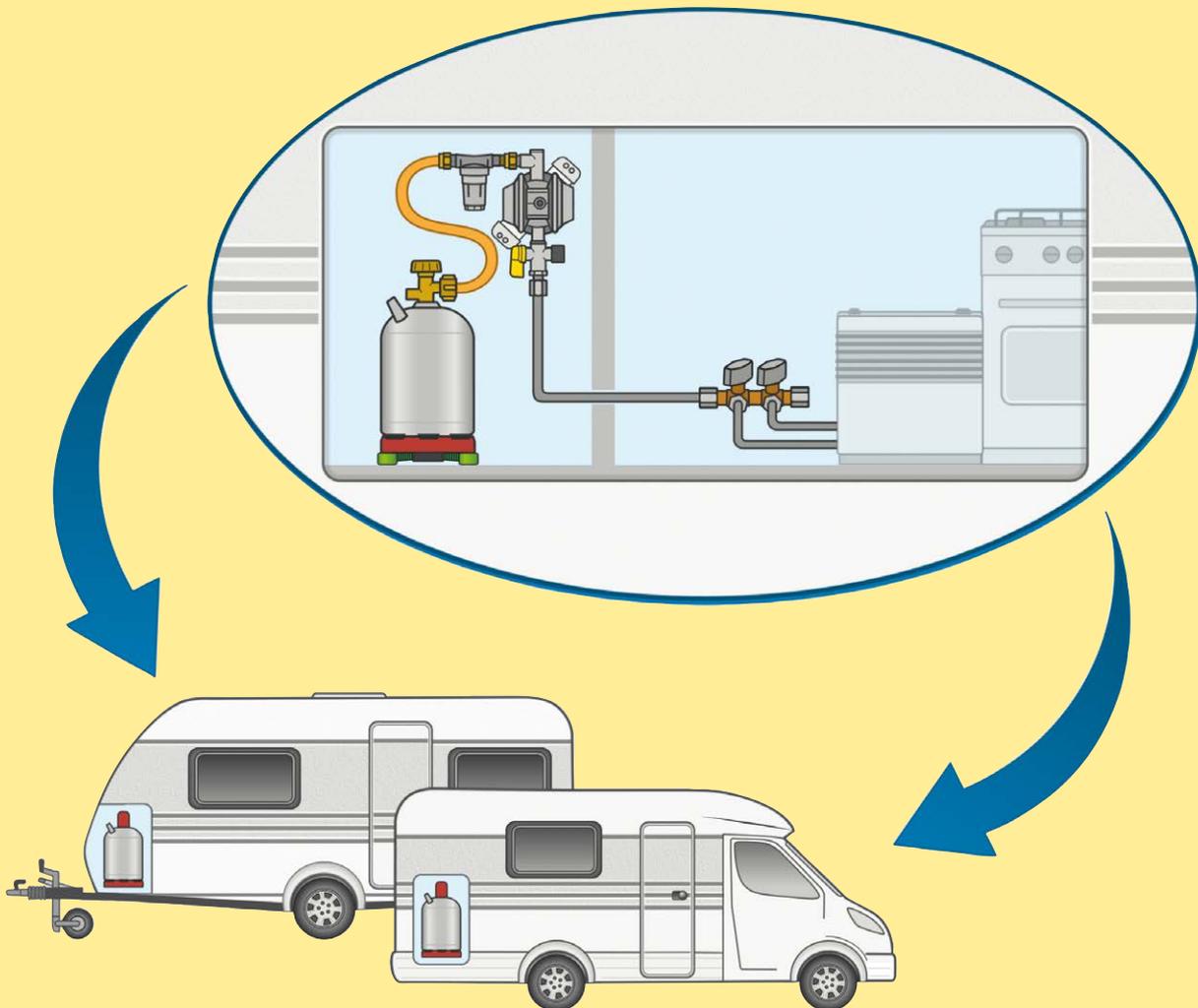
- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

60 300 92 





### **Travel made easy**

One Europe – many cylinder connections. To plan your trip in a more flexible way, we recommend a low pressure regulator with a wall bracket.

The connection to the gas cylinder is made with the suitable country-specific high pressure hose assembly without the low pressure regulator having to be replaced.



### Caramatic BasicOne

pressure to the nominal pressure of the gas equipment

consisting of: low pressure regulator with integrated safety device against overpressure and wall bracket

#### Advantages and equipment

- compression fitting with coupling nut type M and olive type D-MS
- version with test point for leak testing the LPG system without disassembling the pressure regulating device
- version with test point suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- version with pressure gauge for leak testing e.g. when the cylinder is replaced

#### Conformity

- EC type examination certificate PED (EN 16129, annex D)
- EC type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)
- UKCA type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The nominal flows of all the devices must be added together to choose the right capacity stage.
- The gas filter Caramatic ConnectClean 2.0 (part no. 71 781 03) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residue!
- Version type EN61-DS fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV Regulation 79) and is suitable for use in commercially used motorhomes and caravans!

#### Caramatic BasicOne with test point capacity stage 3, type EN61-DS with over-pressure safety device S2SR 90° inlet

##### without pressure gauge

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 294 02</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 294 03</b>	

#### Caramatic BasicOne without test point capacity stage 2, type EN71 with safety pressure relief valve PRV straight inlet

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.2 kg/h	<b>61 287 05</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.2 kg/h	<b>61 287 06</b>	

#### capacity stage 3, type EN61-DS with overpressure safety device S2SR with pressure gauge

M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 291 03</b>	
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##### without pressure gauge

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 291 01</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 291 02</b>	

#### Accessories

Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 1 unit	<b>71 781 03</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	





### Caramatic ConnectBasic

to connect the gas cylinder and regulator

#### Advantages and equipment

- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections

#### Conformity

- version PS 30 bar: DVGW [German Association of Gas and Water] type test certificate
- version PS 20 bar: NF approved

#### Technical data

- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.
- The 750 mm long hose assembly may only be used for cylinder brackets with a pull-out device.



-30 °C

#### Caramatic ConnectBasic PS 30 bar

hose dimensions 6.3 x 5.0 mm

connections: cylinder connection x regulator connection

G.12 (KLF)	x	M20 x 1.5 nut	x	450 mm	DE / AT / PL	<b>71 684 12</b>	
G.12 (KLF)	x	M20 x 1.5 nut	x	750 mm	DE / AT / PL	<b>71 687 12</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	450 mm	GB propane	<b>71 684 07</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	750 mm	GB propane	<b>71 687 07</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	450 mm	GB butane	<b>71 684 08</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	750 mm	GB butane	<b>71 687 08</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	450 mm	IT / GR / CY	<b>71 684 01</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	750 mm	IT / GR / CY	<b>71 687 01</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	450 mm	SE	<b>71 684 10</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	750 mm	SE	<b>71 687 10</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	CH / BE	<b>71 684 03</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	CH / BE	<b>71 687 03</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	450 mm	NL / RU	<b>71 684 23</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	750 mm	NL / RU	<b>71 687 23</b>	

#### Caramatic ConnectBasic PS 20 bar

hose dimensions 6.6 x 4.0 mm

connections: cylinder connection x regulator connection

G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	FR	<b>71 684 02</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	FR	<b>71 687 02</b>	

#### Spare parts

Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell F, material: NBR	<b>20 009 81</b>	
Gasket for Ital.A, material: NBR	<b>20 011 05</b>	
Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Gasket for POL-WF / POL-WS, material: NBR	<b>02 513 37</b>	
Gasket for KLF, material: NBR / cont. 5 units	<b>80 016 00</b>	
Gasket for EU-Shell / Shell-F, material: NBR / cont. 5 units	<b>80 009 00</b>	





### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03 

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04 

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60 

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70 

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81 



### 90° elbow

to connect high pressure hose assemblies to a low pressure regulator or to combine pressure regulators with automatic changeover valves

#### 90° elbow

#### male thread x coupling nut

M20 x 1.5 M x M20 x 1.5 nut

71 509 00 



### Test point

for leak testing the piping of LPG systems

#### Advantages and equipment

- especially suitable for e.g. wall-mounted low pressure regulators according to EN 16129, annex D in leisure vehicles
- if the test point is used, the dismantling of the wall-mounted pressure regulator for the leak testing of the LPG system is not required
- leak tester (for example, part no. 02 611 10) is connected with test adapter
- the inlet to the pressure regulator is blocked via the ball valve

#### Test point

#### with coupling nut type M and olive type D-MS

pipe socket 8 x compr. fit. 8

62 618 02 

pipe socket 10 x compr. fit. 10

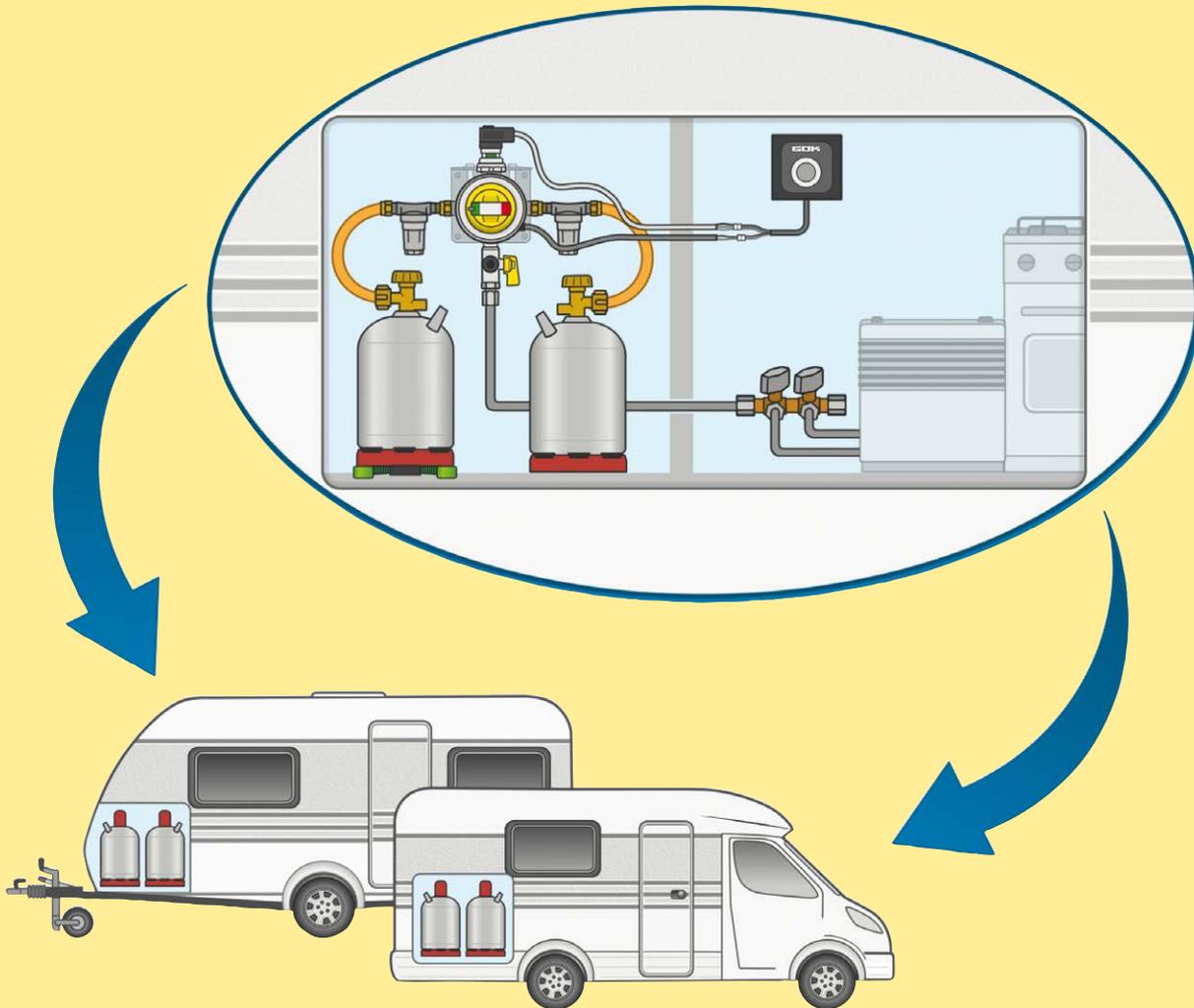
62 618 04 

#### Accessories

Test hose G 1/4 lh nut x adapter for test point x 750 mm

62 618 03 





### **Gas supply with a high level of comfort**

With an automatic changeover valve, long operating times can be achieved without interruption, as the changeover between operating and reserve cylinder is automatic.

Due to the gas non-return valve, the empty gas cylinder can be swapped without interrupting the gas supply.

By using country-specific high pressure hose assemblies, it is possible to use the changeover system across Europe without a problem.



### Caramatic ProTwo-Set

automatic changeover valve with integrated low pressure regulator for two-cylinder systems, for connection to gas cylinders with high pressure hose assemblies, to regulate the pressure to the nominal pressure of the gas equipment

consisting of: 2 x Caramatic ConnectBasic (length: 450 mm), 2 x Caramatic ConnectClean 2.0 with fixing bracket, automatic changeover valve, low pressure regulator with pressure relief valve PRV, control knob, operation and reserve display, gas non-return valve, test point and wall bracket

#### Advantages and equipment

- includes all components for start-up a two-cylinder system
- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- even gas supply through the optimum use of the gas cylinder content
- displays which gas cylinder gas is being taken from
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- suitable for connection of a remote display, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

#### Conformity

- single fittings with EU type examination certificate GGV or PED

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The 71 135 13 version can be used without restriction for LPG systems in older vehicles having an operating pressure of 50 mbar!

#### Caramatic ProTwo-Set

KLF x compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 133 13</b>	
KLF x compr. fit. 8	50 mbar	1.5 kg/h	<b>71 135 13</b>	

#### Spare part

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core	<b>71 781 70</b>	
Filter element 2.0 without supporting core / cont. 2 units	<b>71 781 90</b>	
High pressure hose assembly rubber PS 30 bar, hose dimensions 6.3 x 5.0 mm	<b>71 684 12</b>	
KLF x M20 x 1.5 nut x 450 mm DE / AT / PL		
Sealing nut with fastening clip M20 x 1.5 nut	<b>71 509 30</b>	

#### Accessories

Connection set M20 x 1.5 M x compr. fit. 10 / M20 x 1.5 F x compr. fit. 10	<b>71 509 20</b>	
Caramatic TwoControl with transmitter for remote display and Eis-Ex regulator heating	<b>71 300 00</b>	
Caramatic TwoControl with Eis-Ex regulator heating	<b>71 300 20</b>	
Eis-Ex regulator heating with connection cable	<b>71 390 20</b>	





### Caramatic ProTwo

automatic changeover valve with integrated low pressure regulator for two-cylinder systems, for connection to gas cylinders with high pressure hose assemblies, to regulate the pressure to the nominal pressure of the gas equipment

consisting of: automatic changeover valve, low pressure regulator with pressure relief valve PRV, control knob, operation and reserve display, gas non-return valve, test point and wall bracket

### Advantages and equipment

- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- even gas supply through the optimum use of the gas cylinder content
- displays which gas cylinder gas is being taken from
- can be used all over Europe through the use of country-specific high pressure hose assemblies (not included in delivery)
- test point for leak testing the LPG system without disassembling the pressure regulating device
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- suitable for connection of a remote display, e.g. Caramatic TwoControl
- by default, the version with compression fitting 10 / 8 at the outlet is fitted with an adapter to connect 8 mm piping

### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

### Technical data

- maximum admissible pressure: PS 16 bar

### Note

- The 71 925 13 version can be used without restriction for LPG systems in older vehicles having an operating pressure of 50 mbar!
- The gas filter Caramatic ConnectClean 2.0 (part no. 71 781 04 / cont. 2 units) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residue!

### Caramatic ProTwo

2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 923 13</b>	
2 x M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 925 13</b>	

### Spare part

Sealing nut with fastening clip M20 x 1.5 nut	<b>71 509 30</b>	
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### Accessories

Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 2 units	<b>71 781 04</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	
Connection set M20 x 1.5 M x compr. fit. 10 / M20 x 1.5 F x compr. fit. 10	<b>71 509 20</b>	
Fitting for pipe socket 8 x compr. fit. 10	<b>62 082 00</b>	
Fitting for pipe socket 10 x compr. fit. 8	<b>67 223 00</b>	
Caramatic TwoControl with transmitter for remote display and Eis-Ex regulator heating	<b>71 300 00</b>	





### Caramatic SwitchTwo

automatic changeover valve for two-cylinder systems, for connection to gas cylinders with high pressure hose assemblies

consisting of: automatic changeover valve, control knob, operation and reserve display, gas non-return valve and wall bracket

#### Advantages and equipment

- automatic changeover to the gas cylinder on the reserve side as soon as the gas cylinder on the operating side is empty
- the cylinder can be replaced without operational interruption
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- even gas supply through the optimum use of the gas cylinder content
- displays which gas cylinder gas is being taken from
- can be used all over Europe through the use of country-specific high pressure hose assemblies (not included in delivery)
- makes it possible to convert a one-cylinder system to a two-cylinder system
- suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- suitable for connection of a remote display, e.g. Caramatic TwoControl

#### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- A downstream pressure regulator with outlet pressure of 30 or 50 mbar is required to operate the LPG system, for example type EN61, EN71 or EN61-DS (not included in delivery).
- The gas filter Caramatic ConnectClean 2.0 (part no. 71 781 04 / cont. 2 units) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residue!

#### Caramatic SwitchTwo

2 x M20 x 1.5 M x M20 x 1.5 nut 0.75 bar 1.5 kg/h **71 828 46**

#### Spare part

Sealing nut with fastening clip M20 x 1.5 nut **71 509 30**

#### Accessories

Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 2 units **71 781 04**

90° elbow M20 x 1.5 M x M20 x 1.5 nut **71 509 00**

Connection set M20 x 1.5 M x compr. fit. 10 / M20 x 1.5 F x compr. fit. 10 **71 509 20**

Adapter M20 x 1.5 M x KLF M **71 508 00**

Adapter M20 x 1.5 M x POL F **71 508 05**

Adapter M20 x 1.5 M x W20 x 1/14 lh M **71 508 06**

Adapter M20 x 1.5 M x Shell-F M **71 508 04**

Caramatic TwoControl with transmitter for remote display and Eis-Ex regulator heating **71 300 00**





### Caramatic ConnectBasic

to connect the gas cylinder and regulator

#### Advantages and equipment

- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections

#### Conformity

- version PS 30 bar: DVGW [German Association of Gas and Water] type test certificate
- version PS 20 bar: NF approved

#### Technical data

- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.
- The 750 mm long hose assembly may only be used for cylinder brackets with a pull-out device.



