GOK

Components

Solutions

Systems

for **LPG TANKS**

our **HIGHEST QUALITY**
for your **ABSOLUTE SAFETY**

Made in GERMANY

Picture price lists 2009

GOK offers again a complete range of products used between the tank and the consumer appliance if liquid and gaseous energy is concerned.

In the Picture price lists 2009 we have put new emphasis on the successful development of markets that become more and more difficult:

- **The clearly extended business area of tank data management that also allows solutions for complex monitoring duties, e.g. in industrial applications.**
- **A wide range of fittings for oil firing installations that is now already suitable for use with biogenous components.**
- **The comprehensive product range for LPG installations has again been extended, e.g. by electronic monitoring appliances for autogas tank installations.**

Enjoy studying the new catalogues.

The Picture price lists 2009 – Components / Solutions / Systems are available for:

1

Oil firing installations

2

LPG installations, including warming, burning, soldering

3

LPG tank equipment

4

Leisure time - caravan, camping, marine

5

Tank management

6

CD: "Our range at a glance - 2009"

All GOK Picture price lists as interactive files with gross prices, examples for applications and animated safety devices.

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Table of contents

Tank equipment

for overground and

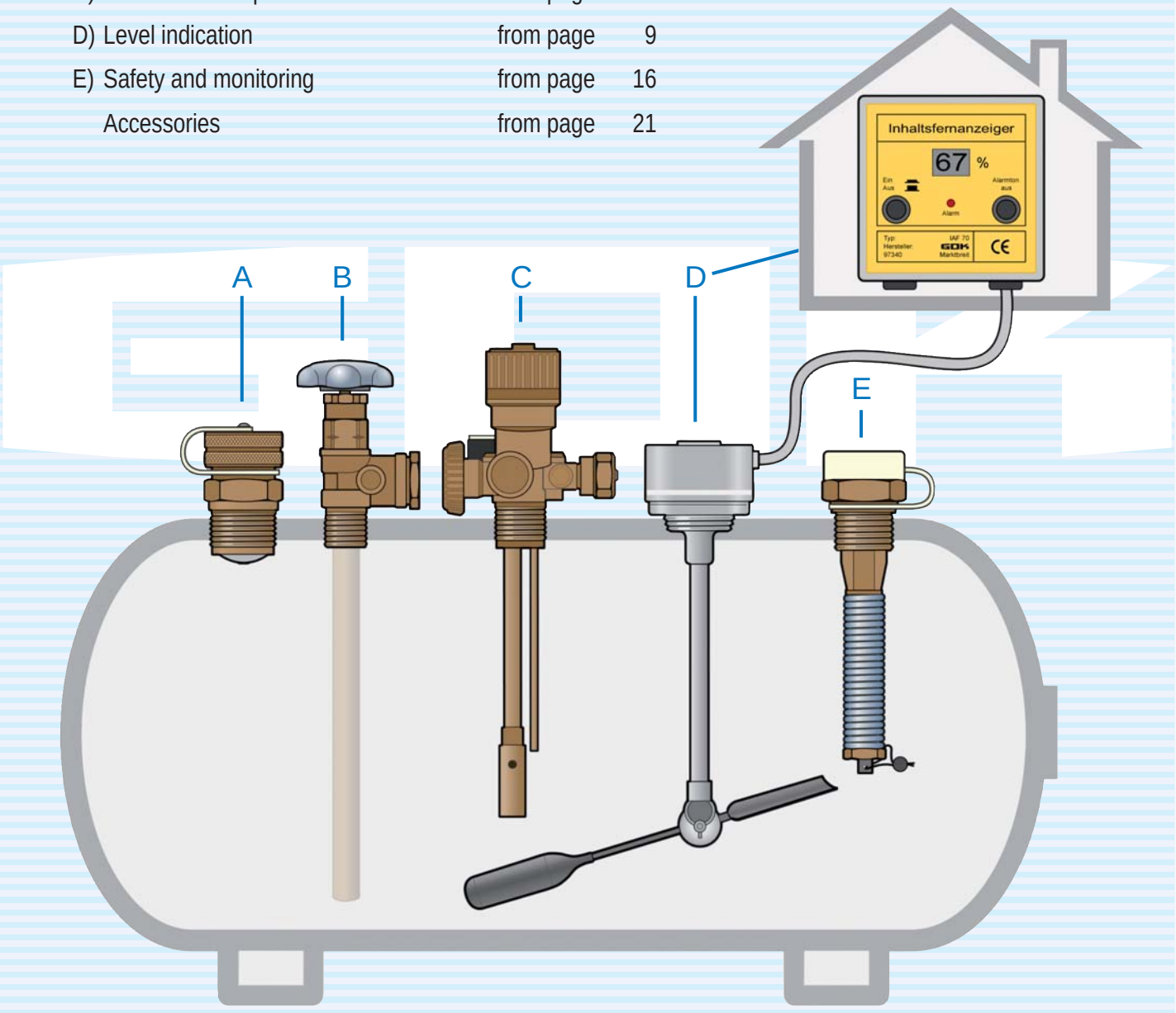
underground LPG tanks 2

NEW in the product range:

Tank equipment

for overground and

underground LPG tanks



Filler valve type FV PS 25 bar

Part no.

For LPG tanks according to DIN 4680 and DIN 4681

Consisting of: a one-piece housing with non-return valve

Function:
The construction with internal conical nipple and metallic non-return device is a double non-return valve.
If the cap is screwed on, additional sealing is achieved by an internal soft gasket. The connector of the sealing cap has a discharge orifice which becomes effective only after unscrewing the sealing nut.

Advantages and equipment
- Non-return valve

Approval
- EC type approval according to PED
- TÜV component mark

Technical data
- Temperature range: -20°C to +65°C
- Material: housing: brass (CW 617 N or CuZn40Pb2)
  sealing cap: brass
- Nominal width: DN 20.5

Valve parameter standard capacity: k_{vs} according to IEC 534-2-1

Filler valve with non-return valve: k_{vs} = 241 l/min

Filler valve type FV
Version for use in Germany

1 1/4 NPT M x 1 3/4 ACME M	54 010 00
3/4 NPT M x 1 3/4 ACME M (special dimensions)	54 002 00

Version for use in the Czech Republic

1 1/4 NPT M x 1 3/4 ACME M	54 010 17

Version for use in Poland

1 1/4 NPT M x 1 3/4 ACME M	54 010 27

Filler valve type FV
With sealing cap and integrated cylinder lock
Version for use in Germany

1 1/4 NPT M x 1 3/4 ACME M	54 010 15

Accessories
Sealing cap
With integrated cylinder lock

1 3/4 ACME nut material: brass	50 176 15

Without integrated cylinder lock

1 3/4 ACME nut material: brass	50 176 00
1 3/4 ACME nut material: plastic	50 171 00

Note for sealing cap with cylinder lock:
Upon request, it is possible to supply this product with a company-own locking system if the purchase quantity is 1000 units.

