

# GOK



# OIL

Components · Solutions · Systems

FOR **OIL FIRING INSTALLATIONS**

Made in GERMANY

# Picture price lists 2011

In the **illustrated price lists 2011** we offer a complete and continuous product range for liquefied and gaseous energy.

To support you even better in selecting the right product we extended the new sales documents:

- Large number of new products in all sectors
- New self-explaining use and application descriptions
- Even more information on the individual products concerning application areas, product benefits, features and technology
- Further optimised product tables for quick product selection and improved price overview

The picture price lists 2011 are only available in German language.

The **illustrated price lists 2011 - Components/Solutions/Systems** are available for:



Oil firing installations



LPG installations,  
including warming,  
burning, soldering



LPG tank equipment



Leisure time –  
caravan, camping, marine

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**NEW**



## GOK online

Our new homepage under  
[www.gok-online.de](http://www.gok-online.de).

Please take a look!

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## NEW

in our product range:

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Marked products are suitable for use with biogenic fuels.

For detailed information on use see page 110 of this price list.

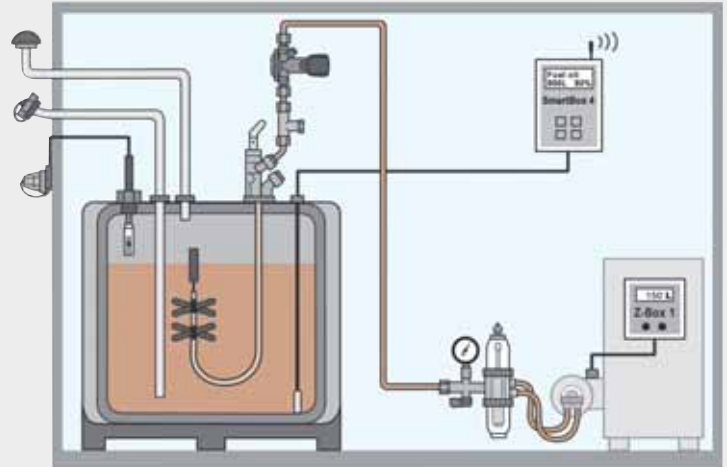
All texts and dimensions are subject to change. We reserve the right to constructional modifications. The illustration of products as well as application and product descriptions are exemplary. We will not assume any liability for typographical and other errors!

Upon publishing this catalogue, previous brochures are no longer applicable!

# Fields of application for oil firing installations

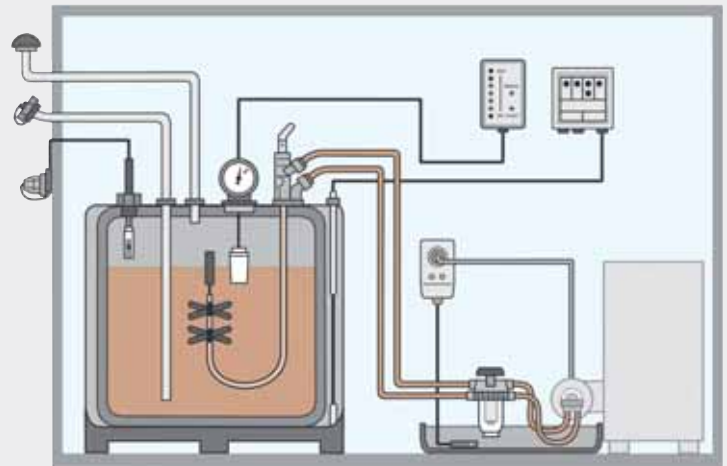
## Single conduit system with the following functions:

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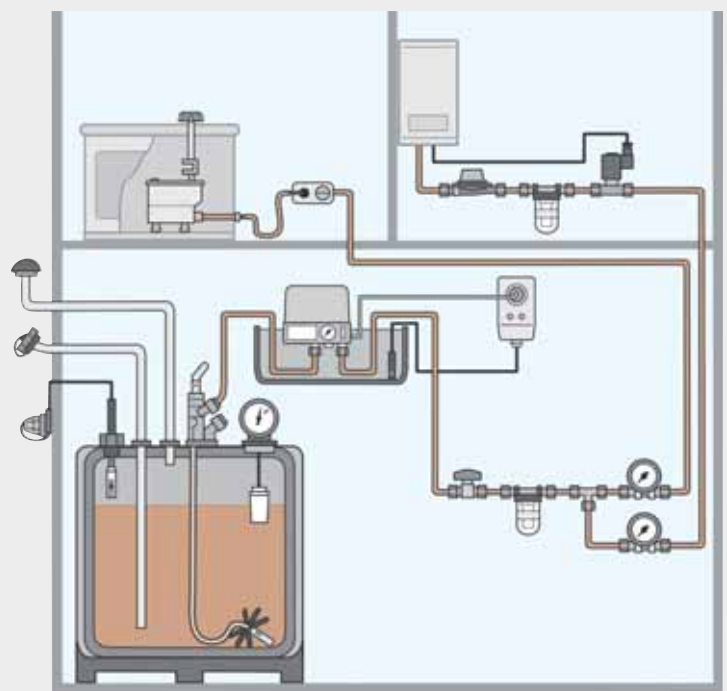
## Double conduit system with the following functions:

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## Central oil supply with the following functions:

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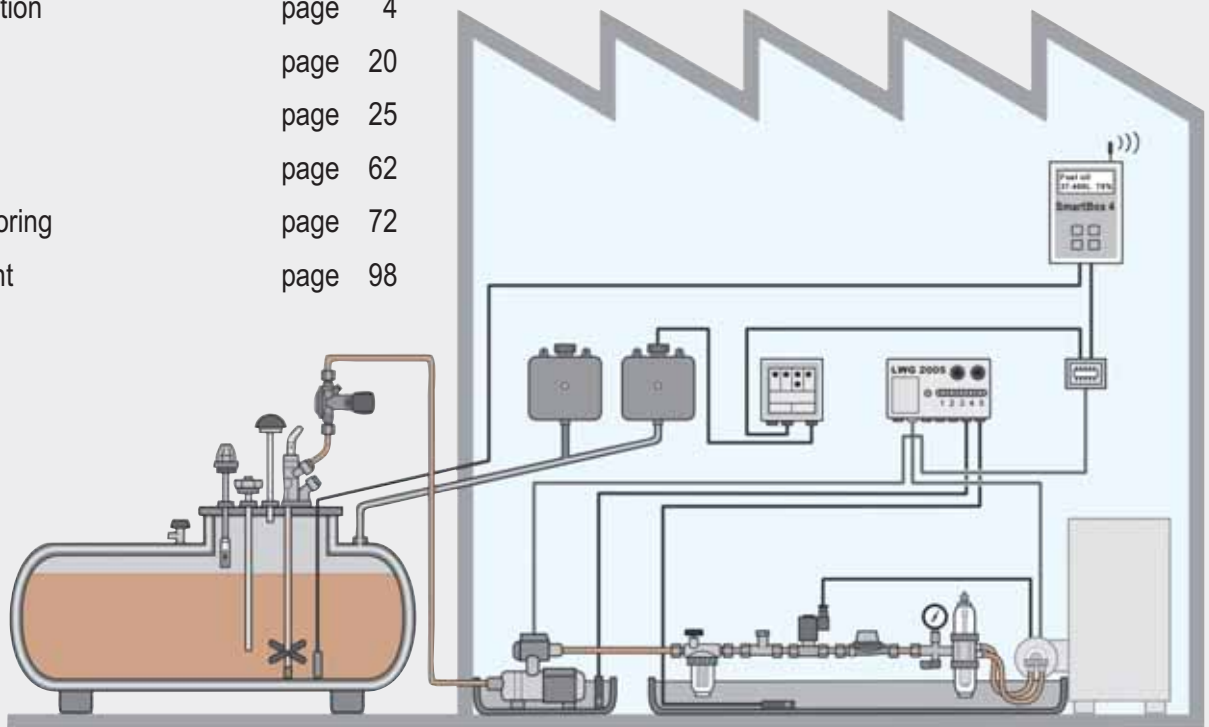
# Fields of application for oil firing installations

## Meters, test equipment and auxiliaries

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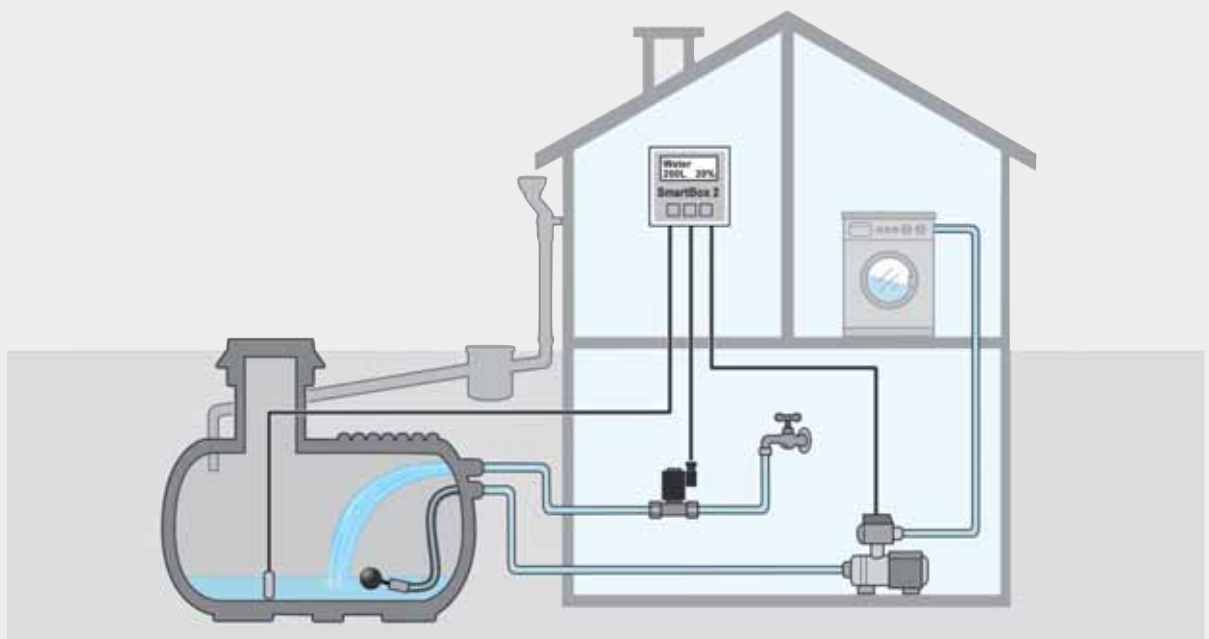
## Industrial system with the following functions:

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## Tank management

page 98



# Filling and ventilation



## Filling hole plug for low-sulphur fuel oil EL

For tank filling devices

### Advantages and equipment

- With chain
- Colour of the plug: green, with the inscription "Heizöl EL schwefelarm" (low-sulphur fuel oil EL)

### Filling hole plug for low-sulphur fuel oil EL

Rp 2 F x G 2 1/2 M with NBR gasket  
Rp 2 F x G 2 1/2 M with fiberboard gasket PS 10 bar

### Accessories

Cover for filling hole plug

With chain

G 2 1/2 F with NBR gasket  
G 2 1/2 F with fiberboard gasket

Part no.	I	II	Z
15 030 03	x	x	x
15 030 04	x	x	x
15 030 33	x	x	x
15 030 34	x	x	x



## Filling hole plug

For tank filling devices

### Advantages and equipment

- With chain

### Filling hole plug

Version for use in Germany and Italy

Rp 2 F x G 2 1/2 M  
Rp 2 F x G 2 1/2 M short form  
G 2 M x G 2 1/2 M for spherical tanks

Version for use in Austria

Rp 2 F x Rd 72 x 1/6 Shell thread

Version for use in the Benelux countries

Rp 2 F x G 2 M  
Rp 2 F x G 2 M with green cover

Version for use in Switzerland

Rp 2 F x G 2 3/4 M

Version for use in France

Rp 2 F x bayonet socket

Part no.	I	II	Z
15 030 00	x	x	x
15 036 00	x	x	x
15 030 01	x	x	x
15 038 00	x	x	x
15 031 00	x	x	x
15 031 10	x	x	x
15 032 00	x	x	x
15 004 00	x	x	x



## Bayonet filling hole plug

For tank filling devices of fuel oil EL, fuel EL A Bio, diesel and FAME

Consisting of: male coupling VK 50 according to DIN 28450 (EN 14420-6) and cap MB 50, lockable, with sealing rings

### Advantages and equipment

- With chain

### Technical data

- Material: male coupling: brass  
cap: plastic or brass

### Bayonet filling hole plug

G 2 F x VK 50 x MB 50 with grey plastic cap  
G 2 F x VK 50 x MB 50 with brass cap, PS 16 bar