-30 °C

#### Caramatic ConnectBasic PS 30 bar

**hose dimensions 6.3 x 5.0 mm**

**connections: cylinder connection x regulator connection**

G.12 (KLF)	x	M20 x 1.5 nut	x	450 mm	DE / AT / PL	<b>71 684 12</b>	
G.12 (KLF)	x	M20 x 1.5 nut	x	750 mm	DE / AT / PL	<b>71 687 12</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	450 mm	GB propane	<b>71 684 07</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	750 mm	GB propane	<b>71 687 07</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	450 mm	GB butane	<b>71 684 08</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	750 mm	GB butane	<b>71 687 08</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	450 mm	IT / GR / CY	<b>71 684 01</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	750 mm	IT / GR / CY	<b>71 687 01</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	450 mm	SE	<b>71 684 10</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	750 mm	SE	<b>71 687 10</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	CH / BE	<b>71 684 03</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	CH / BE	<b>71 687 03</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	450 mm	NL / RU	<b>71 684 23</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	750 mm	NL / RU	<b>71 687 23</b>	



#### Caramatic ConnectBasic PS 20 bar

**hose dimensions 6.6 x 4.0 mm**

**connections: cylinder connection x regulator connection**

G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	FR	<b>71 684 02</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	FR	<b>71 687 02</b>	

#### Spare parts

Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell F, material: NBR	<b>20 009 81</b>	
Gasket for Ital.A, material: NBR	<b>20 011 05</b>	
Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Gasket for POL-WF / POL-WS, material: NBR	<b>02 513 37</b>	
Gasket for KLF, material: NBR / cont. 5 units	<b>80 016 00</b>	
Gasket for EU-Shell / Shell-F, material: NBR / cont. 5 units	<b>80 009 00</b>	



### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03 

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04 

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60 

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70 

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81 



### 90° elbow

to connect high pressure hose assemblies to a low pressure regulator or to combine pressure regulators with automatic changeover valves

#### 90° elbow

##### male thread x coupling nut

M20 x 1.5 M x M20 x 1.5 nut

71 509 00 



### Connection set

to connect a high pressure hose assembly e.g. Caramatic ConnectDrive via piping with a Caramatic SwitchTwo or Caramatic ProTwo

consisting of: M20 x 1.5 M x compr. fit. 10 (fitting for hose assembly) / M20 x 1.5 F x compr. fit. 10 (fitting for Caramatic SwitchTwo or Caramatic ProTwo)

#### Connection set

complete

71 509 20 





### Caramatic TwoControl – Remote display and regulator heating

convenient information and control unit in the leisure vehicle to monitor the operating and reserve cylinder in two-cylinder systems as well as the de-icer regulator heating

consisting of: information and control unit including connection cable, cover frame, transmitter for remote display including connection cable and de-icer regulator heating including connection cable

#### Advantages and equipment

- central control unit to switch on/off the remote display and the Eis-Ex regulator heating
- remote indication of the operating status of the regulator heating
- remote indication of the operating status (normal or reserve operation) of the gas cylinders
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the models of the Caramatic line DriveTwo, ProTwo, SwitchTwo as well as the Truma models DuoControl CS and DuoComfort in silver colour
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- Conformity assessment procedure according to ATEX
- CE marking according to EMC
- Type approval according to UNECE R 10

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Remote display and regulator heating

Information and control unit with transmitter for remote display and Eis-Ex regulator heating

71 300 00 

#### Spare parts

Information and control unit with connection cable

71 391 20 

Cover frame, colour: anthracite

71 391 00 

Transmitter for remote display with connection cable

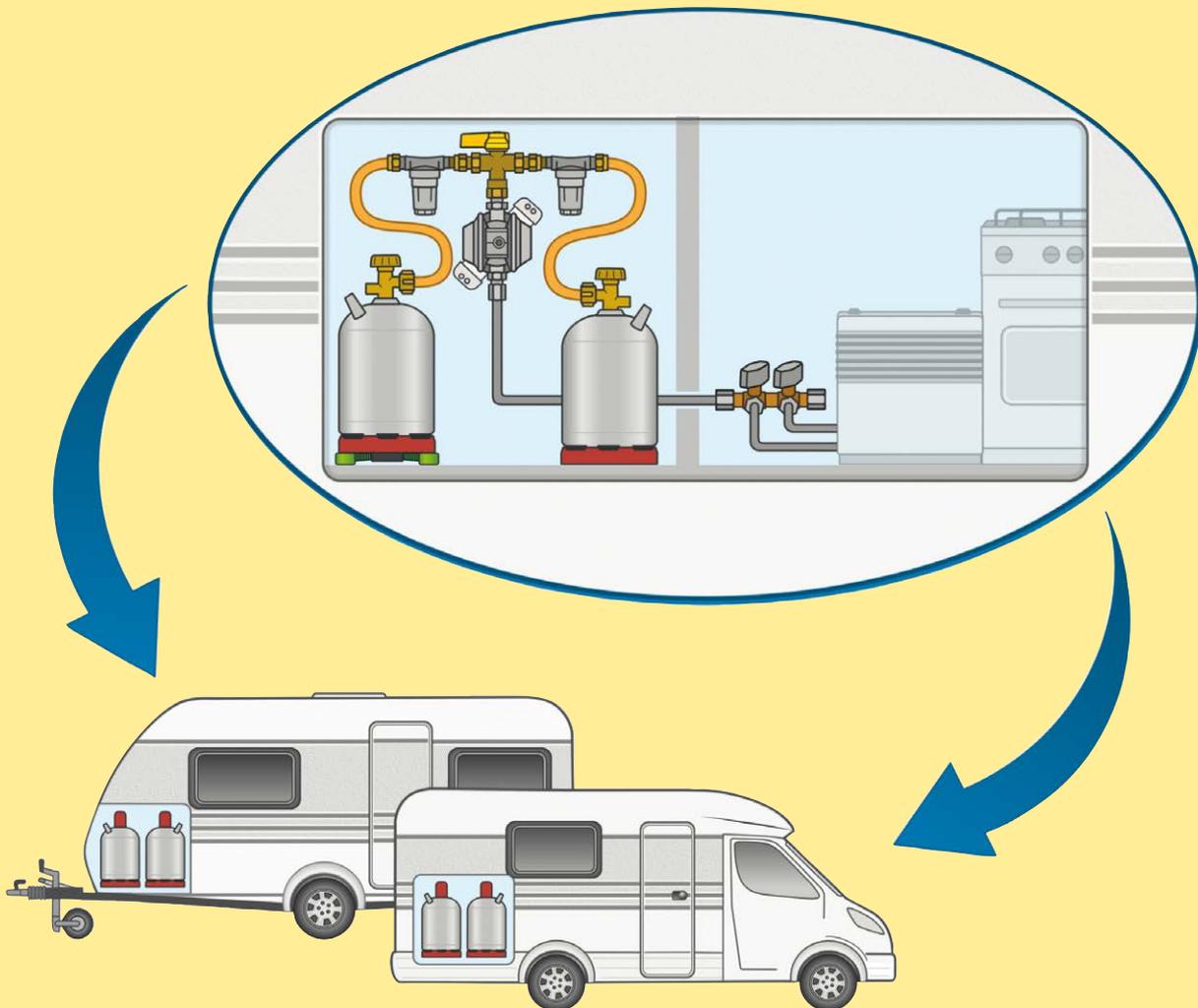
71 390 00 

Eis-Ex regulator heating with connection cable

71 390 20 







### **The manual solution for two cylinders**

The manual changeover system allows long operating times and for the gas cylinder to be replaced without an operational interruption of the gas supply. Once the operating cylinder is empty, you switch over manually to a full cylinder.

By using country-specific high pressure hose assemblies, it is possible to use the changeover system across Europe without a problem.



### Manual changeover valve type MUV

for manual changeover with two-cylinder systems

#### Advantages and equipment

- withdrawal takes place on an alternating basis
- the cylinder can be replaced without operational interruption

#### Conformity

- EC type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 25 bar
- material: brass

### Manual changeover valve type MUV

#### for installation in piping

#### with coupling nut type M and olive type D

compr. fit. 8 x compr. fit. 8 x compr. fit. 8  
compr. fit. 10 x compr. fit. 10 x compr. fit. 10

#### for installation upstream from the wall-mounted low pressure regulator

M20 x 1.5 M x M20 x 1.5 nut x M20 x 1.5

#### Accessories

Gasket for M20 x 1.5 nut, material: FKM

Installation set to mount the manual changeover valve type MUV

on the wall for low pressure regulators type EN61-DS, EN71, FL90-4 and FL91-4

62 714 02 

62 714 03 

62 714 06 

04 590 25 

62 714 28 



### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03 

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04 

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60 

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70 

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81 





### Caramatic BasicOne

pressure to the nominal pressure of the gas equipment

consisting of: low pressure regulator with integrated safety device against overpressure and wall bracket

#### Advantages and equipment

- compression fitting with coupling nut type M and olive type D-MS
- version with test point for leak testing the LPG system without disassembling the pressure regulating device
- version with test point suitable for connection of an Eis-Ex, e.g. Caramatic TwoControl
- version with pressure gauge for leak testing e.g. when the cylinder is replaced

#### Conformity

- EC type examination certificate PED (EN 16129, annex D)
- EC type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)
- UKCA type examination certificate GGV [ordinance on building land registries] (EN 16129, annex D)

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The nominal flows of all the devices must be added together to choose the right capacity stage.
- The gas filter Caramatic ConnectClean 2.0 (part no. 71 781 03) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residue!
- Version type EN61-DS fulfils the requirements of DGUV Regulation 110-010 (German statutory accident insurance, previously DGUV Regulation 79) and is suitable for use in commercially used motorhomes and caravans!

#### Caramatic BasicOne with test point capacity stage 3, type EN61-DS with over-pressure safety device S2SR 90° inlet

##### without pressure gauge

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 294 02</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 294 03</b>	

#### Caramatic BasicOne without test point capacity stage 2, type EN71 with safety pressure relief valve PRV straight inlet

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.2 kg/h	<b>61 287 05</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.2 kg/h	<b>61 287 06</b>	

#### capacity stage 3, type EN61-DS with overpressure safety device S2SR with pressure gauge

M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 291 03</b>	
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##### without pressure gauge

M20 x 1.5 M	x	compr. fit. 8	30 mbar	1.5 kg/h	<b>61 291 01</b>	
M20 x 1.5 M	x	compr. fit. 10	30 mbar	1.5 kg/h	<b>61 291 02</b>	

#### Accessories

Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Caramatic ConnectClean 2.0 M20 x 1.5 M x M20 x 1.5 nut / cont. 1 unit	<b>71 781 03</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	





### Caramatic ConnectBasic

to connect the gas cylinder and regulator

#### Advantages and equipment

- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections

#### Conformity

- version PS 30 bar: DVGW [German Association of Gas and Water] type test certificate
- version PS 20 bar: NF approved

#### Technical data

- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.
- The 750 mm long hose assembly may only be used for cylinder brackets with a pull-out device.



-30 °C

### Caramatic ConnectBasic PS 30 bar

hose dimensions 6.3 x 5.0 mm

connections: cylinder connection x regulator connection

G.12 (KLF)	x	M20 x 1.5 nut	x	450 mm	DE / AT / PL	<b>71 684 12</b>	
G.12 (KLF)	x	M20 x 1.5 nut	x	750 mm	DE / AT / PL	<b>71 687 12</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	450 mm	GB propane	<b>71 684 07</b>	
G.7 (Brit.POL)	x	M20 x 1.5 nut	x	750 mm	GB propane	<b>71 687 07</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	450 mm	GB butane	<b>71 684 08</b>	
G.8 (EU-Shell)	x	M20 x 1.5 nut	x	750 mm	GB butane	<b>71 687 08</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	450 mm	IT / GR / CY	<b>71 684 01</b>	
G.1 (Ital.A)	x	M20 x 1.5 nut	x	750 mm	IT / GR / CY	<b>71 687 01</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	450 mm	SE	<b>71 684 10</b>	
G.10 (POL-WS)	x	M20 x 1.5 nut	x	750 mm	SE	<b>71 687 10</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	CH / BE	<b>71 684 03</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	CH / BE	<b>71 687 03</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	450 mm	NL / RU	<b>71 684 23</b>	
X.3 (Komb.Shell-H)	x	M20 x 1.5 nut	x	750 mm	NL / RU	<b>71 687 23</b>	



### Caramatic ConnectBasic PS 20 bar

hose dimensions 6.6 x 4.0 mm

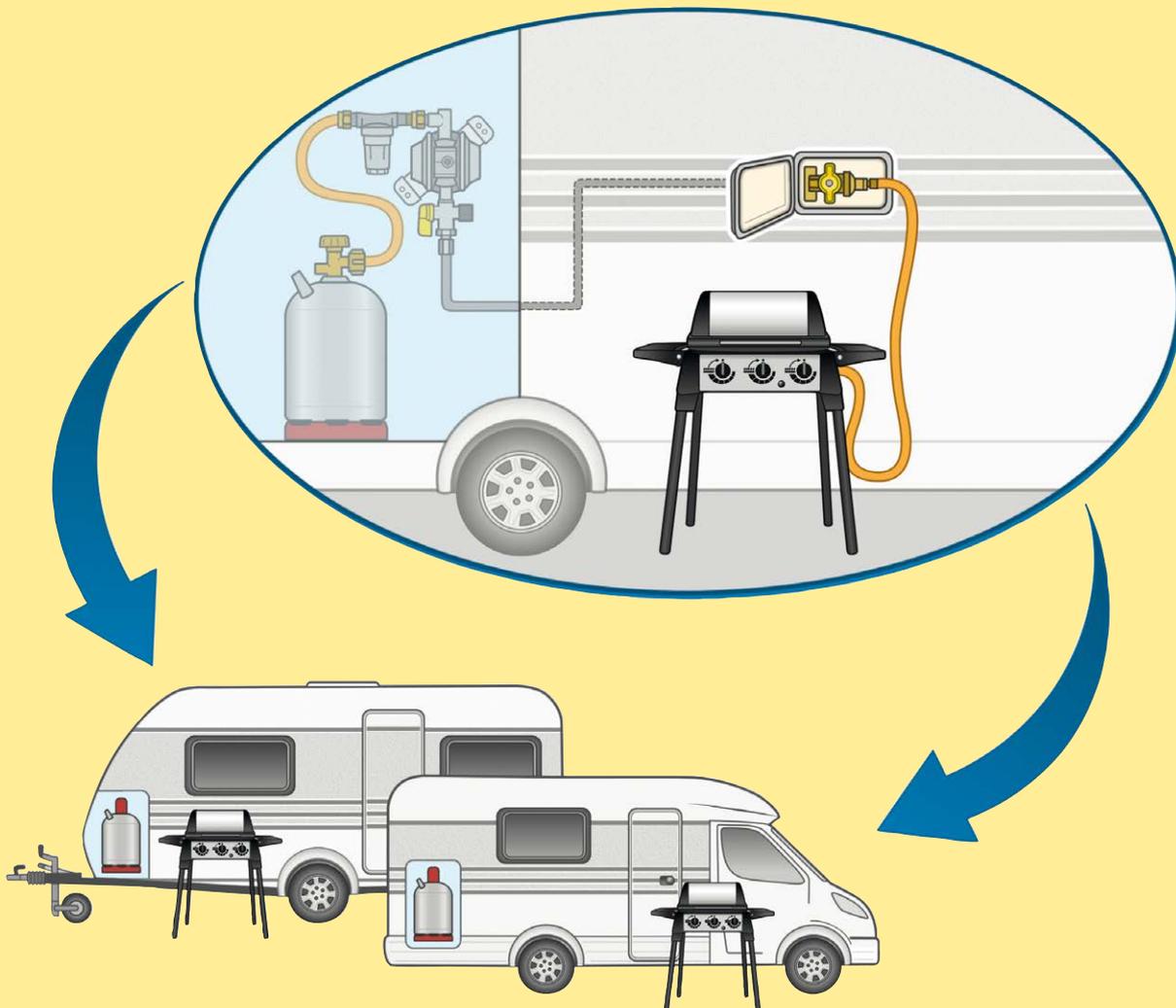
connections: cylinder connection x regulator connection

G.2 (Shell-F)	x	M20 x 1.5 nut	x	450 mm	FR	<b>71 684 02</b>	
G.2 (Shell-F)	x	M20 x 1.5 nut	x	750 mm	FR	<b>71 687 02</b>	



#### Spare parts

Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell F, material: NBR	<b>20 009 81</b>	
Gasket for Ital.A, material: NBR	<b>20 011 05</b>	
Gasket for M20 x 1.5 nut, material: FKM	<b>04 590 25</b>	
Gasket for POL-WF / POL-WS, material: NBR	<b>02 513 37</b>	
Gasket for KLF, material: NBR / cont. 5 units	<b>80 016 00</b>	
Gasket for EU-Shell / Shell-F, material: NBR / cont. 5 units	<b>80 009 00</b>	



### **Gas supply also outside of the vehicle**

With a Variant outlet box, gas equipment, such as barbecues and stoves, outside the vehicle can also be supplied via the internal LPG installation.

The connection to the gas equipment is created quickly and safely via a medium pressure hose assembly and a quick coupler on the vehicle.

You no longer need to bring additional gas cylinders.



### Variant outlet box

for outdoor use or connect an outside shower or connect the vehicle to a water supply. Depending on the version, to connect additional gas equipment, such as a stove, barbecue, lights etc.

The valve can be opened only when the hose assembly is connected.

Quick couplers SKU for gas and water in unmistakable designs.

The different variant outlet boxes are available in the following versions:

### Outside connection for LPG

#### Outside connection for LPG and water

with quick coupler SKU and flip switch (on/off) for submerged pump operation (plug-in connection 6.3 mm)

materials: suitable for drinking water

- brass gas safety coupling and water connection

#### Outside connection for LPG and water

with quick coupler SKU for pressure pump operation

materials: suitable for drinking water

- brass gas safety coupling and water connection

### Note

- To install the outlet box on the outside of the vehicle a 155 x 65 mm cutout in the vehicle body is required!