Filling

Coupling for filler valve PS 25 bar

	Part no.
For connection to a filler valve	
Technical data	
• Material: coupling nut: brass pipe socket: steel	
Coupling for filler valve	
1 3/4 ACME F x 3/4 NPT M	54 032 00
1 3/4 ACME F x 1 NPT M	54 033 00
2 1/4 ACME F x 1 1/4 NPT M	54 034 00
3 1/4 ACME F x 2 NPT M	54 035 00

Filling hose assembly PS 25 bar

	Part no.
For emergency filling of LPG tanks from LPG cylinders	
Approval	
• Hose DIN-DVGW-tested	
Filling hose assembly	
Komb.A x 1 3/4 ACME F x 5000 mm	50 500 00

Gasket

	Part no.
For filling and withdrawal valves	
Technical data	
• Material: NBR	
Gasket	
1 1/4 ACME F OD 23 mm, ID 13 mm, 3 mm thick	54 110 00
1 3/4 ACME F OD 34 mm, ID 23 mm, 3 mm thick	54 111 00
2 1/4 ACME F OD 46 mm, ID 35 mm, 3 mm thick	54 112 00
3 1/4 ACME F OD 72 mm, ID 53 mm, 3 mm thick	54 113 00

Intermediate filler valve PS 25 bar

	Part no.
For installation between the fuel dispenser nozzle and the filler valve, with dip valve to discharge pressure after filling	
Technical data	
• Material: brass	
Intermediate filler valve	
1 3/4 ACME M x 1 3/4 ACME F	54 016 00

Plug PS 25 bar

	Part no.
For closing of filling lines	
Advantages and equipment	
• Safety chain	
Technical data	
• Material: brass	
Plug	
1 3/4 ACME M	50 161 01
2 1/4 ACME M	50 162 01

Tank filling kit PS 25 bar

	Part no.
For overground LPG tanks to install a firm filling line	
Connector tank consisting of: Connector tank side: 1 3/4 ACME female thread Connector pipe: soldering connector for copper tube 35 mm	
Connector tank truck consisting of: Filler valve and filling connecting block, material: brass with 3.1 certificate Connector tank truck: 1 3/4 ACME male thread Connector pipe: soldering connector for copper tube 35 mm	
Description of function and technical data of the filler valve see page 3.	
Tank filling kit	
With connecting parts for tank and tank truck	54 026 00

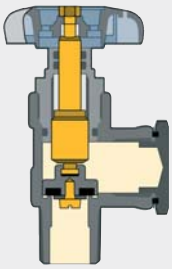
Dip valve PS 25 bar

			Part no.
To check the maximum admitted filling level			
Dip valve			
Material: brass			
1/4 NPT M	without dip tube	RegO 3165C	53 250 10
Material: stainless steel			
1/4 NPT M	without dip tube	RegO TSS3169	53 253 00

U-shape lock

	Part no.
For tank protection caps, complete with plug-in key and protection against penetration of humidity into the locking device	
Technical data • Material: lock: brass plug-in key: zinc diecasting	
U-shape lock	
With plug-in key	54 014 00
Accessories	
Replacement plug-in key	54 014 10

Withdrawal



Liquid withdrawal valve type FEV PS 25 bar

Part no.

For LPG tanks

According to German TRF 1996 for withdrawal of LPG in liquid phase from the tank

The construction of the valve with conical nipple, valve spindle with sealing and plug is designed as an angle valve operated manually.
The plug at the outlet connector has a discharge orifice of 1.5 mm diameter which becomes operative only after loosening the plug.

Additionally, the valve has a female thread 3/4" x 28 UN at the connector for the LPG tank to assemble an immersion tube.

Liquid withdrawal valve with excess flow valve:
If the adjusted capacity is exceeded, an excess flow valve integrated in the liquid withdrawal valve closes at the side of the tank.
The excess flow valve re-opens if the capacity falls below the response range.

Technical data

• Connector:	LPG tank:	3/4 NPT male thread
	immersion tube:	3/4 x 28 UN female thread
	outlet:	3/4 NPT female thread
• Temperature range:	-20°C to +65°C	
• Material housing:	brass (CW 617 N or CuZn40Pb2)	

Valve parameter standard capacity k_v = 139 l/h according to IEC 534-2-1

Capacity response range of excess flow valve exceeding 70 kg/h LPG

Liquid withdrawal valve type FEV

	Part no.
With excess flow valve	
For Germany	55 164 00
For Poland	55 164 47
Without excess flow valve	
For Germany	55 160 10
For Poland	55 160 47
Accessories	
Plug 3/4 NPT M material: brass	54 250 00

Vapour withdrawal valve type FST3.1VK PS 25 bar

Part no.

With replaceable PTC sensor

For LPG tanks filled by tank trucks
Limit indicator PTC sensor, replaceable under tank pressure

The vapour withdrawal valve as constructional unit corresponds to the type of vapour withdrawal valve according to German TRF 1996, consisting of the following components:

- Vapour withdrawal valve, nominal width DN 8
  Connector for LPG tank: 3/4" NPT male thread
  Connector for pressure regulator: POL female thread
- Dip valve with immersion tube
- Overfill sensor with vertically positioned plug with shrouded contacts according to DIN EN 60309-2 with protection cap
- Safety manometer measuring range 0 to 25 bar for pressure determination
- Test connector M20 x 1.5 with shut-off device

Design:
The complete sensor can be replaced under tank pressure. For this purpose, a shut-off valve is integrated below the sensor which is pushed open when screwing in the sensor.

Functioning of the overfill sensor:
When filling, the overfill sensor is connected to the measuring amplifier at the tank truck via a cable by means of a plug with shrouded contacts. The limit indicator is placed under tension. When reaching the allowed filling limit, this sensor dips into the LPG liquefied under pressure and, caused by cooling, changes its electrical resistance. Via the measuring amplifier, this change in resistance leads to the immediate stop of the filling.

Approval

- EC type approval according to ATEX and PED
- TÜV component mark

Technical data

- Operational tension: 19 V
- Temperature range: -30°C to +65°C
- Vapour withdrawal: nominal width DN 8
- Material: housing: brass (CW 617 N or CuZn40Pb2)
  plug with shrouded contacts and protective cap: brass
- Required measuring amplifier: according to VdTÜV code of practice "Überfüllsicherungen 100 Teil 1" (vapour withdrawal valves 100 part 1)

Vapour withdrawal valve type FST3.1VK

	Part no.
Dip length 250 mm	55 220 14
Dip length 310 mm	55 220 00
Dip length 360 mm	55 220 31
Dip length 365 mm	55 220 32
Dip length 450 mm	55 220 71
Dip length 470 mm	55 220 05
Dip length 500 mm	55 220 11

Different dip lengths upon request

Accessories

Blind plug POL PS 25 bar, material: brass	50 169 00
Blind plug POL PS 25 bar, material: plastic	50 168 00
Manometer radial, display range 0-25.0 bar, Ø 50 mm, G 1/4 M	53 004 14
Manometer sealing G 1/4 copper	53 045 00

Withdrawal

Vapour withdrawal valve “Export” PS 25 bar

Part no.