Part no.	I	II	Z
15 041 00	x	x	x
15 041 10	x	x	x



# Filling and ventilation



## Filling hole plug for limit indicator

For tank filling devices of fuel oil EL, fuel EL A Bio, diesel and FAME  
Consisting of: integrated limit indicator connector type 906, male coupling VK 50 according to DIN 28450 (EN 14420-6) and cap, lockable

### Advantages and equipment

- With chain

### Technical data

- Material: male coupling: brass  
cap: plastic

### Filling hole plug for limit indicator

G 2 F x VK 50 x connector type 906

Part no.	I	II	Z
15 029 00	x	x	x



## Dip tube plug

For dip orifices on tanks for fuel oil EL

### Advantages and equipment

- With chain

### Dip tube plug

Version for use in Europe

Rp 1 F x G 1 1/4 M

G 1 M x G 1 1/4 M for spherical tanks

Part no.	I	II	Z
15 037 00	x	x	x
15 035 00	x	x	x



## Vent cap

For the protection of the vent pipe against dirt, weathering effects and animals

### Note

- The version with sieve is not permitted for use in Germany!

### Vent cap

Nonferrous metal version

Without sieve

Rp 1 F

Rp 1 1/4 F

Rp 1 1/2 F

Rp 2 F

With sieve

Rp 1 F

Rp 1 1/4 F

Rp 1 1/2 F

Rp 2 F

Plastic version

Without sieve

Rp 1 1/4 F

Rp 1 1/2 F

Rp 2 F

With sieve

Rp 1 1/4 F

Rp 1 1/2 F

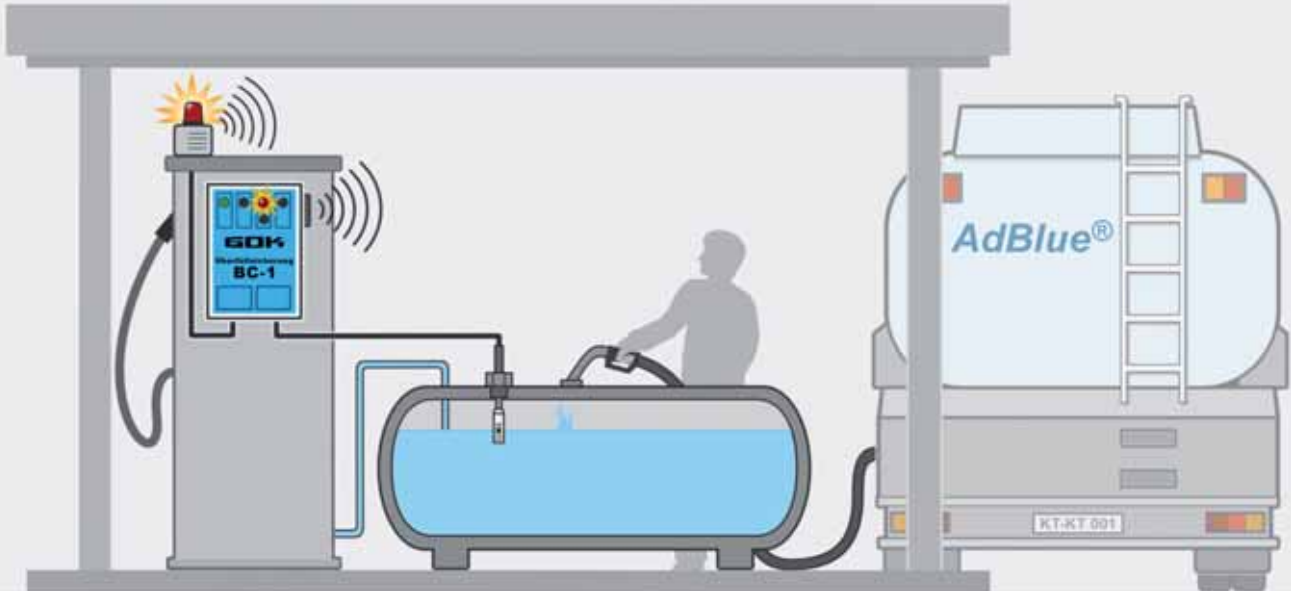
Rp 2 F

G 2 M

Part no.	I	II	Z
15 044 00	x	x	x
15 045 00	x	x	x
15 043 00	x	x	x
15 046 00	x	x	x
15 044 01	x	x	x
15 045 01	x	x	x
15 043 01	x	x	x
15 046 01	x	x	x
15 050 00	x	x	x
15 051 00	x	x	x
15 052 00	x	x	x
15 050 01	x	x	x
15 051 01	x	x	x
15 052 01	x	x	x
15 052 03	x	x	x



## Filling and ventilation



### Overfilling safety device type BC-1

#### Sample application:

The overfilling safety device type BC-1 monitors liquid media and triggers a visual and acoustic alarm when the set filling level is reached.  
The example shows a special solution of an AdBlue® tank system.



# Filling and ventilation



## Overfilling safety device type BC-1

For monitoring tanks with liquid media as an alarm device during the filling process

Consisting of: indicating unit with probe

Operating materials at medium temperatures of -20 °C to +50 °C:

- Urea solution according to DIN 70070
- Fuel oil EL according to DIN 51603-1
- Fuel oil S according to DIN 51603-3
- Diesel fuel according to EN 590
- Biodiesel / fatty acid methyl esters (FAME) according to EN 14213 and EN 14214
- Vegetable oils
- Lubricants
- Hydraulic oils
- Thermal oils
- Oil-in-water mixtures

### Advantages and equipment

- Visual and acoustic alarm upon media contact with the probe sensor in a tank
- Acknowledgement button for the acoustic alarm (visual alarm may not be acknowledged according to DIBt approval principles for overfilling safety devices before emerging/taking out)
- Potential-free relay contact for connection, e.g. to an external acoustic and/or visual signal transmitter or an external operation lamp
- Probe with stainless steel stand pipe and metal-encapsulated PTC sensor
- Probe length 250 mm, cable length 5 m

### Approval

- General building-authority approval no. Z-65.11-428
- Belgium: 99/H031/09030901

