

# GOK

Components \* Solutions \* Systems



LPG

*Caravan*  
SAFETY and QUALITY

for LPG systems in  
leisure vehicles

Made in GERMANY



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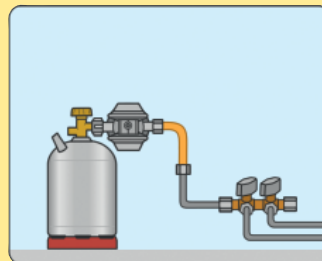
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## CARAVAN AND MOTOR CARAVAN

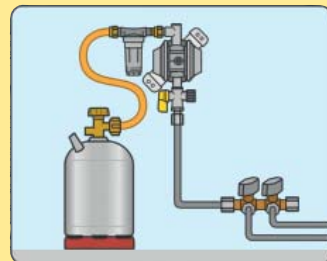
### Choice of pressure regulators

#### Cylinder connection



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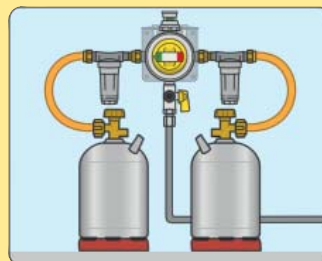
#### Wall assembly



... from page 6

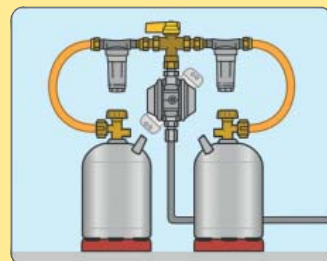
### Two-cylinder system

#### automatic changeover



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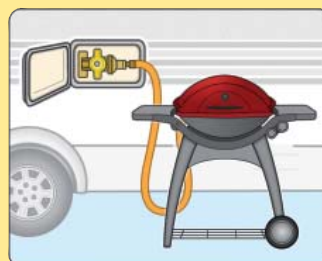
#### manual changeover



... from page 16

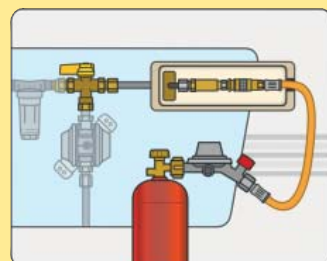
### External connection

#### LPG withdrawal



... from page 20

#### LPG feed



... from page 24



# ONS FOR LPG IN LEISURE VEHICLES



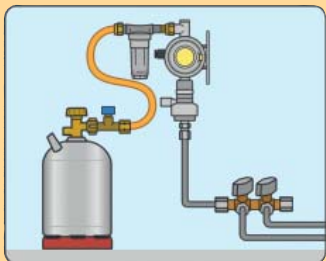
MOTOR CARAVANS



OPERATION AND TESTING

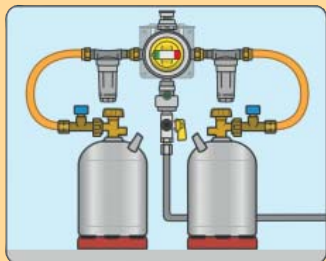
Heating while driving  
(caravans and motor caravans)

Single-cylinder system



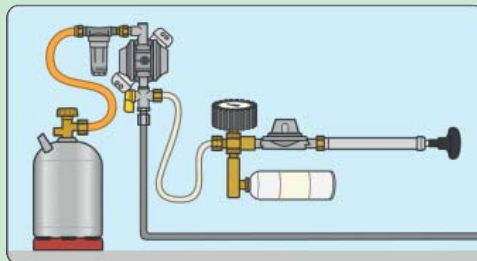
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Two-cylinder system



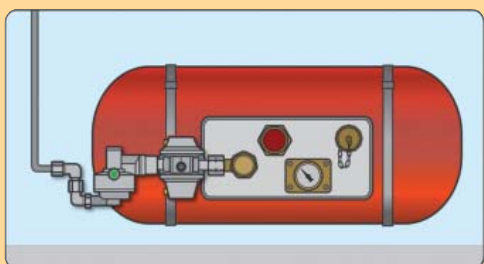
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Leak test by qualified persons



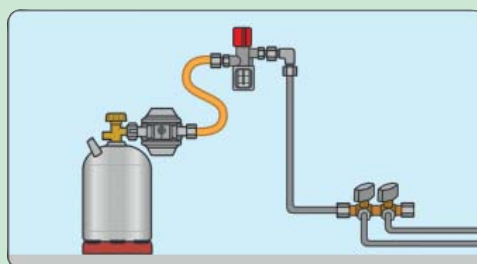
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LPG tank - heating while driving



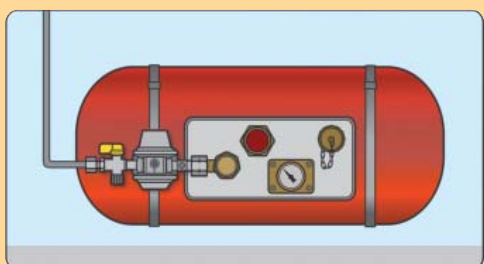
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Leak test by the operator



... from page 62

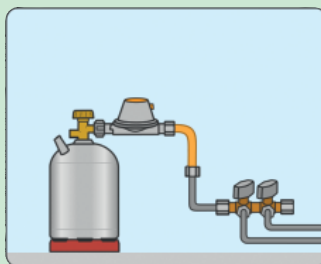
LPG tank - stationary operation



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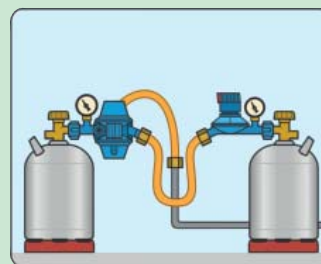
Care and maintenance

Installation 50 mbar



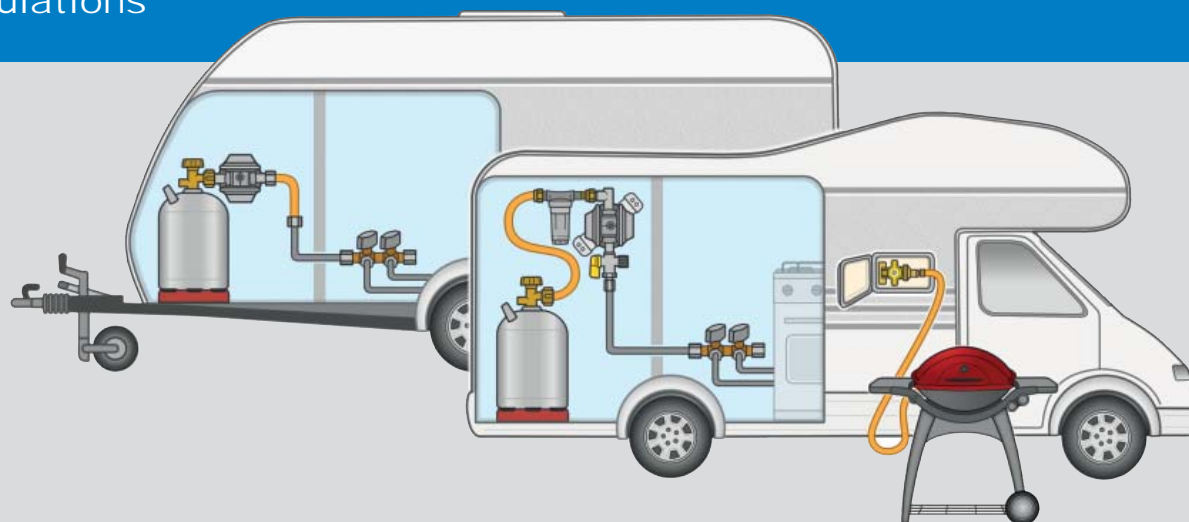
... from page 64

Two-cylinder system



... from page 68





### EN 1949 – the standard for installation

This standard describes the requirements for LPG installations in caravans and motor 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 onto the cylinder valve or it is 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 to check for leaks 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 that can be used to switch between the internal gas cylinder and the external LPG feed.
8. The requirements for the installation of LPG cylinders that are attached firmly to the vehicle were included.

### Heating while driving

For the operation of gas equipment while driving, directive 2006/119/EC requires special safety devices that prevent non-combusted LPG from leaking in the event 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 have an integrated safety device to prevent inadmissible pressure increases to protect the consumption device:
  - pressure relief valve (PRV), response pressure max. 150 mbar or
  - over-pressure safety device S2SR (OSD), protection pressure max. 150 mbar



### 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.

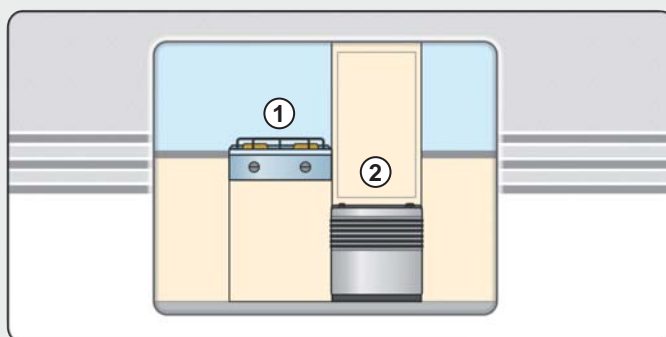


### INSTALLATION EXAMPLES

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

##### Installation example:

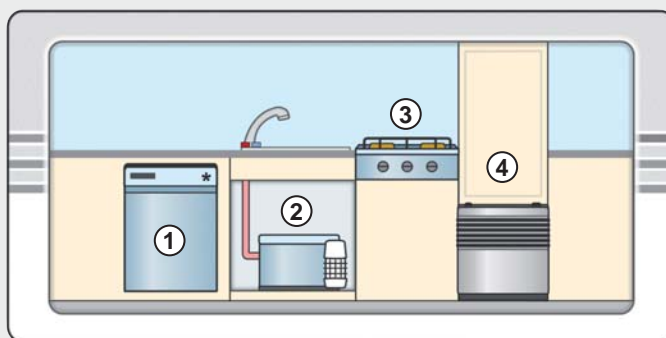
- ① Stove 2 flame = approx. 194 g/h
- ② Caravan heating = approx. 480 g/h
- Total consumption** = approx. 674 g/h



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

##### Installation example:

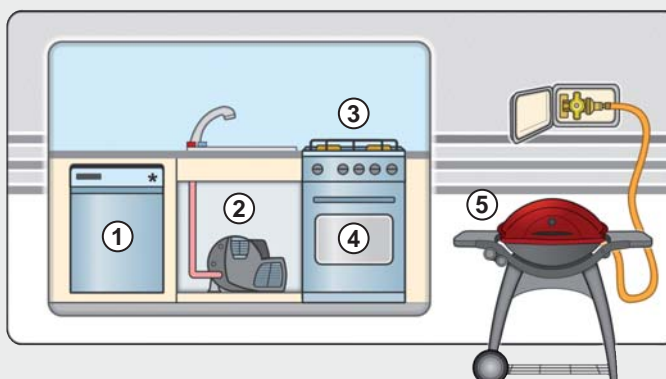
- ① Cooling device = approx. 80 g/h
- ② Boiler = approx. 120 g/h
- ③ Stove 3 flame = approx. 200 g/h
- ④ Caravan heating = approx. 480 g/h
- Total consumption** = approx. 880 g/h



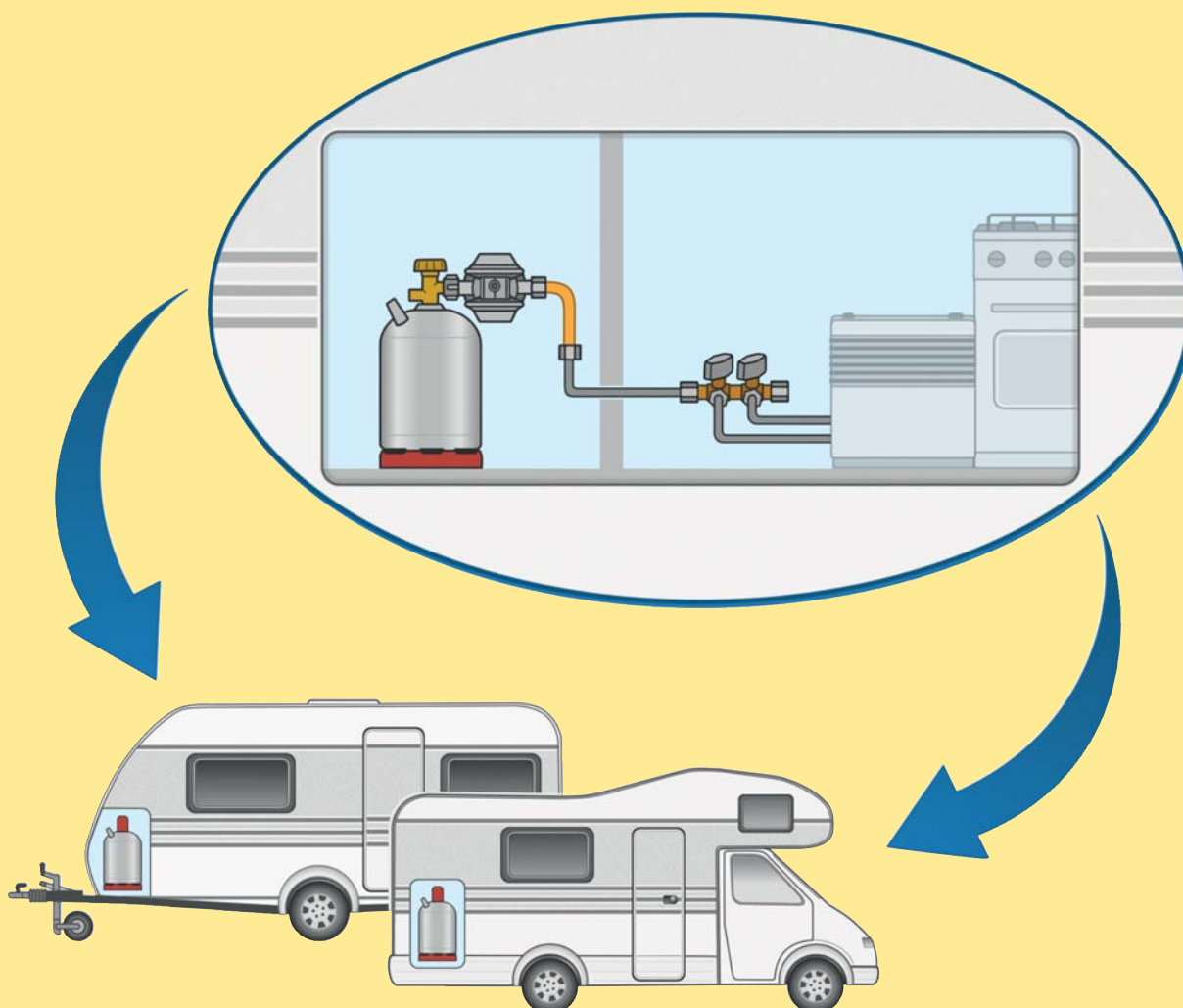
#### Capacity stage 3 – nominal flow rate 1.5 kg/h

##### Installation example:

- ① Cooling device = approx. 80 g/h
- ② Heater and water heating device = 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
- Total consumption** = approx. 1440 g/h







### Classic connection to gas cylinders

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

The Caramatic BasicOne low pressure regulator is installed directly onto 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 over-pressure

#### Advantages and equipment

- version with pressure gauge to check for leaks 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 approval according to PED (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 79 (German statutory accident insurance, previously BGV D 34) and is suitable for use in commercially used caravans and motor caravans!