Vapour withdrawal valve as constructional unit without limit indicator for LPG tanks

Consisting of: vapour withdrawal valve, dip valve with or without immersion tube, optionally with manometer for pressure determination and optionally with excess flow valve

Technical data

- Connector: LPG tank: 3/4 NPT male thread; pressure regulator: POL female thread
- Vapour withdrawal: nominal width DN 8
- Material: brass
- Manometer: 0 to 25.0 bar
- Excess flow valve: closing flow 48 ± 8 kg/h

Vapour withdrawal valve type GEA, with excess flow valve		
- Not suitable for use in Germany -		
Without manometer and without immersion tube		55 203 00
With manometer and immersion tube	dip length 390 mm	55 204 16
Vapour withdrawal valve type 55212, without excess flow valve		
With test connector M20 x 1.5 with shut-off device		
- Not suitable for use in Germany -		
With manometer and immersion tube	dip length 310 mm	55 212 00
Version for use in Poland, with particular approval		
With manometer and immersion tube	dip length 310 mm	55 212 45
Version for use in the Czech Republic, with particular approval		
With manometer and immersion tube	dip length 310 mm	55 212 17

Accessories

Blind plug POL PS 25 bar, material: brass	50 169 00
Blind plug POL PS 25 bar, material: plastic	50 168 00

Extension kit

Part no.

For extension of the plug with shrouded contacts of the vapour withdrawal valves type FST3.1VK

Consisting of: socket and plug with shrouded contacts according to DIN EN 60309-2

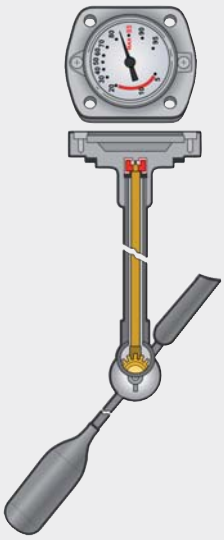
Technical data

- Connecting cable 2 x 1.5 mm² NYM overground or equivalent (not in scope of delivery)
- Nominal current: 16 A
- Number of poles: 3
- Leading-in device: on right side
- Type of protection: IP 44

Extension kit	
With socket and plug with shrouded contacts	55 219 00

Level indication

Information on Rochester level gauges



For LPG tanks

This type of level gauge meets the requirements of the German TRF 1996 or the Pressure Equipment Directive. The indication of the contents of liquid phase is in percent by volume of the total volume.

The level gauge functions on the basis of the float principle. Caused by lifting power, a float at the end of the bracket follows the LPG level in the tank. A counterbalance at the bracket guarantees a constant depth of immersion of the float into the liquid phase. If the liquid level in the tank changes, the movement of the float is transferred to a shaft by means of bevel gear drive. The shaft is protected by a tube. By means of a magnetic coupling at the end of the shaft, the reading is transferred to the outside scale.
The separation between the contents of the tank and the scale is gastight. Therefore, the scale can be replaced under tank pressure. The admitted maximum filling limit is shown on the scale as “MAX” and a marked red figure “85”%.
A protection cap is part of the delivery scope.

Technical data

- Indicating range of scale: 5 to 95%, with red figure at 85%
- Material housing: aluminium
- Temperature range: -20°C to +65°C

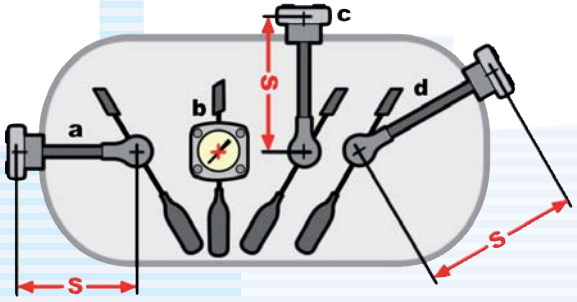
The actual diameter of the LPG tank must correspond to the details on the diameter of the LPG tank on the housing. The centre of motion of the rod assembly for transmission must be designed according to the centre of the tank.

When placing an order, the following details are absolutely requested:

1. Type description: “Junior”, “Senior” or “Magnetel”

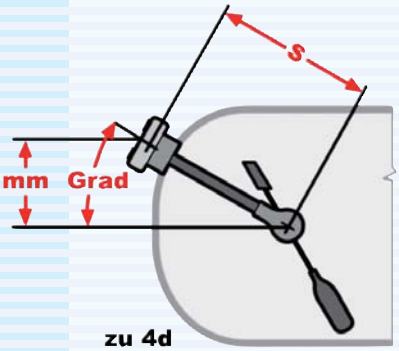
2. Tank diameter

3. Type of tank: cylindrical tank
or spherical tank



4. Type of installation:
   a) in the tank bottom
   b) sideways in the outer wall of the tank
   c) vertical from above
   d) at an angle in the tank bottom or in the outer wall

5. Additionally, to determine the dimensions of the gauge:
   Re. 4 a) shaft length “s”
   Re. 4 b) shaft length “s”
   Re. 4 c) distance between tank centre and bearing area (= shaft length “s”)
   Re. 4 d) angle between tank axis and nozzle of the liquid level indicator in degree or the vertical distance between the tank axis and the centre point of the bearing area of the liquid level gauge in millimetres; distance between centre of motion of liquid level indicator and its bearing area (= shaft length “s”).
   The centre of motion must be on this tank axis.



Level indication

Level gauge Rochester “Junior” PS 30 bar

Part no.

Types of installation and technical data as described on page 9.

Approval
- EC type approval according to PED

Technical data
- Screw-hole circle diameter: 51.6 mm

Rochester “Junior” type 6281		
With plastic protection cap		
Type of installation: vertical from above for tank diameter		
800 mm	shaft length 410 mm	53 110 04
1000 mm	shaft length 510 mm	53 111 05
1250 mm	shaft length 635 mm	53 112 07
1250 mm	shaft length 790 mm	53 112 27
For tank diameters of up to 2000 mm upon request		
With metal protection cap		
Version for use in Poland		
1250 mm	shaft length 635 mm	53 112 47
1250 mm	shaft length 790 mm	53 112 49
Version for use in the Czech Republic		
1250 mm	shaft length 635 mm	53 112 43
1250 mm	shaft length 790 mm	53 112 44
Rochester “Junior” type 6284		
Type of installation: in the tank bottom, sideways in the outer wall, at an angle in the tank bottom or outer wall		
For tank diameters of up to 2000 mm, e.g. Ø 800 mm		53 100 25

Accessories

Flange gasket, material: Buna N	53 145 00
Scale	53 146 00
Screw for scale	53 146 01
Protection cap blue, material: plastic	53 147 00
Protection cap transparent, material: plastic	53 147 10
Protection cap with cover, material: metal	53 116 00
Fastening screw M6 x 25 DIN 912 / AS-70 (hexagon socket)	53 166 20
Extension 175 mm	53 146 20

Level gauge Rochester “Senior” type 6280 PS 30 bar

Part no.

Types of installation and technical data as described on page 9.

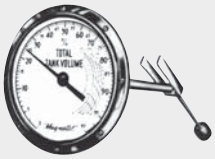
Technical data
- Screw-hole circle diameter: 63.5 mm

Rochester “Senior” type 6280		
Type of installation: vertical from above for tank diameter		
1250 mm	shaft length 625 mm	53 172 01
For tank diameters of up to 2000 mm upon request		

Accessories

Flange gasket, material: Buna N	53 148 00
Scale	53 149 00
Screw for scale	53 146 01
Protection cap blue, material: plastic	53 147 01
Fastening screw M8 x 25 DIN 912 / AS-70 (hexagon socket)	53 166 30

Level indication



Level gauge Rochester “Magnetel” PS 25 bar

Part no.