### Technical data

- Supply voltage: 230 V AC 50 Hz
- Connection: G 1 male thread

### Overfilling safety device type BC-1

Installation of box inside building, type of protection IP 30

Complete

15 700 00

Installation of box outside building, type of protection IP 65

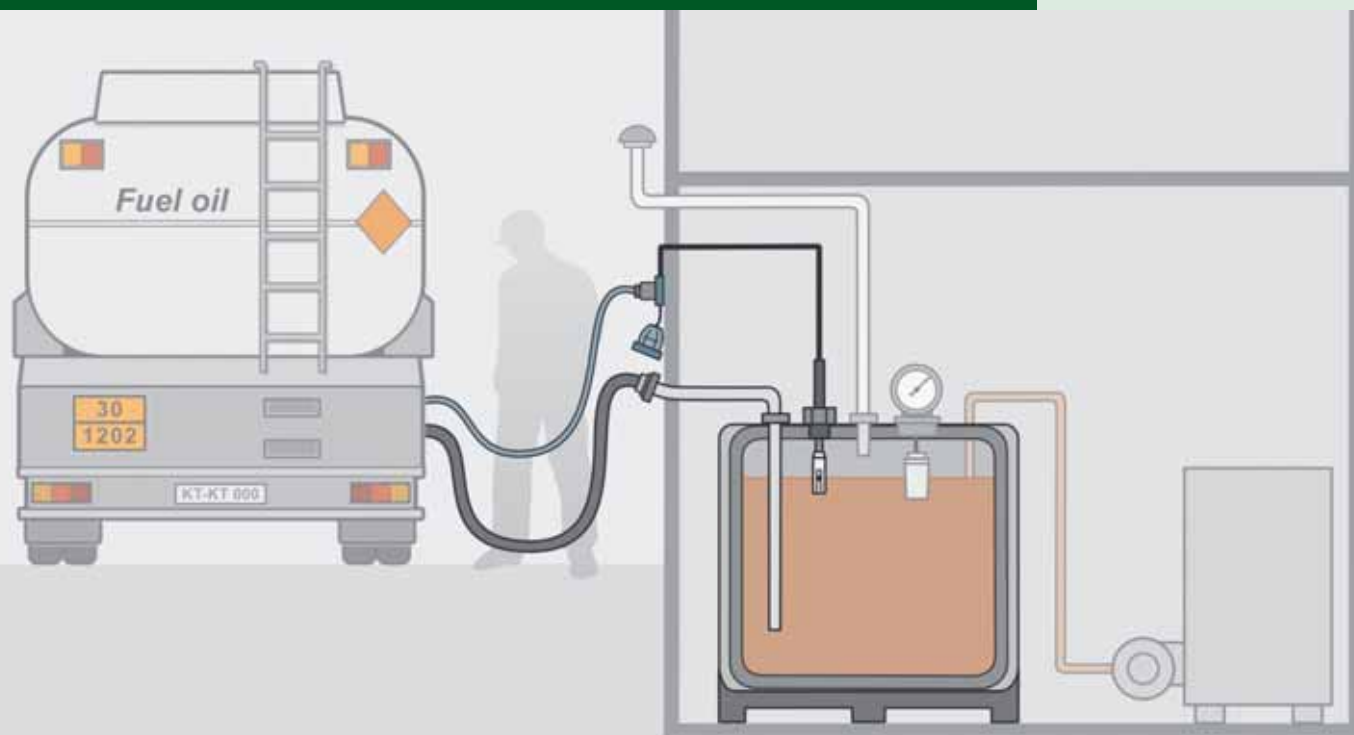
Complete

15 705 00

Different probe and cable lengths, available upon request.



## Filling and ventilation



### Limit indicator

#### Sample application:

Type GWD limit indicator as safety device against overfilling of the storage tank for fuel in connection with the overfill sensor (control device) on the road tank truck (transport tank).

# Filling and ventilation

## Remark on limit indicators

The overfilling of tanks for liquid fuels must be prevented in accordance with the regulations for the protection of water against impurities. This basic requirement is met if tankers are equipped with an overfill sensor that automatically protects the tank from overfilling through interaction with a limit indicator specified by TRwS 779 (E TRwS 791/DIN 4755), as is shown in the image on the left.

Limit indicators are safety installations. They are sensors on the tank with effect on the overfill protection of a tanker and automatically interrupt together with the overfill protection the filling process before reaching the permitted filling level and therefore fulfill the function of overfill protection.

The limit indicators according to EN 13616 which serve as sensors for storage tanks with current interfaces as part of the overfill protection type B1, correspond with the TRbF 511 limit indicators in their structure. GWG type limit indicators meet both the EN 13616 quality requirements as well as those of TRbF 511.

The adjusting dimensions for the respective tanks should be taken from the installation and operating manual.



with unassembled wall fitting



with assembled wall fitting

## Limit indicator type GWD

As safety device against overfilling

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6
- FAME according to EN 14213 and EN 14214
- Diesel fuel according to EN 590 and DIN 51628
- Vegetable oils

Field of application:

- Battery tanks according to DIN 6620
- Site-built steel tanks for above-ground storage according to DIN 6625-1 and DIN 6625-2, ÖNORM C 2117
- Welded stationary pressureless tanks made from thermoplastics according to EN 12573-1, EN 12573-2, EN 12573-3, EN 13341, EN 15724
- Above-ground GRP tanks according to EN 13121, part 1 to 3
- Other tanks with a general technical approval

Approval

- Belgium: 99/H031/03060502
- Type test according to EN 13616

Technical data

- Tank connection: G 1 male thread
- Probe length: 305 mm

Note

- Testing device for limit indicator, see part no. 15 098 00.

Limit indicator type GWD

With unassembled wall fitting type 905

Connection cable 1200 mm

Connection cable 4700 mm

Without wall fitting

Connection cable 1200 mm

Connection cable 4700 mm

With assembled wall fitting type 905

Completely wired

Part no.

I

II

Z

15 080 00	x	x	x
15 305 00	x	x	x
15 080 04	x	x	x
15 305 04	x	x	x
15 080 10	x	x	x

# Filling and ventilation

**NEW**


## Limit indicator type GWD with level gauge type FSA

Part no.