### Variant outlet box

#### Outside connection for LPG

##### with cylinder lock

gas line: quick coupler x pipe socket 8

81 731 03 

##### without cylinder lock

gas line: quick coupler x pipe socket 8

81 731 02 

#### Outside connection for LPG and water

##### with flip switch

##### with cylinder lock

gas line: quick coupler x pipe socket 8 / water line: 9/10 mm nozzle x 9/10 mm nozzle 81 733 03 

##### without cylinder lock

gas line: quick coupler x pipe socket 8 / water line: 9/10 mm nozzle x 9/10 mm nozzle 81 733 06 

##### without flip switch

##### with cylinder lock

gas line: quick coupler x pipe socket 8 / water line: 9/10 mm nozzle x 9/10 mm nozzle 81 737 01 

##### without cylinder lock

gas line: quick coupler x pipe socket 8 / water line: 9/10 mm nozzle x 9/10 mm nozzle 81 737 00 

### Accessories

Medium pressure hose assembly rubber PS 10 bar, 64 224 00 

hose dimensions 6.3 x 3.5 mm, G 1/4 lh nut x plug-in fitting x 1500 mm

14 468 00

Hose nozzle compr. fit. 8 x 6 mm





### Medium pressure hose assembly rubber

to connect fittings, consumer equipment and piping

#### Conformity

- DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 10 bar
- hose: **rubber with textile lining**
- cold-resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.

### Medium pressure hose assembly rubber

**hose dimensions 6.3 x 3.5 mm**

**connections: coupling nut x plug-in fitting**

G 1/4 lh nut	x	plug-in fitting	x	400 mm
G 1/4 lh nut	x	plug-in fitting	x	800 mm
G 1/4 lh nut	x	plug-in fitting	x	1000 mm
G 1/4 lh nut	x	plug-in fitting	x	1500 mm
G 1/4 lh nut	x	plug-in fitting	x	2000 mm
G 1/4 lh nut	x	plug-in fitting	x	3000 mm
G 1/4 lh nut	x	plug-in fitting	x	5000 mm

<b>64 221 01</b>	
<b>64 222 00</b>	
<b>64 223 00</b>	
<b>64 224 00</b>	
<b>64 225 00</b>	
<b>64 227 01</b>	
<b>64 227 00</b>	

**Other versions, connections or dimensions on request.**



-30 °C





### Coupling valve type SKU SSV-K

ball valve as shut-off valve with safety coupling, only completely open or closed setting for assembly into the piping as an option to connect transportable gas equipment such as gas cookers or gas grills

#### Advantages and equipment

- shut-off valve can be opened or closed only when a hose assembly is connected
- a special device makes the quick coupler SKU tamper-proof - decoupling is only possible with the plug-in fitting STN
- low pressure loss thanks to optimised function
- mounting bracket for safe assembly

#### Conformity

- EC type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 5 bar
- material: brass, bright

### Coupling valve type SKU SSV-K

#### straight-way version

#### with coupling nut type M and olive type DU

compr. fit. 8 x quick coupler

#### branch version

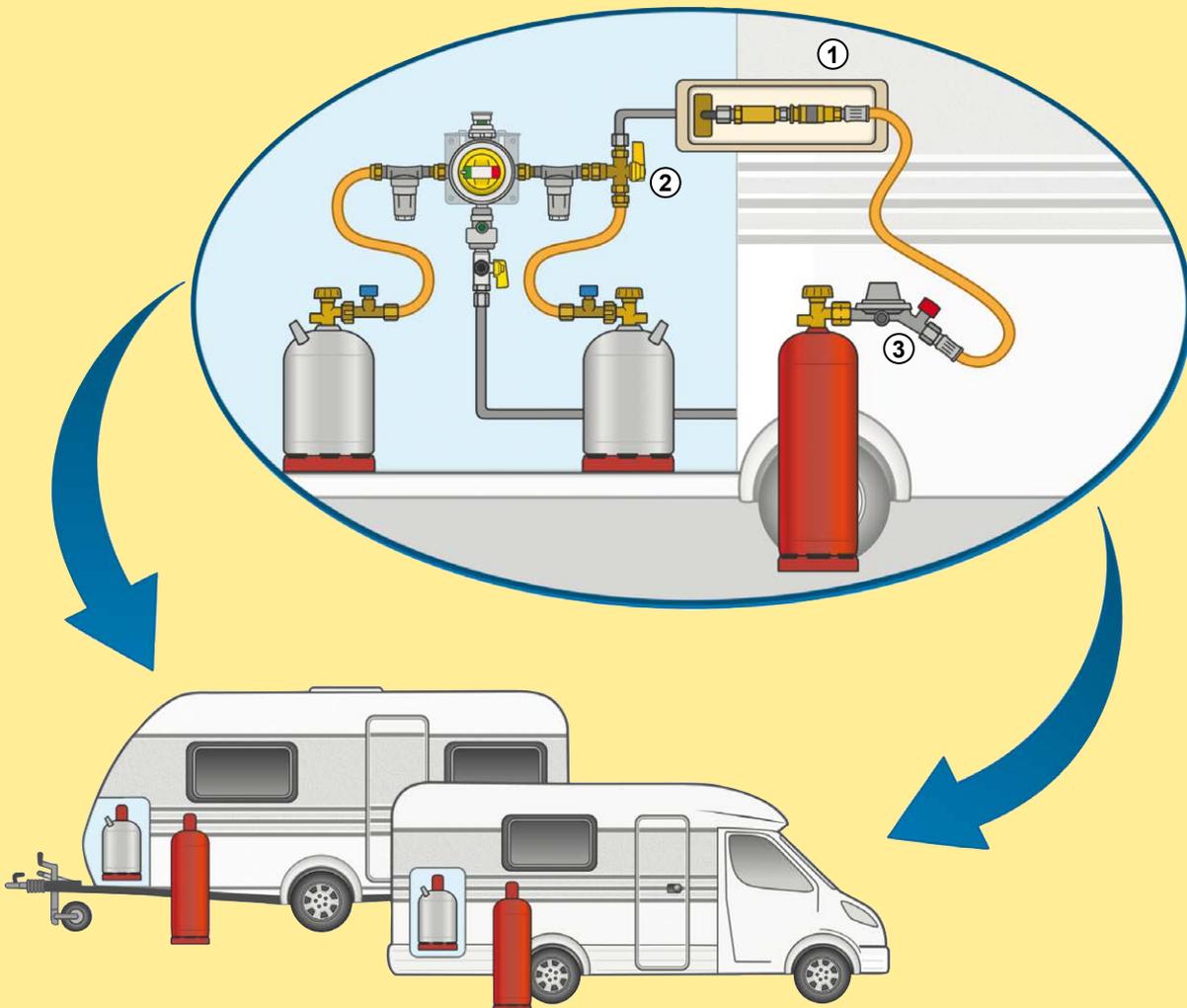
#### with coupling nut type M and olive type DU

compr. fit. 8 x compr. fit. 8 x quick coupler

81 315 02 

81 315 04 





### **For long-term campers: external LPG feed for single- or two-cylinder systems**

An external gas supply to feed LPG to the supply line enables gas equipment to be operated reliably even for long periods.

The connection between the external gas cylinder and the supply line is created quickly and safely via a quick coupler ①.

A manual changeover valve is used to switch from the internal gas system to the external gas supply ②. To do this, the manual changeover valve is installed in front of the low pressure regulator or the regulation system.

To safeguard the external hose assembly an excess flow valve ③ is integrated in the medium pressure regulator.



### External LPG feed for leisure vehicles

to connect an external gas supply (gas cylinder) for motorhomes and caravans with single- or two-cylinder systems

The connection between the external gas cylinder and the vehicle's supply line is created quickly and safely via a quick coupler.

With the manual changeover valve, you can switch between the internal gas cylinder and the external gas feed.

#### Advantages and equipment

- medium pressure regulator type M50-F/SBS Komb.W x G 3/8 lh M, 1.5 bar, 1.5 kg/h with 35° outlet and integrated excess flow valve (EFV) with manual opening, blocks the gas supply if the hose is damaged
- combined fitting for optional connection to 5, 11 or 33 kg gas cylinders
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 3/8 lh nut x quick coupler type DKG x 3000 mm
- gas outlet box for installation in the outer wall of the vehicle with plug-in fitting to connect the medium pressure hose assembly; connection to internal supply line pipe socket 8
- the integrated gas non-return valve prevents unwanted escape of gas
- manual changeover valve type MUV compr. fit. 8 x M20 x 1.5 x M20 x 1.5 M for alternating withdrawal from external and internal gas supply
- including MiniTool to connect and disconnect regulators

#### Note

- The gas regulator in the vehicle must be attached to the wall of the vehicle and have an M20 x 1.5 M inlet connector.
- To install the outlet box on the outside of the vehicle a 155 x 65 mm cutout in the vehicle body is required!

### External LPG feed for leisure vehicles

complete

21 735 00

### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

#### Advantages and equipment

- with fastening clip

#### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

#### Note

- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

60 300 92 



### Accessories for LPG systems in motorhomes and caravans

With individual accessories, the comfort, safety and reliability of the LPG installation are increased beyond the standard.

The following GOK products are the ideal extras for caravan owners who enjoy comfort and convenience.

#### Quick-acting stop valve type DSV

quick-closing valve, only completely open or closed setting

#### Advantages and equipment

- includes symbol stickers for marking the consumer equipment
- activation element: twist grip
- low pressure loss thanks to optimised function
- mounting bracket for safe assembly

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 16 bar
- material: housing: brass, bright  
gaskets: NBR  
twist grip: PA6 GB10

#### Quick-acting stop valve type DSV

with mounting bracket

compression fitting x compression fitting

with coupling nut type M and olive type D

compr. fit. 8 x compr. fit. 8

63 711 00 

with coupling nut type M and olive type D-MS

compr. fit. 8 x compr. fit. 8

63 711 06 





### Distributor valve type DSV-AB

quick-closing valve, only completely open or closed setting

#### Advantages and equipment

- with mounting bracket
- includes a blind plug in the outlet
- includes symbol stickers for marking the consumer equipment
- activation element: twist grip
- low pressure loss thanks to optimised function

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- material: housing: brass, bright  
gaskets: NBR  
twist grip: PA6 GB10

#### Distributor valve

##### type DSV-AB2, PS 16 bar

##### with coupling nut type M and olive type D

compr. fit. 8 x 2 x compr. fit. 8 x compr. fit. 8

compr. fit. 10 x 2 x compr. fit. 8 x compr. fit. 10

63 750 00 

63 760 00 

##### type DSV-AB3, PS 5 bar

##### with coupling nut type M and olive type D

compr. fit. 8 x 3 x compr. fit. 8 x compr. fit. 8

compr. fit. 10 x 3 x compr. fit. 8 x compr. fit. 10

63 751 00 

63 761 00 

##### type DSV-AB4, PS 5 bar

##### with coupling nut type M and olive type D

compr. fit. 8 x 4 x compr. fit. 8 x compr. fit. 8

compr. fit. 10 x 4 x compr. fit. 8 x compr. fit. 10

63 752 00 

63 762 00 

#### Accessories

Set of symbols / cont. 5 units

63 750 01 





### Quick-acting stop valve type KSV

quick-closing valve, only completely open or closed setting

#### Advantages and equipment

- activation element: ergonomic toggle lever
- colour coded open (green) and closed position (red)
- low pressure loss thanks to optimised function
- includes clips with symbols for marking consumer equipment

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 16 bar
- material: housing: brass, bright  
gaskets: NBR  
toggle lever: PA6 GF30

### Quick-acting stop valve type KSV, with mounting bracket with coupling nut type M and olive type

compr. fit. 8 x compr. fit. 8

63 611 00 

### with coupling nut type M and olive type D-MS

compr. fit. 8 x compr. fit. 8

63 611 06 

#### Spare part

Clips with symbols for marking consumer equipment / cont. 4 units

63 690 00 



### Distributor valve short design type KSV-AB

quick-closing valve, only completely open or closed setting

#### Advantages and equipment

- activation element: ergonomic toggle lever
- colour coded open (green) and closed position (red)
- shortened configuration for optimised installation
- low pressure loss thanks to optimised function
- with mounting bracket
- includes clips with symbols for marking consumer equipment
- includes a blind plug in the outlet

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 16 bar
- material: housing: brass, bright  
gaskets: NBR  
toggle lever: PA6 GF30

### Distributor valve short design

#### type KSV-AB2

##### with coupling nut type M and olive type D

compr. fit. 8 x 2 x compr. fit. 8 x compr. fit. 8

63 670 00 

compr. fit. 10 x 2 x compr. fit. 8 x compr. fit. 10

63 680 00 

#### type KSV-AB3

##### with coupling nut type M and olive type D

compr. fit. 8 x 3 x compr. fit. 8 x compr. fit. 8

63 671 00 

compr. fit. 10 x 3 x compr. fit. 8 x compr. fit. 10

63 681 00 

#### type KSV-AB4

##### with coupling nut type M and olive type D

compr. fit. 8 x 4 x compr. fit. 8 x compr. fit. 8

63 672 00 

compr. fit. 10 x 4 x compr. fit. 8 x compr. fit. 10

63 682 00 

#### Spare part

Clips with symbols for marking consumer equipment / cont. 4 units

63 690 00 

**shortened design**





### Distributor valve type KSV-AB

quick-closing valve, only completely open or closed setting

#### Advantages and equipment

- activation element: ergonomic toggle lever
- colour coded open (green) and closed position (red)
- low pressure loss thanks to optimised function
- with mounting bracket
- includes clips with symbols for marking consumer equipment
- includes a blind plug in the outlet

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 16 bar
- material: housing: brass, bright  
gaskets: NBR  
toggle lever: PA6 GF30

#### Distributor valve type KSV-AB2

##### with coupling nut type M and olive type D

compr. fit. 8 x 2 x compr. fit. 8 x compr. fit. 8  
compr. fit. 10 x 2 x compr. fit. 8 x compr. fit. 10

#### type KSV-AB3

##### with coupling nut type M and olive type D

compr. fit. 8 x 3 x compr. fit. 8 x compr. fit. 8  
compr. fit. 10 x 3 x compr. fit. 8 x compr. fit. 10

#### type KSV-AB4

##### with coupling nut type M and olive type D

compr. fit. 8 x 4 x compr. fit. 8 x compr. fit. 8  
compr. fit. 10 x 4 x compr. fit. 8 x compr. fit. 10

#### Spare part

Clips with symbols for marking consumer equipment / cont. 4 units

**63 650 00** 

**63 660 00** 

**63 651 00** 

**63 661 00** 

**63 652 00** 

**63 662 00** 

**63 690 00** 





### Caramatic TwoControl – Remote display and regulator heating

convenient information and control unit in the leisure vehicle to monitor the operating and reserve cylinder in two-cylinder systems as well as the de-icer regulator heating

consisting of: information and control unit including connection cable, cover frame, transmitter for remote display including connection cable and de-icer regulator heating including connection cable

#### Advantages and equipment

- central control unit to switch on/off the remote display and the Eis-Ex regulator heating
- remote indication of the operating status of the regulator heating
- remote indication of the operating status (normal or reserve operation) of the gas cylinders
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the models of the Caramatic line DriveTwo, ProTwo, SwitchTwo as well as the Truma models DuoControl CS and DuoComfort in silver colour
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- Conformity assessment procedure according to ATEX
- CE marking according to EMC
- Type approval according to UNECE R 10

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Remote display and regulator heating

Information and control unit with transmitter for remote display and Eis-Ex regulator heating

71 300 00

#### Spare parts

Information and control unit with connection cable

71 391 20

Cover frame, colour: anthracite

71 391 00

Transmitter for remote display with connection cable

71 390 00

Eis-Ex regulator heating with connection cable

71 390 20

### Caramatic TwoControl – Regulator heating

convenient information and control unit of the de-icer regulator heating in the leisure vehicle

consisting of: information and control unit including connection cable 6 m, cover frame and de-icer regulator heating including connection cable 2 m

#### Advantages and equipment

- central control unit to switch on/off the Eis-Ex regulator heating
- remote indication of the operating status of the regulator heating
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the models of the Caramatic line DriveOne, BasicOne with test point as well as the Truma model MonoControl CS in silver colour
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- Conformity assessment procedure according to ATEX
- CE marking according to EMC
- Type approval according to UNECE R 10

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Regulator heating

Information and control unit with Eis-Ex regulator heating

71 300 20

#### Spare parts

Information and control unit with connection cable

71 391 20

Cover frame, colour: anthracite

71 391 00

Eis-Ex regulator heating with connection cable

71 390 20





### Caramatic ConnectClean 2.0 type FA 99

gas filter prevents contamination in the LPG installation

Protects the pressure regulator and the automatic changeover valve against contamination from oily aerosols and evaporation residues.

#### Advantages and equipment

- shortened filter cup – useful for space limited installations
- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99 %
- with filter cartridge 2.0. Only the filter element has to be replaced. The supporting core can still be used.