Big level gauge with 8“ scale for LPG tanks

Technical data

• Special flange:	“Magnetel”
• Screw-hole circle diameter:	88.9 mm
• Screw-hole diameter:	14.3 mm (8x)
• Material flange:	stainless steel
• Temperature range:	-20°C to +65°C
• Operating material:	LPG according to DIN 51622
• Indicating range of scale:	5 to 95 % by volume (6360) or 3 to 97 % by volume
• Fastening screws:	M12 x 30 according to DIN 938 (8x)
• Fastening nuts:	M12 according to DIN 934 (8x)

Rochester “Magnetel” type 6360-8 X or type 6360
Type of installation: vertical from above

For tank diameters of up to 2900 mm	53 131 00

When inquiring for this product or sending an order, it is absolutely necessary to indicate the diameter of the tank.

Accessories

8“ scale for type 6360-8 X and 6360 indicating range 5 to 95 % by volume	53 139 10
Flange gasket, material: Buna N	53 150 00

Level gauge Rochester “Twin Site” Junior PS 30 bar

Part no.

Level gauge with pulse generator for mobile application in LPG tanks, e.g. in vehicles or fork lift trucks.

Consisting of: level gauge with protection cap and pulse generator

Advantages and equipment

• Remote reading, e.g. at the panel board of the vehicle

Rochester “Twin Site” Junior type 6244

Tank diameter 300 mm	type of installation: sideways, 45° angle	53 153 00
Tank diameter 300 mm	type of installation: sideways, 0° angle	53 155 00
Tank diameter 360 mm	type of installation: sideways, 45° angle	53 152 00
Tank diameter 360 mm	type of installation: sideways, 0° angle	53 154 00

Pulse generator

AMF for Twin Site	53 152 32

Remote level gauge type IAF70

The remote level gauge type IAF70 shows the contents of liquid phase in an LPG storage tank in percent by volume. If the level falls below the adjustable threshold (5-30%), a visual and acoustic alarm is switched on at the indicator. In addition to this, it is possible to connect an external alarm via a potential-free relay.

The contents is shown on the display of the indicator and the transmitter. To determine the contents, a mechanical level gauge must be installed in the LPG storage tank. The maximum distance between indicator and transmitter is 180 metres.

Indicator IAF70

Transmitter S

Approval

• EC type approval according to ATEX

Design

IAF70

The remote level gauge consists of the indicator and the transmitter S. The transmitter S is connected to the flange of the mechanical level gauge. Indicator and transmitter are connected by means of a cable.

Indicator

Designed for wall mounting in a dry space, consisting of: electric power supply, two-digit level indication, ON-OFF switch, alarm luminous diode, programme key and a potential-free relay for external alarm.

Transmitter S

Designed for mounting on the mechanical level gauge of the tank, consisting of: magnetic field sensor, evaluation electronics and two-digit level indication.

Function

The transmitter gets the required operation voltage from the indicator. The magnetic field sensor is sensitive to the line of the magnetic field of the magnets situated at the shaft of the float level gauge. The line of this magnetic field determines the contents of the tank. The analogue signal produced by the magnetic field sensor is converted into a digital signal by means of the electronics and transferred to the indicator. The indication is shown on a two-digit LCD display. The transmitter also has a two-digit LCD display for indication at the tank. A signalling threshold value can be adjusted at the indicator. If the tank contents falls below this level, a buzzer sounds, a luminous diode goes on and a relay is switched over.

Note for installation: The maximum cable length is 180 metres.

Technical data

Indicator

• Connection to power supply:	230 V AC 50 Hz / 2.5 VA
• Connection cable for transmitter:	max. 180 m, 3 x 1.5 mm²
• Temperature range:	0°C to +50°C
• Type of protection housing:	IP 30

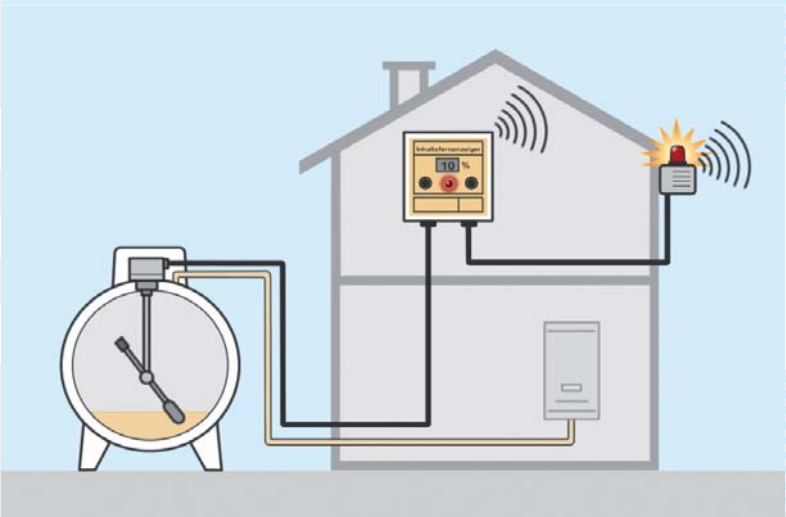
Transmitter S

• Supply:	intrinsically safe 5.3 to 9.3 V
• Temperature range:	-40°C to +60°C
• Interface:	intrinsically safe, triple core
• Type of protection housing:	IP 68
• Cable length:	6 metres

Electronic remote level gauge type IAF70	Part no.
Elektronic remote level gauge type IAF70, with transmitter S for:	
Rochester “Junior” and SRG 487 (as of construction year 02/1996)	53 191 02
Rochester “Senior”	53 194 02
Rochester “Magnetel”, WITT and FAS	53 198 02
SRG SR 705 (before year of construction 02/1996)	53 196 02
Accessories	
Indicator	53 192 01
Transmitter S for Rochester “Junior” and SRG (as of year of construction 02/1996)	53 190 02
Transmitter S for Rochester “Senior”	53 193 02
Transmitter S for Rochester “Magnetel”, WITT and FAS	53 197 02
Transmitter S for SRG SR 705 (before year of construction 02/1996)	53 195 02
Adapter for connection of transmitter Rochester “Junior” to extension 53 146 20	53 190 80

Electronic remote level gauge type IAF70

Example of use:
Cable-connected remote level indication and minimum level signalling for LPG tanks



NEW

Tank management system LPG PRO

System for tank contents determination, acquisition of operating states and remote transmission via the GSM radio network

Construction

The tank management system LPG PRO consists of a data transmitter with integrated tank probe S. In addition, the data transmitter SmartBox 5 LPG has 2 event signalling entries that can be used, if required, as inlets for metres.
The tank probe S is assembled to the connecting flange of the mechanical level indicator. The data transmitter and the tank probe are connected to each other by means of a cable.

Data transmitter SmartBox 5 LPG

GSM data transmitter with integrated explosion-proof barrier

Function

- 1 inlet for electronic tank level indicator
- 2 inlets for event signalling, e.g. pump failure or alarm of a gas alarm appliance

Technical data

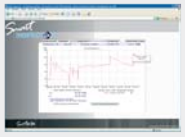
SmartBox 5 LPG

• Supply:	230 V AC 50 Hz
• Inlets:	1 inlet for electronic tank level indicator 2 inlets for gas metre, if required, or events
• Type of protection:	IP 30

Password-protected database

Messaging of filling and minimum level

Actuating of steps, monitoring of plant



Indication and evaluation of consumption

Inquiry at critical date, e.g. report at end of month

Tank probe S

Designed for assembly on the mechanical level indicator of the tank.
Tension supply via the data transmitter SmartBox 5 LPG.