I

II

Z

As safety device against overfilling of tanks, used in combination with the filling safety device at road tank trucks, as well as a device to determine the filling level with indication of the filling height

Operating materials:

- Light fuel oil EL according to DIN 51603-1
- Light fuel oil EL A Bio according to DIN V 51603-6
- Diesel according to DIN EN 590 and DIN 51628
- FAME according to DIN EN 14213 and DIN EN 14214
- Vegetable oil

Field of application:

- Battery tanks according to DIN 6620
- Steel tanks assembled at the place of destination for overground storage according to DIN 6625-1 and DIN 6625-2, ÖNORM C 2117
- Welded stationary unpressurized tanks made of thermoplastics according to DIN EN 12573-1, DIN EN 12573-2, DIN EN 12573-3, DIN EN 13341, DIN EN 15724
- Overground GRP tanks according to DIN EN 13121, parts 1 to 3
- Other tanks in connection with a general building-authority approval

Advantages and equipment

- Limit indicator and level gauge combined in one unit
- Determination of filling height following the float principle
- Later marking of the maximum filling height which corresponds to the maximum admitted filling volume
- Smell-free version
- The level gauge is at the same time the mounting part for the limit indicator of type GWD (e.g. part no. 15 304 00).

A free connector at the tank can be used if the tank wall is no longer transparent.

Approval

- Type test according to EN 13616 for the limit indicator

Technical data

- Measuring range of filling level: 0 to 250 cm
- Measuring accuracy:  $\pm 3\%$
- Tight at test pressure: up to 100 mbar
- Float diameter: 31 mm
- Material: housing: ABS  
float: HDPE
- Material number spring: 1.4310
- Tank connector: G 1 1/2 male thread
- Probe length limit indicator: 305 mm

Note

- Test equipment for limit indicator, see part no. 15 098 00.

Limit indicator type GWD with level gauge type FSA  
with unassembled wall fitting type 905

Connection cable 4700 mm

15 278 00

x

x

x

# Filling and ventilation

**NEW**


## Exchange limit indicator type GWD

For the exchange of a faulty limit indicator in an existing tank panel or insert using the existing fastening components for a probe tube with a diameter of 10 mm

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6
- FAME according to EN 14213 and EN 14214
- Diesel fuel according to EN 590 and DIN 51628
- Vegetable oils

Field of application:

- Battery tanks according to DIN 6620
- Site-built steel tanks for above-ground storage according to DIN 6625-1 and DIN 6625-2, ÖNORM C 2117
- Welded stationary pressureless tanks made from thermoplastics according to EN 12573-1, EN 12573-2, EN 12573-3, EN 13341, EN 15724
- Above-ground GRP tanks according to EN 13121, part 1 to 3
- Other tanks with a general technical approval

Approval

- Belgium: 99/H031/03060502
- Type test according to EN 13616

Technical data

- Connection cable: 4700 mm

Note

- Without insert

## Exchange limit indicator type GWD

Without wall fitting

Probe length 305 mm

Probe length 360 mm

Part no.

I

II

Z

15 304 00

15 304 10

x

x

x

x

x

x

# Filling and ventilation



## Limit indicator type GWS

As a safety device against overfilling

Operating materials:

- Fuel oil EL according to DIN 51603-1 and DIN V 51603-6
- FAME according to EN 14213 and EN 14214
- Diesel fuel according to EN 590 and DIN 51628
- Petrol fuel according to EN 228, DIN 51600, DIN 51626-1 and DIN 51626-2

Field of application:

- Battery tanks according to DIN 6620
- Underground and above-ground cylindrical steel tanks in horizontal position according to DIN 6608-1, DIN 6608-2, DIN 6616, DIN 6617, DIN 6624-1, DIN 6624-2, DIN EN 12285-1 and DIN EN 12285-2
- Site-built steel tanks for above-ground storage according to DIN 6625-1 and DIN 6625-2, ÖNORM C 2117
- Cylindrical steel tanks in upright position according to DIN 6618-1, DIN 6618-2, DIN 6618-3, DIN 6619-1, DIN 6619-2, DIN 6623-1 and DIN 6623-2, ÖNORM C 2116
- Above-ground cylindrical flat-bottomed tanks made from metallic materials according to DIN 4119-1 and EN 1993-4-2
- Above-ground GRP tanks according to EN 13121, part 1 to 3
- Other tanks with a general technical approval

Approval

- Belgium: 99/H031/03060501
- EC type test number according to 94/9/EC (ATEX): EX5 03 02 18968 006 X
- Type test according to EN 13616

Technical data

- Tank connection: G 1 male thread

Note

- Testing device for limit indicator, see part no. 15 098 00.

Limit indicator type GWS

With assembled pipe fitting type 904, colour: grey

Probe length 400 mm

Probe length 700 mm

Probe length 800 mm

Probe length 900 mm

Probe length 1000 mm

With assembled pipe fitting type 904, colour: yellow

Probe length 400 mm

Probe length 700 mm

Probe length 1000 mm

With height-adjustable pipe fitting type 904, colour: grey

Height adjustment using a telescopic tube

Probe length 700 mm + telescope length 170 - 600 mm

Probe length 1000 mm + telescope length 170 - 760 mm

With unasssembled wall fitting type 905

Probe length 400 mm

Probe length 700 mm

Probe length 1000 mm

Upon request, probe lengths from 100 mm to 3000 mm are available as a special design.

Part no.

I

II

Z



with assembled  
pipe fitting



with tele-  
scopic tube



with unasssembled  
wall fitting

15 080 40	x	x	x
15 080 41	x	x	x
15 080 43	x	x	x
15 080 44	x	x	x
15 080 42	x	x	x
15 080 60	x	x	x
15 080 61	x	x	x
15 080 62	x	x	x
15 081 41	x	x	x
15 081 42	x	x	x
15 080 80	x	x	x
15 080 81	x	x	x
15 080 82	x	x	x

# Filling and ventilation



## Cable connection fitting

For the extension of 2-wire power and signal lines up to 4 mm<sup>2</sup>

### Advantages and equipment

- For LAG as an indicator cable for type LAG 2000 A
- For limit indicator as a connection cable for type GWD

### Technical data

- Protection class: IP 54

### Cable connection fitting

Complete

Part no.		I	II	Z
15 379 00		x	x	x



## Connection device for limit indicator

Without cable

### Connection device for limit indicator

Fig. 1, plug-in connector for connection to limit indicator fitting type 903

Fig. 2, limit indicator fitting for pipe mounting grey plastic type 904

Fig. 3, limit indicator fitting for wall mounting grey plastic type 905

Part no.		I	II	Z
15 099 35		x	x	x
15 082 06		x	x	x
15 080 09		x	x	x



## Wall door for filling hole plug

For protecting the filling hole plug and limit indicator fitting against unauthorised access

### Technical data

- Material: galvanised steel

### Wall door for filling hole plug

310 x 310 mm

Part no.		I	II	Z
18 205 00		x	x	x



## Alarm whistle

As acoustic overfill sensor for storage tanks

### Approval

- Belgium: 99/H031/03060503

### Technical data

Connection:

- 1 = G 1 1/4 male thread
- 2 = G 1 1/2 male thread
- 3 = G 1 1/4 female thread

### Note

- Not suitable for storage tanks in Germany!