### Caramatic BasicOne

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

##### straight outlet

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	61 280 27	
KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		61 280 00	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h	with pressure gauge	61 281 00	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h		61 281 05	

##### 90° outlet

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

##### with extended inlet connector

##### 90° outlet

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

##### U-shape

KLF	x	G 1/4 lh M	30 mbar	0.8 kg/h		61 280 05	
Shell-F	x	G 1/4 lh M	30 mbar	0.8 kg/h		61 280 28	

#### capacity stage 2, type EN71 with pressure relief valve PRV

##### straight outlet

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

#### capacity stage 3,

#### type EN61-DS with over-pressure safety device S2SR

##### straight outlet

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

##### 90° outlet

KLF	x	G 1/4 lh M	30 mbar	1.5 kg/h		61 290 11	
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Medium pressure hose assembly rubber  
to connect fittings, consumer equipment and piping

### Conformity

- DVGW approved

### 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


G 1/4 lh nut x compr. fit. 8 x 750 mm


G 1/4 lh nut x compr. fit 10 x 400 mm

G 1/4 lh nut x compr. fit 10 x 750 mm

64 402 00 

64 405 01 

64 409 00 

64 409 02 



-30 °C



Medium pressure hose assembly plastic

to connect fittings, consumer equipment and piping

### Conformity

- DVGW approved

### 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


G 1/4 lh nut x compr. fit. 8 x 450 mm


G 1/4 lh nut x compr. fit. 8 x 750 mm

G 1/4 lh nut x compr. fit 10 x 400 mm

64 402 02 

64 401 05 

64 405 07 

64 409 09 







### 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!

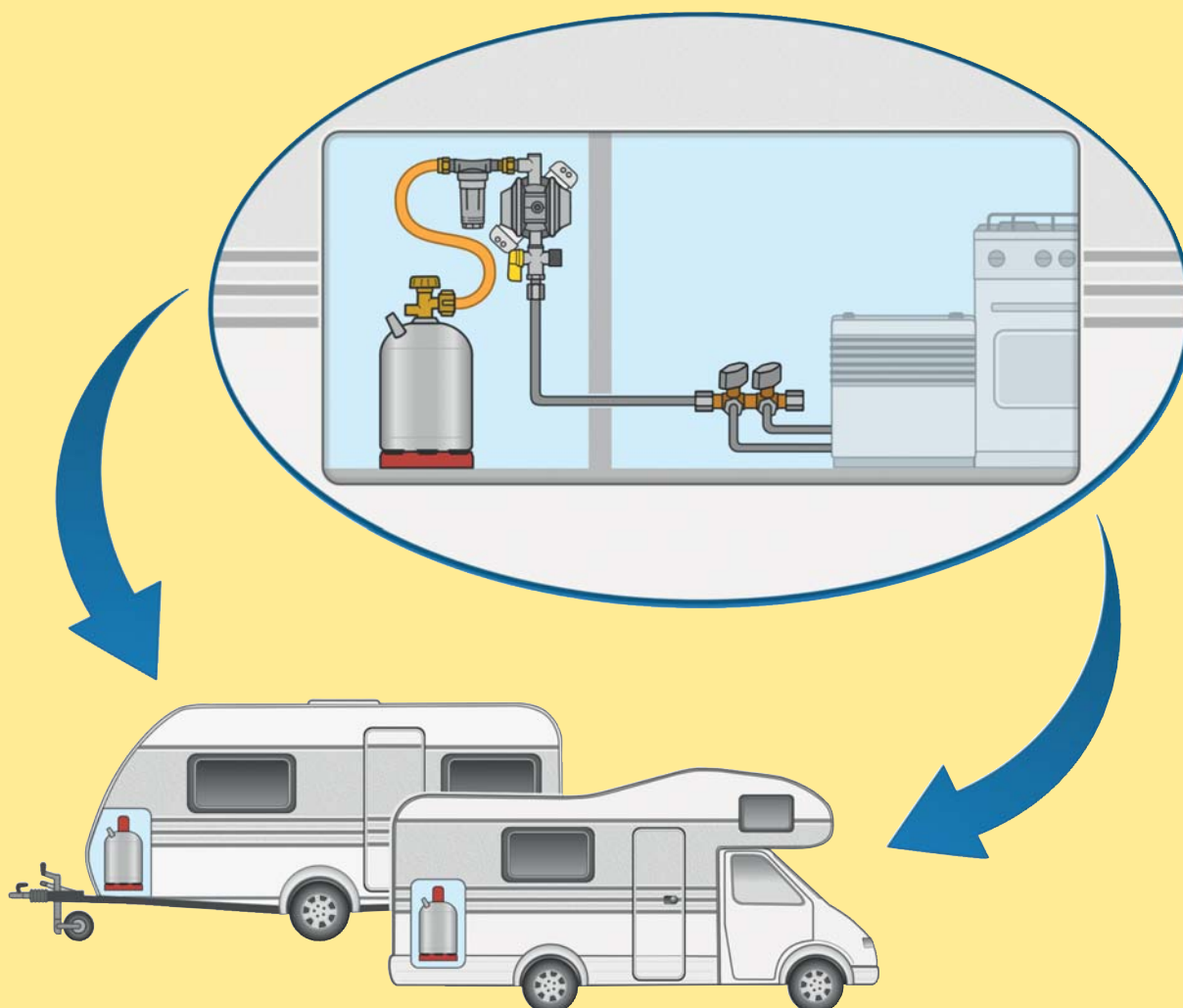
### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

**60 300 92** 







### Travel made easy

One Europe – many cylinder connections. Nevertheless, to make travelling simpler, we recommend a Caramatic BasicOne low pressure regulator with wall bracket.

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





### Caramatic BasicOne

for connection to gas cylinders with a high pressure hose assembly to regulate the pressure to the nominal pressure of the gas equipment

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

#### Advantages and equipment

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

#### Conformity

- EC type approval according to PED (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 (part no. 71 781 01) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residues!
- Version type EN61-DS fulfils the requirements of DGUV Regulation 79 (German statutory accident insurance, previously BGV D 34) and is suitable for use in commercially used caravans and motor caravans!

#### Caramatic BasicOne without test point

capacity stage 2,

type EN71 with pressure relief valve PRV

straight inlet

without pressure gauge

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 over-pressure safety device S2SR

straight inlet

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>	

#### 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>	

#### Accessories

Caramatic TwoControl with regulator heating Eis-Ex

Gasket for M20 x 1.5 nut, material: FKM

<b>71 300 20</b>	
<b>04 590 25</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 approved
- version PS 20 bar: NF approved

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



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

#### Spare Part

Gasket for KLF, material: NBR / packaging unit: 5 units	<b>80 016 00</b>	
Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell-F, material: NBR	<b>80 009 00</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>	







### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean

Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 01

Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 02

#### Spare Part

Replacement cartridge

71 781 80

#### Accessories

Additional fixing bracket

71 781 81

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00



### 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

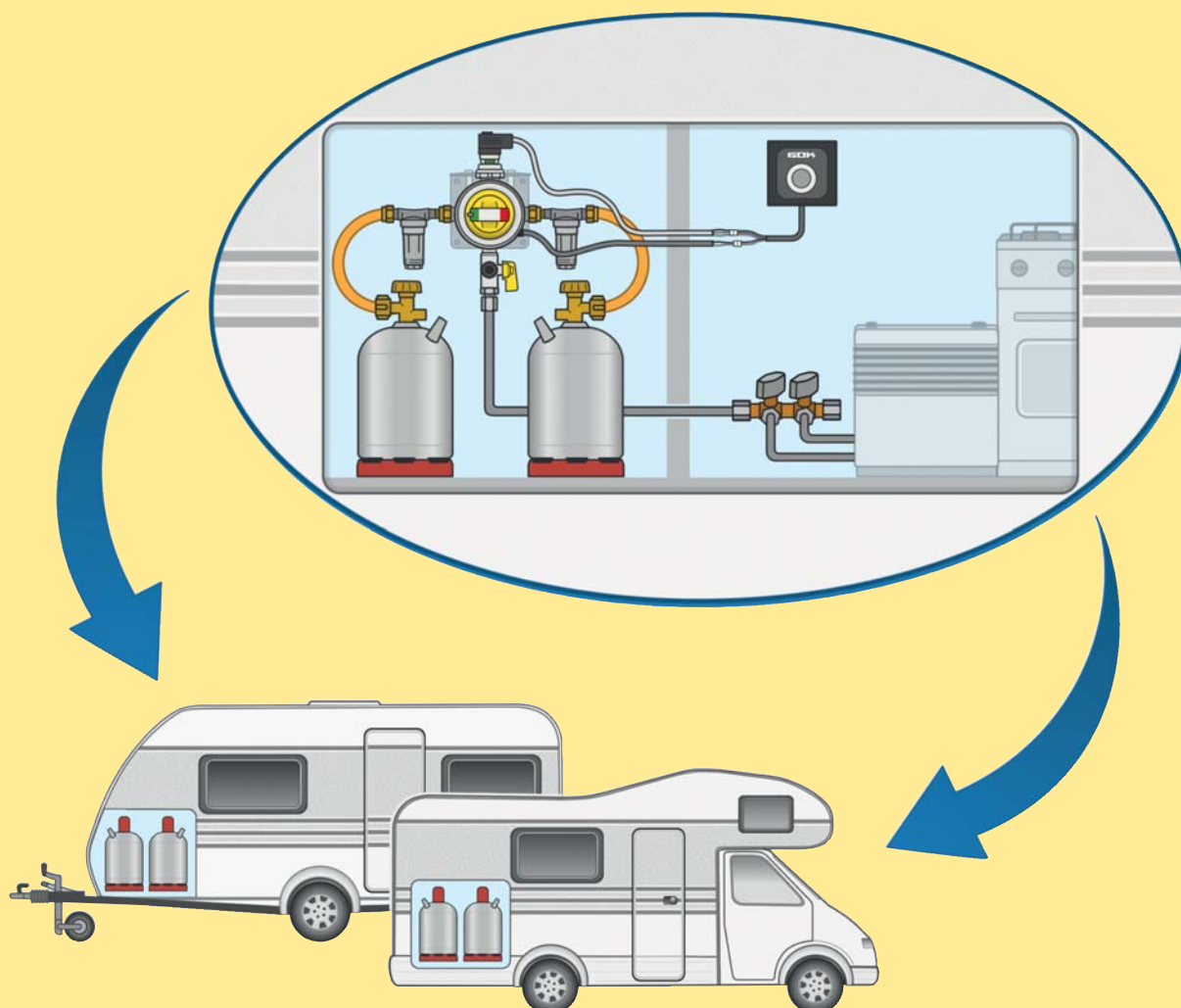
#### Accessories

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

62 618 03







### Very convenient gas supply

With an automatic Caramatic ProTwo changeover system with integrated low pressure regulator, the camper can achieve long operating times 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 Caramatic ConnectBasic high pressure hose assemblies, it is possible to use the Caramatic ProTwo changeover system across Europe without a problem.





### 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 to an Eis-Ex
- 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 approval according to GAR

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Can be used on end-of-life vehicles without restriction!
- The gas filter Caramatic ConnectClean (part no. 71 781 02 / packaging unit: 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. 8	50 mbar	1.5 kg/h	<b>71 925 13</b>	
2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 923 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 TwoControl with transmitter for remote display and Eis-Ex regulator heating	<b>71 300 00</b>	
Caramatic ConnectClean M20 x 1.5 M x M20 x 1.5 nut / packaging unit: 2 units	<b>71 781 02</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 pipe socket 8 x compr. fit. 10	<b>62 082 00</b>	
Fitting pipe socket 10 x compr. fit. 8	<b>67 223 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 to an Eis-Ex

#### Conformity

- EC type approval according to 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 (part no. 71 781 02 / packaging unit: 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 TwoControl with transmitter for remote display and Eis-Ex regulator heating      **71 300 00**

Caramatic ConnectClean M20 x 1.5 M x M20 x 1.5 nut / packaging unit: 2 units      **71 781 02**

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 Shell-F M      **71 508 04**

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

Adapter M20 x 1.5 M x Ital.A. M      **71 508 06**







### 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 approved
- version PS 20 bar: NF approved

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



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

#### Spare Part

Gasket for KLF, material: NBR / packaging unit: 5 units	<b>80 016 00</b>	
Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell-F, material: NBR	<b>80 009 00</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>	







### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge


#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean


#### Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 01 

#### Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 02 

#### Spare Part

Replacement cartridge


71 781 80 

#### Accessories

Additional fixing bracket

71 781 81 

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 




### 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 

**NEU**







### Caramatic TwoControl – Remote display and regulator heating

is the convenient information and control unit in a leisure vehicle for monitoring the operating and reserve cylinder in two-cylinder systems as well as the Eis-Ex regulator heating

consisting of: information and control unit including 6 m connection cable, cover frame, transmitter for remote display including 2 m connection cable and Eis-Ex regulator heating including 2 m 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 through various colours of LEDs
- 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 and 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

#### 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 Part

cover frame, colour: anthracite

71 391 00

#### Accessories

Information and control unit, 6 m connection cable

71 391 20

Transmitter for remote display, 2 m connection cable

71 390 00

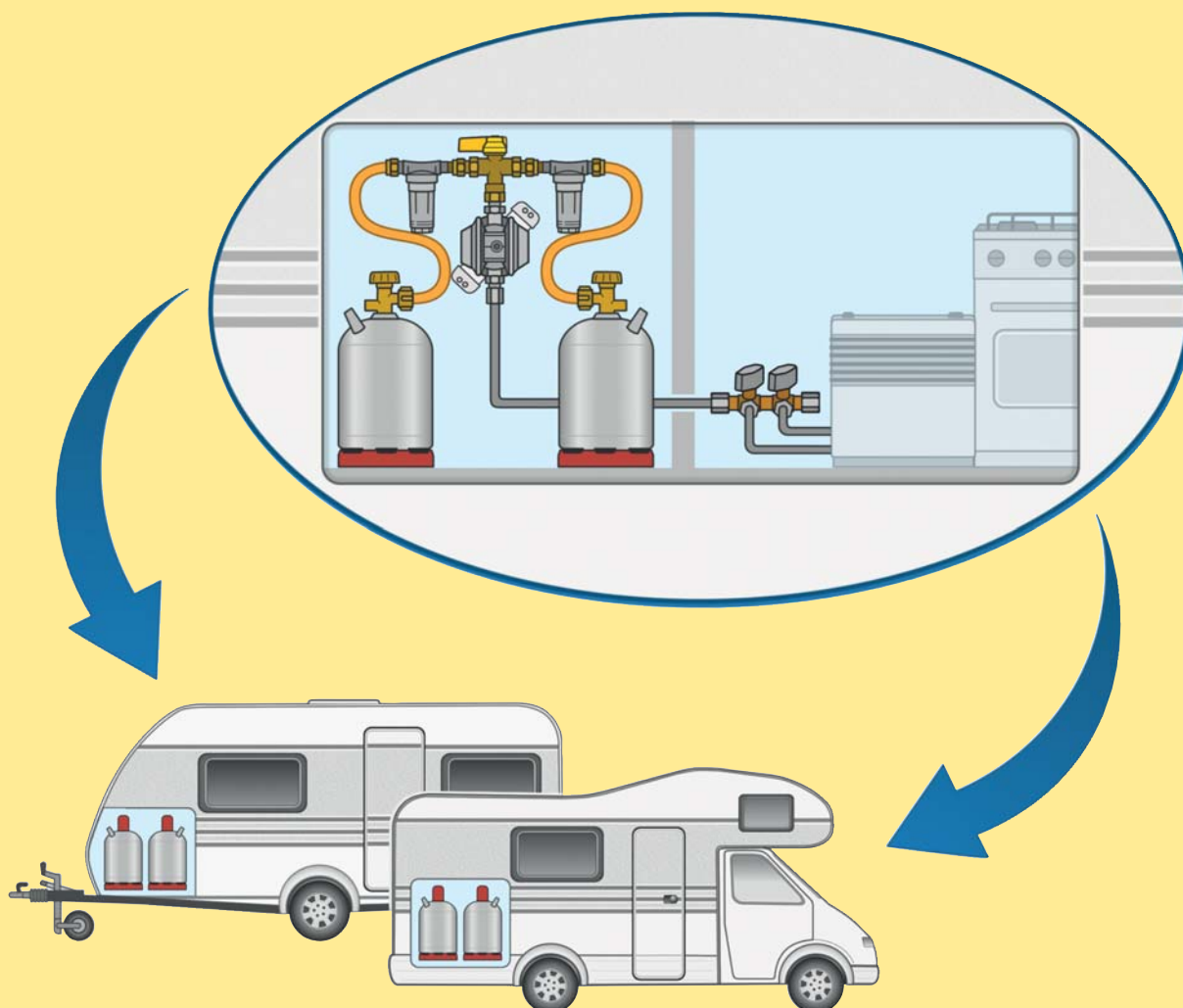
Eis-Ex regulator heating, 2 m connection cable

71 390 20

**NEU**







### The manual solution for two cylinders

The manual changeover system allows long operating times and for the gas cylinder to be replaced without interrupting the gas supply. When the operating cylinder becomes empty, the camper must change over manually to a full cylinder.