Consists of: magnetic field coils, evaluation electronics and 2-digit level indicator

Technical data

Tank probe S

• Supply:	intrinsically safe 5.3 to 9.3 V
• Temperature range:	-40°C to +60°C
• Interface:	intrinsically safe, three-conductor
• Type of protection housing:	IP 68

Connection of gas metres via reed contact

Transmission of tank data via the GSM net and, as an option, connection to internet data base www.smart-inspector.com
(see catalogue tank management page 20).

Scope of delivery:
GSM data ransmitter with status display and mounting accessories

Recommended accessories (see page 15):
- SIM card not included in the scope of delivery!
- Internet data base www.smart-inspector.com
  (see catalogue tank management page 20)

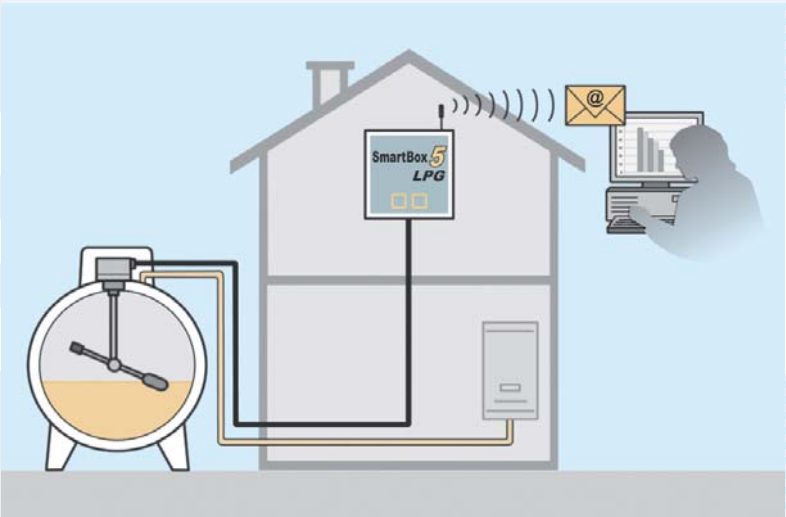
Optional accessories (see page 15):
- Additional antenna for SmartBox 4 and SmartBox 5

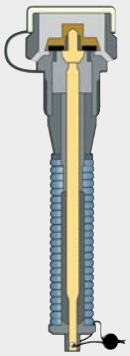
NEW

Tank management system LPG PRO	Part no.	
Tank management system LPG PRO, with tank probe S for:		
Rochester “Junior” and SRG 487 (as of construction year 02/1996)	28 701 00	
Rochester “Senior”	28 702 00	
Rochester “Magnetel”, WITT and FAS	28 703 00	
SRG SR 705 (before construction year 02/1996)	28 704 00	
Accessories		
Data transmitter SmartBox 5 LPG	28 570 00	
Additional antenna for SmartBox 4 and SmartBox 5	28 858 00	
Costs for system hosting, administration, data saving and preparation of tank data - each month	58 700 00	
Tank probe S for Rochester “Junior” and SRG (as of construction year 02/1996)	53 190 02	
Tank probe S for Rochester “Senior”	53 193 02	
Tank probe S for Rochester “Magnetel”, WITT and FAS	53 197 02	
Tank probe S for SRG SR 705 (before construction year 02/1996)	53 195 02	

Tank management system LPG PRO

Example of use:
Contents determination and remote data transmission by GSM





Safety valve PS 25 bar

Part no.

Internal safety pressure relief valve for LPG tanks

The construction of the safety valve meets the requirements of the German TRB 403, the German AD code of practice A2 and the German TRF 1996. It is suitable as safety device against overpressure for LPG tanks of group 0 (storage quantity below 3 tons). In case of a possible rise in the admitted operational overpressure in the LPG tank, LPG is discharged. The plastic protection cap delivered with the safety valve is connected to the housing by means of a loop. The protection cap is made of transparent plastic in order to keep away insects and other small animals. Two draining orifices avoid the collection of water.

The safety valves with relief obturator type A8684 have a conical nipple that can be lifted. By means of a test kit (see page 20) the adjusted response pressure of the safety valve can be checked during ongoing operation. By means of claws, the response pressure of safety valves without relief obturator can also be determined with the test kit.

Approval

- EC type approval according to PED
- TÜV component mark

Technical data

- Connector: LPG tank: 1 NPT male thread; adapter: M48 x 1.5 male thread
- Temperature range: -20°C to +65°C
- Material housing: brass (CW 617 N or CuZn40Pb2)
- Discharge rate: 3527 kg/h LPG according to DIN 51622 at discharge pressure 15.6 bar

Safety valve type 8684, with TÜV setting certificate
Without relief obturator, with transparent protection cap

1 NPT M	discharge pressure: 15.6 bar	56 112 19
1 NPT M	discharge pressure: 16.4 bar	56 112 09

Other discharge pressures from 12.1 to 18.0 bar upon request

Safety valve type A8684, with TÜV setting certificate
With relief obturator, with transparent protection cap

1 NPT M	discharge pressure: 15.6 bar	56 112 42
1 NPT M	discharge pressure: 16.4 bar	56 112 40

Other discharge pressures from 12.1 to 18.0 bar upon request

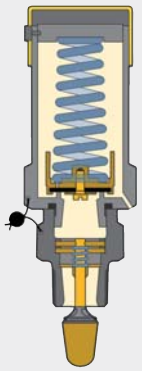
Safety valve type 8690, with TÜV setting certificate
Without relief obturator

1 1/4 NPT M	discharge pressure: 19.8 bar	56 115 01

Other discharge pressures from 12.0 to 20.0 bar upon request

Accessories

Transparent protection cap, material: plastic	56 137 05
Black protection cap, material: plastic	56 137 00
Adapter M48 x 1.5 F x G 1 1/2 F with predetermined breaking point, material: brass, for connection of a vent pipe G 1 1/2	56 083 00
Connection kit vent pipe, for internal safety relief valve 1 NPT (without copper pipe)	56 087 00



Replaceable safety valve PS 25 bar

Part no.

External safety pressure relief valve for LPG tanks

The construction of the safety valve meets the requirements of the German TRB 403, the German AD code of practice A2, the annex to the German TRB 801 no. 25 and the German TRF 1996. It is suitable as safety device against overpressure for LPG tanks of group 0 (storage quantity below 3 tons).

The replaceable safety valve type ATSV-A5005 consists of: safety valve type SV5000 and shut-off valve type SVT-A5005, with an acoustic signalling device.

Both valves are screwed to each other and sealed.

The safety valve SV5000 can be replaced under operational pressure of the LPG tank.

The safety valve is screwed into the shut-off valve and opens the shut-off cone compulsorily. In case the safety valve is replaced, the shut-off valve closes the gas flow by means of the integrated spring. As soon as the safety valve has been unscrewed, a squeaking sounds caused by the integrated acoustic signalling device which only stops if a safety valve is screwed in again.

The plastic protection cap is placed on the housing. Two draining orifices avoid the collection of water.