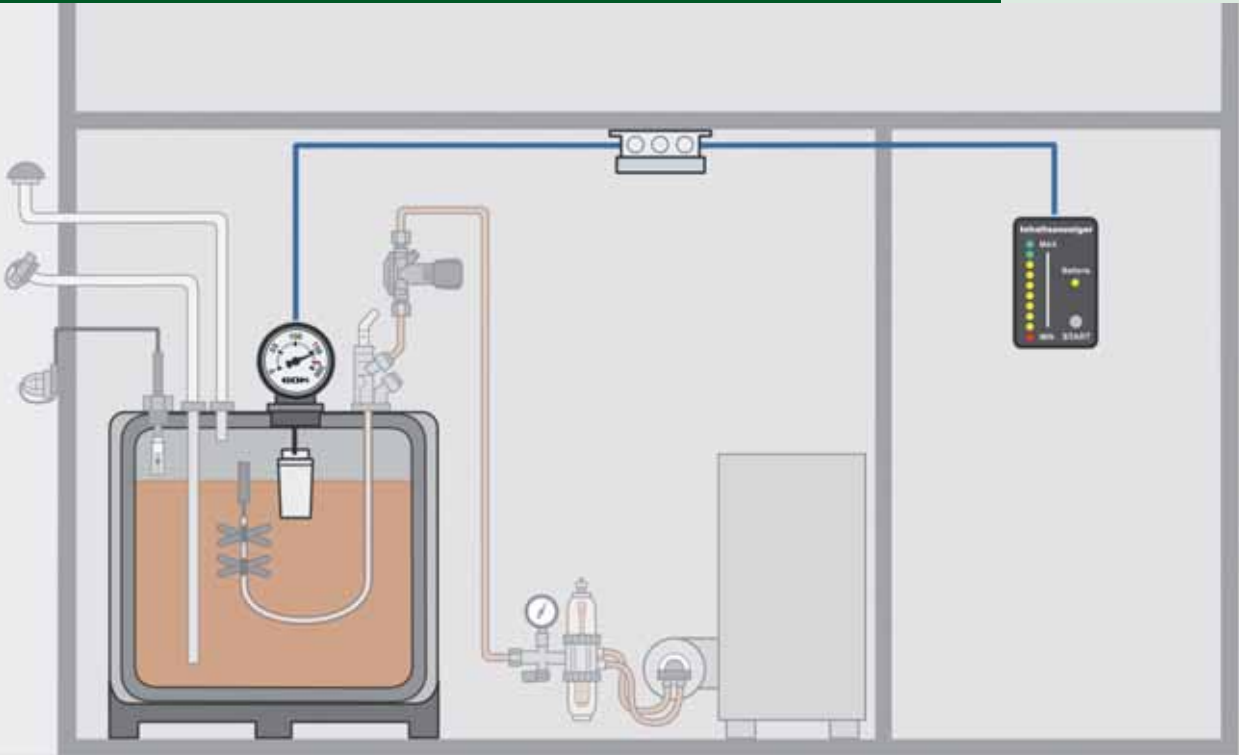
### Alarm whistle

Complete

Part no.		I	II	Z
15 087 00		x	x	x



## Filling level and content measurement



### Level gauge with electronic remote indicator type DC-1

#### Sample application:

Double contents check by means of DC-1:

The filling level is indicated on the tank by means of a mechanical display of the level gauge.

The battery-operated LED display is fitted outside the tank storage room.

# Filling level and content measurement



## Level gauge with electronic remote indicator type DC-1

Analogue, mechanical level gauge with electronic remote transmission to a display with light diodes

Consisting of: electronic remote display unit with light diodes, level gauge (see e.g. part no. 15 076 00), connection cable 2 x 5 m, 9 V block battery and mounting accessories

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6
- Diesel fuel according to EN 590 and DIN 51628
- FAME according to EN 14213 and EN 14214
- Vegetable oils
- Waste oil
- Other water-endangering non-flammable liquids
- Rain water

Advantages and equipment

- Two displays
- Determination of the filling level according to the float principle
- Subsequent indication of the maximum filling level which corresponds to the maximum permitted filling volume
- Smell-free version
- Remote transmission up to 50 m
- Tank-specific adjustment
- Easy installation

Technical data

- Measuring range of filling level: 0 to 200 cm
- Measuring accuracy:  $\pm 5\%$
- Tight at test pressure: up to 100 mbar
- Float diameter: 38 mm
- Material: housing: ABS  
float: PE-HD
- Material number spring: XC 80 steel tool

## Level gauge with electronic remote indicator type DC-1

Tank connection G 1 1/2 male thread

Tank connection G 2 male thread

Part no.

I

II

Z

15 186 00

x

x

x

15 187 00

x

x

x

## Retrofit set type DCN-1

For the subsequent installation of an analogue, mechanical level gauge with electronic remote transmission to a display unit with light diodes type DC-1 in smell-free models, for plastic oil tanks without a free screw-in opening

Advantages and equipment

- With mounting accessories

Note

- Operating materials and technical data, see part no. 15 186 00.

## Retrofit set type DCN-1

Complete

Part no.

I

II

Z

15 189 00

x

x

x



# Filling level and content measurement



## Level gauge

For the display of the filling level, with a marking of the maximum filling level

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6
- Diesel fuel according to EN 590 and DIN 51628
- FAME according to EN 14213 and EN 14214
- Vegetable oils
- Waste oil
- Other water-endangering non-flammable liquids
- Rain water

### Advantages and equipment

- Determination of the filling level according to the float principle
- Subsequent indication of the maximum filling level which corresponds to the maximum permitted filling volume
- Smell-free version

### Technical data

- Measuring range of filling level: 0 to 200 cm
- Measuring accuracy:  $\pm 5\%$
- Tight at test pressure: up to 100 mbar
- Float diameter: 38 mm
- Material: housing: ABS  
float: PE-HD
- Material number spring: XC 80 steel tool

## Level gauge

Tank connection G 1 1/2 male thread

Tank connection G 2 male thread

Part no.