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean 2.0 type FA 99

#### cont. 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 03 

#### cont. 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 04 

#### Spare part

Filter cartridge 2.0, consisting of 1 x filter element and 1 x supporting core

71 781 60 

Filter cartridge 2.0, consisting of 2 x filter element and 2 x supporting core

71 781 70 

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

#### Accessories

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 

Additional fixing bracket for Caramatic ConnectClean 2.0

71 781 81 



### Filter cartridge 2.0

Replacement cartridge for Caramatic ConnectClean gas filter or for the Truma gas filter type AS99 until year of construction 02/2019

consisting of: filter element and supporting core

#### Advantages and equipment

- affordable and sustainable, as only the filter element has to be replaced, the supporting core can still be used
- high degree of separation of 99,9 percent protects the system against oil contamination and dust particles remain in the filter

#### Technical data

- material: filter element: glass microfibre  
supporting core: PA 6-GF20

### Filter cartridge 2.0 for Caramatic ConnectClean gas filters

1 x filter element and 1 x supporting core

71 781 60 

2 x filter elements and 2 x supporting cores

71 781 70 

#### Spare part

Filter element 2.0 without supporting core / cont. 2 units

71 781 90 

### 90° elbow

to connect high pressure hose assemblies to a low pressure regulator or to combine pressure regulators with automatic changeover valves

#### 90° elbow

male thread x coupling nut

M20 x 1.5 M x M20 x 1.5 nut

71 509 00 





### Low pressure excess flow valve for slide-out modules

for installation in the piping in a motorhome or caravan, for the securing of hose assemblies

#### Advantages and equipment

- prevents gas escape in case the hose assembly is damaged or becomes loose and closes the gas flow when the nominal flow rate is exceeded by 10 %
- **automatic excess flow valve SBS/AU:**  
opens automatically, which keeps gas leaks to a minimum and means delayed opening in the case of long hose assemblies
- especially suitable for the connection of cooking appliances that have to be moved from the transport position to the functional position
- especially suitable for connections in the case of slide-out modules on road vehicles

#### Conformity

- EC type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Can only be used with a hose assembly that has a maximum length of 750 mm.
- Can only be used in combination with devices that have to be moved from their transport position to their functional position, or in the case of slide-out modules on road vehicles.

### Low pressure excess flow valve for slide-out modules type EFV/AU automatic

compr. fit. 8 x G 1/4 lh M 30 mbar 0.8 kg/h **02 850 07**

#### Accessories

Medium pressure hose assembly G 1/4 lh nut x compr. fit. 8 x 750 mm **04 405 01**

Medium pressure hose assembly G 1/4 lh nut x compr. fit. 10 x 750 mm **04 409 07**



### Clip-on adapter

for connecting a pressure regulator with a German connection to gas cylinders with clip-on connection

#### Advantages and equipment

- integrated shut-off valve
- the shut-off valve can be opened or closed only when the adapter is connected

#### Clip-on adapter, JUMBO 35 mm version for Denmark, UK, Finland, France, Ireland, Norway, Portugal, Sweden, Spain, Cyprus

Clip-on (G.56) x KLF M **20 036 35**

#### Clip-on adapter, 21 mm version, for Denmark, UK, Ireland

Clip-on (G.53) x KLF M **80 036 00** 



### Euro filling set D

for filling German gas cylinders through authorised European filling stations

#### Euro filling set D

consisting of filling adapters D1 to D4 **69 738 00** 

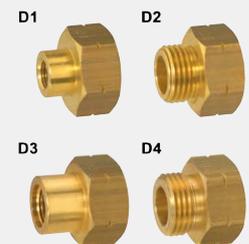
#### Individual nozzle

**Filling adapter D1: Italy, Switzerland** M10 x 1 F x KLF F **69 738 07** 

**Filling adapter D2: Austria, Greece, Italy, Slovenia** Ital.A M x KLF F **69 738 08** 

**Filling adapter D3: Finland, Iceland, Norway, Portugal, Sweden, UK** Primus F x KLF F **69 738 09** 

**Filling adapter D4: Belgium, Croatia, Czech Republic, France, Ireland, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Serbia, Slovakia, Slovenia, Spain, Switzerland, UK** W21.8 x 1/14 lh M x KLF F **69 738 02** 





### MiniTool

to connect and disconnect small cylinder regulators on the gas cylinder valve with no effort

#### Advantages and equipment

- suitable for small cylinder connections with wing nuts

#### Technical data

- material: special polyamide with glass fibre reinforcement (developed for tools)

### MiniTool

#### 35 units in presentation box

unicoloured, blue

21 100 70

various colours, each 7 pieces: orange, red, blue, green and black

21 100 71

#### Replenishment pack, 50 units

unicoloured, blue

21 100 80

various colours, each 10 pieces: orange, red, blue, green and black

21 100 85



### Euro set D Professional

for connecting a pressure regulator with a German connection to gas cylinders with common European connections

consisting of: EuroTool in toolbox with 3 inserts and adapters 1 to 4 from Euro set D

#### Advantages and equipment

- just one tool with three different exchangeable inserts, suitable for European cylinder connections
- simple and safe exchangeable system
- toolbox (H/W/D: 235 x 185 x 48 mm)
- adapter 1: Italy, Switzerland (KLF M x M10 x 1 M)
- adapter 2: Greece, Italy, Austria and Slovenia (KLF M x Ital.A F)
- adapter 3: UK, Finland, Iceland, Norway, Portugal and Sweden (KLF M x Primus M)
- adapter 4: Belgium, UK, France, Ireland, Croatia, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Switzerland, Serbia, Slovakia, Slovenia, Spain and Czech Republic (KLF M x W21.8 x 1/14 lh F)

#### Technical data

- material: EuroTool: special polyamide with glass fibre reinforcement (developed for tools)
- exchangeable inserts: special polyamide with glass fibre reinforcement (developed for tools)
- adapter: brass

### Euro set D Professional

in toolbox

complete

69 735 10





### Euro set D

for connecting a pressure regulator with a German connection to gas cylinders with common European connections

#### Euro set D

comprising adapters 1 to 4

69 735 00 

#### Individual nozzle

##### Adapter 1: Italy, Switzerland

KLF M x M10 x 1 M

69 735 21 

##### Adapters 2: Greece, Italy, Austria and Slovenia

KLF M x Ital.A F

69 735 22 

##### Adapters 3: UK, Finland, Iceland, Norway, Portugal, Sweden

KLF M x Primus M

69 735 23 

##### Adapters 4: Belgium, UK, France, Ireland, Croatia, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Switzerland, Serbia, Slovakia, Slovenia, Spain, Czech Republic

KLF M x W21.8 x 1/14 lh F

69 735 03 

##### Long version (total length: 40 mm)

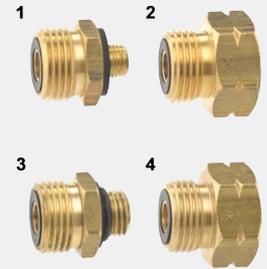
KLF M x W21.8 x 1/14 lh F

69 735 07 

#### Accessories

Counter-seal for adapters 1 and 4

09 735 25



### Euro set CH/FR Professional

for connecting a pressure regulator with a Shell-F connection to gas cylinders with common European connections

consisting of: EuroTool in toolbox with 3 exchangeable inserts and adapters FR1 to 4 from Euro set CH/FR

#### Advantages and equipment

- just one tool with three different exchangeable inserts, suitable for European cylinder connections
- simple and safe exchangeable system
- toolbox (H/W/D: 235 x 185 x 48 mm)
- adapter FR1: Italy, Switzerland (Shell-F M x M10 x 1 M)
- adapter FR2: Greece, Italy, Austria, Slovenia (Shell-F M x Ital.A F)
- adapter FR3: UK, Finland, Iceland, Norway, Portugal, Sweden (Shell-F M x Primus M)
- adapter FR4: Germany, UK, Ireland, Croatia, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Switzerland, Serbia, Slovakia, Slovenia, Spain, Czech Republic (Shell-F M x W21.8 x 1/14 lh F)

#### Technical data

- material: EuroTool: special polyamide with glass fibre reinforcement (developed for tools)
- exchangeable inserts: special polyamide with glass fibre reinforcement (developed for tools)
- adapter: brass

### Euro set CH/FR Professional

#### in toolbox

complete

69 739 10 





### Euro set CH/FR

for connecting a pressure regulator with a Shell-F connection to gas cylinders with common European connections

#### Euro set CH/FR

consisting of adapters FR1 to FR4

69 739 00

#### Individual nozzle

**Adapter FR4: Germany, UK, Ireland, Croatia, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Austria, Poland, Russia, Serbia, Slovakia, Slovenia, Spain, Czech Republic**

Shell-F M x W21.8 x 1/14 lh F

69 739 04



### Leak detector spray

allows safe and reliable leak detection in pipe systems

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Note

- Because of the German Hazardous Goods Ordinance, we can only deliver the following number of items per package:  
Leak detector spray 125 ml / 72 cans  
Leak detector spray 400 ml / 24 cans  
For larger quantities despatched by mail, shipping costs increase in accordance with the number of packages.
- Foam-forming means for leak detection pursuant to EN 14291.
- Please only store upright.
- Please note the safety data sheet

#### Leak detector spray

spray can 125 ml

spray can 400 ml

62 601 00

02 601 00



### Leak detector spray, frostproof

allows safe and reliable leak detection in pipe systems, including at low temperatures

#### Advantages and equipment

- can be used to -15 °C

#### Conformity

- DIN DVGW [German Association of Gas and Water] type test certificate

#### Note

- Because of the German Hazardous Goods Ordinance, we can only deliver the following number of items per package:  
Leak detector spray 400 ml / 24 cans  
For larger quantities despatched by mail, shipping costs increase in accordance with the number of packages.
- Foam-forming means for leak detection pursuant to EN 14291.
- Please only store upright.
- Please note the safety data sheet

#### Leak detector spray, frostproof

spray can 400 ml

02 602 00



-15 °C





### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

#### Advantages and equipment

- with fastening clip

#### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

#### Note

- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

#### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

60 300 92 



### Sealing nut

as a safe closure to protect against damage or contamination of the inlet connector of pressure regulators

Useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time.

#### Advantages and equipment

- with fastening clip
- suitable for automatic changeover valve type AUV or AUV-ND and Caramatic DriveTwo, Caramatic ProTwo and Caramatic SwitchTwo

#### Technical data

- Material: sealing nut: brass
- Gasket: NBR
- Fastening clip: NBR
- Thread: M20 x 1.5 nut

**Note:** The pressure regulator is not included in the scope of delivery!

#### Sealing nut

complete

71 509 30 



### Test point

for leak testing the piping of LPG systems

#### Advantages and equipment

- especially suitable for e.g. wall-mounted low pressure regulators according to EN 16129, annex D in leisure vehicles
- if the test point is used, the dismantling of the wall-mounted pressure regulator for the leak testing of the LPG system is not required
- leak tester (for example, part no. 02 611 10) is connected with test adapter
- the inlet to the pressure regulator is blocked via the ball valve

#### Test point

with coupling nut type M and olive type D-MS

pipe socket 8 x compr. fit. 8

pipe socket 10 x compr. fit. 10

62 618 02 

62 618 04 

#### Accessories

Test hose G 1/4 lh nut x adapter for test point x 750 mm

62 618 03 





### Senso4s PLUS level gauge

with app for smartphones and tablets

Digital level gauge for gas cylinders – e.g. for the use in leisure vehicles or for the gas barbecue, with Bluetooth remote transmission of the measurement and signalling data to a smartphone or tablet.

The level gauge Senso4s PLUS (A) measures the weight of the gas cylinder and transmits this value by Bluetooth to the app (B) which automatically determines the content and provides a consumption forecast.

#### Advantages and equipment

- simple installation; switch Bluetooth on, place gas cylinder on the adjustable feet of the Senso4s level gauge, measure and read the values in the app
- suitable for common steel, aluminium and plastic gas cylinders with a filling weight up to 16 kg
- Bluetooth connection between Senso4s and the smartphone / tablet
- app menu language in German, English, French, Italian, Spanish and Slovenian
- recording the parameters for the filling and tare weight of the respective gas cylinder
- use of several gas cylinders of different sizes
- after only a short operating time, the app will determine a long-term forecast of the gas consumption
- if there is a Bluetooth connection, the Senso4s PLUS sends the measurement data to the app at an interval of 15 minutes
- battery status display of the level gauge in the app
- thanks to the ATEX certification, Senso4s PLUS can also be used in the gas bottle locker of the leisure vehicle, for example
- Senso4s PLUS is designed specifically for the operation in leisure vehicles - among other things thanks to the movement sensor which interrupts the measurement while driving and thus prevents faulty measurement results

#### Conformity

- CE marking according to ATEX, EMC and RED

#### Technical data

- measuring accuracy:  $\pm 1\%$
- protection type: IP44
- supply voltage: 3 type AAA CR03 1,5 V alkaline batteries (not included in the scope of delivery)

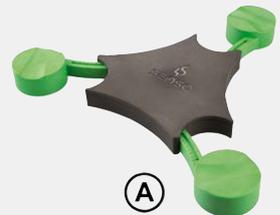
#### Note

- To ensure an error-free measurement, the Senso4s level gauge must be placed on a flat and firm surface.
- The „Senso4s“ app can be downloaded for free in the Apple App Store or in the Google Play Store for your respective operating system.

### Senso4s PLUS level gauge

for gas cylinders

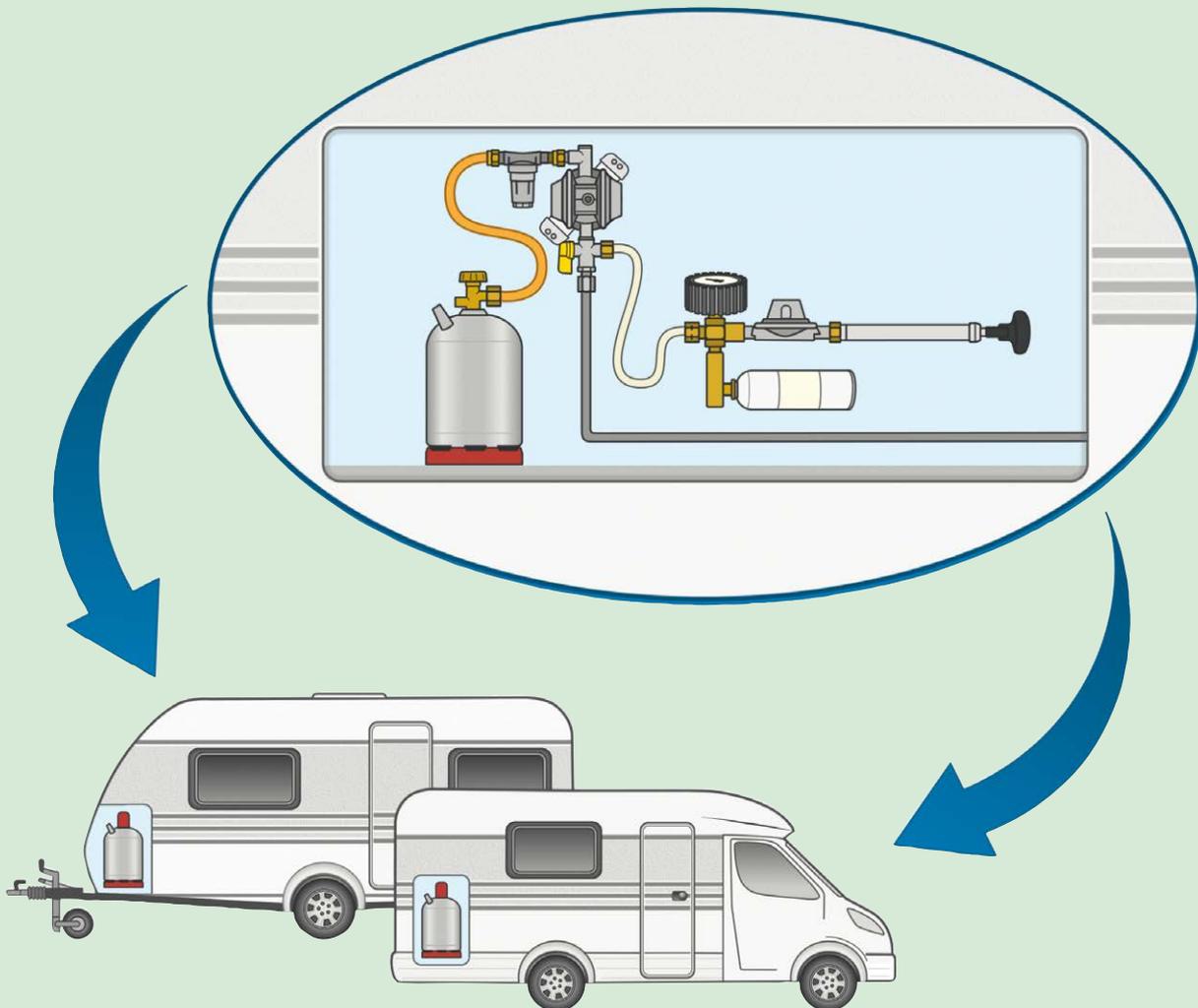
91 902 00 



(A)



(B)



### **Check for leaks by qualified persons**

LPG systems in vehicles are subjected to dynamic loads during driving.

GOK has developed a high-quality leak tester for qualified persons to checking for leaks. For vehicles with a line volume of less than 700 cm<sup>3</sup>, the tester can make use of an additional volume.

With this test device leak-tightness can be checked in accordance with the requirements of EN 1949 and DVGW worksheet G 607.