Approval

- EC type approval according to PED
- TÜV component mark
- Safety valve and shut-off valve type-tested, with TÜV setting certificate

Technical data

- Connector: LPG tank: 1 NPT male thread
  adapter: M54 x 2 female thread
  safety valve: M32 x 1.5 male thread
- Temperature range: -20°C to +65°C
- Material housing: brass (CW 617 N or CuZn40Pb2)
- Discharge rate: 3152 kg/h LPG at discharge pressure 15.6 bar

Safety valve

Type ATSV-A5005, with TÜV setting certificate

1 NPT M discharge pressure: 15.6 bar	56 056 19

Other discharge pressures from 15.6 to 18.0 bar upon request

Type SV5000, with TÜV setting certificate

1 NPT M discharge pressure: 15.6 bar	56 052 19

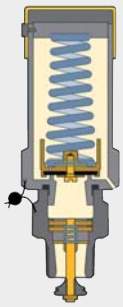
Other discharge pressures from 15.6 to 18.0 bar upon request

Shut-off valve type SVT-A5005

1 NPT M x M32 x 1.5 F	56 056 10

Accessories

Protection cap yellow, material: plastic	56 252 90
Adapter M54 x 2 M x G 1 1/2 F with predetermined breaking point	56 086 10
Adapter M54 x 2 M x 1 NPT F without predetermined breaking point	56 081 10



Replaceable safety valve ATSV5000 PS 25 bar

Part no.

External safety pressure relief valve 1“ NPT for LPG tanks

The replaceable safety valve type ATSV5000 consists of:
safety valve type SV5000 with fitted protection cap and shut-off valve type SVT5000.

Both valves are screwed to each other and sealed.

The safety valve SV5000 can be replaced under operational pressure of the LPG tank.

The safety valve is screwed into the shut-off valve and opens the shut-off cone compulsorily. In case the safety valve is replaced, the shut-off valve closes the gas flow by means of the integrated spring.

Approval

- EC type approval according to PED (for safety valve)
- Safety valve type-approved, with TÜV setting certificate

Technical data

- Connector: LPG tank: 1 or 1 1/4” NPT male thread
  adapter: M54 x 2 female thread
  safety valve / shut-off valve: M32 x 1.5 male thread
- Temperature range: -20°C to +65°C
- Material housing: brass (CW 617 N or CuZn40Pb2)
- Discharge rate: 3152 kg/h LPG at discharge pressure 15.6 bar

Safety valve type ATSV5000, with TÜV setting certificate

1 NPT M discharge pressure: 15.6 bar	56 050 19	
1 1/4 NPT M discharge pressure: 15.6 bar	56 055 19	

Other discharge pressures from 15.6 to 18.0 bar upon request

Safety valve type ATSV5000, with GOK setting certificate
For use in Poland

1 NPT M discharge pressure: 15.6 bar	56 050 20	
1 1/4 NPT M discharge pressure: 15.6 bar	56 055 20	

Safety valve type ATSV5000 with TÜV setting certificate
For use in the Czech Republic

1 NPT M discharge pressure: 15.6 bar	56 050 17	
1 1/4 NPT M discharge pressure: 15.6 bar	56 055 17	

Components
Safety valve type SV5000

1 NPT M discharge pressure: 15.6 bar	56 052 19	

Other discharge pressures upon request

Shut-off valve type SVT5000

1 NPT M x M32 x 1.5 F	56 051 00	
1 1/4 NPT M x M32 x 1.5 F	56 051 10	

Accessories

Protection cap yellow, material: plastic	56 252 90	
Adapter M54 x 2 M x G 1 1/2 F with predetermined breaking point	56 086 10	
Adapter M54 x 2 M x 1 NPT F without predetermined breaking point	56 081 10	

Safety valve PS 25 bar	Part no.
External safety pressure relief valve for LPG tanks and LPG pipes	
Approval	
• EC type approval according to PED	
• TÜV component mark	
Technical data	
• Material: housing: brass	
protection cap: plastic	
Safety valve type 3127, without type approval	
1/4 NPT M discharge pressure: 15.6 bar	56 060 19
1/4 NPT M discharge pressure: 16.4 bar	56 060 09
Safety valve, with TÜV setting certificate, with type approval	
1/2 NPT M discharge pressure: 15.6 bar type 3129	56 061 19
1/2 NPT M discharge pressure: 16.4 bar type 3129	56 061 09
3/4 NPT M discharge pressure: 15.6 bar type 3128	56 062 19
3/4 NPT M discharge pressure: 16.4 bar type 3128	56 062 09
3/4 NPT M discharge pressure: 15.6 bar type 3131	56 063 19
3/4 NPT M discharge pressure: 16.4 bar type 3131	56 063 09
Other discharge pressures from 15.6 to 18.0 bar upon request	
Protection cap yellow, for 56 060 xx	
Material: plastic	56 129 00
Protection cap yellow, for 56 061 xx and 56 062 xx	
Material: plastic	56 130 10
Protection cap for 56 063 xx	
Material: plastic	56 131 00
Adapter	
Suitable for valves 56 061 xx and 56 062 xx	
1-20 UN M, material: brass	56 080 00
For connection of a vent pipe 1/2 NPT F	
Suitable for valves 56 061 xx and 56 062 xx	
1-20 UN M, material: brass	56 080 10
For connection of a vent pipe G 1/2 F with predetermined breaking point	
Suitable for valves 56 063 xx	
1 9/16-20 UN M, material: brass	56 081 00
For connection of a vent pipe 1 NPT F	
Suitable for valves 56 063 xx	
1 9/16-20 UN M, material: brass	56 086 00
For connection of a vent pipe Rp 1 1/2 NPT with predetermined breaking point	

Test kit for internal safety valve

For determination of the response pressure of internal safety valves 1“ NPT on LPG tanks in operation.

Developed in co-operation with the German TÜV.

Function:
The M48 x 1.5 thread of the volumetric flask device is placed on the safety valve to be tested and is connected to it either directly or via the claws. The inlet part of the volumetric flask device is connected to a pressure reducer and a compressed air bottle by means of a hose assembly (the working gas is not comprised in the scope of delivery).

After opening the shut-off device, pressure can be put on the volumetric flask via a push-button valve. This pressure is increased until the safety valve opens. The pressure required for this step is shown on the manometer with maximum indicator. The response pressure of the safety valve can be determined from the tank pressure and the pressure of the volumetric flask device via an error correction curve.
A compressed air bottle is required for the test.

Consisting of: lockable transport case with inlay made of cellular material HxWxD: 460 x 350 x 160 mm, complete volumetric flask device, adapter, pressure reducer, connecting hose assembly length approx. 120 mm, manometer with maximum indicator, claws D 12 and D 16, offset screwdriver, plug-in fitting type 26 and operating manual.

Technical data

- Set pressure: pressure reducer: 14.0 bar
  relief valve at pressure reducer: 16.0 bar
- Maximum pressure working gas: 200 bar
- Admitted tank pressure: 4.0 to 12.0 bar, this corresponds to an ambient temperature of approx. -5°C to +35°C

Note

In order to guarantee a constantly safe test of the valves, the test kit for internal safety valves must be calibrated once a year. For this purpose, it is necessary to return the test kit to us indicating the reference number 56 300 60.