I

II

Z

15 076 00

x

x

x

15 077 00

x

x

x

## Tank spy

Part no.

I

II

Z

For the subsequent installation of smell-free level gauge on a plastic oil tank without a free screw-in opening

### Advantages and equipment

- With mounting accessories

### Note

- Operating materials and technical data, see part no. 15 076 00.

## Tank spy

Complete

15 085 00

x

x

x



# Filling level and content measurement

**NEW**


## Level gauge type FSA

For mechanical determination of the filling level with indication of filling height in unpressurized tanks

Operating materials:

- Light fuel oil EL according to DIN 51603-1
- Light fuel oil EL A Bio according to DIN V 51603-6
- Diesel according to DIN EN 590 and DIN 51628
- FAME according to DIN EN 14213 and DIN EN 14214
- Vegetable oil
- Used oil
- Other water-endangering non-flammable liquids

Advantages and equipment

- High measuring accuracy with new measuring technique
- Determination of filling height following the float principle
- Later marking of maximum filling height which corresponds to the maximum admitted filling volume
- Smell-free version

Technical data

- Measuring accuracy:  $\pm 3\%$
- Tight at test pressure: up to 100 mbar
- Float diameter: 31 mm
- Material: housing: ABS  
float: HDPE (white) or PP (black)
- Material no. spring: 1.4310

Note

- To protect the float and its cord against twisting during on-going filling, a guide pipe can be mounted to the level gauge type FSA. If needed, please ask for the guide pipe with required length.

Level gauge type FSA

Measuring range 0 to 250 cm

Tank connection G 1 1/2 male thread

Tank connection G 2 male thread

Measuring range 0 to 160 cm

Tank connection G 1 1/2 male thread

Tank connection G 2 male thread

For rainwater with PP float

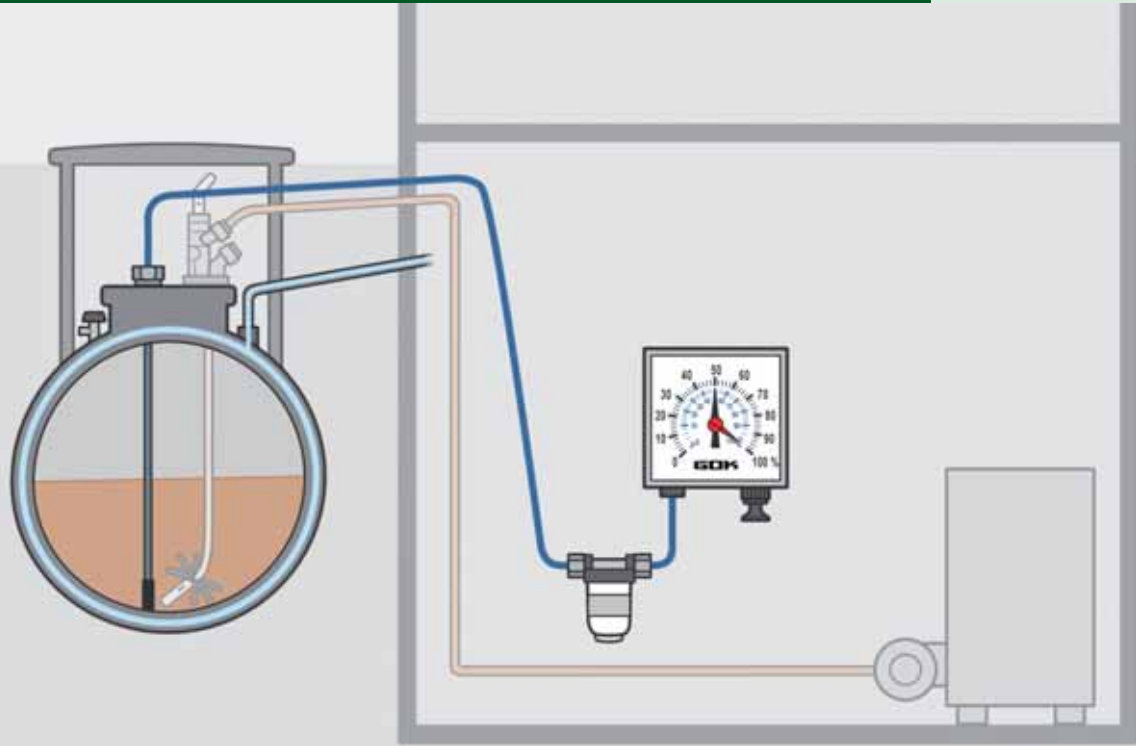
Measuring range 0 to 250 cm

Tank connection G 1 1/2 male thread

Tank connection G 2 male thread

Part no.	I	II	Z
15 276 00	x	x	x
15 277 00	x	x	x
15 276 01	x	x	x
15 277 01	x	x	x
15 276 02			
15 277 02			

## Filling level and content measurement



## Pneumatic level gauge type IAP

### Sample application:

### Remote indication of tank contents in an underground oil tank.

# Filling level and content measurement

**NEW**

## Pneumatic level gauge type IAP

For the remote indication of the filling level in pressureless tanks with the display of the filling level

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Diesel fuel according to EN 590
- FAME according to EN 14213 and EN 14214
- Other non-flammable liquids under the following conditions:  
liquid fumes have a neutral reaction against plastics (PA, PS, PE)  
as well as Cu, Zn and Sn alloys and elastomers

### Advantages and equipment

- With zero-point correction
- Determination of filling level by measuring the hydrostatic liquid pressure at the bottom of the tank through generated pneumatic pressure
- Adjustment display for easy consumption control
- Capsule measurement values with an overpressure safety device
- Measurement scale for cylindrical and rectangular tanks
- Remote measurement up to 50 m

### Technical data

- Measuring range of filling level: 0 to 100%
- Measuring accuracy:  $\pm 3\%$  of the scale end value
- Material of housing: plastic
- Measuring range continuously adjustable from 900 to 3000 mm tank height at a liquid density of  $840 \text{ kg/m}^3$  (e.g. fuel oil EL)

## Pneumatic level gauge type IAP

With a scale of 0 to 100% filling level

Scales with display in litres

Suitable until the manufacturing year 11/2010 and type IAP

3000 litres

5000 litres

7000 litres

10000 litres

13000 litres

16000 litres

20000 litres

25000 litres

30000 litres

40000 litres

50000 litres

### Replacement part

Measuring line, plastic hose 4 x 1 mm

2 hose nozzles 4 mm

Condensate vessel, compression fitting 6 mm at both ends

Condensate vessel, hose nozzle 4 mm at both ends

### Accessories

Assembly set for the connection of a remote level gauge to the tank

Consisting of: flexible line (310 cm long), foot rest, screw-in insert with pitched threads G 1 and G 1 1/4, reducer G 2 x G 1 1/2, reducer G 1 x G 1 1/2, flexible measuring line 4 x 1 mm (1000 cm long), condensate vessel with compression fittings, hose extension nozzle and 24 hose clamps with steel nails

Part no.