By using country-specific Caramatic ConnectBasic 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
- M20 x 1.5 version with installation set to mount the manual changeover valve type MUV for low pressure regulators type EN61-DS, EN71, FL90-4 and FL91-4

#### Conformity

- EC type approval according to GAD

#### 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 M

#### 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

02 714 28



### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean

Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 01



71 781 02



71 781 80



#### Spare Part

Replacement cartridge

#### Accessories

Additional fixing bracket

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 781 81



71 509 00







### Caramatic BasicOne

for connection to gas cylinders with a high pressure hose assembly to regulate the pressure to the nominal pressure of the gas equipment

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

#### Advantages and equipment

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

#### Conformity

- EC type approval according to PED (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 (part no. 71 781 01) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residues!
- Version type EN61-DS fulfils the requirements of DGUV Regulation 79 (German statutory accident insurance, previously BGV D 34) and is suitable for use in commercially used caravans and motor caravans!

#### Caramatic BasicOne without test point

capacity stage 2,

type EN71 with pressure relief valve PRV

straight inlet

without pressure gauge

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 over-pressure safety device S2SR

straight inlet

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>	

#### 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>	

#### Accessories

Caramatic TwoControl with regulator heating Eis-Ex

Gasket for M20 x 1.5 nut, material: FKM

<b>71 300 20</b>	
<b>04 590 25</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 approved
- version PS 20 bar: NF approved

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

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



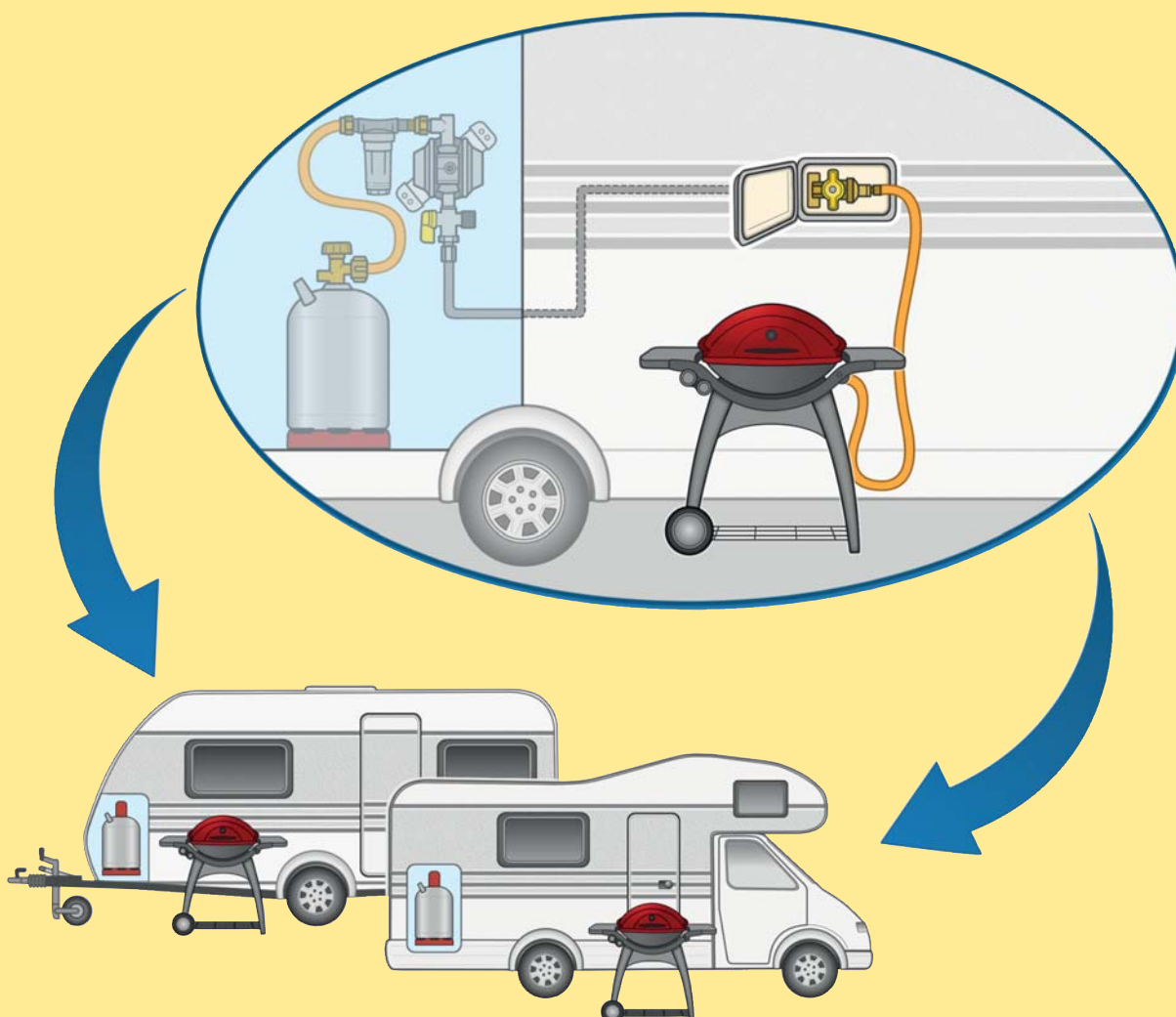
#### Spare Part

Gasket for KLF, material: NBR / packaging unit: 5 units	<b>80 016 00</b>	
Gasket for Komb.A / Komb.Shell-H, material: plastic	<b>20 009 75</b>	
Gasket for EU-Shell / Shell-F, material: NBR	<b>80 009 00</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>	



-30 °C





### Gas supply also outside the vehicle

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

The connection to the gas equipment is made simply and securely with a medium pressure hose assembly and a quick coupler on the vehicle.

You no longer need to bring additional gas cylinders.





### Variant outlet box

to connect additional gas equipment, such as stoves, barbecues, lights, etc., depending on the version.  
For outdoor use or to connect an external shower or the vehicle to a water supply.

The valve can be opened only when the hose assembly is connected. Quick couplers for gas and water in distinctive 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 and flip switch (on and off switch) for submerged pump operation (6.3 mm plug-in connection)

materials: suitable for drinking water

- brass gas safety coupling and water connection

##### Outside connection for LPG and water

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

**64 224 00**

Hose nozzle compr. fit. 8 x 6 mm

**74 468 00**







Medium pressure hose assembly rubber  
to connect fittings, consumer equipment and piping

### Conformity

- DVGW approved

### 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	2500 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>64 226 00</b>	
<b>64 227 01</b>	
<b>64 227 00</b>	



-30 °C







### Coupling valve type SKU SSV-K

ball valve as shut-off valve with safety coupling

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
- only completely open or closed setting
- 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

- DVGW approved

#### 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

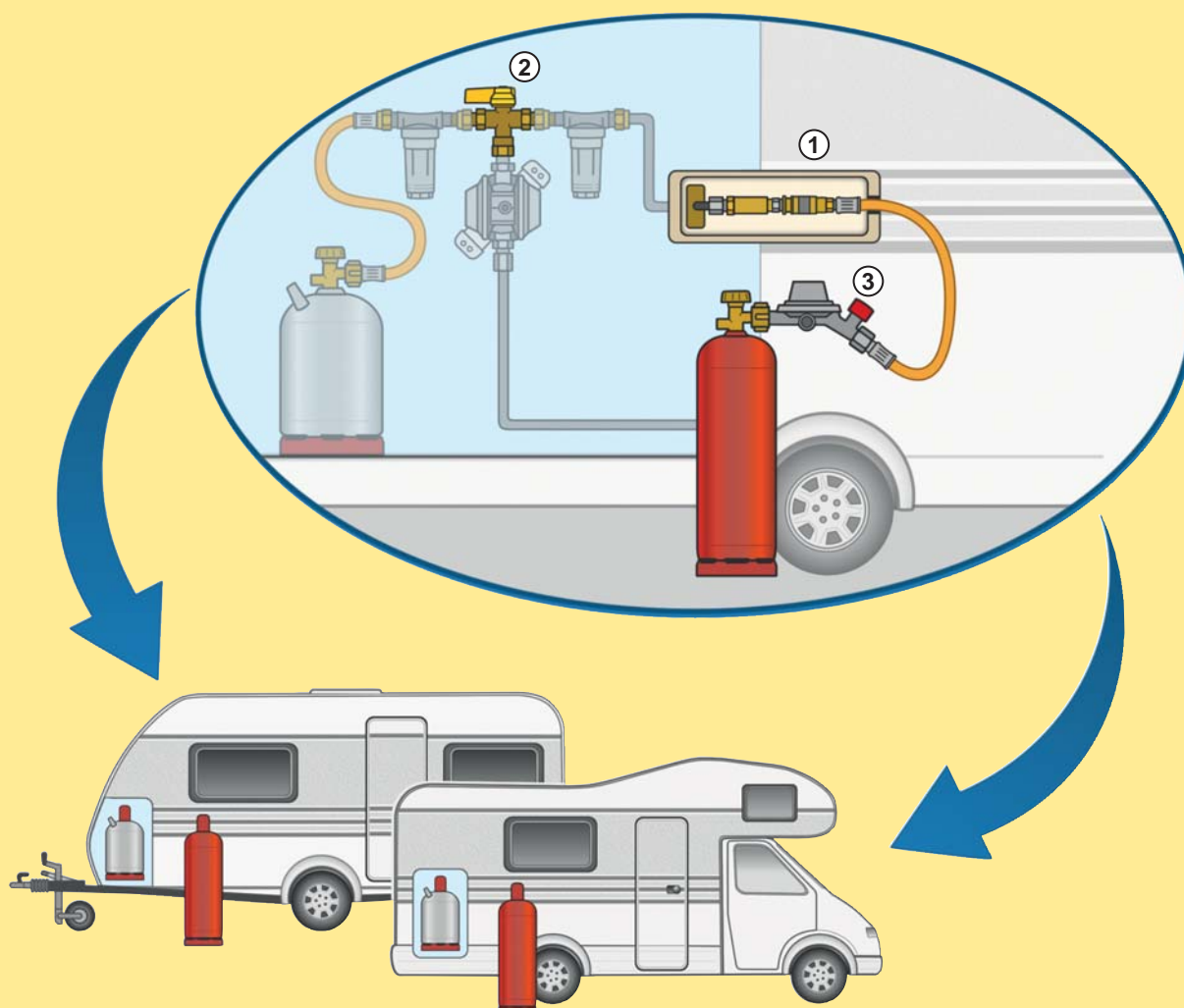
81 315 02 

81 315 04 

**NEU**







For permanent campers – the external LPG feed for vehicles

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

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

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





### External LPG feed for leisure vehicles

to connect an external gas supply (gas cylinder) for caravans and motor caravans with single-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 Kombi.W x G 3/8 lh M, 0.5 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!

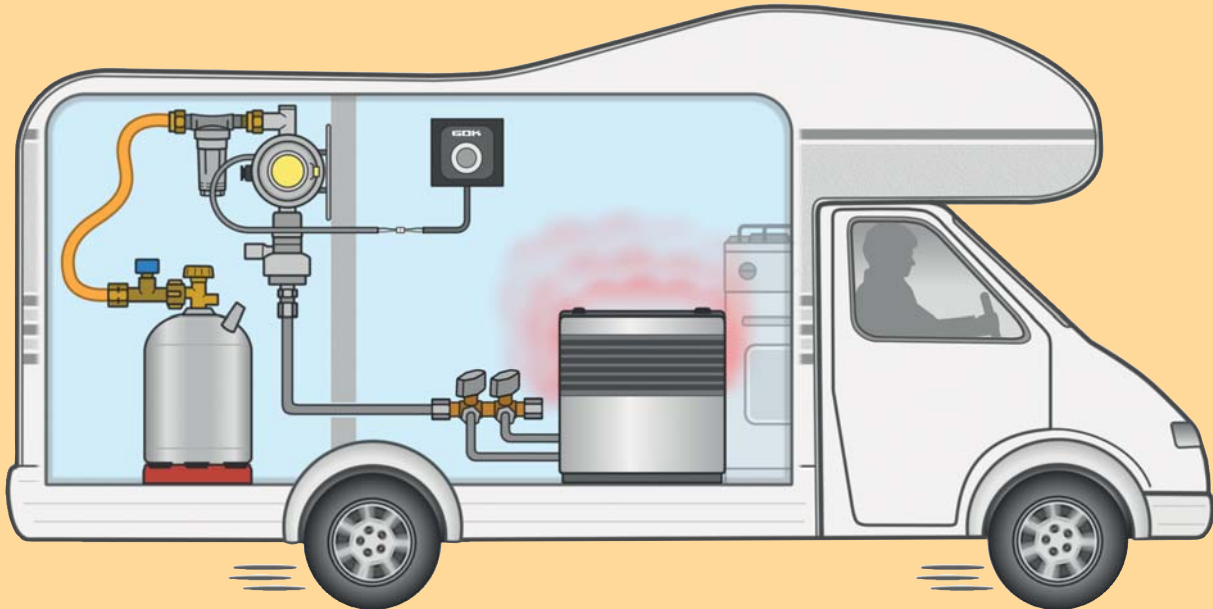
#### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

**60 300 92**







### Safe heating while driving

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

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

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 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 DriveOne

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

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

#### Advantages and equipment

- heating while driving using the integrated mechanical crash sensor new with pendulum, which blocks the gas flow in case of an accident with deceleration of  $3.5 \text{ g} \pm 0.5 \text{ g}$ , directly affecting the trigger element; with an average vehicle weight this corresponds to crashing into a solid obstacle at about 15 to 20 km/h
- Advantages new 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 a de-icer
- 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 approval according to PED

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Fulfils the requirements of DGUV (German statutory accident insurance, previously BGV D 34) Regulation 79 and is suitable for use in commercially used caravans and motor caravans!
- The gas filter Caramatic ConnectClean (part no. 71 781 01) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residues!