### Test device Leak Check LPG BASIC

with all the necessary assembly parts for leak testing in LPG systems in recreational vehicles according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949 and in small water crafts according to DVGW worksheet G 608 and EN ISO 10239.

consisting of:

- 1 x leak tester type 150 with pressure limiter
- 1 x test hose for test point
- 1 x medium pressure hose assembly for LPG lines
- 1 x hand grip for the test point
- 1 x stainless steel plug-in fitting STN x pipe socket 8 to connect the test device to the quick coupler SKU
- 1 x straight reducer insert type RED pipe socket 8 x compr. fit 10
- 10 x gaskets for outlet nozzle G 1/4 lh M
- 1 x leak detector spray can 125 ml (please note the safety data sheet)
- 1 x MiniTool to connect and loosen small cylinder regulators
- 1 x double open-end spanner in each of the following sizes: 10/11; 12/13; 14/15; 17/19 and 20/22
- 1 x system case with carrying strap

### Advantages and equipment

- all necessary parts for testing and assembly in one system case
- efficiently arranged compartments with protective insert
- system case (H/W/D: approx. 105 x 396 x 296 mm) made from high-quality ABS plastic
- the system case is combinable, stackable and connectible e.g. with the camping and caravan or marine assembly case

### Test device Leak Check LPG BASIC for caravan and marine

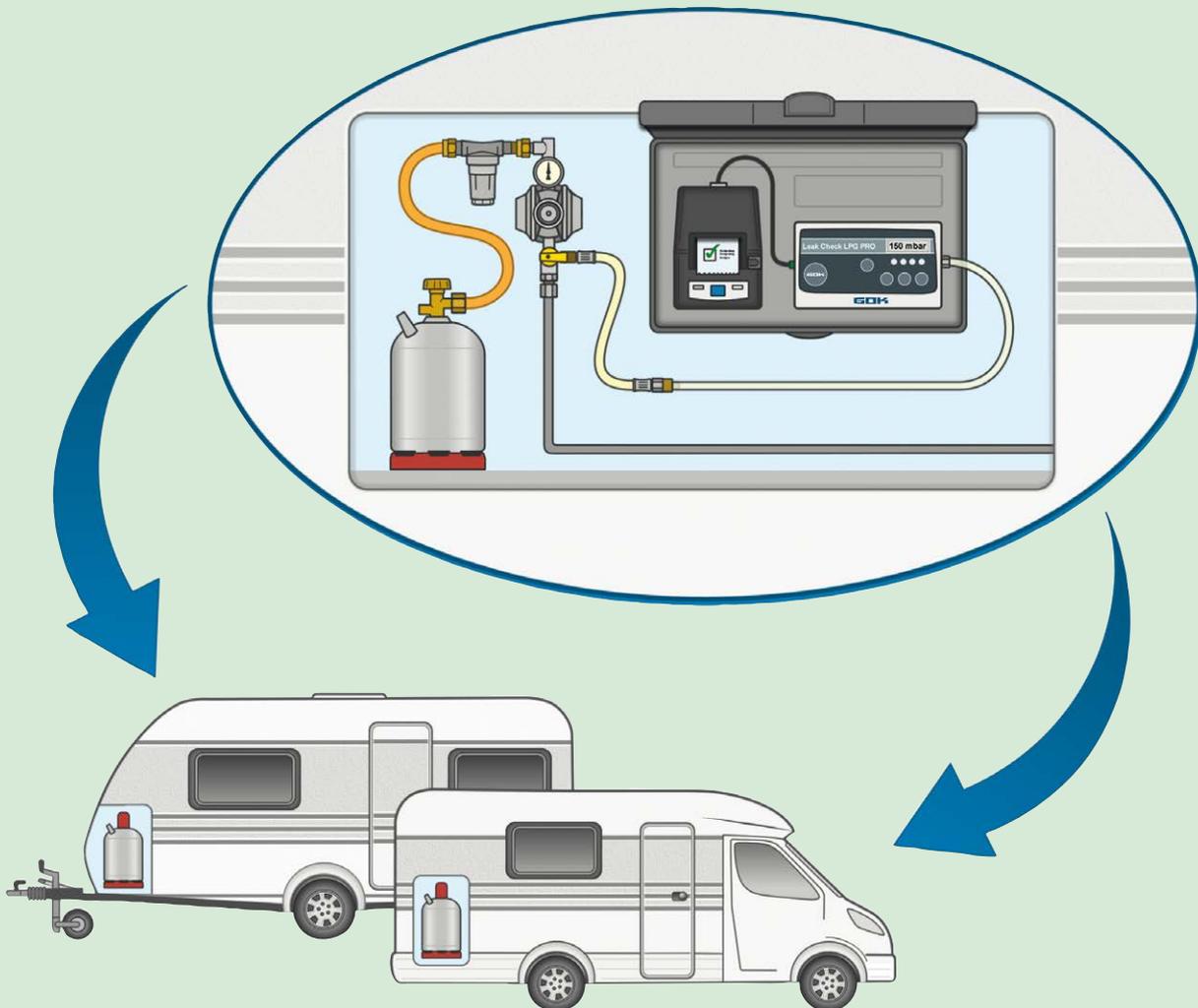
complete **27 100 00**

### Accessories

Retrofit kit for additional volume vessel 600 cm<sup>3</sup> **02 611 06**

Camping and caravan assembly case **27 120 00**





### Checking for leaks of the next generation

With the electronic leak testing Leak Check LPG PRO, checking for leaks in leisure vehicles couldn't be simpler.

The electronic leak testing Leak Check LPG PRO checks for leaks in the LPG system automatically and with no further effort. The printer that is part of the test device can be used to document the test result, which can be attached to the test certificate. All components are arranged efficiently in the system case.



### Electronic leak testing Leak Check LPG PRO

with all the necessary assembly parts for leak testing in LPG systems in recreational vehicles according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949 and in small water crafts according to DVGW worksheet G 608 and EN ISO 10239.

When the Leak Check LPG PRO is connected to the supply line using the included common fitting, it checks for leaks automatically. After a positive check, a log with the test result is printed, which can be attached to the test certificate of the LPG system. If there is a leak in the supply line, the pump can generate the test pressure continuously, which considerably simplifies searching for the leak.

consisting of:

- 1 x Leak Check LPG PRO including mains adapter and rechargeable battery
- 1 x printer with connection cable and spare paper roll
- 1 x connection hose for test point G 1/4 lh M
- 1 x test hose G 1/4 lh nut x adapter for test point x 750 mm
- 1 x medium pressure hose assembly for LPG lines
- 1 x additional volume vessel 600 cm<sup>3</sup>
- 1 x hand grip for the test point
- 1 x plug-in fitting STN x pipe socket 8 to connect to quick coupler SKU
- 1 x straight reducer insert type RED pipe socket 8 x compr. fit 10
- 2 x adapters for all common test connections
- 10 x gaskets for outlet nozzle G 1/4 lh M
- 1 x MiniTool to connect and disconnect small cylinder regulators
- 1 x double open-end spanner in each of the following sizes: 10/11; 12/13; 14/15; 17/19 and 20/22
- 1 x system case

### Advantages and equipment

- clear operating panel for easy handling
- all necessary parts for testing and assembly in one system case
- efficiently arranged compartments with protective insert
- system case (H/W/D: approx. 230 x 508 x 296 mm) made from high-quality ABS plastic
- the system case is combinable, stackable and connectible e.g. with the camping and caravan or marine assembly case
- self-contained with an efficient rechargeable battery
- test result printed out (long-life paper – keeps up to 10 years, approx. 35 printouts possible per paper roll)
- continuous pump function for leak detection
- automatic zero-point correction when it is switched on

### Technical data

- measurement range: 0 to 200 mbar
- pressure resistance: 1000 mbar
- measuring accuracy: ± 2 mbar (in the measurement range 140 to 160 mbar)

### Electronic leak testing Leak Check LPG PRO for caravan and marine

with leak detector spray can 125 ml (please note the safety data sheet) **27 105 00**

### Spare parts

Spare paper roll Longlife / cont. 5 units **27 107 25**

Spare paper roll Longlife / cont. 100 units **27 107 26**

### Accessories

Calibration of the leak testing **58 803 00**





### Electronic pressure regulator test device – Regulator Check LPG PRO

to check the pressure and function of pressure regulators in leisure vehicles and small water crafts consisting of: electronic test device in transport case, test hose, adapter for testing pressure regulators with compression fitting 8 at the outlet, adapter for testing pressure regulators with test valve and transparent ventilation hose

#### Advantages and equipment

- control of flow and closing pressure of low pressure regulators
- safe discharge of LPG to the outside by means of a transparent ventilation hose
- no uncontrolled escape of gas through self-closing test valve
- battery-operated test device incl. USB-C interface for charging the appliance
- menu language and display in German and English

#### Conformity

- CE marking according to EMC

#### Technical data

- test range: low pressure 0 to 160 mbar

### Electronic pressure regulator test device – Regulator Check LPG PRO for caravan and marine

complete

**27 130 00**

#### Spare part

Adapter G 1/4 lh M x pipe socket 8

**14 040 00**





### Leak tester type 150Z

to check for leaks in LPG systems in recreational vehicles according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949 and in small water crafts according to DVGW worksheet G 608 and EN ISO 10239.

consisting of: pressure limiter, test pressure gauge 0 to 250 mbar quality class 1.0 (pressure resistant to 2.5 bar), hand pump, plastic case and additional volume vessel 600 cm<sup>3</sup>

#### Advantages and equipment

- for vehicles with a line test volume of less than 700 cm<sup>3</sup> the test can be carried out with the additional volume of 600 cm<sup>3</sup>
- pressure limiter prevents damage to the pressure gauge

### Leak tester type 150Z

complete **02 611 10**

#### Spare parts

Test pressure gauge 0-250 mbar, quality class 1.0	<b>62 616 00</b>	
Pressure gauge gasket	<b>55 211 60</b>	
Additional volume vessel 600 cm <sup>3</sup>	<b>02 611 40</b>	
Gasket for additional volume	<b>02 611 27</b>	
Gasket for outlet nozzle G 1/4 lh M on the leak tester	<b>02 600 59</b>	
Set consisting of: fitting G 1/4 lh F x G 3/8 lh M and G 1/4 lh F x G 1/2 lh M brass	<b>02 617 22</b>	

#### Accessories

Test hose G 1/4 lh nut x adapter for test point x 750 mm **02 618 06**



### Leak tester type 150

to check for leaks in LPG systems in recreational vehicles according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949 and in small water crafts according to DVGW worksheet G 608 and EN ISO 10239.

consisting of: pressure limiter, test pressure gauge 0 to 250 mbar quality class 1.0 (pressure resistant to 2.5 bar), hand pump, transport bag and two fittings G 1/4 lh F x G 3/8 lh M and G 1/4 lh F x G 1/2 lh M

#### Advantages and equipment

- pressure limiter prevents damage to the pressure gauge

### Leak tester type 150

with hand pump and transport bag **02 611 00**

#### Spare parts

Test pressure gauge 0-250 mbar, quality class 1.0	<b>62 616 00</b>	
Pressure gauge gasket	<b>55 211 60</b>	
Gasket for outlet nozzle G 1/4 lh M on the leak tester	<b>02 600 59</b>	
Set consisting of: fitting G 1/4 lh F x G 3/8 lh M and G 1/4 lh F x G 1/2 lh M brass	<b>02 617 22</b>	

#### Accessories

Test hose G 1/4 lh nut x adapter for test point x 750 mm	<b>02 618 06</b>
Retrofit kit for additional volume vessel 600 cm <sup>3</sup>	<b>02 611 06</b>
Additional volume vessel 600 cm <sup>3</sup>	<b>02 611 40</b>
Gasket for additional volume	<b>02 611 27</b>
Leak detector spray can 125 ml (please note the safety data sheet)	<b>02 601 01</b>





### Function check set

for a simple and fast function check in LPG systems in recreational vehicles according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949 and in small water crafts according to DVGW worksheet G 608 and EN ISO 10239.

Following the final assembly of the LPG systems at the vehicle manufacturer, the function of the gas equipment as well as the function of the installed low pressure regulator can be checked in one operation. consisting of: medium pressure regulator type M50-F/SBS KLF x G 3/8 lh M, 2.0 bar, 2 kg/h with 35° outlet and integrated excess flow valve (EFV) with manual opening, medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 3/8 lh nut x quick coupler type DKG x 2000 mm, Euro filling set D (consisting of filling adapters D1 to D4), plug-in fitting type D1, plug-in fitting x KLF M, plug-in fitting type D1, plug-in fitting x Brit.POL F, plug-in fitting type D1, plug-in fitting x Chin.POL F

### Advantages and equipment

- country-specific inlet connectors on the low pressure regulator can be connected to the check set using the adapters (plug-in fitting or Euro filling set D) included in the scope of delivery
- excess flow device prevents gas escape in case of damage or if the hose assembly becomes detached, and blocks the gas flow, as soon as the nominal flow rate is exceeded by 10 %

### Function check set caravan and marine

complete

**27 101 00**

### Spare parts

Medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm,

**27 101 04**

G 3/8 lh nut x quick coupler x 2000 mm

**09 738 00**

Euro filling set D, consisting of filling adapters D1 to D4

**27 101 01**

Plug-in fitting type D1 plug-in fitting x KLF M

**27 101 03**

Plug-in fitting type D1, plug-in fitting x Chin.POL F





### Camping and caravan assembly case

containing all the necessary components and spare parts for assembly and maintenance work on LPG systems in motorhomes and caravans according to DVGW worksheet G 607, ÖVGW worksheet G 107 and EN 1949

consisting of:

- 15 x straight compression fitting, type G 8 mm
- 5 x straight compression fitting, type G 10 mm
- 15 x elbow compression fitting, type W 8 mm
- 5 x elbow compression fitting, type W 10 mm
- 5 x T-shape compression fitting, each types T 8 and 10 mm
- 4 x straight reducing compression fitting, type GR 10 x 8 mm
- 4 x straight bulkhead compression fitting, type SV 8 mm
- 5 x elbow bulkhead compression fitting, type WSV 8 mm
- 15 x coupling nut, type M 8 mm
- 10 x coupling nut, type M 10 mm
- 40 x olive type D 8 mm
- 10 x olive type D 10 mm
- 10 x blind plug for distributor valve, each 8 and 10 mm
- 20 x metal pipe clamp with rubber profile, each 8 and 10 mm
- 1 x pre-assembly socket type VOMO, each 8 and 10 mm
- 5 x protective cap for test point
- 1 x system case

### Advantages and equipment

- all the components that you need for assembly and maintenance, arranged neatly in one system case
- efficiently arranged compartments
- system case (H/W/D: approx. 82 x 396 x 296 mm) made from high-quality ABS plastic
- the system case is combinable, stackable and connectible e.g. with the test devices Leak Check LPG PRO and BASIC as well as the marine assembly case

### Camping and caravan assembly case for LPG systems in leisure vehicles

complete **27 120 00**

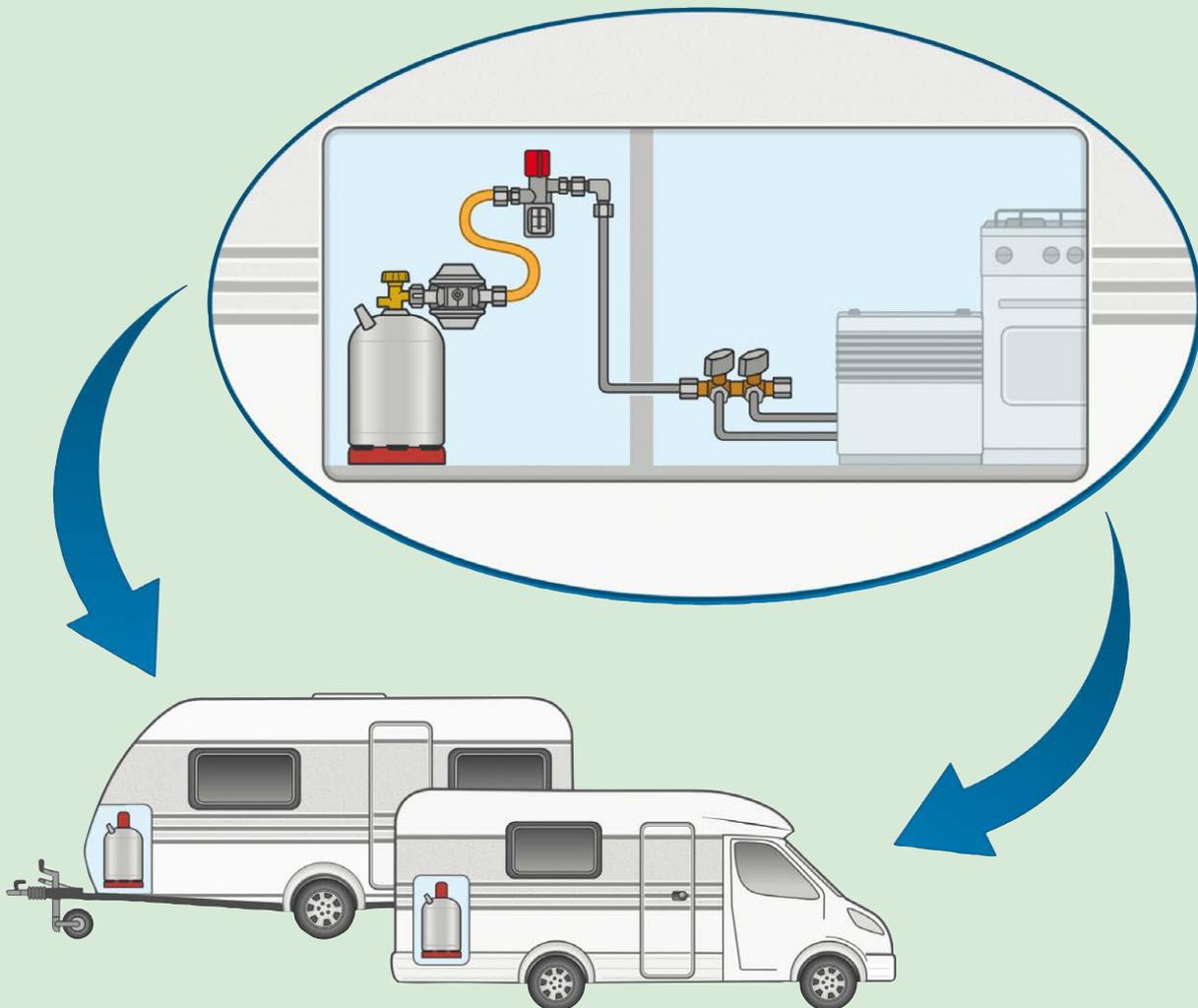
#### Accessories

Electronic test device Leak Check LPG PRO **27 105 00**

Test device Leak Check LPG BASIC **27 100 00**

Marine assembly case **27 110 00**





### **Checking for leaks by the operator**

Regular checking for leaks by the operator increases the safety of the LPG system.

With the leak tester, the system can be checked at any time with the push of a button.

A special glycol mixture allows you to check for leaks at temperatures below zero.

The subsequent installation is possible without difficulty.



### Leak tester type 4071

enables quick and sound leak testing of the LPG system at any time at the press of a button

#### Advantages and equipment

- with fixing screws
- with reinforcement rings
- including glycol mixture to check also at temperatures below freezing
- bubbles can be seen in the inspection glass if there is a leak in the LPG system

#### Technical data

- maximum working pressure: 2 bar
- pressure loss: < 1 mbar

#### Note

- Can be installed in all low pressure LPG systems in motorhomes and caravans!