	Part no.
Test kit for internal safety valve	
Complete	56 300 00
Accessories	
Claws D 16	56 300 16
Claws D 12	56 300 17
Calibration of test kit	56 300 60

Test kit for vapour withdrawal valve

To check vapour withdrawal valves for LPG

Advantages and equipment

- Can be used for ultrasonic, PTC and capacitive probes
- Application in the hazardous area 1
- With German PTB certificate
- 3 compound batteries 9V
- Plastic box

	Part no.
Test kit for limit indicators	
Complete	55 218 00

Accessories

Fitting POL PS 25 bar

	Part no.
Fitting POL	
Material: brass	
POL x GF M	02 512 00
POL x pipe socket 15 mm	02 513 00
POL x 1/2 NPT F RegO 2906G	50 004 00
1/4 NPT M x POL F RegO 5761A	50 007 00
Material: brass, stainless steel	
POL x 1/4 NPT M	50 002 00

Blind plug PS 25 bar

	Part no.
For the protection of the POL connector	
Blind plug	
POL material: brass	50 169 00
POL material: plastic	50 168 00

Welding fitting, tube double fitting PS 210 bar

	Part no.
Technical data	
• Material: steel	
• Length: 100 mm	
Welding fitting	
1/4 NPT M	50 020 00
3/8 NPT M	50 021 00
1/2 NPT M	50 022 00
3/4 NPT M	50 023 00
1 NPT M	50 024 00
1 1/4 NPT M	50 025 00
1 1/2 NPT M	50 026 00
Tube double fitting	
1/4 NPT M x 1/4 NPT M	50 040 00
3/8 NPT M x 3/8 NPT M	50 041 00
1/2 NPT M x 1/2 NPT M	50 042 00
3/4 NPT M x 3/4 NPT M	50 043 00
1 NPT M x 1 NPT M	50 044 00
1 1/4 NPT M x 1 1/4 NPT M	50 045 00
1 1/2 NPT M x 1 1/2 NPT M	50 046 00

Fitting PS 25 bar

	Part no.
Technical data	
• Material: brass	
Fitting	
1 3/4 ACME M x 3/4 NPT M RegO 5765D	50 211 00
1 3/4 ACME M x 1 NPT M RegO 5765E	50 212 00
1 3/4 ACME M x 1 1/4 NPT M RegO 5765F	50 213 00
2 1/4 ACME M x 1 1/4 NPT M RegO 5767F	50 220 00
2 1/4 ACME M x 2 NPT M RegO 5767H	50 222 00
3 1/4 ACME M x 2 NPT M RegO 5769H	50 230 00

Accessories

Bushing PS 210 bar

Technical data
- Material: steel

Half bushing

	Part no.
1/4 NPT F length: 17 mm	50 060 00
3/8 NPT F length: 19 mm	50 061 00
1/2 NPT F length: 24 mm	50 062 00
3/4 NPT F length: 25 mm	50 063 00
1 NPT F length: 30 mm	50 064 00
1 1/4 NPT F length: 33 mm	50 065 00
1 1/2 NPT F length: 40 mm	50 066 00

Bushing

	Part no.
1/4 NPT F x 1/4 NPT F length: 35 mm	50 080 00
3/8 NPT F x 3/8 NPT F length: 38 mm	50 081 00
1/2 NPT F x 1/2 NPT F length: 48 mm	50 082 00
3/4 NPT F x 3/4 NPT F length: 51 mm	50 083 00
1 NPT F x 1 NPT F length: 60 mm	50 084 00
1 1/4 NPT F x 1 1/4 NPT F length: 67 mm	50 085 00
1 1/2 NPT F x 1 1/2 NPT F length: 79 mm	50 086 00

Hexagon plug PS 210 bar

Technical data
- Material: steel

Hexagon plug

	Part no.
1/4 NPT M length: 23 mm	50 120 00
3/8 NPT M length: 26 mm	50 121 00
1/2 NPT M length: 27 mm	50 122 00
3/4 NPT M length: 34 mm	50 123 00
1 NPT M length: 35 mm	50 124 00
1 1/4 NPT M length: 39 mm	50 125 00
1 1/2 NPT M length: 41 mm	50 126 00

Reducer PS 210 bar

Technical data
- Material: steel

Reducer

	Part no.
3/8 NPT M x 1/4 NPT F length: 19 mm	50 140 00
1/2 NPT M x 1/4 NPT F length: 23 mm	50 141 00
3/4 NPT M x 1/4 NPT F length: 25 mm	50 142 00
3/4 NPT M x 1/2 NPT F length: 25 mm	50 143 00
1 NPT M x 3/4 NPT F length: 27 mm	50 145 00
1 1/4 NPT M x 3/4 NPT F length: 31 mm	50 147 00
1 1/4 NPT M x 1 NPT F length: 31 mm	50 148 00
2 NPT M x 1 1/4 NPT F length: 37 mm	50 156 00

Accessories

Coupling PS 25 bar

Part no.

Technical data
- Material: brass

Coupling

3 1/4 ACME F x 1 3/4 ACME M RegO A5776	54 040 00
2 1/4 ACME F x 1 3/4 ACME M RegO M611	54 042 00
1 3/4 ACME M x 1 3/4 ACME M RegO 5765M	50 291 00

Manometer

Part no.

For installation in pipes or pressure regulators

Manometer pipe spring with explosion door, radial
Pressure measuring device according to EN 562, accuracy class 2.5
With pressure relief orifice “S2” in the back wall

Display range 0-25.0 bar Ø 50 mm G 1/4 M	53 004 14

Manometer gasket

Part no.

For manometer and cylinders connectors

Manometer gasket

G 1/4 copper	53 045 00

Test certificate

Part no.

According to DIN EN 10204

Test certificate

Inspection certificate according to DIN EN 10204-3.1	59 900 00
Certificate of conformity according to DIN EN 10204-2.1	59 921 00
Test certificate according to DIN EN 10204-2.2	59 922 00