### Caramatic DriveOne

#### horizontal installation

##### straight inlet

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

##### vertical installation

##### 90° inlet

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

#### Accessories

Caramatic ConnectClean M20 x 1.5 M x M20 x 1.5 nut / packaging unit: 1 unit	<b>71 781 01</b>	
90° elbow M20 x 1.5 M x M20 x 1.5 nut	<b>71 509 00</b>	
Caramatic TwoControl with regulator heating Eis-Ex	<b>71 300 20</b>	







### Caramatic ConnectDrive

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



-30 °C

#### Advantages and equipment

- heating while driving
- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections
- excess flow valve 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 EFV:**  
no delay or leakage volume, but manual opening required

#### Conformity

- individual parts: DIN-DVGW or DVGW approved
- version PS 20 bar: NF approved

#### 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>	
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

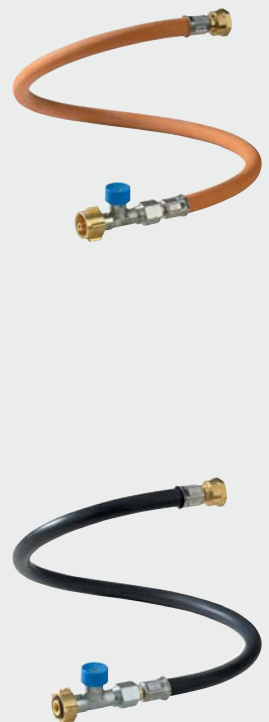
**hose dimensions 6.6 x 4.0 mm**

**connections: cylinder connection x regulator connection**

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

#### Spare Part

Gasket for KLF, material: NBR / packaging unit: 5 units	<b>80 016 00</b>	
gasket for EU-Shell / Shell-F, material: NBR / packaging unit: 5 units	<b>80 009 00</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>	







### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge

#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean

Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 01

Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 02

#### Spare Part

Replacement cartridge

71 781 80

#### Accessories

Additional fixing bracket

71 781 81

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00



### 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

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

#### Advantages and equipment

- central control unit to switch on/off the Eis-Ex regulator heating
- remote indication of the operating status through various colours of LEDs
- 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
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- conformity assessment procedure according to ATEX
- CE marking according to EMC

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Regulator heating

information and control unit with Eis-Ex regulator heating

**71 300 20** 

#### Spare Part

cover frame, colour: anthracite

**71 391 00**

#### Accessories

Information and control unit, 6 m connection cable

**71 391 20**

Eis-Ex regulator heating, 2 m connection cable

**71 390 20**

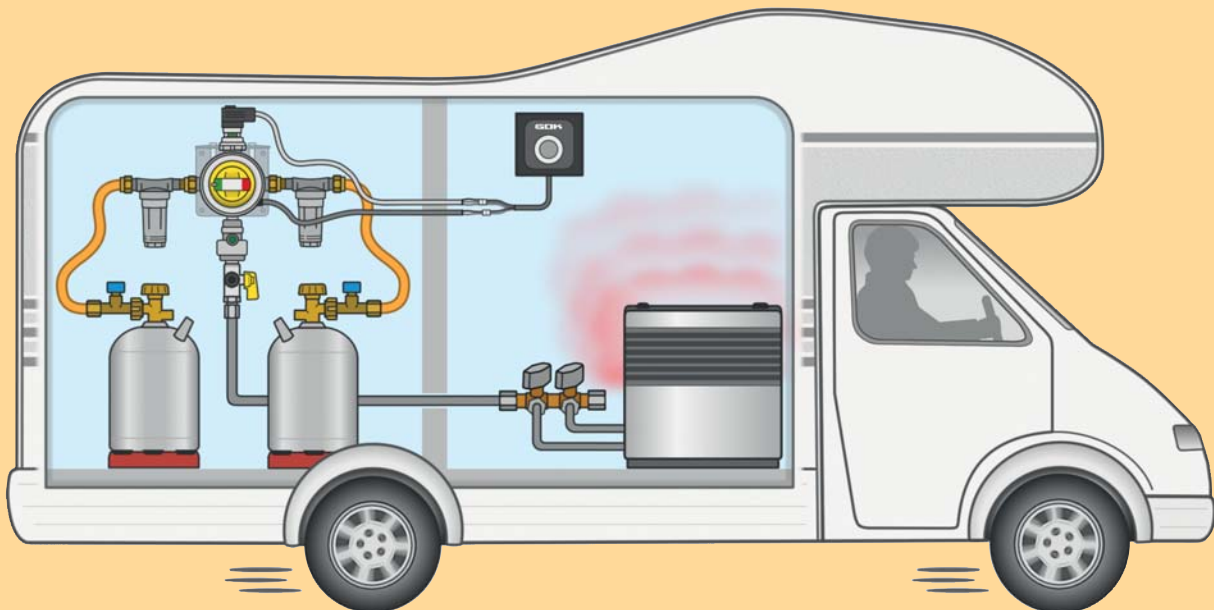
**NEU**











### Comfort and safety for heating while driving

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

The combination of an automatic changeover system with a mechanical crash sensor and excess flow valves unites comfort with maximum safety.

The system is monitored particularly conveniently with the Caramatic TwoControl. With this information and control unit, the camper always has an eye on which gas cylinder gas is currently being taken from and can operate the Eis-Ex regulator heating remotely.

The connection to the gas cylinder is made with the suitable country-specific excess flow valves and the Caramatic ConnectDrive high pressure hose assemblies without the Caramatic DriveTwo automatic changeover system having to be replaced.

Between the hose assemblies and the Caramatic DriveTwo are gas filters, which protect the connected fittings and devices from soiling.





### Caramatic DriveTwo

safety gas pressure regulation device with automatic changeover valve for the operation of two-cylinder systems in caravans and motor 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 new with pendulum, control knob, operation and reserve display, non-return gas valve, test device and wall bracket

#### Advantages and equipment

- heating while driving using the integrated mechanical crash sensor new with pendulum, which blocks the gas flow in case of an accident with deceleration of  $3.5 \text{ g} \pm 0.5 \text{ g}$ , directly affecting the trigger element; with an average vehicle weight this corresponds to crashing into a solid obstacle at about 15 to 20 km/h
- Advantages new 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 a de-icer
- suitable for connection of a remote display
- 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 approval according to PED

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- The gas filter Caramatic ConnectClean (part no. 71 781 02 / packaging unit: 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. 8	50 mbar	1.5 kg/h	<b>71 825 21</b>	
2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 823 23</b>	

#### vertical installation

2 x M20 x 1.5 M	x	compr. fit. 8	50 mbar	1.5 kg/h	<b>71 825 11</b>	
2 x M20 x 1.5 M	x	compr. fit. 10 / 8	30 mbar	1.5 kg/h	<b>71 823 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 M20 x 1.5 M x M20 x 1.5 nut / packaging unit: 2 units	<b>71 781 02</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 pipe socket 8 x compr. fit. 10	<b>62 082 00</b>	
Fitting 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 valve for connection to all wall-mounted low pressure regulators with inlet M20 x 1.5 M, in particular for heating while driving and to the gas cylinder valve



#### Advantages and equipment

- heating while driving
- can be used all over Europe through the use of high pressure hose assemblies with country-specific connections
- excess flow valve 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 EFV:**  
no delay or leakage volume, but manual opening required

#### Conformity

- individual parts: DIN-DVGW or DVGW approved
- version PS 20 bar: NF approved

#### 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>	
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

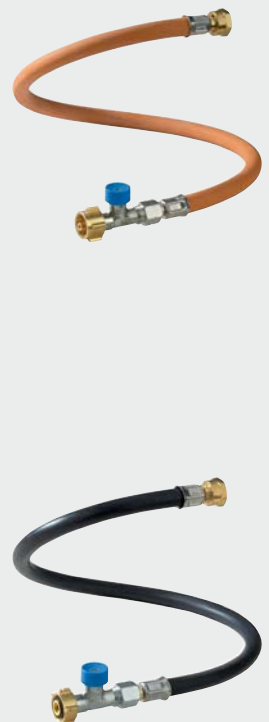
**hose dimensions 6.6 x 4.0 mm**

**connections: cylinder connection x regulator connection**

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

#### Spare Part

Gasket for KLF, material: NBR / packaging unit: 5 units	<b>80 016 00</b>	
gasket for EU-Shell / Shell-F, material: NBR / packaging unit: 5 units	<b>80 009 00</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>	







### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge


#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean


Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 01 

Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 02 

#### Spare Part

Replacement cartridge


71 781 80 

#### Accessories

Additional fixing bracket

71 781 81 

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 



### 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

is the convenient information and control unit in a leisure vehicle for monitoring the operating and reserve cylinder in two-cylinder systems as well as the Eis-Ex regulator heating

consisting of: information and control unit including 6 m connection cable, cover frame, transmitter for remote display including 2 m connection cable and Eis-Ex regulator heating including 2 m 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 through various colours of LEDs
- 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 and 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

#### 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 Part

cover frame, colour: anthracite

71 391 00

#### Accessories

Information and control unit, 6 m connection cable

71 391 20

Transmitter for remote display, 2 m connection cable

71 390 00

Eis-Ex regulator heating, 2 m connection cable

71 390 20

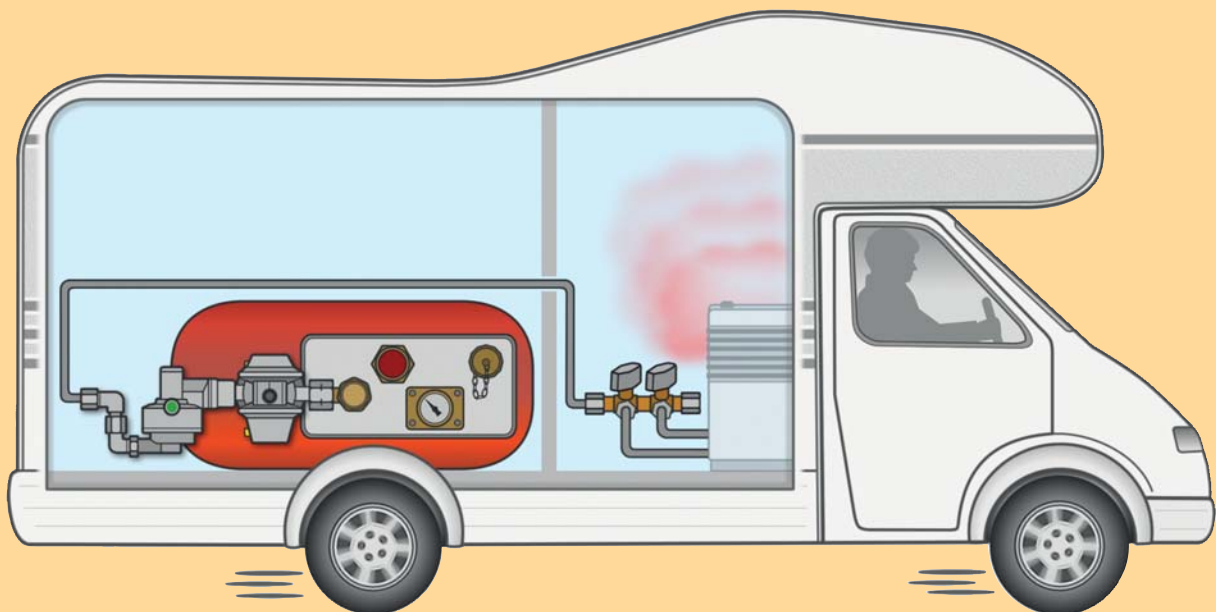
**NEU**











### Safe heating while driving - with an LPG tank

If the on-board gas heating is also to be used to heat the vehicle while driving, special safety devices must be installed to prevent gas leakage in the event of an accident. This also applies to vehicles which are fitted with an LPG tank.

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





### Caramatic DriveOne

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

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

#### Advantages and equipment

- heating while driving using the integrated mechanical crash sensor new with pendulum, which blocks the gas flow in case of an accident with deceleration of  $3.5 \text{ g} \pm 0.5 \text{ g}$ , directly affecting the trigger element; with an average vehicle weight this corresponds to crashing into a solid obstacle at about 15 to 20 km/h
- Advantages new 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 a de-icer
- 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 approval according to PED

#### Technical data

- maximum admissible pressure: PS 16 bar

#### Note

- Fulfills the requirements of DGUV (German statutory accident insurance, previously BGV D 34) regulation 79 and is suitable for use in commercially used caravans and motor caravans!
- The gas filter Caramatic ConnectClean (part no. 71 781 01) is recommended to protect the LPG system in the vehicle from oily aerosols and evaporation residues!

### Caramatic DriveOne

#### 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**

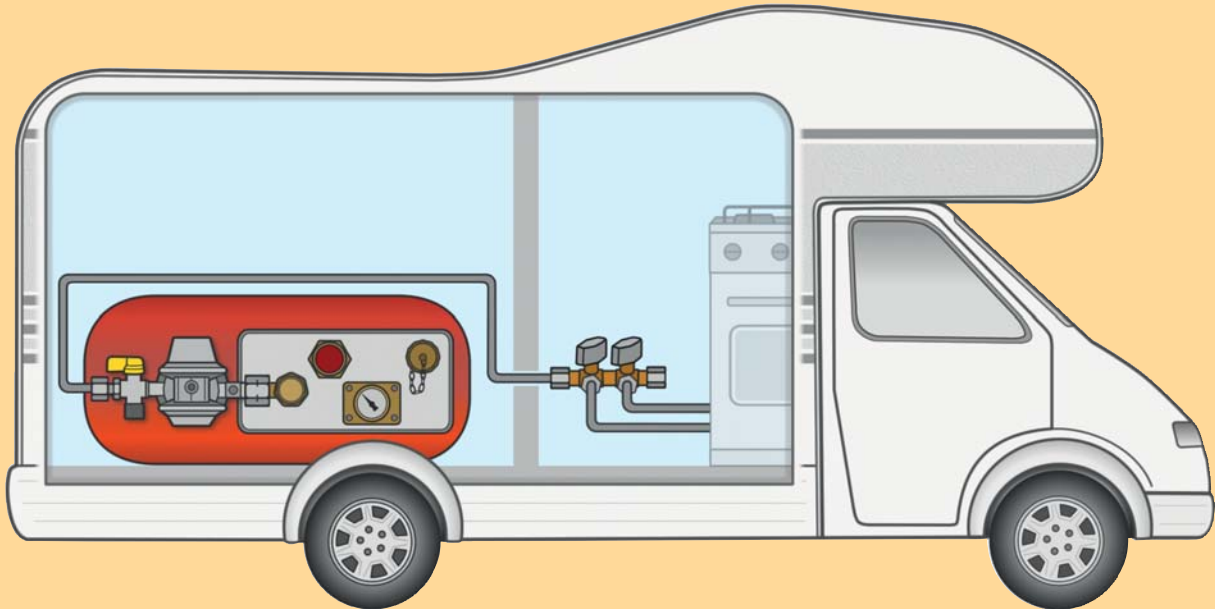
#### Accessories

Caramatic TwoControl with regulator heating Eis-Ex

**71 300 20**







### The classic connection for the LPG tank

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

- over-pressure safety device S2SR (OSD) to protect consumer equipment against inadmissible high pressures
- test point for leak testing the LPG system without disassembling the pressure regulating device

#### Conformity

- EC type approval according to PED

#### Technical data


- maximum admissible pressure: 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
Compr. fit. 8	x	compr. fit. 8	30 mbar	1.5 kg/h

**61 293 06** 

**61 293 05** 

#### Accessories


Fitting 1/2 UNF F x GF M

**62 528 00** 


Fitting GF F x compr. fit. 8

**62 531 00** 

Fitting 1/2 UNF F x pipe socket 8

**62 523 00** 

Fitting 1/2 UNF F x compr. fit. 8

**62 527 00** 



CE



### Accessories for LPG systems in caravans and motor caravans

With individual accessories comfort and safety as well as the reliability of your LPG installation are increased in excess of 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
- activation element: twist grip
- low pressure loss thanks to optimised function
- only completely open or closed setting
- mounting bracket for safe assembly

##### Conformity

- DIN DVGW approved

##### Technical data

- maximum admissible pressure: PS 5 bar
- material: housing: brass, bright  
gaskets: NBR  
twist grip: PA6 GB15

#### Quick-acting stop valve type DSV


with mounting bracket


with coupling nut type M and olive type D

Compr. fit. 8 x compr. fit. 8

with coupling nut type M and olive type D-MS

Compr. fit. 8 x compr. fit. 8

**63 711 00** 

**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
- activation element: twist grip
- low pressure loss thanks to optimised function

#### Conformity

- DIN DVGW approved

#### Technical data

- maximum admissible pressure: PS 5 bar
- material: housing: brass, bright  
gaskets: NBR  
twist grip: PA6 GB15

#### Distributor valve

##### type DSV-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 DSV-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 DSV-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

#### Accessories


set of symbols / packaging unit: 5 units

63 750 00 

63 760 00 

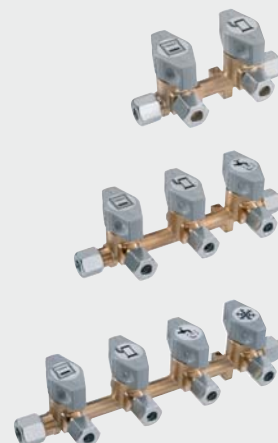
63 751 00 

63 761 00 

63 752 00 

63 762 00 

63 750 01 







### Caramatic TwoControl – Remote display and regulator heating

is the convenient information and control unit in a leisure vehicle for monitoring the operating and reserve cylinder in two-cylinder systems as well as the Eis-Ex regulator heating consisting of: information and control unit including 6 m connection cable, cover frame, transmitter for remote display including 2 m connection cable and Eis-Ex regulator heating including 2 m 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 through various colours of LEDs
- 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 and 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

#### 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 Part

cover frame, colour: anthracite

71 391 00

#### Accessories

Information and control unit, 6 m connection cable

71 391 20

Transmitter for remote display, 2 m connection cable

71 390 00

Eis-Ex regulator heating, 2 m connection cable

71 390 20

NEU



### Caramatic TwoControl – Regulator heating

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

#### Advantages and equipment

- central control unit to switch on/off the Eis-Ex regulator heating
- remote indication of the operating status through various colours of LEDs
- 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
- connection of all components by using a plug system, no soldering necessary

#### Conformity

- conformity assessment procedure according to ATEX
- CE marking according to EMC