#### Leak tester type 4071

##### straight outlet

compression fitting x compression fitting

with coupling nut type M and olive type D-MS

compr. fit. 10 x compr. fit. 10

02 004 63

##### 90° outlet

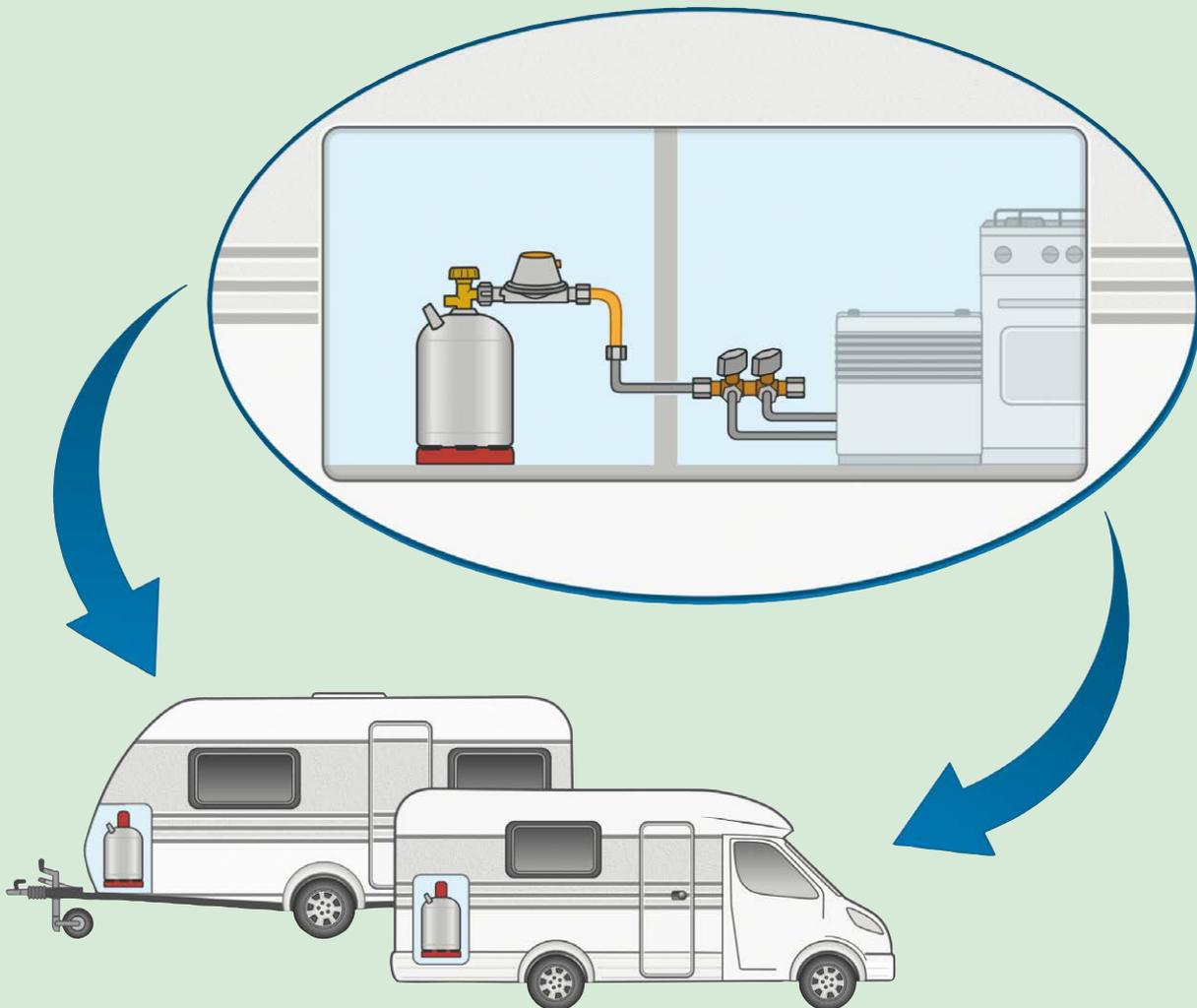
pipe socket x compression fitting

with coupling nut type M and olive type D-MS

pipe socket 8 x compr. fit 8

62 004 02





### **Care and maintenance of LPG installations**

All LPG systems in vehicles must be checked regularly according to DVGW worksheet G 607. Pressure regulators and hose assemblies have to be replaced after 10 years at the latest.

The vehicle owner must not retrofit older LPG installations in vehicles with a working pressure of 50 mbar to 30 mbar – the status quo is to be preserved.



### Caramatic BasicOne type EN61

for connection to gas cylinders to regulate the pressure to the nominal pressure of the gas equipment

#### Advantages and equipment

- with pressure relief valve PRV
- vent plug that also prevents moisture, such as rainwater, getting inside the regulator
- version with extended inlet connector, 90° outlet suitable for VW camper vans with Westfalia fit-out

#### Conformity

- EC type examination certificate PED
- EC type examination certificate GAR
- UKCA type examination certificate GAR

#### Technical data

- maximum admissible pressure: 16 bar

### Caramatic BasicOne type EN61

#### straight outlet

##### with pressure gauge

KLF	x	G 1/4 lh M	50 mbar	1.5 kg/h	<b>61 113 03</b>	
Shell-F	x	G 1/4 lh M	50 mbar	1.5 kg/h	<b>61 113 12</b>	

##### without pressure gauge

KLF	x	G 1/4 lh M	50 mbar	1.5 kg/h	<b>61 113 00</b>	
Shell-F	x	G 1/4 lh M	50 mbar	1.5 kg/h	<b>61 113 11</b>	

#### 90° outlet

##### with pressure gauge

KLF	x	G 1/4 lh M	50 mbar	0.8 kg/h	<b>01 113 43</b>	
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##### without pressure gauge

KLF	x	G 1/4 lh M	50 mbar	0.8 kg/h	<b>61 113 25</b>	
Shell F	x	G 1/4 lh M	50 mbar	0.8 kg/h	<b>61 113 27</b>	

#### with extended inlet connector, 90° outlet

##### without pressure gauge

KLF	x	G 1/4 lh M	50 mbar	0.8 kg/h	<b>61 113 13</b>	
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### Medium pressure rubber hose assembly

to connect fittings, consumer equipment and piping

#### Conformity

- DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 10 bar
- hose: **rubber with textile lining**
- cold resistant up to -30 °C

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.

### Medium pressure hose assembly rubber hose dimensions 6.3 x 3.5 mm

**connections: coupling nut x compression fitting  
with coupling nut type M and olive type D**

G 1/4 lh nut	x	compr. fit 8	x	400 mm	<b>64 402 00</b>	
G 1/4 lh nut	x	compr. fit 8	x	450 mm	<b>64 401 04</b>	
G 1/4 lh nut	x	compr. fit 8	x	750 mm	<b>64 405 01</b>	
G 1/4 lh nut	x	compr. fit 10	x	400 mm	<b>64 409 00</b>	
G 1/4 lh nut	x	compr. fit 10	x	750 mm	<b>64 409 02</b>	

**connections: coupling nut x plug-in fitting**

G 1/4 lh nut	x	plug-in fitting	x	400 mm	<b>64 221 01</b>	
G 1/4 lh nut	x	plug-in fitting	x	800 mm	<b>64 222 00</b>	
G 1/4 lh nut	x	plug-in fitting	x	1000 mm	<b>64 223 00</b>	
G 1/4 lh nut	x	plug-in fitting	x	1500 mm	<b>64 224 00</b>	
G 1/4 lh nut	x	plug-in fitting	x	2000 mm	<b>64 225 00</b>	
G 1/4 lh nut	x	plug-in fitting	x	3000 mm	<b>64 227 01</b>	
G 1/4 lh nut	x	plug-in fitting	x	5000 mm	<b>64 227 00</b>	

Other versions, connections or dimensions on request.

### Medium pressure hose assembly plastic

to connect fittings, consumer equipment and piping

#### Conformity

- DVGW [German Association of Gas and Water] type test certificate

#### Technical data

- maximum admissible pressure: PS 10 bar
- hose: **plastic with textile lining**

#### Note

- Our hose assemblies are supplied with a tag and notice of the year of replacement.

### Medium pressure hose assembly plastic hose dimensions 6.3 x 3.5 mm

**connections: coupling nut x compression fitting  
with coupling nut type M and olive type D**

G 1/4 lh nut	x	compr. fit. 8	x	400 mm	<b>64 402 02</b>	
G 1/4 lh nut	x	compr. fit. 10	x	400 mm	<b>64 409 09</b>	

Other versions, connections or dimensions on request.



-30 °C





### Pre-pressure regulator type DE 50/30 S

for safe, compliant integration of 30 mbar gas equipment in 50 mbar LPG systems in vehicles and boats

#### Advantages and equipment

- including 1 m plastic ventilation line
- easy assembly in the respective appliance line
- integrated bypass bore ensures a leak check to the gas equipment
- ideal if the LPG system is retrofitted or if defective gas equipment is being replaced

#### Conformity

- EC type examination certificate GAR

#### Technical data

- maximum admissible pressure: PS 1 bar

#### Note

- In the German DVGW worksheet G 607 for LPG systems in occupied leisure vehicles and for living purposes in other road vehicles, it is prescribed in the chapter for operation and testing that pressure regulators are to be replaced 10 years after the date of manufacture at the latest. If the working pressure of the system is 30 mbar, pursuant to G 607, a regulator according to EN 16129, annex D (e.g. part no. 01 280 10) is to be used in the event of a replacement. For LPG systems in vehicles with a working pressure of 50 mbar, a non-compliance permit applies. There is no obligation to convert to 30 mbar.

### Pre-pressure regulator type DE 50/30 S

#### with coupling nut type M-MS and olive type D-MS

compr. fit. 8 x    compr. fit. 8                    30 mbar                    0.8 kg/h                    **71 446 00** 



### Locking screw

as a secure cover to protect against damage or contamination of the inlet connector of pressure regulators or high pressure hose assemblies

useful if the connection between the gas cylinders and fittings is disconnected or the gas system is at a standstill for a long period of time

#### Advantages and equipment

- with fastening clip

#### Technical data

- material: plastic
- male thread: W21.8 x 1/14 lh

#### Note

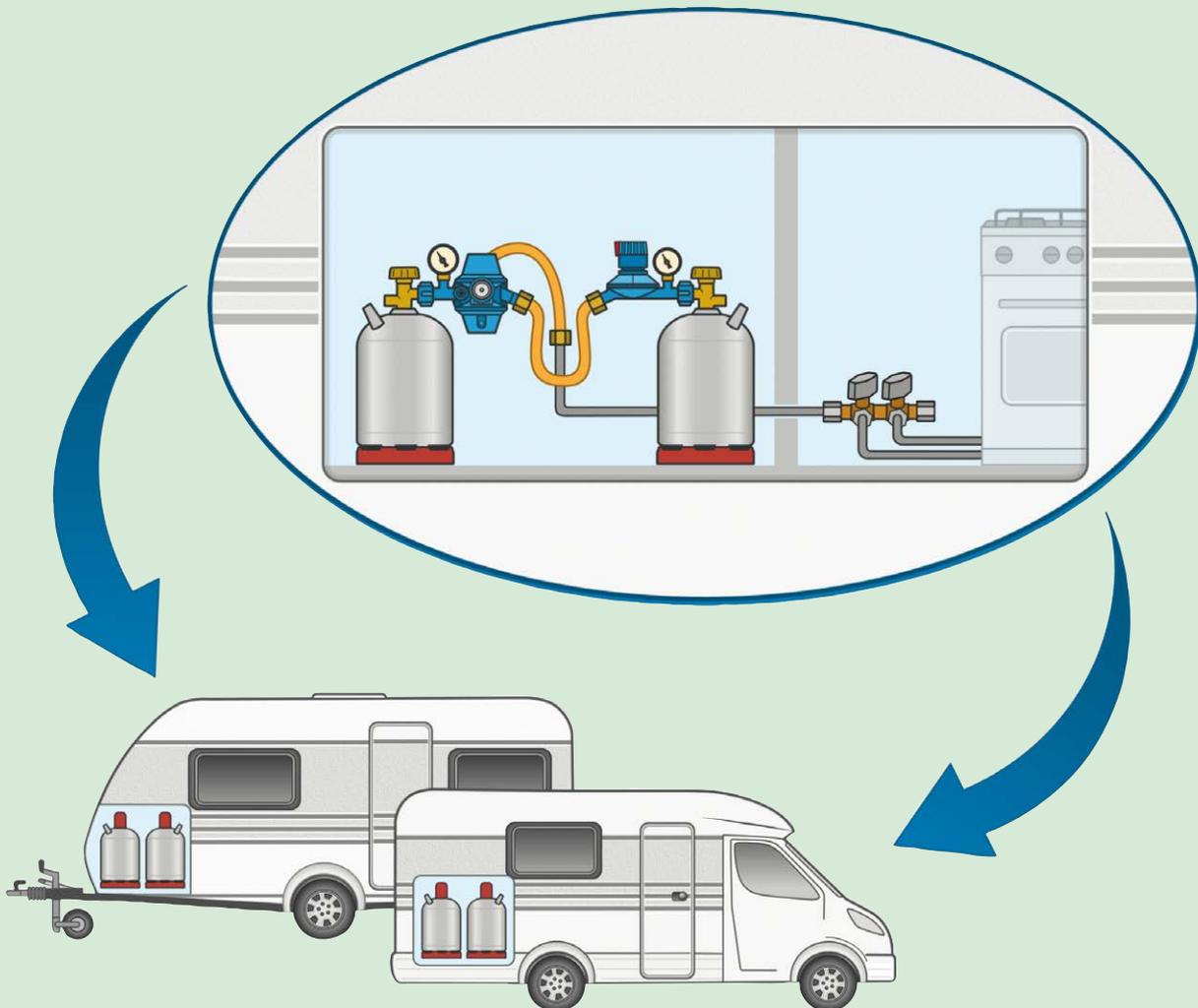
- The locking screw must not be used on regulators with a gas non-return valve, such as Caramatic BasicTwo!
- The pressure regulator is not included in the scope of delivery!

### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

**60 300 92** 





### **Care and maintenance of LPG installations – two-cylinder system**

If existing two-cylinder systems have to be replaced after 10 years, the automatic changeover system Caramatic is the perfect replacement so as not to lose any of the convenience you are accustomed to.

The set, which consists of a central and changeover regulator, hose assemblies and all connection parts, allows the replacement to take place quickly and without a problem.



### Caramatic BasicTwo

automatic regulator changeover, for connection to gas cylinders to regulate the pressure to the nominal pressure of the gas equipment

consisting of: central (A) and changeover regulator (B), pressure gauge and hose assemblies

#### Advantages and equipment

- with pressure relief valve PRV
- corrosion resistant in accordance with EN 16129, annex M
- fitted with an adapter to connect 10 mm piping
- gas non-return valve: prevents the escape of gas when the cylinder is replaced
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 3/8 lh nut x G 3/8 lh nut x 400 mm to connect the two regulators, brass connections, stainless steel compressive sleeves
- medium pressure hose assembly (rubber with textile lining; cold resistant up to -30 °C; hose dimensions 6.3 x 3.5 mm) G 1/4 lh nut x compr. fit. 8 x 400 mm to connect the system to the piping, brass connections, stainless steel compressive sleeves
- suitable for connection of the remote display Caramatic BasicControl
- combined fitting for optional connection to 5, 11 or 33 kg gas cylinders
- including MiniTool to connect and disconnect regulators

#### Conformity

- single fittings with DIN-DVGW and/or DVGW [German Association of Gas and Water] type test certificate or EU type examination certificate PED

#### Technical data

- maximum admissible pressure: PS 16 bar
- connections:
  - inlet: Komb.W
  - outlet: central regulator: G 1/4 lh M
  - changeover regulator: G 3/8 lh M
- outlet pressure: central regulator: 30 or 50 mbar
- changeover regulator: 150 mbar

#### Note

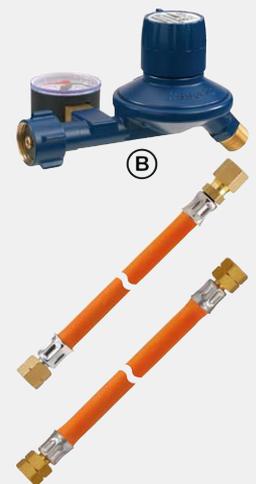
- In the German DVGW worksheet G 607 for LPG systems in occupied leisure vehicles and for living purposes in other road vehicles, it is prescribed in the chapter for operation and testing that pressure regulators are to be replaced 10 years after the date of manufacture at the latest. If the working pressure of the system is 30 mbar, pursuant to G 607, a regulator according to EN 16129, annex D (e.g. part no. 01 280 10) is to be used in the event of a replacement. For LPG systems in vehicles with a working pressure of 50 mbar, a non-compliance permit applies. There is no obligation to convert to 30 mbar.

#### Caramatic BasicTwo

50 mbar	1.5 kg/h	<b>71 218 01</b>	
30 mbar	1.5 kg/h	<b>71 218 02</b>	

#### Accessories

medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, G 1/4 lh nut x compr. fit. 8 x 400 mm, brass parts	<b>04 440 01</b>	
medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, G 3/8 lh nut x G 3/8 lh nut x 400 mm, brass parts	<b>04 504 01</b>	
medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, G 1/4 lh nut x compr. fit. 8 x 400 mm, brass parts	<b>64 440 02</b>	
medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, G 3/8 lh nut x G 3/8 lh nut x 400 mm, brass parts	<b>64 504 01</b>	
Caramatic BasicControl – Remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS	<b>71 392 00</b>	





### Caramatic BasicControl

remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS

Convenient information and control unit for monitoring of the operating and reserve cylinders of the two-cylinder system Caramatic BasicTwo for motorhomes, caravans and boats or the Caramatic SafeDrive PLUS for motorhomes and caravans.

consisting of: information and control unit including connection cable 6 m, cover frame, pressure and reed sensor for remote display with connection cable 2 m

#### Advantages and equipment

- remote indication of the operating status (normal or reserve operation) of the gas cylinders
- always know whether and, if so, which of the two gas cylinders is empty and needs to be changed
- can be easily installed in new systems or retrofitted in existing systems
- can be used with the two-cylinder system Caramatic BasicTwo or Caramatic SafeDrive PLUS
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- CE marking according to ATEX and EMC

#### Technical data

- supply voltage: 12 V

#### Caramatic BasicControl

##### Remote display for Caramatic BasicTwo two-cylinder system or Caramatic SafeDrive PLUS

Information and control unit with pressure and reed sensor for the remote display **71 392 00** 

##### Spare part

Cover frame, colour: anthracite **71 391 00** 

##### Accessories

Extension cable 10 m **71 392 01** 



### Functions of the safety devices

You can find animations of all the safety devices on our YouTube channel [www.youtube.com/c/GOK-ReglerundArmaturen](https://www.youtube.com/c/GOK-ReglerundArmaturen)

#### Crash-Sensor with pendulum



The crash sensor is an automatic safety device and is part of the regulator system. If heaters are operated in leisure vehicles while driving as well, the crash sensor provides protection from uncontrolled escape of LPG, e.g. in the event of a traffic accident.