Article list

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
02 512 00	21	50 156 00	22	53 194 02	13	56 055 20	18
02 513 00	21	50 161 01	4	53 195 02	13, 15	56 056 10	17
28 570 00	15	50 162 01	4	53 196 02	13	56 056 19	17
28 701 00	15	50 168 00	21	53 197 02	13, 15	56 060 09	19
28 702 00	15	50 169 00	21	53 198 02	13	56 060 19	19
28 703 00	15	50 171 00	3	53 250 10	5	56 061 09	19
28 704 00	15	50 176 00	3	53 253 00	5	56 061 19	19
28 858 00	15	50 176 15	3	54 002 00	3	56 062 09	19
50 002 00	21	50 211 00	21	54 010 00	3	56 062 19	19
50 004 00	21	50 212 00	21	54 010 15	3	56 063 09	19
50 007 00	21	50 213 00	21	54 010 17	3	56 063 19	19
50 020 00	21	50 220 00	21	54 010 27	3	56 080 00	19
50 021 00	21	50 222 00	21	54 014 00	5	56 080 10	19
50 022 00	21	50 230 00	21	54 014 10	5	56 081 00	19
50 023 00	21	50 291 00	23	54 016 00	4	56 081 10	17-18
50 024 00	21	50 500 00	4	54 026 00	5	56 083 00	16
50 025 00	21	53 004 14	23	54 032 00	4	56 086 00	19
50 026 00	21	53 045 00	23	54 033 00	4	56 086 10	17-18
50 040 00	21	53 100 25	10	54 034 00	4	56 087 00	16
50 041 00	21	53 110 04	10	54 035 00	4	56 112 09	16
50 042 00	21	53 111 05	10	54 040 00	23	56 112 19	16
50 043 00	21	53 112 07	10	54 042 00	23	56 112 40	16
50 044 00	21	53 112 27	10	54 110 00	4	56 112 42	16
50 045 00	21	53 112 43	10	54 111 00	4	56 115 01	16
50 046 00	21	53 112 44	10	54 112 00	4	56 129 00	19
50 060 00	22	53 112 47	10	54 113 00	4	56 130 10	19
50 061 00	22	53 112 49	10	54 250 00	6	56 131 00	19
50 062 00	22	53 116 00	10	55 160 10	6	56 137 00	16
50 063 00	22	53 131 00	11	55 160 47	6	56 137 05	16
50 064 00	22	53 139 10	11	55 164 00	6	56 252 90	17-18
50 065 00	22	53 145 00	10	55 164 47	6	56 300 00	20
50 066 00	22	53 146 00	10	55 203 00	8	56 300 16	20
50 080 00	22	53 146 01	10	55 204 16	8	56 300 17	20
50 081 00	22	53 146 20	10	55 212 00	8	56 300 60	20
50 082 00	22	53 147 00	10	55 212 17	8	58 700 00	15
50 083 00	22	53 147 01	10	55 212 45	8	59 900 00	23
50 084 00	22	53 147 10	10	55 218 00	20	59 921 00	23
50 085 00	22	53 148 00	10	55 219 00	8	59 922 00	23
50 086 00	22	53 149 00	10	55 220 00	7		
50 120 00	22	53 150 00	11	55 220 05	7		
50 121 00	22	53 152 00	11	55 220 11	7		
50 122 00	22	53 152 32	11	55 220 14	7		
50 123 00	22	53 153 00	11	55 220 31	7		
50 124 00	22	53 154 00	11	55 220 32	7		
50 125 00	22	53 155 00	11	55 220 71	7		
50 126 00	22	53 166 20	10	56 050 17	18		
50 140 00	22	53 166 30	10	56 050 19	18		
50 141 00	22	53 172 01	10	56 050 20	18		
50 142 00	22	53 190 02	13, 15	56 051 00	18		
50 143 00	22	53 190 80	13	56 051 10	18		
50 145 00	22	53 191 02	13	56 052 19	17-18		
50 147 00	22	53 192 01	13	56 055 17	18		
50 148 00	22	53 193 02	13, 15	56 055 19	18		

Abbreviations and units

Abbreviations and units in the catalogue

AC	=	alternating current
ATEX	=	EC Directive 94/9/EC for equipment and protective systems intended for use in potentially explosive atmospheres
DN	=	nominal diameter in mm
DVGW	=	German Technical and Scientific Association for Gas and Water
F	=	female thread
G	=	parallel female or male thread according to EN ISO 228-1
GF	=	large German cylinder connector, coupling nut W21.8 x 1/14" lh (connector of 33 kg LPG cylinder)
Hz	=	hertz
ID	=	inner diameter
kg/h	=	nominal flow in kilogramme per hour
Komb.A	=	combined connector for large and small German cylinders, W21.8 x 1/14" lh coupling nut
lh	=	left-hand thread
M	=	male thread
NPT	=	taper pipe thread according to ANSI B.1.20.1 - 1983
OD	=	outer diameter
PED	=	EC Pressure Equipment Directive 97/23/EC
POL	=	POL connector of pressure regulators according to CGAV-1
PS	=	maximum admitted pressure (before: PN)
PTB	=	German national metrology institute providing scientific and technical services
Rp	=	parallel female thread according to EN 10226-1
TRF	=	German technical regulation for LPG
TÜV	=	German technical inspection association
V	=	volt
VA	=	volt - ampere = watt

Notes

Notes

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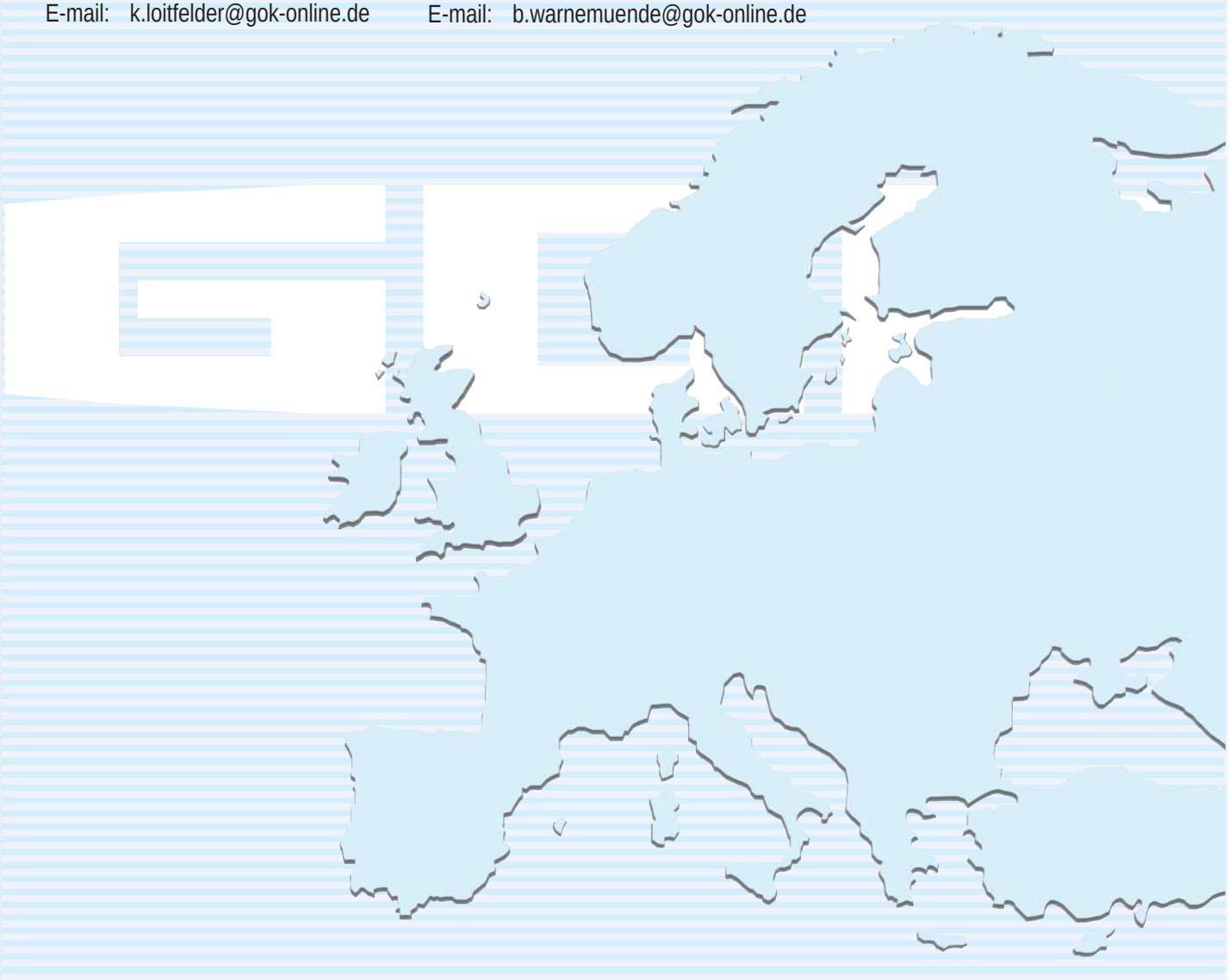

Index

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