#### Technical data

- supply voltage: 12 V

### Caramatic TwoControl – Regulator heating

information and control unit with Eis-Ex regulator heating

71 300 20

#### Spare Part

cover frame, colour: anthracite

71 391 00

#### Accessories

Information and control unit, 6 m connection cable

71 391 20

Eis-Ex regulator heating, 2 m connection cable

71 390 20

NEU







### Caramatic ConnectClean

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

- for all wall-mounted pressure regulators and automatic changeover valves
- high degree of separation of 99%
- easy to change the filter cartridge


#### Technical data

- maximum admissible pressure: PS 25 bar

### Caramatic ConnectClean


Packaging unit: 1 unit

M20 x 1.5 M x M20 x 1.5 nut

71 781 01 

Packaging unit: 2 units

M20 x 1.5 M x M20 x 1.5 nut

71 781 02 

#### Spare Part

Replacement cartridge


71 781 80 

#### Accessories

Additional fixing bracket

71 781 81 

90° elbow M20 x 1.5 M x M20 x 1.5 nut

71 509 00 



### 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 







### 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 Cyprus, Denmark, Finland, France, Ireland,  
Norway, Portugal, Spain, Sweden, UK  
Clip-on (G.56) x KLF M

**20 036 35**



**Clip-on adapter, 21 mm version**  
for Denmark, Ireland, UK  
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 xKLF F

**69 738 07**



**Filling adapter D2: Austria, Greece, Italy, Slovenia**

Ital.A M xKLF F

**69 738 08**



**Filling adapter D3: Finland, Iceland, Norway, Portugal, Sweden, UK**

Primus F xKLF F

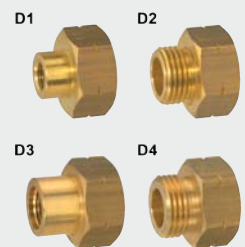
**69 738 09**



**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**







### 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 with foam insert (H/W/D: 140 x 153 x 49 mm)
- adapter 1: Italy, Switzerland (KLF M x M10 x 1 M)
- adapter 2: Austria, Greece, Italy, Slovenia (KLF M x Ital.A F)
- adapter 3: Finland, Iceland, Norway, Portugal, Sweden, UK (KLF M x Primus M)
- adapter 4: Belgium, Croatia, Czech Republic, France, Ireland, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Serbia, Slovakia, Slovenia, Spain, Switzerland, UK (KLF M x W21.8 x 1/14 lh F)

#### Technical data

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

**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

consisting of adapters 1 to 4

**69 735 00**

#### Individual nozzle

##### Adapter 1: Italy, Switzerland

KLF M x M10 x 1 M

**69 735 21**

##### Adapter 2: Austria, Greece, Italy, Slovenia

KLF M x Ital.A F

**69 735 22**

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

KLF M x Primus M

**69 735 23**

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

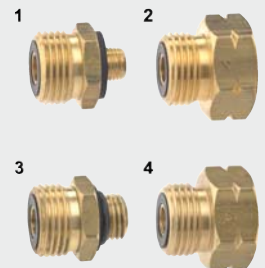
KLF M x W21.8 x 1/14 lh F

**69 735 03**

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

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

**69 735 07**







### 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 with foam insert (H/W/D: 140 x 153 x 49 mm)
- adapter FR1: Italy, Switzerland (Shell-F M x M10 x 1 M)
- adapter FR2: Austria, Greece, Italy, Slovenia (Shell-F M x Ital.A F)
- adapter FR3: Finland, Iceland, Norway, Portugal, Sweden, UK (Shell-F M x Primus M)
- adapter FR4: Croatia, Czech Republic, Germany, Ireland, Latvia, Luxembourg, Macedonia, Montenegro, Netherlands, Serbia, Slovakia, Slovenia, Spain, Switzerland, UK (Shell-F M x W21.8 x 1/14 lh F)


#### Technical data

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

### 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

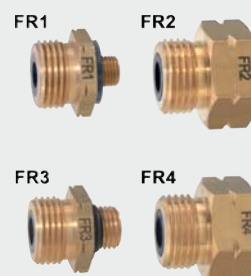
69 739 00 

#### Individual nozzle

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

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 approved

#### Note

- Because of hazardous materials regulations, only the following quantities are permitted per package:  
Leak detector spray 125 ml / 72 units  
Leak detector spray 400 ml / 24 units  
For larger quantities despatched by mail, shipping costs increase in accordance with the number of packages.
- Foaming agent for leak detection pursuant to EN 14291.

### Leak detector spray

spray can 125 ml

62 601 00



spray can 400 ml

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 approved

#### Note

- Because of hazardous materials regulations, only the following quantities are permitted per package:  
Leak detector spray 400 ml / 24 units  
For larger quantities despatched by mail, shipping costs increase in accordance with the number of packages.
- Foaming agent for leak detection pursuant to EN 14291.

### Leak detector spray, frostproof

spray can 400 ml

02 602 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

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**



### 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**







### Senso4s PLUS level gauge for gas cylinders

with app for smartphones and tablets

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

The Senso4s PLUS level gauge (A) measures the weight of the gas cylinder and transmits this value to the app (B) via Bluetooth. The app automatically calculates the content and creates 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 of 5, 8 and 11 kg, for instance
- 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
- the app will determine a long-term forecast of the gas consumption after a short operating time
- due to its ATEX certification, Senso4s PLUS may also be used e.g. in gas cylinder cases of leisure vehicles
- Senso4s PLUS is specially designed for operation in leisure vehicles – thanks in part to its motion sensor, which interrupts the measurement while driving and thus prevents wrong measurement results


#### Technical data

- measuring accuracy:  $\pm 1\%$
- protection type: IP44
- supply voltage: 3 type AAA batteries, LR03 1.5 V Alkali (not included in 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** 

**NEU**



(A)



(B)





### 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

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

21 100 70

21 100 71

#### replenishment pack, 50 units

unicoloured, blue

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

21 100 80

21 100 85



### EuroTool

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

for filling German gas cylinders through authorised European filling stations with new exchangeable system for simple and safe replacement of the inserts

#### Advantages and equipment

- just one tool with seven different exchangeable inserts
- six inserts (orange) suitable for European cylinder connections
- one insert (green) suitable for small cylinder sealing nut (protective cap)
- simple and safe exchangeable system
- toolbox with foam insert (H/W/D: 140 x 153 x 49 mm)

#### Technical data

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

### EuroTool

#### in toolbox

complete

81 100 03



reddot award 2014  
honourable mention



### EuroTool MiniTool set

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

consisting of: presentation box with 2 EuroTools in the toolbox and 21 MiniTools unicoloured, blue

#### Advantages and equipment

- EuroTool with simple and safe exchangeable system
- EuroTool with six exchangeable inserts (orange) suitable for European cylinder connections and an exchangeable insert (green) suitable for small cylinder sealing nut (protective cap)
- EuroTool in toolbox with foam insert (H/W/D: 140 x 153 x 49 mm)
- MiniTool suitable for small cylinder connections with wing nuts

#### Technical data

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

### EuroTool MiniTool set

#### in the presentation box

complete

21 100 72



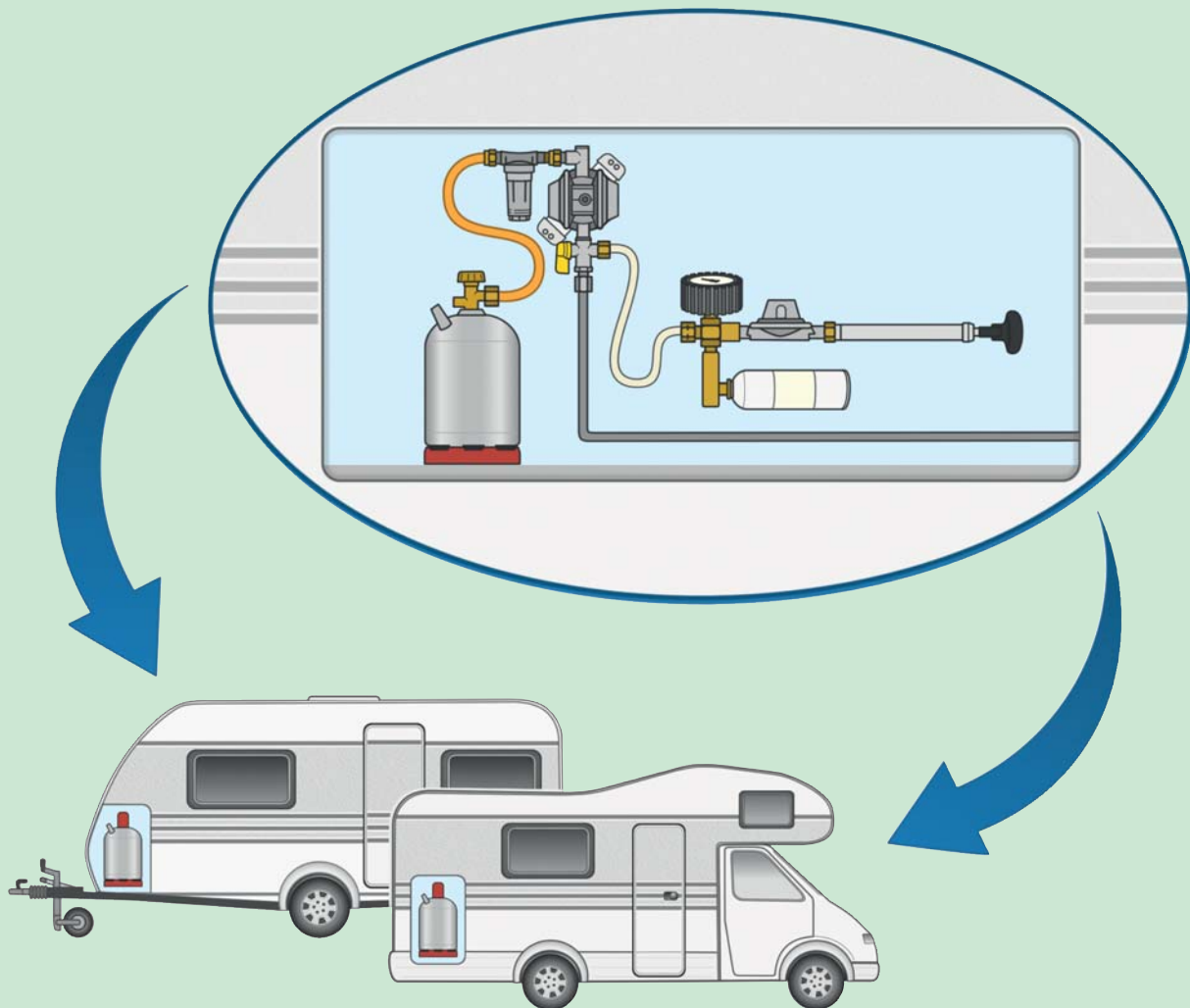




## EuroTool exchangeable inserts with assignment to European cylinder connections

53





### Leak test by qualified persons

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

GOK developed a high-quality leak tester for qualified persons to check for leaks.

For vehicles with a line volume of less than 700 cm<sup>3</sup>, the tester can use 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 to check for leaks in LPG systems in leisure 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 x pipe socket 8 to connect the test device to the quick coupler
- 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
- 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 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 can 600 cm<sup>3</sup>

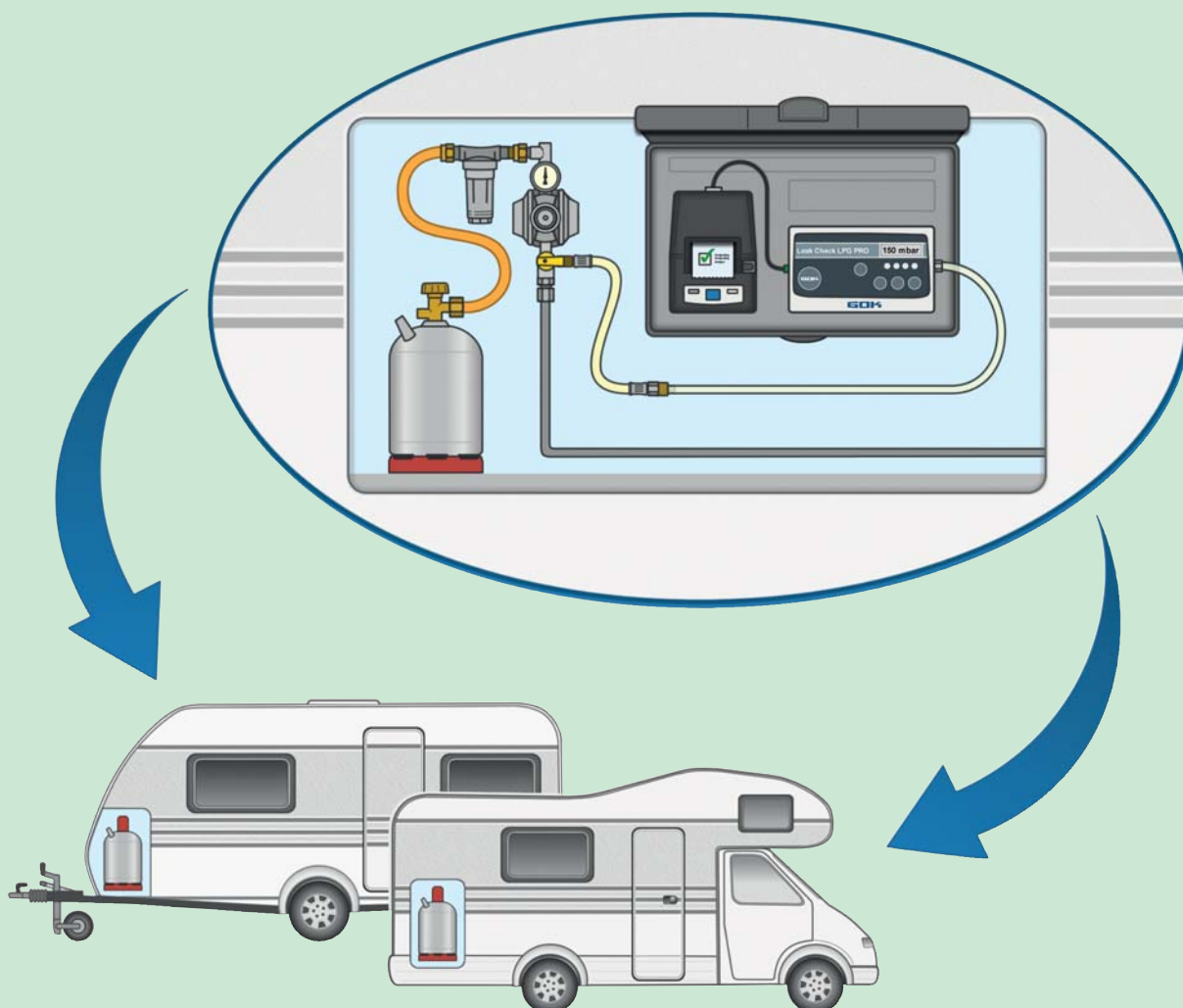
**02 611 06**

camping and caravan assembly case

**27 120 00**







### Next generation leak check

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

The electronic test device 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.

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





### Electronic test device Leak Check LPG PRO

with all the necessary assembly parts to check for leaks in LPG systems in leisure 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 can 600 cm<sup>3</sup>
- 1 x hand grip for the test point
- 1 x plug-in fitting x pipe socket 8 to connect to quick coupler
- 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 leak detector spray can 125 ml
- 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. 210 x 496 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 switched on

### Technical data

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

### Electronic test device Leak Check LPG PRO

for caravan and marine

complete

**27 105 00**

### Spare Part

spare paper roll, long-life, packaging unit: 5 units

**27 107 25**

spare paper roll, long-life, packaging unit: 100 units

**27 107 26**

### Accessories

calibration of the test device

**58 803 00**







### Electronic test device Leak Check LPG PRO BT

with all the necessary assembly parts to check for leaks in LPG systems in leisure 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.

The Leak Check LPG PRO BT carries out the required test automatically and transfers the result into an app (Android) installed on a mobile end device by means of Bluetooth.

The tester records the data of the integrated gas equipment/components in the app under the vehicle identification number (VIN). After the test, a test log can be created, saved locally, printed (PDF) or exported.