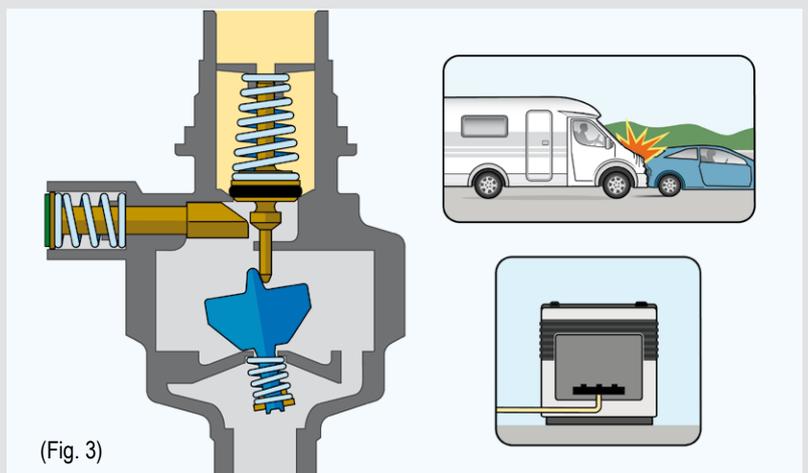
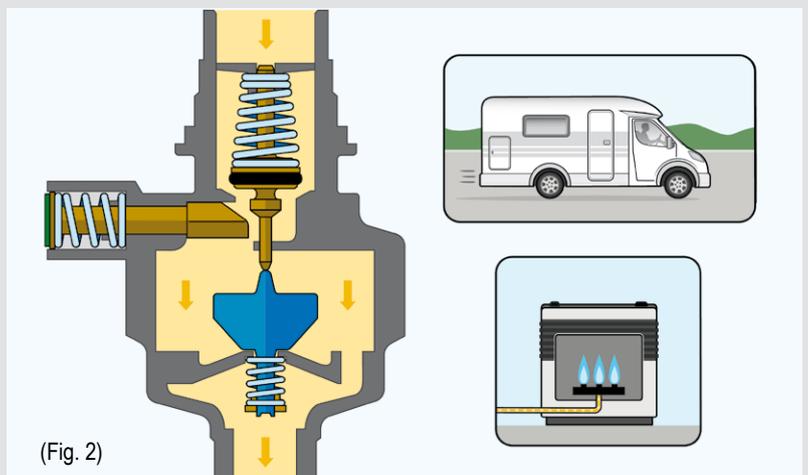
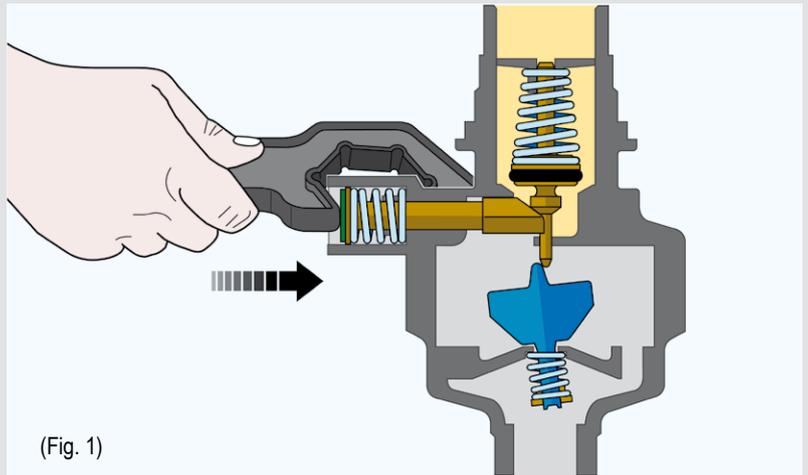
To start up, press the reset button, which opens the spring-loaded sealing unit (**Fig. 1**).

The pendulum swings into its resting position and prevents the sealing unit from closing. This ensures that gas can flow. The reset button is relieved. Heating can now be used safely while driving (**Fig. 2**).

For example, if the leisure vehicle is involved in a traffic accident, the crash sensor directly blocks the gas flow. From a crash speed of about 15 to 20 km/h, the sphere changes its position and releases the spring-loaded sealing unit. The gas flow is closed (**Fig. 3**) and remains in this state until it is opened again manually via the reset button.



For more information, visit the GOK blog at [www.gok-blog.de](http://www.gok-blog.de): „What components do I need to operate gas equipment in the caravan and motor caravan while driving?“

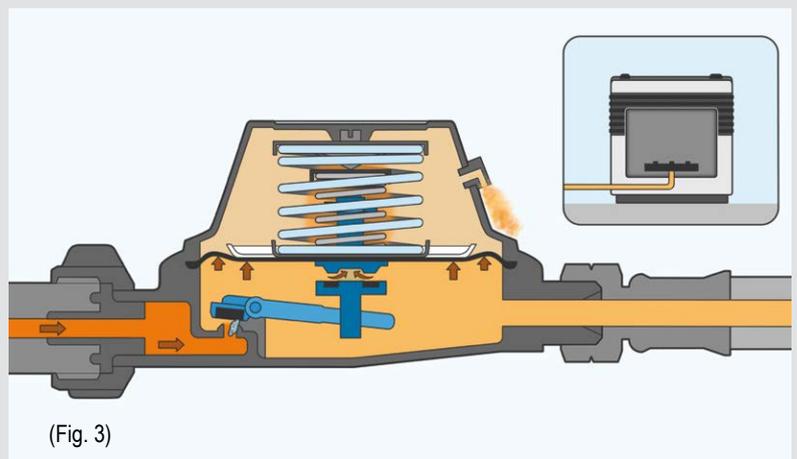
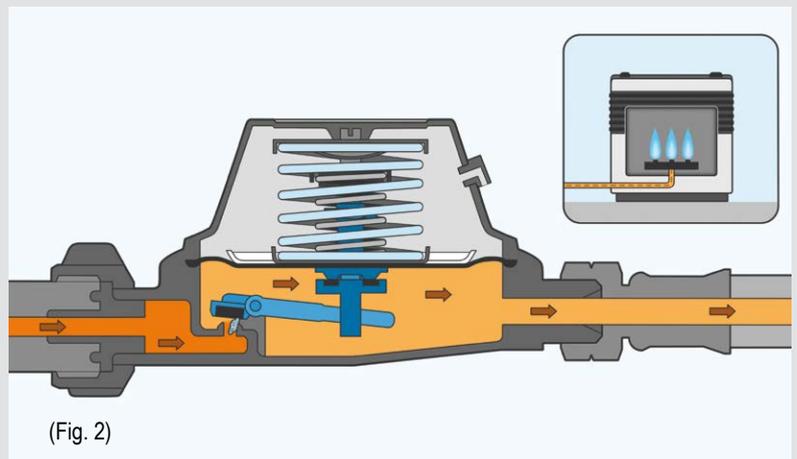
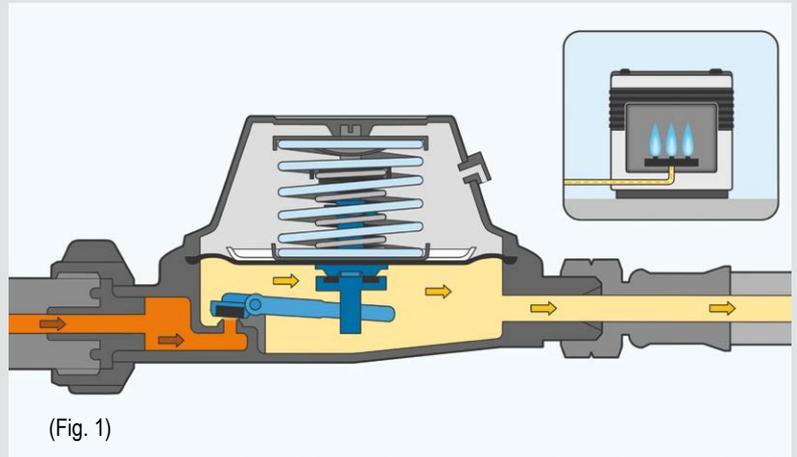


### Pressure relief valve PRV

The pressure relief valve PRV is a safety device integrated in the pressure regulator.  
It acts automatically and protects the connected consumer equipment against excessive high pressure (**Fig. 1**).

If excessive high pressure occurs at the outlet side, e.g. because of dirt, (**Fig. 2**), the diaphragm is pressed upward. The pressure relief valve opens and blows the excess pressure off to the ambient air (**Fig. 3**).

When the pressure falls, the pressure relief valve PRV closes again automatically.



For more information, visit the GOK blog at [www.gok-blog.de](http://www.gok-blog.de): „How does a PRV pressure relief valve work?“

### Overpressure safety device S2SR

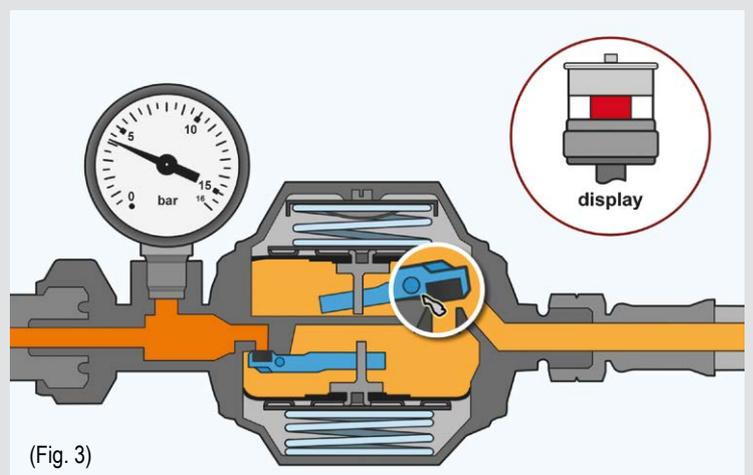
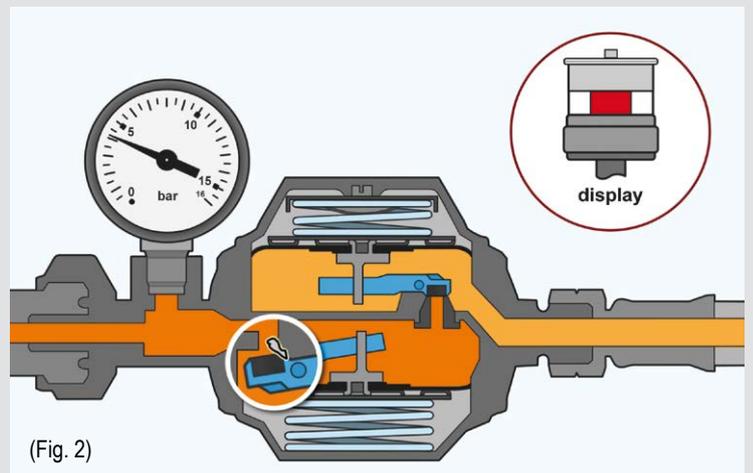
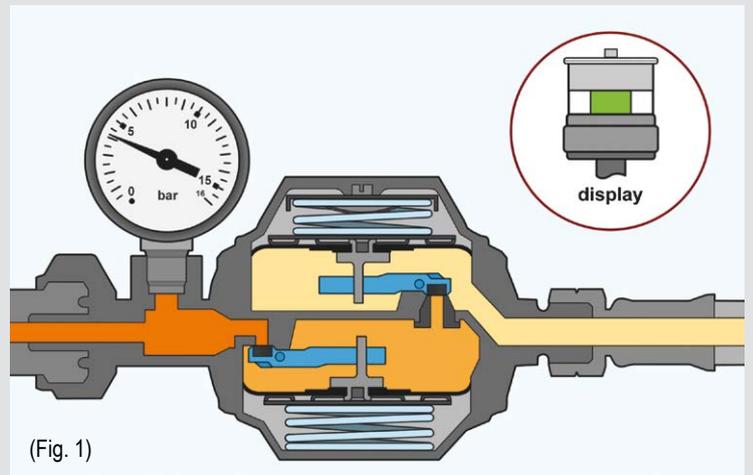
Regulators with an overpressure safety device S2SR are two-stage pressure regulators (Fig. 1).

If one of the two regulator stages fails, e.g. because of dirt or other foreign bodies in the valve, the other regulator stage reduces the pressure to maximum 150 mbar. This can be seen by the red field in the visual indicator (Figs. 2 and 3).

With the visual indicator users can see when the outlet pressure is above 80 mbar and when the low pressure regulator has to be replaced.



For more information, visit the GOK blog at [www.gok-blog.de](http://www.gok-blog.de): „How does an overpressure safety device S2SR work?“



### Excess flow valve SBS

The excess flow valve SBS prevents gas from escaping on an uncontrolled basis in the event of hose damage.

Press the control knob to put the excess flow valve SBS into service. This opens the closing taper and the connected hose assembly fills with gas (Fig. 1).

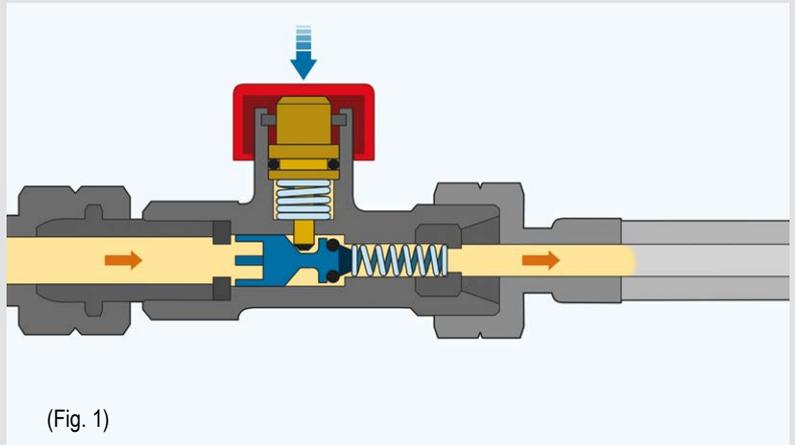
When the pressure has equalised, the closing taper remains open and gas can be consumed (Fig. 2).

If the hose assembly is damaged, the pressure drops suddenly and the closing taper is pressed on to the valve seat. The gas supply is interrupted. Unused gas cannot escape (Fig. 3).

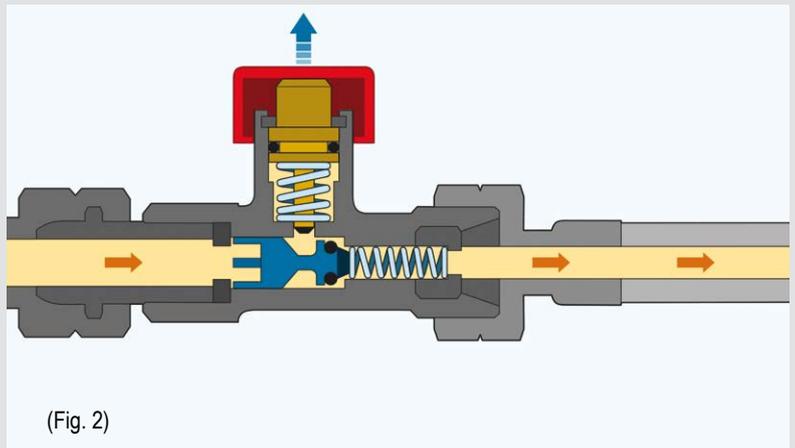
The automatically opening version of the excess flow valve SBS is started up via a pulse bore. The closing taper is opened automatically after the pressure compensation.

An excess flow valve that is integrated in the pressure regulator is an EFV.

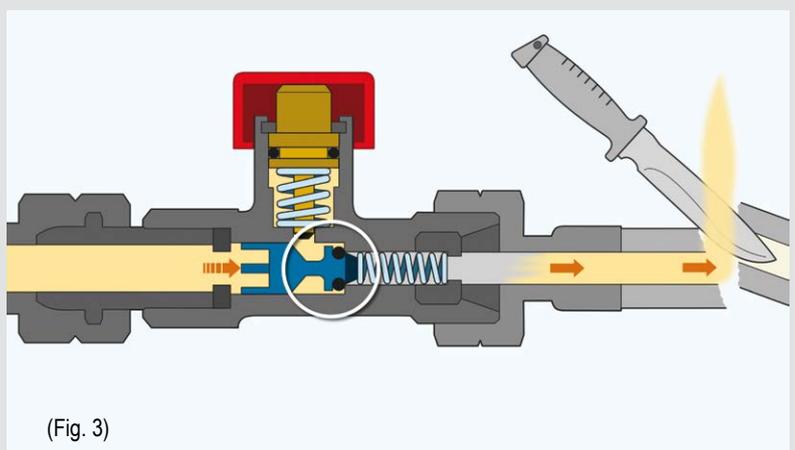
The EFV works in the same way as excess flow valves connected to the pressure regulator.



(Fig. 1)



(Fig. 2)



(Fig. 3)



For more information, visit the GOK blog at [www.gok-blog.de](http://www.gok-blog.de): „How does an excess flow device work?“

### Leak tester type 4071

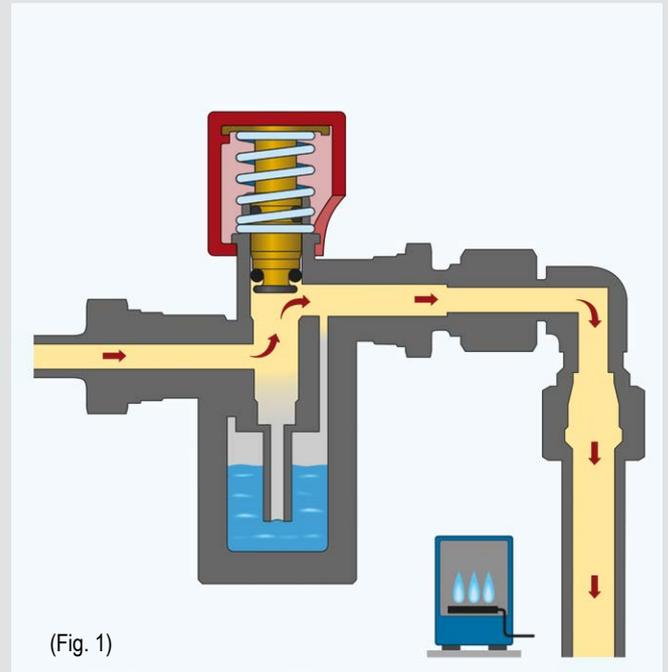


The leak tester enables quick and sound leak testing of the LPG system at any time.

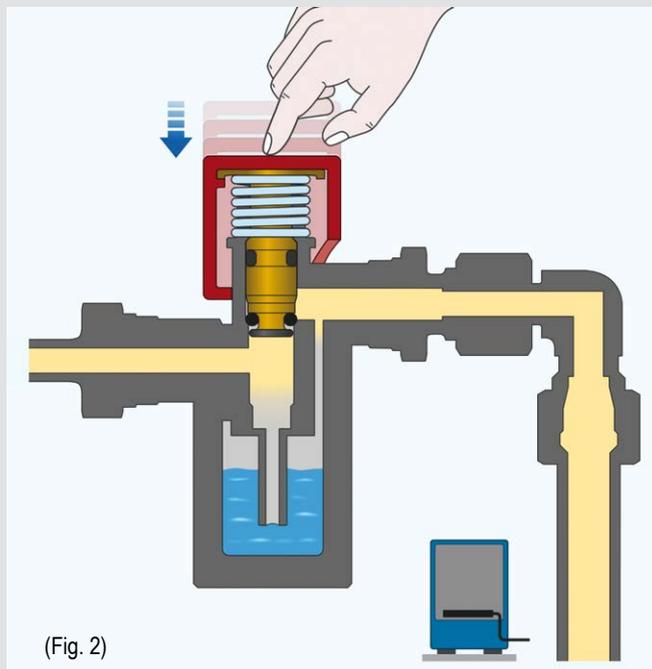
In normal operations, the gas flows through the leak tester without hindrance (**Fig. 1**).

Continuous pressure on the test button blocks the normal gas flow. If the line is tight, no bubbles form in the inspection glass (**Fig. 2**).

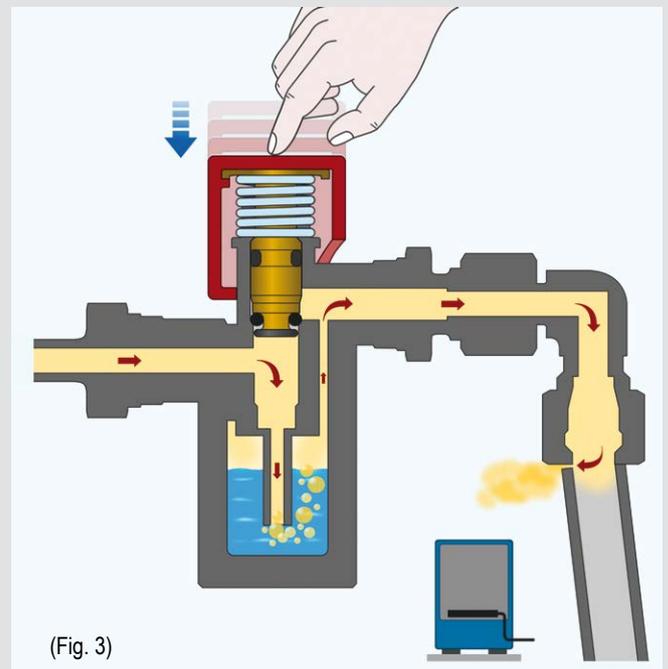
On the other hand, if there is a leak in the line, the gas flows through the vessel with a glycol mixture. Bubbles form in the inspection glass (**Fig. 3**).



(Fig. 1)



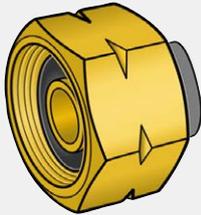
(Fig. 2)



(Fig. 3)

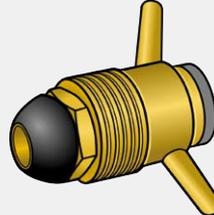
### Inlet connectors

#### Italian connection (Ital.A)



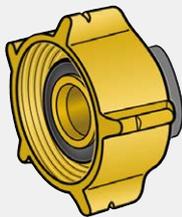
Designation to standard*	G.1
Country #	AT, GR, IT, SI, CY, MT, TR
Material gasket	NBR

#### Soft POL wing (POL-WF)



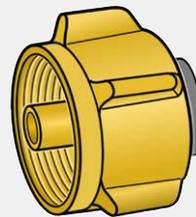
Designation to standard*	G.10
Country #	BE, IS, NO, PT, SE
Material gasket	NBR

#### FR Shell (Shell-F)



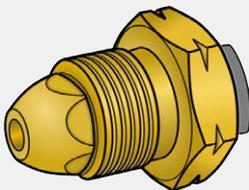
Designation to standard*	G.2
Country #	BE, CH, FR, RU
Material gasket	NBR

#### Small cylinder (KLF)



Designation to standard*	G.12
Country #	AT, DE, IS, PL, RU
Material gasket	--

#### British POL (Brit.POL)



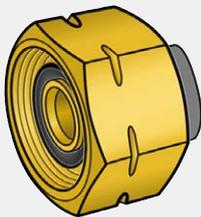
Designation to standard*	G.7
Country #	UK, IE
Material gasket	--

#### M20 x 1.5 M



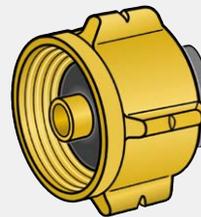
Designation to standard*	G.13
Country #	CH, EU, RU

#### Shell Butane Nut (EU-Shell)



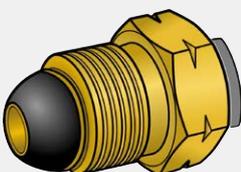
Designation to standard*	G.8
Country #	UK, IE, BE, CZ, DK, HR, HU, SI, SK, NO, ES, NL, RU
Material gasket	NBR

#### Kombi Soft (Komb.W)



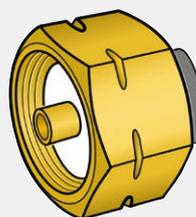
Designation to standard*	G.19
Country #	DE, ES, RU
Material gasket	NBR

#### Soft POL (POL-WS)



Designation to standard*	G.10
Country #	BE, IS, NO, PT, SE
Material gasket	NBR

#### Shell Kombi hard (Komb.Shell-H)



Designation to standard*	X.3
Country #	RU
Material gasket	PA

\*Designation according to EN 16129 annex G and EN 15202 / \*\*Designation GOK factory standard

# Common gas cylinder connection in the countries listed

### Outlet connectors

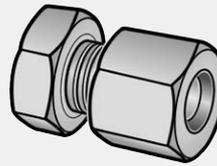
#### M20 x 1.5 M



Designation to standard\* H.1

Country CH, EU, RU

#### Compression fitting



Designation to standard\* H.8

Country International

#### Ball-cone connector



Designation to standard\* H.4, H.6, H.5

Country AT, CH, CZ, DE, PL, RU, SI

\*Designation according to EN 16129 annex H

### Maintenance and inspection

Technical rules define the test intervals and content of the tests for all LPG systems in leisure vehicles. In Germany, the worksheet G 607 (A) issued by the German Technical and Scientific Association for Gas and Water (DVGW) applies.

#### Inspecting the LPG system

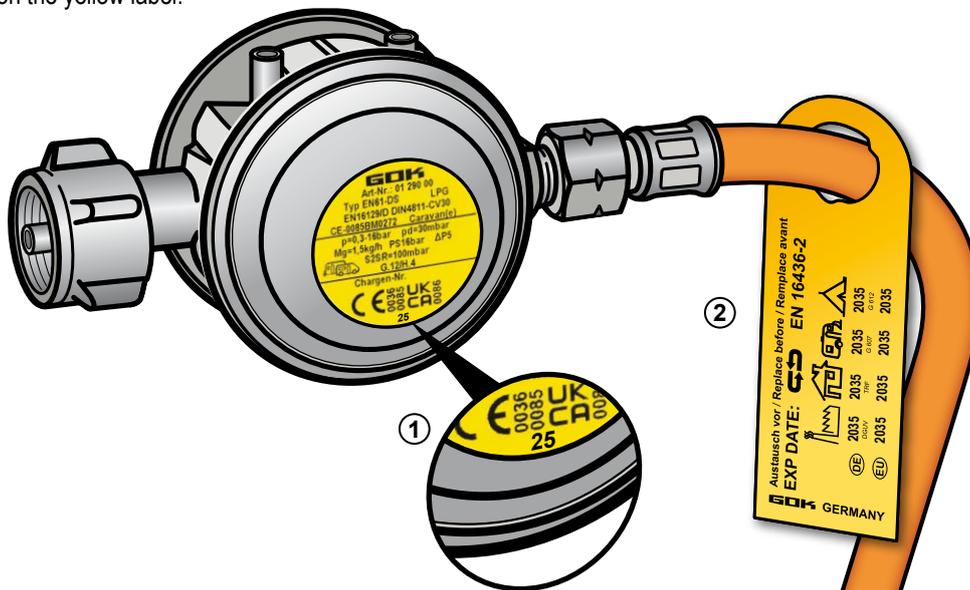
- Each LPG system is to be inspected by a qualified person.
- The first inspection is carried out before start-up by a qualified person for compliance with EN 1949 in conjunction with worksheet G 607 (A) and is usually carried out by the manufacturer.
- The next inspection should be carried out by a qualified person 24 months after the initial inspection.
- The condition of the LPG system must be recorded in a test certificate. If no defects are found, the system can be kept in use and an inspection plate is issued.

#### Replacement deadline for system components

- Pressure regulators, automatic changeover systems and hose assemblies have to be replaced every 10 years at the latest.
- The date of manufacture printed on the fittings and hose assemblies is what matters, not the date of installation or the start-up date.
- In the case of pressure regulators, the date in question is printed on the type label. ① There are three basic formats for specifying the date of manufacture:
  - a) **xx.xx** – In this format, the first two numbers indicate the month of manufacture, the following two the year. The abbreviation 08.20 means that the pressure regulator was manufactured in August 2020.
  - b) **xxxx** – Four digits, not separated by a dot, indicate the year of manufacture. The 2023 imprint at the lower end of the type plate means that the pressure regulator was manufactured in 2023.
  - c) **xx** – Since the end of 2024 and beginning of 2025, only two digits are left on the type plates. A 25 on the type plate of the pressure regulator is equivalent to the year 2025.
- GOK offers a special service for hose assemblies. They have a yellow label ② showing the year in which the hose assembly should be replaced in relation to the field of application. If the yellow label is torn or no longer attached, the year of manufacture is also printed on the hose assembly.

#### Replacement period

Date of manufacture on the type label of the pressure regulator and year of replacement of the hose assembly on the yellow label.



### Checking for leaks when replacing cylinders

For your safety, each time you replace or connect a cylinder check the connection between the gas cylinder valve and the pressure regulator ③ or high pressure hose assembly with a foaming agent (e.g. leak detector spray) for leak-tightness. Alternatively, in the case of suitably equipped pressure regulators, you can use the pressure gauge in the inlet for leak testing.

### Checking for leaks in pressure regulators without pressure gauge

1. Close all shut-off fittings on the consumer equipment.
2. Slowly open the gas cylinder valve.
3. Spray all connections with foaming agent according to EN 14291 (e.g. leak detector spray, part no. 02 601 00).
4. Do not use an open flame for leak testing!
5. Check the leak-tightness by seeing whether bubbles form in the foaming agent.
6. If bubbles form continuously, do not start the LPG system. Find and rectify the cause of the leak. This should be carried out by a qualified person.

#### Note:

All other detachable connections (e.g. the hose connection at the outlet of the pressure regulator ④, compression fittings in the piping) should also be checked for leak-tightness (e.g. with a foaming agent) before each use.

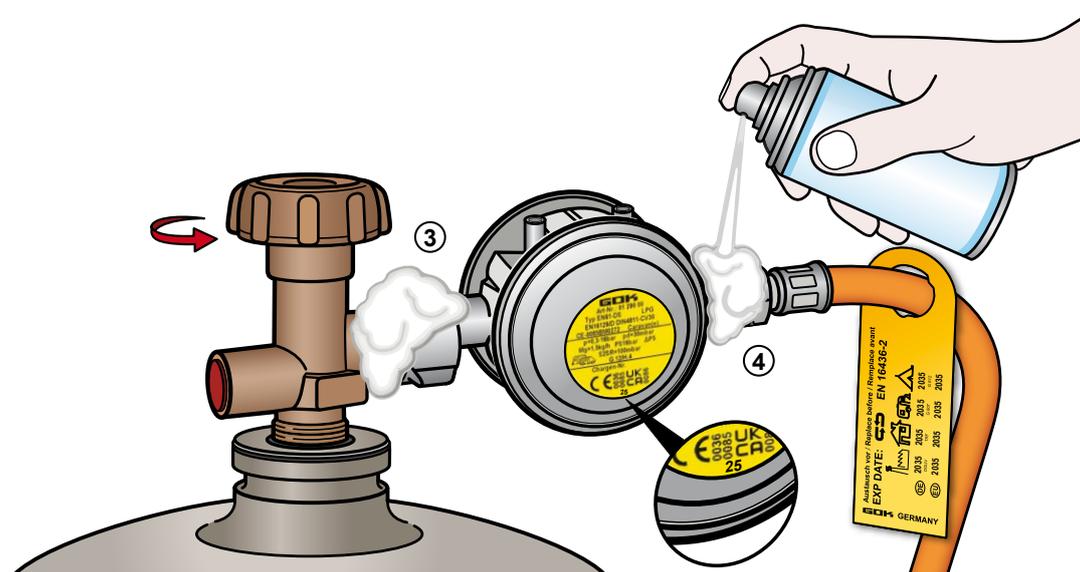
### Checking for leaks in pressure regulators with pressure gauge

**Note:** The complete LPG system is tested up to the shut-off fittings.

1. Close all shut-off fittings on the consumer equipment.
2. Slowly open the gas cylinder valve.
3. **For pressure gauges with no red pointer:**  
Mark the position of the black pointer (shows the current cylinder pressure).  
**Pressure gauge with red pointer:**  
Turn the red pointer to the exact position of the black pointer to mark the current cylinder pressure.
4. Close the gas cylinder valve.  
Waiting time: 2 minutes to allow temperature equalisation.
5. Adjust the marking or the red pointer if necessary.  
Testing time: 10 minutes.
6. The gas pressure must not decrease during the testing time. If the pressure decreases, the entire LPG system must be checked for leaks.

### Check for leaks

If the procedure described above is followed, most accidents involving LPG can be prevented. Accept responsibility for yourself and all other users of the leisure vehicle.



### Systematic benefits for the world of retail

#### Design and quality

Designs and shapes that are colourful, different and sometimes very individual are attractive – but in the world of retail, the opposite holds the cards. “Corporate Design” and “Visual Merchandising” are keywords which repeatedly enthuse the world of the media when it comes to successful brand philosophies and sales presentations. Trend studies also demonstrate that: Buying behaviour is shifting away from “cheap is king!” to brand quality. GOK manufactures high-quality, precision products exclusively in Germany. We are proud to do this because it distinguishes the brand and the shop packaging supports the aspirations for both quality and design. Why?

- Direct perception of the “GOK” brand by the end consumer at the point of sale (POS)
- Compliance with the GOK corporate design
- Uniform design with all sizes, shapes and individual solutions
- Presentation of the quality brand and the clear notice provided of “Made in Germany”
- The user can ascertain and/or visually check the value of the products
- Sales and presentation optimisation – also with small products

#### Protection and safety

Time is money, which is why these days, products are being transported more and more quickly – frequently at the expense of care. The GOK shop packaging system protects products from damage all the way from the factory to the retail shelf in the best possible way, and reduces the risk of theft at the POS. At the same time the shop packaging makes the sale more legally secure – with these being the keywords: Product safety laws as well as assembly and operating manual.

- All the sensitive parts of the product are protected
- Safety tag as patented sealing system provides protection against loss, damage and theft
- Dimensionally stable packaging from high-quality plastic
- Identification of the products according to the product safety laws (frequently lost when repackaging the products)
- The assembly and operating manual is integrated in the shop packaging – so it can't be lost

#### Process optimisation

It's an age-old saying in the world of retail – half of the profit is in the purchase itself. But it isn't just the price of the product that is the deciding factor. The process along the supply chain should also be cost-efficient. With the GOK packaging system, this requirement is satisfied.

- Optimised receipt of goods due to individual labelling with a GTIN code
- Storage capacity and places of storage can be planned more easily due to defined sizes, weights and packaging units
- Huge potential savings with materials and working hours because the product doesn't need to be repackaged
- Rapid equipping of the POS system
- Products stay up-to-date thanks to optimised inventory turnover

#### Design and quality

- Small components in visually appealing packaging



#### Protection and safety

- Shop packaging with integrated assembly and operating manual.
- Patented sealing system – the so-called "safety tag"



#### Shop packaging with Euro slots

You can also order all the items of the picture price list marked with this symbol in shop packaging.

# GOK



## Caramatic SafeDrive

Safety on every road

**Caramatic SafeDrive** is GOK's newly developed gas pressure regulation system enabling motorhomes, caravans or campervans to use the LPG system while driving. Pressure regulators with integrated crash sensors are now screwed directly on to the gas cylinder, which offers some advantages.

- ✓ **Straightforward retrofitting and installation**
- ✓ **Always leave the gas cylinder open**
- ✓ **Protection of the entire pipe system from gas cylinder onwards**
- ✓ **No gas filter or excess flow device required**
- ✓ **Low space requirement in the gas cylinder case**

... more information on pages 2 to 6.



Only the **BEST QUALITY**  
for your **COMPLETE SAFETY**

Made in **GERMANY**

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