In the case of a repeat test, already recorded gas equipment/components can be assumed by means of the local memory or by importing the last test log using the QR code.

consisting of:

- 1 x Leak Check LPG PRO including mains adapter and rechargeable battery
- 1 x Bluetooth adapter
- 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 can 600 cm<sup>3</sup>
- 1 x hand grip for the test point
- 1 x plug-in fitting x pipe socket 8 to connect to quick coupler
- 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 leak detector spray can 125 ml
- 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. 210 x 496 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
- continuous pump function for leak detection
- automatic zero-point correction when switched on
- the integrated gas equipment/components can be traced using the VIN
- test log can be saved locally, printed (PDF) or exported

### Technical data

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

### Electronic test device Leak Check LPG PRO BT

for caravan and marine

complete

**27 108 00**

### Accessories

calibration of the test device

**58 803 00**







### Leak tester type 150Z

to check for leaks in LPG systems in leisure 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 can 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 Part

test pressure gauge 0-250 mbar, quality class 1.0

62 616 00

pressure gauge gasket

55 211 60

retrofit kit for additional volume can 600 cm<sup>3</sup>

02 611 06

additional volume can 600 cm<sup>3</sup>

02 611 40

gasket for additional volume

02 611 27

gasket for outlet nozzle G 1/4 lh M on the leak tester

02 600 59

set consisting of: fitting G 1/4 lh F x G 3/8 lh M and

02 617 22

G 1/4 lh F x G 1/2 lh M brass

#### Accessories

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

62 618 01



### Leak tester type 150

to check for leaks in LPG systems in leisure 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 Part

test pressure gauge 0-250 mbar, quality class 1.0

62 616 00

pressure gauge gasket

55 211 60

gasket for outlet nozzle G 1/4 lh M on the leak tester

02 600 59

set consisting of: fitting G 1/4 lh F x G 3/8 lh M and

02 617 22

G 1/4 lh F x G 1/2 lh M brass

#### Accessories

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

62 618 01

retrofit kit for additional volume can 600 cm<sup>3</sup>

02 611 06

additional volume can 600 cm<sup>3</sup>

02 611 40

gasket for additional volume

02 611 27

leak detector spray can 125 ml

62 601 00







### Function check set

for a simple and fast function check in LPG systems in leisure 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.

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.

### Advantages and equipment

- 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, blocks the gas supply if the hose is damaged
- medium pressure hose (rubber with textile lining; cold resistant 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

### Function check set

for caravan and marine

complete

**27 101 00**

### Spare Part

Medium pressure hose assembly rubber PS 10 bar,  
hose dimensions 6.3 x 3.5 mm, G 3/8 lh nut x quick coupler x 2000 mm

**27 101 04**

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

**09 738 00**

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

**27 101 01**

plug-in fitting type D1 plug-in fitting x Brit.POL F

**27 101 02**

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

**27 101 03**







### Camping and caravan assembly case

containing all the necessary components and spare parts for assembly and maintenance work on LPG systems in caravans and motor 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 key, type VOMO, 8 and 10 mm
- 5 x protective cap for test point
- 5 x gas valve grease tube 5 g
- 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, different coloured compartments
- 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 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

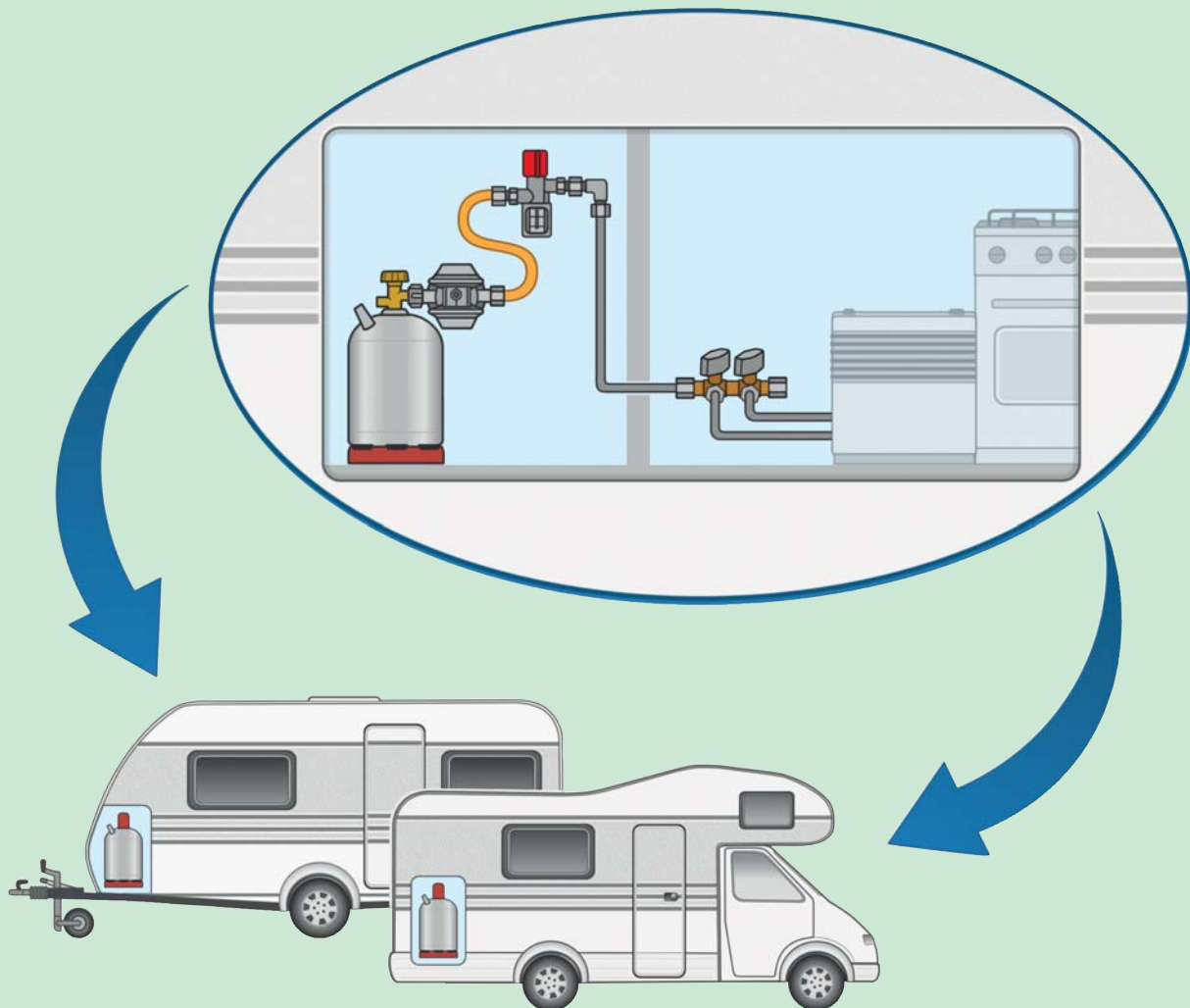
**27 105 00**

test device Leak Check LPG BASIC

**27 100 00**







### Leak test by the operator

A regular check for leaks by the operator increases the safety of the LPG system.

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

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

Can be retrofitted without any problem.





### Leak tester type 4071

enables quick and sound leak checking 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 caravans and motor caravans!

### Leak tester type 4071

#### straight outlet

compression fitting x compression fitting

with coupling nut type M and olive type D-MS

Compr. fit. 8 x compr. fit. 10

Compr. fit. 10 x compr. fit. 10

**62 004 00**



**62 004 01**



#### 90° outlet

pipe socket x compression fitting

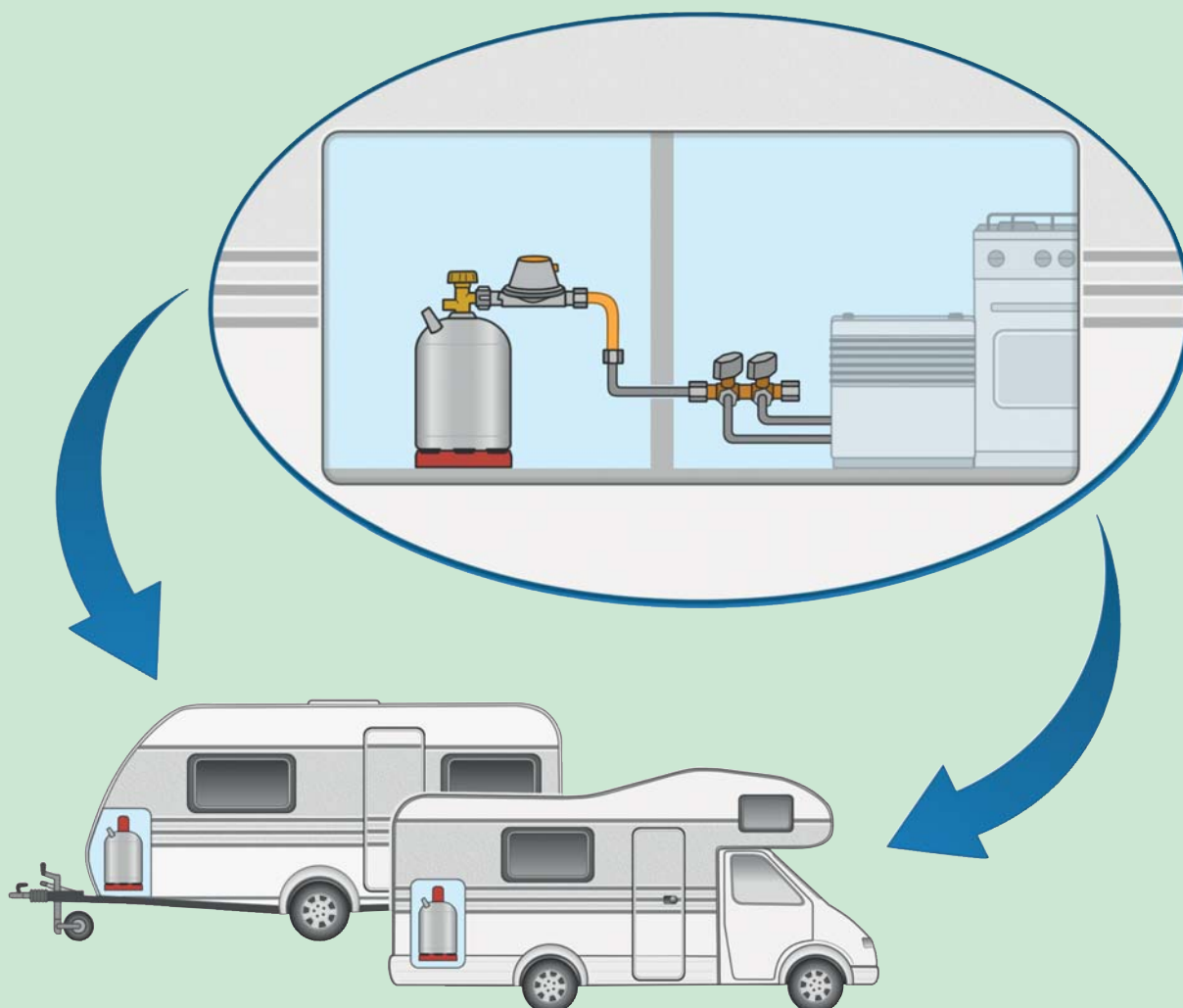
with coupling nut type M and olive type D-MS

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 approval according to PED


#### 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 **61 113 03** 

Shell-F x G 1/4 lh M 50 mbar 1.5 kg/h **61 113 12** 

##### without pressure gauge


KLF x G 1/4 lh M 50 mbar 1.5 kg/h **61 113 00** 

Shell-F x G 1/4 lh M 50 mbar 1.5 kg/h **61 113 11** 


#### 90° outlet


##### with pressure gauge

KLF x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 18** 

Shell-F x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 29** 


##### without pressure gauge


KLF x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 25** 

Shell-F x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 27** 

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

##### without pressure gauge

KLF x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 13** 

Shell-F x G 1/4 lh M 50 mbar 0.8 kg/h **61 113 28** 







Medium pressure hose assembly rubber  
to connect fittings, consumer equipment and piping

### Conformity

- DVGW approved

### 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.



-30 °C

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
G 1/4 lh nut	x	compr. fit. 8	x	450 mm
G 1/4 lh nut	x	compr. fit. 8	x	750 mm
G 1/4 lh nut	x	compr. fit 10	x	400 mm
G 1/4 lh nut	x	compr. fit 10	x	750 mm

64 402 00	
64 401 04	
64 405 01	
64 409 00	
64 409 02	



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	2500 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

64 221 01	
64 222 00	
64 223 00	
64 224 00	
64 225 00	
64 226 00	
64 227 01	
64 227 00	



Medium pressure hose assembly plastic

to connect fittings, consumer equipment and piping

### Conformity

- DVGW approved

### 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
G 1/4 lh nut	x	compr. fit. 8	x	450 mm
G 1/4 lh nut	x	compr. fit. 8	x	750 mm
G 1/4 lh nut	x	compr. fit 10	x	400 mm

64 402 02	
64 401 05	
64 405 07	
64 409 09	







### 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 approval according to GAR

#### Technical data

- maximum admissible pressure: PS 1 bar

### 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** 



#### Accessories

hull/wall duct for wall thicknesses of 6 to 20 mm

**11 445 20**

hull/wall duct for wall thicknesses to 8 mm

**11 445 08**

hull/wall duct for wall thicknesses of 15 to 40 mm

**11 445 40**

### 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!

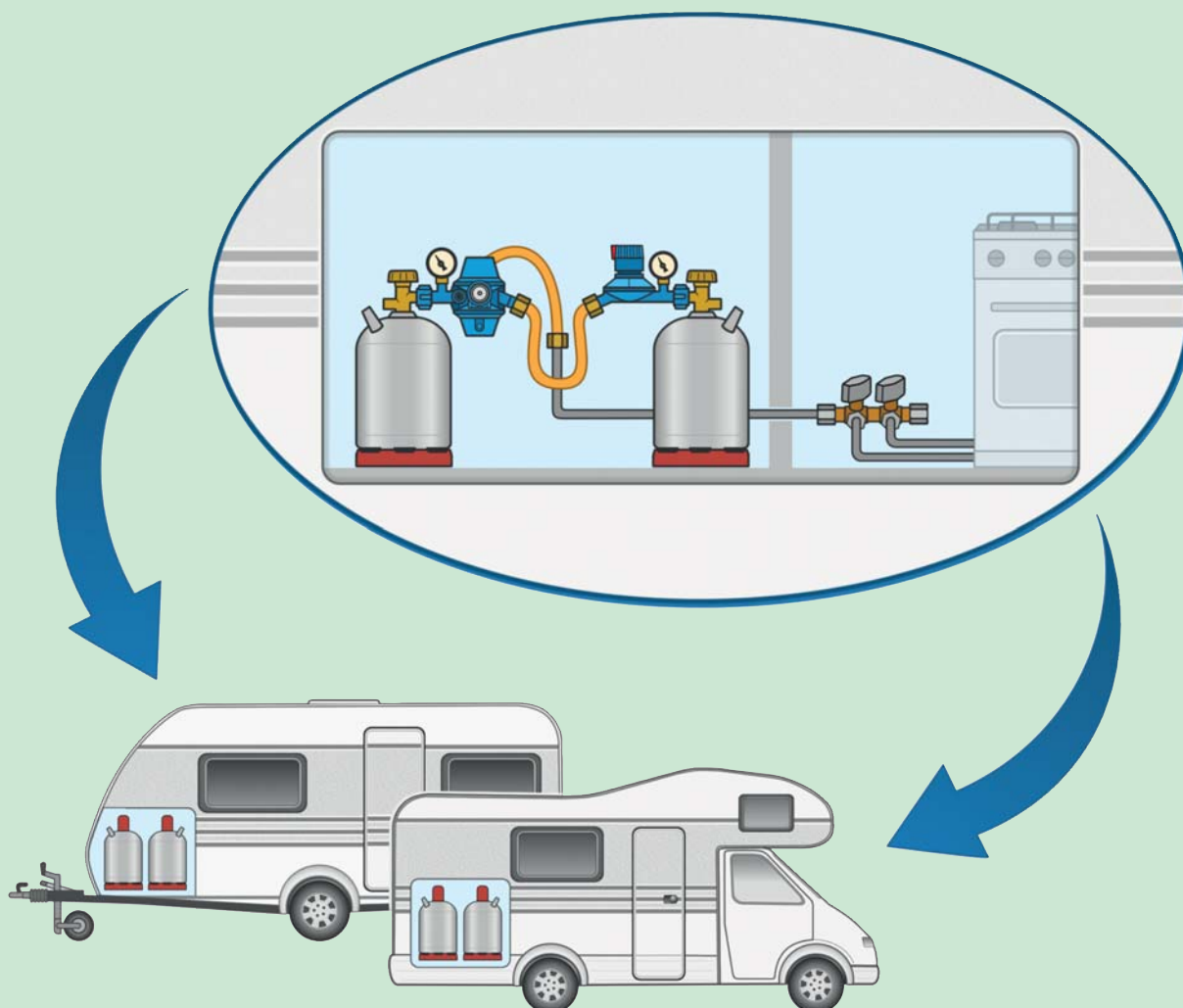
#### Locking screw

for KLF, GF, Kombi and Shell coupling nuts

**60 300 92** 







### Care and maintenance of LPG installations

#### Two-cylinder systems

If two-cylinder systems have to be replaced after 10 years, the Caramatic BasicTwo automatic changeover system is the perfect replacement to ensure that you retain the level of comfort you are used 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.





### Two-cylinder system 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 and changeover regulator with pressure gauge and hose assemblies

#### Advantages and equipment

- 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 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
- fittings for 8 and 10 mm
- combined fitting for optional connection to 5, 11 or 33 kg gas cylinders

#### Conformity

- EC type approval according to PED

#### Technical data

- maximum admissible pressure: PS 16 bar
- connections:
  - inlet: Komb.W
  - output: central regulator: G 1/4 lh M
  - changeover regulator: G 3/8 lh M
- outlet pressure: central regulator: 30 or 50 mbar
- changeover regulator: 100 or 220 mbar

### Two-cylinder system Caramatic BasicTwo

50 mbar 1.5 kg/h

30 mbar 1.5 kg/h

**02 018 01**

**02 018 02**

#### Accessories

medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, **64 440 02**

G 1/4 lh nut x compr. fit. 8 x 400 mm, brass parts

medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, **64 504 01**

G 3/8 lh nut x G 3/8 lh nut x 400 mm, brass parts

medium pressure hose assembly rubber PS 10 bar, hose dimensions 6.3 x 3.5 mm, **64 504 02**

G 3/8 lh nut x G 3/8 lh nut x 1500 mm, brass parts



Zentralregler



Umschaltregler



### 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

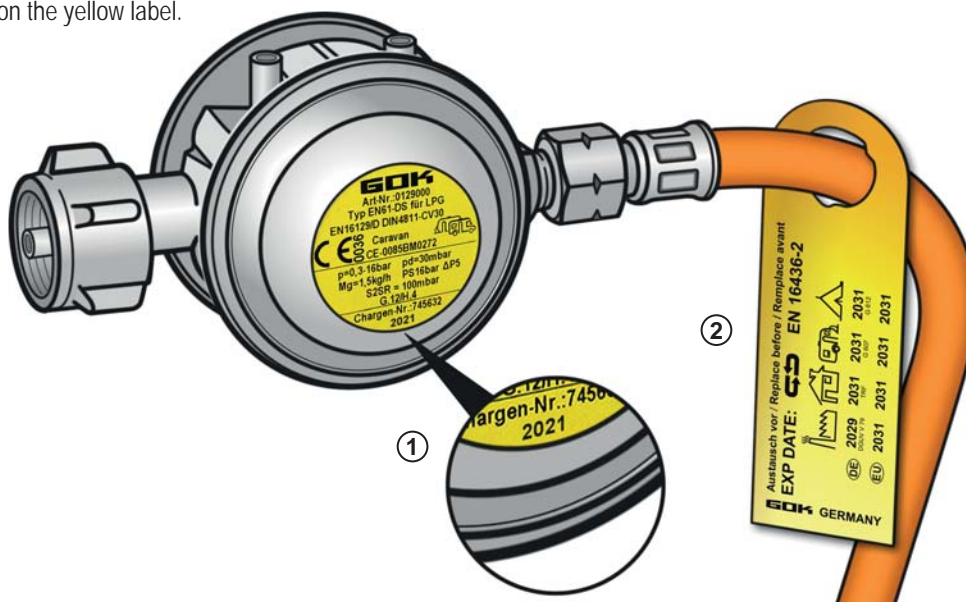
- Each LPG system is to be inspected by a recognised expert.
- The first inspection is carried out before start-up by a recognised specialist for compliance with EN 1949 in conjunction with worksheet G 607 (A) and is usually done by the manufacturer.
- The next inspection should be carried out by a specialist 24 months after the initial inspection.
- The condition of the LPG system must be recorded in an inspection certificate. If no defects are found, the system can be used 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. Two basic formats in which the date of manufacture may be indicated are to be distinguished:
  - a) On pressure regulators with an older date of manufacture, the first two digits indicate the month of manufacture, while the two following digits indicate the year. The abbreviation 08/20 means that the pressure regulator was manufactured in August 2020.
  - b) On pressure regulators with a more recent date of manufacture, only the year of manufacture with four digits is indicated, e.g. 2021.
- 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, with suitably equipped pressure regulators, you can use the pressure gauge in the inlet to check for leaks.

### 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 to check for leaks.
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 done by a specialist.

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

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

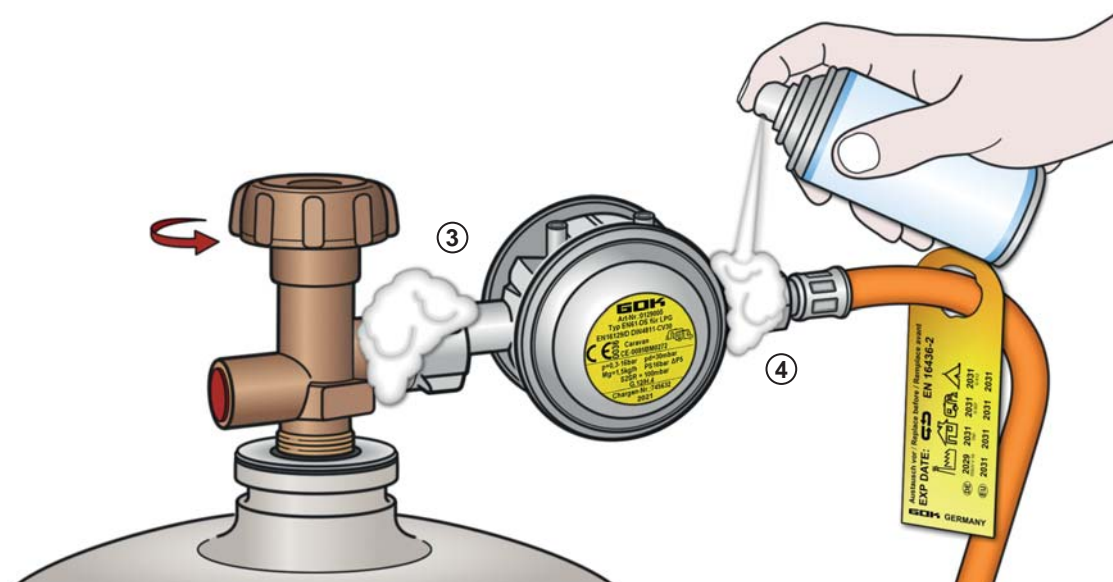
1. Close all shut-off fittings on the consumer equipment.
2. Slowly open the gas cylinder valve.
3. **For pressure gauges with no red pointer:**  
Mark the position of the black pointer (shows the current cylinder pressure).  
**For pressure gauges with a red pointer:**  
Turn the red pointer to the 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 mark 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.

### Notice:

All other detachable connections (e.g. 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.

### Leak test

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.





### Functions of the safety devices

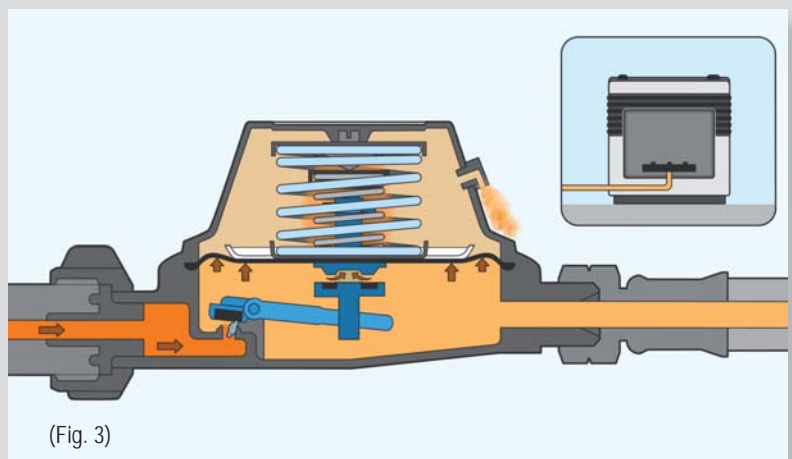
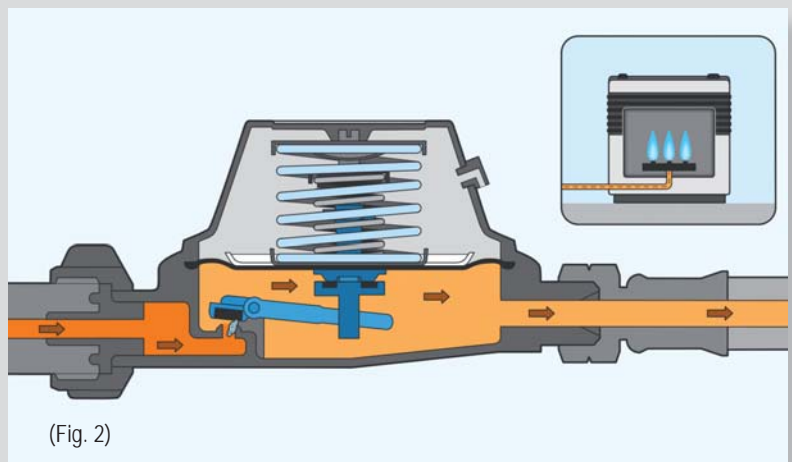
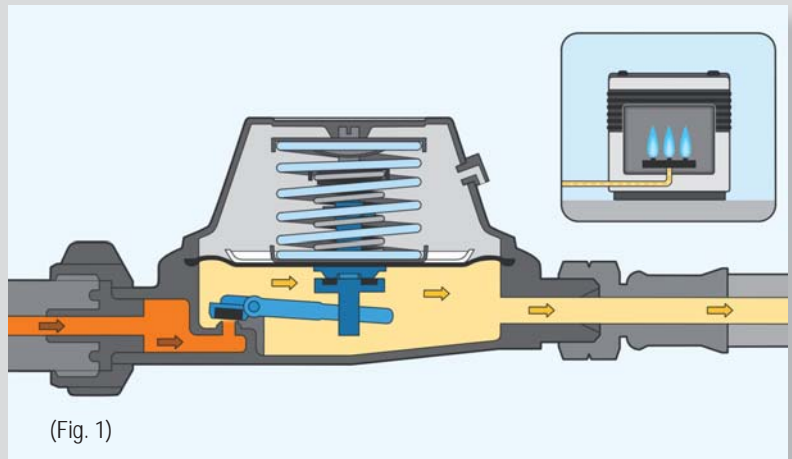
You can find animations of all the safety devices on our YouTube channel [www.youtube.com/c/GOK-ReglerundArmaturen](http://www.youtube.com/c/GOK-ReglerundArmaturen)

#### 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 inadmissible high pressure (**Fig. 1**).

If inadmissible high pressure occurs at the outlet, 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.





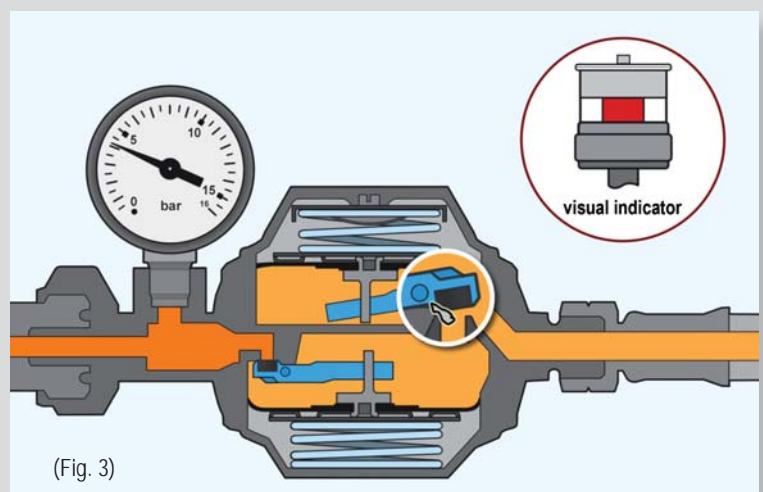
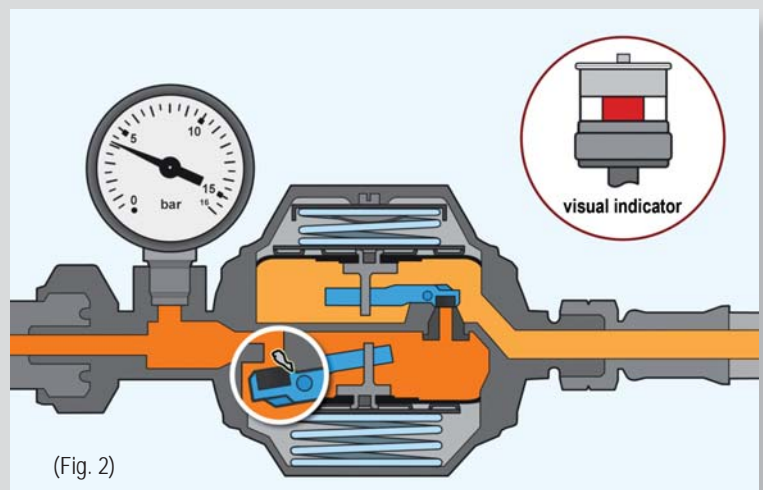
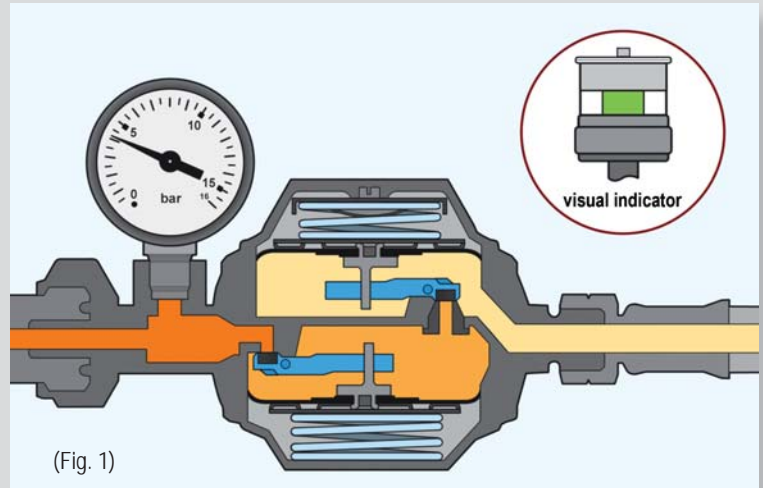
### Over-pressure safety device S2SR (OSD)

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

If one of the two controller stages fails, e.g. because of dirt and other foreign bodies in the valve, respectively, the other controller 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.





### Excess flow valve EFV

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

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

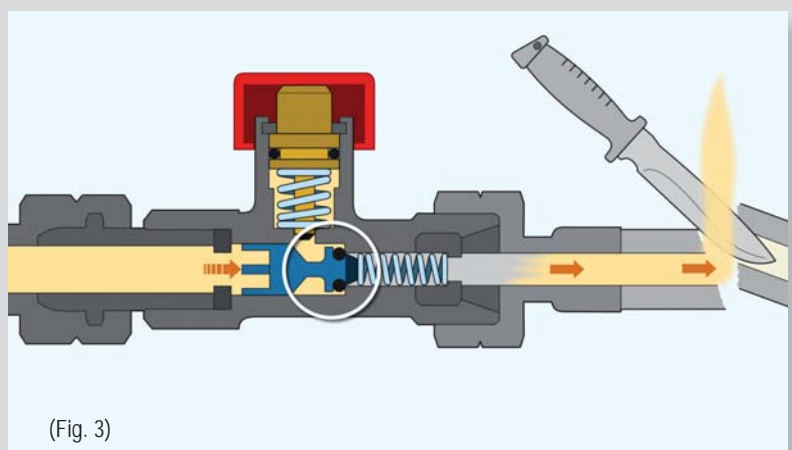
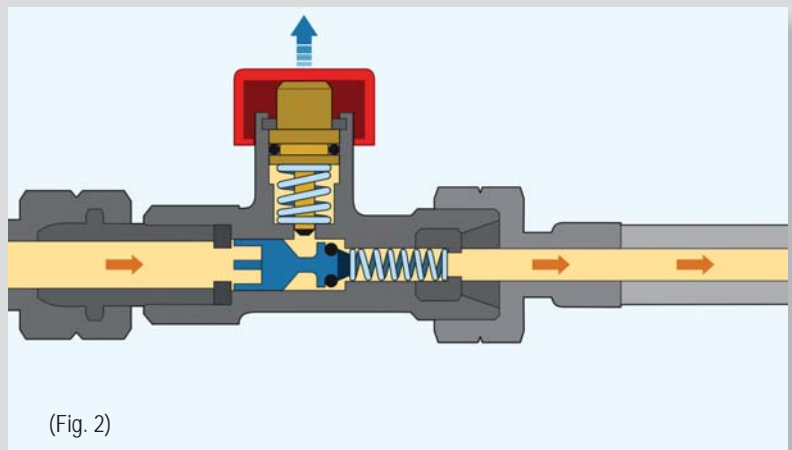
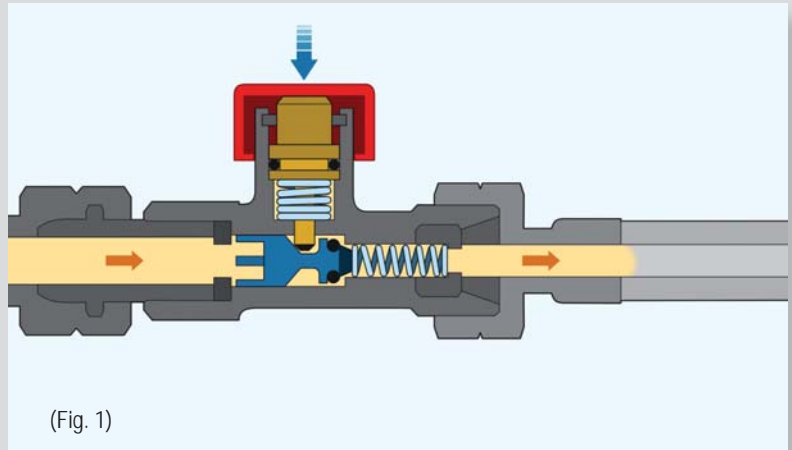
When the pressure has equalised, the closing taper remains open and gas can be consumed (Fig. 2).

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

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

An excess flow valve (EFV) is integrated into the pressure regulator.

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





### Crash sensor



The crash sensor is an automatic safety device and is part of the regulator system.

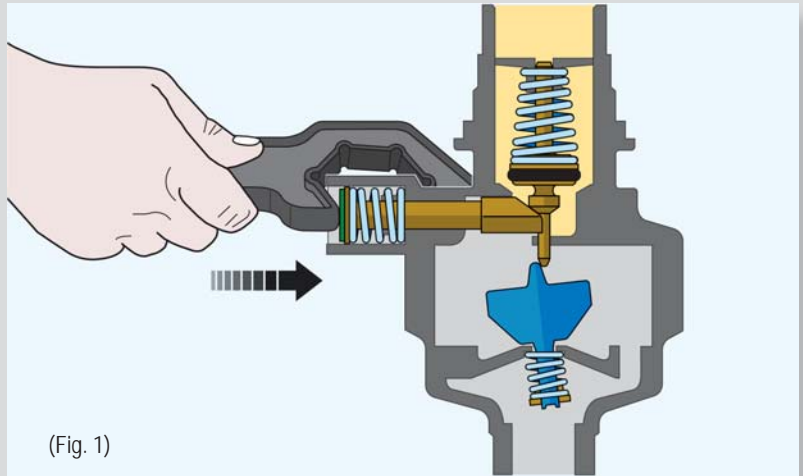
If heaters are operated in leisure vehicles while driving as well, the crash sensor provides protection from uncontrolled escape of LPG, e.g. in the event of a traffic accident.

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

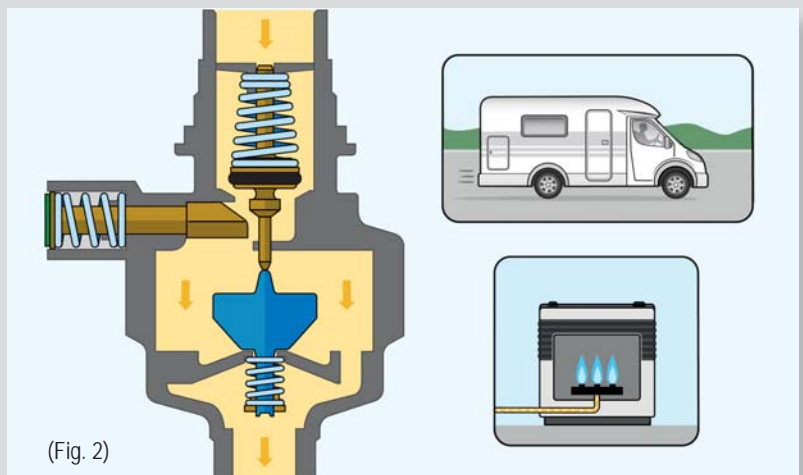
The pendulum swings into its resting position and prevents the sealing unit from closing. This ensures that gas can flow. The reset button is relieved.

Heating can now be used safely while driving (**Fig. 2**).

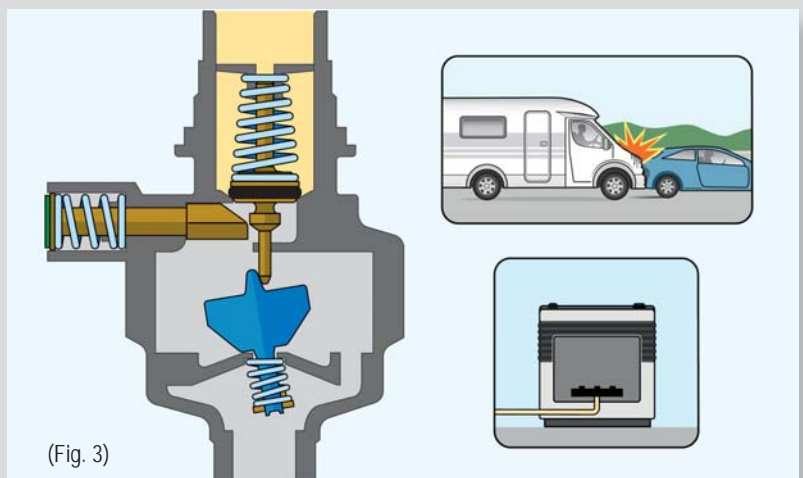
For example, if the leisure vehicle is involved in a traffic accident, the crash sensor directly blocks the gas flow. From a crash speed of about 15 to 20 km/h, the sphere changes its position and releases the spring-loaded sealing unit. The gas flow is closed (**Fig. 3**) and remains in this state until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



(Fig. 1)



(Fig. 2)



(Fig. 3)



### Leak tester type 4071

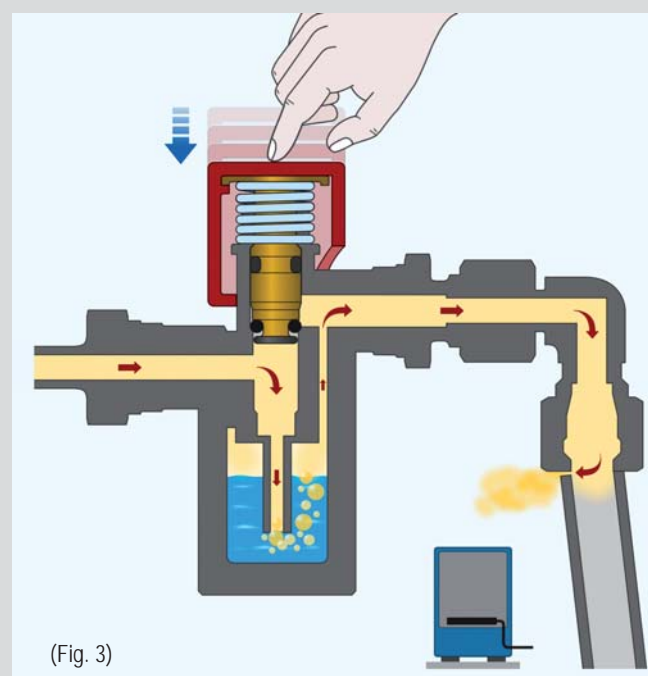
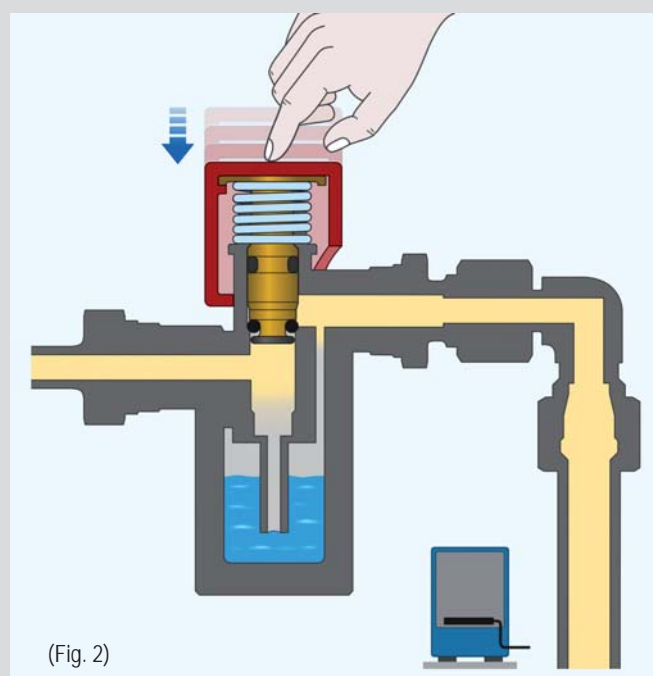
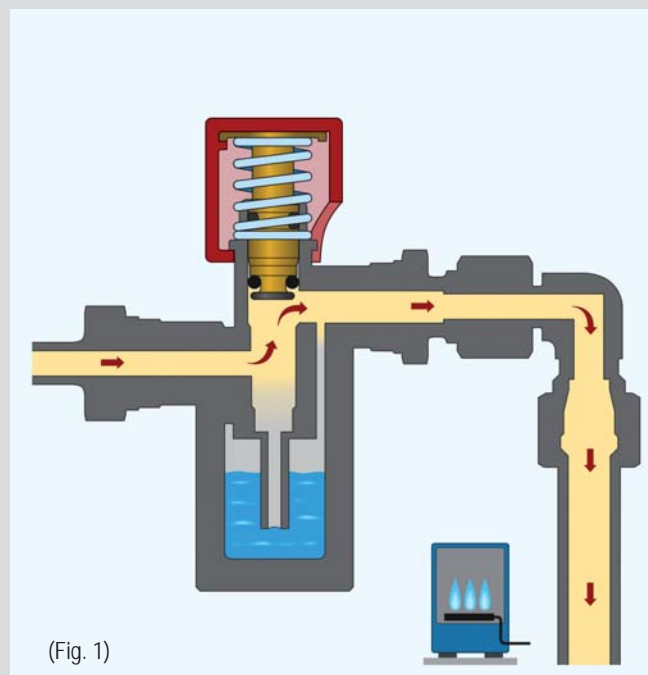


The leak tester enables quick and sound leak checking of the LPG system at any time.

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).



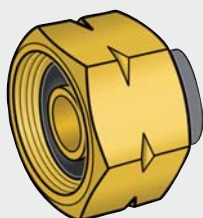






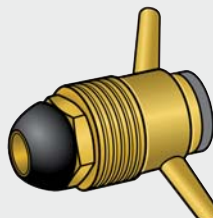
### Inlet connectors

#### Italian connection (Ital.A)



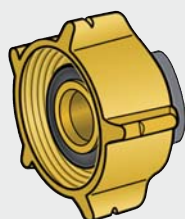
Name acc. to standard*	G.1
Country	AT, GR, IT
Gasket material	NBR

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



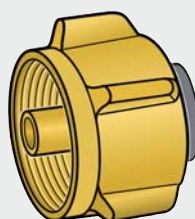
Name acc. to standard*	G.10
Country	SE
Gasket material	NBR

#### FR Shell (Shell-F)



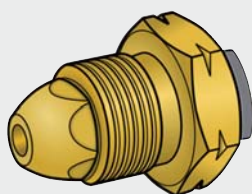
Name acc. to standard*	G.2
Country	BE, CH, FR, RU
Gasket material	NBR

#### Small cylinder (KLF)



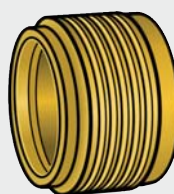
Name acc. to standard*	G.12
Country	AT, DE, PL, RU
Gasket material	--

#### British POL (Brit.POL)



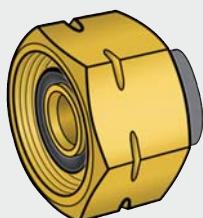
Name acc. to standard*	G.7
Country	GB
Gasket material	--

#### M20 x 1.5 M



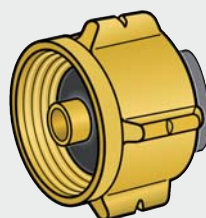
Name acc. to standard*	G.13
Country	CH, EU, RU

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



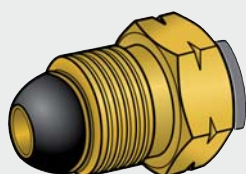
Name acc. to standard*	G.8
Country	GB, IE, RU
Gasket material	NBR

#### Kombi Soft (Komb.W)



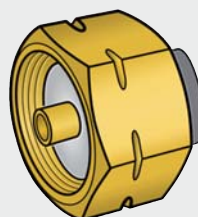
Name acc. to standard*	G.19
Country	DE, ES, RU
Gasket material	NBR

#### Soft POL (POL-WS)



Name acc. to standard*	G.10
Country	BE, NO, PT, SE
Gasket material	NBR

#### Shell Combi Hard (Komb.Shell-H)



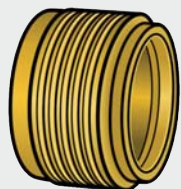
Name acc. to standard**	X.3
Country	RU
Gasket material	PA

\*Name according to EN 16129 Annex G and EN 15202 / \*\*Name GOK factory standard



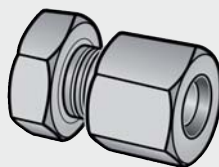
### Outlet connectors

M20 x 1.5 M



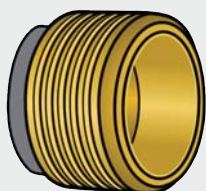
Name acc. to standard*	H.1
Country	CH, EU, RU

Compression fitting



Name acc. to standard*	H.8
Country	International

Ball-cone connector



Name acc. to standard*	H.4, H.5, H.6
Country	AT, CH, CZ, DE, RU, SI

\*Name according to EN 16129 Annex H



### 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 are repeatedly used in 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 consumer 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

All the items marked with this symbol are delivered in shop packaging.



The GOK logo is displayed in a bold, blue, sans-serif font in the top right corner of the advertisement.

*Caramatic*

NEW from GOK:

## CARAMATIC SERIES!

- ✓ Good price-performance ratio
- ✓ 100 per cent Made in Germany
- ✓ Simple integration and replacement

All components for the gas supply in motor caravans and caravans from one brand.  
More information online at [www.gok.de/en/caramatic-series](http://www.gok.de/en/caramatic-series)







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

Made in **GERMANY**

59 021 42 – 06/2021