I

II

Z

15 078 00

x

x

x

15 079 19

x

x

x

15 079 20

x

x

x

15 079 21

x

x

x

15 079 22

x

x

x

15 079 23

x

x

x

15 079 24

x

x

x

15 079 25

x

x

x

15 079 26

x

x

x

15 079 27

x

x

x

15 079 28

x

x

x

15 079 29

x

x

x

12 516 00

x

x

x

14 014 00

x

x

x

13 022 00

x

x

x

13 022 01

x

x

x

15 078 99

x

x

x



# Withdrawal

## Remark on suction kits

For modern oil firing installations in a single-conduit system, small nominal widths (DN) are recommended for the suction line, as shown for example in the following listed models DN 5 for flow volumes up to 10 l/h.

The optimal flow rate prevents the outgassing of heating oil and therefore unwanted burner malfunctions.

The nominal length, e.g. 1600 mm, is the distance between the bottom edge of the tank connection G 1 and the suction inflow in the spacer.

For underground tanks in Germany, a floating withdrawal following TRÖI should not be used!

## Suction kit type VTK-2 PS 10 bar

Part no.

I

II

Z

Withdrawal kit for oil tanks and single and double-conduit systems

Consisting of: quick-acting withdrawal valve with 360° rotatable flip lever valve, NBR hose lines with spacer to the bottom of the tank and tank connection G 1 male thread with NBR sealing ring

### Technical data

- Model with G 3/8 female thread suitable for screw-in compression fittings according to DIN 3852-2 for sealing using provided NBR O-rings or the connection of a suitable universal connection set (UA)

### Suction kit type VTK-2

#### With non-return valve

#### Without measuring line

1600 mm G 3/8 F DN 10

16 429 01

x

x

x

1600 mm UA 8/10 DN 10

16 429 16

x

x

x

2150 mm G 3/8 F DN 5

16 430 41

x

2150 mm G 3/8 F DN 5 floating withdrawal

16 430 75

x

2150 mm G 3/8 F DN 10

16 430 01

x

x

x

2150 mm G 3/8 F DN 10 floating withdrawal

16 430 61

x

x

x

2150 mm UA 8/10 DN 10

16 430 16

x

x

x

2150 mm UA 8/10 DN 10 floating withdrawal

16 430 71

x

x

x

2600 mm G 3/8 F DN 10

16 434 01

x

x

x

#### With measuring line

1600 mm G 3/8 F DN 10

16 429 00

x

x

x

2150 mm G 3/8 F DN 5

16 438 02

x

2150 mm G 3/8 F DN 10

16 430 00

x

x

x

2150 mm G 3/8 F DN 10 floating withdrawal

16 430 60

x

x

x

2150 mm UA 8/10 DN 10

16 430 15

x

x

x

2150 mm UA 8/10 DN 10 floating withdrawal

16 430 70

x

x

x

2600 mm G 3/8 F DN 10

16 434 00

x

x

x

#### Without non-return valve for self-locking aspiration lines

#### Without measuring line

2150 mm G 3/8 F DN 5

16 441 41

x

2150 mm G 3/8 F DN 5 floating withdrawal

16 441 75

x

2150 mm G 3/8 F DN 10

16 441 02

x

x

#### With measuring line

1600 mm G 3/8 F DN 10

16 440 00

x

x

2150 mm G 3/8 F DN 5

16 440 42

x

x

2150 mm G 3/8 F DN 10

16 440 02

x

x



# Withdrawal



## Suction kit type VTK 2 BIO PS 10 bar

Withdrawal kit for oil tanks and single and double-conduit systems in which biogenic fuels are stored, e.g. heating oil EL A Bio

Consisting of: quick-acting withdrawal valve with 360° rotatable flip lever valve, FKM hose line with spacer to the bottom of the tank and tank connection G 1 male thread with HNBR sealing ring

### Technical data

- Model with G 3/8 female thread suitable for screw-in compression fittings according to DIN 3852-2 for sealing using provided FKM O-rings or for the connection of a universal connection set (UA)

### Suction kit type VTK 2 BIO

With non-return valve

Without measuring line

2150 mm G 3/8 F DN 10

Part no.	I	II	Z
16 330 01	x	x	x



## Suction kit type TAK PS 10 bar

Withdrawal kit for oil tanks and single and double-conduit systems

Consisting of: Quick-acting withdrawal valve with 360° rotatable flip lever valve, NBR hose lines with spacer to the bottom of the tank and tank connection R 1 male thread

### Advantages and equipment

- Two-piece withdrawal valve adjustable in direction and height

### Technical data

- Model with G 3/8 female thread suitable for screw-in compression fittings according to DIN 3852-2 for sealing using provided NBR O-rings or the connection of a suitable universal connection set (UA)

### Suction kit type TAK

With non-return valve

Without measuring line

1600 mm G 3/8 F DN 10

2150 mm G 3/8 F DN 10

2600 mm G 3/8 F DN 10

With measuring line

1600 mm G 3/8 F DN 10

2150 mm G 3/8 F DN 10

2150 mm G 3/8 F DN 10 floating withdrawal

2600 mm G 3/8 F DN 10

Part no.	I	II	Z
16 404 00	x	x	x
16 414 00	x	x	x
16 424 00	x	x	x
16 421 00	x	x	x
16 411 00	x	x	x
16 411 70	x	x	x
16 401 00	x	x	x

# Withdrawal



## Retrofit set for floating withdrawal

Easy plug-in system for suction kits type VTK, VTK-2 and TAK for oil tanks as well as single and double-conduit systems

### Advantages and equipment

- With suction spout
- With 2 spacers to the bottom of the tank

## Retrofit set for floating withdrawal

Equipment for suction line DN 5, with measuring line  
 Equipment for suction line DN 10, with measuring line  
 Equipment for suction line DN 5, without measuring line  
 Equipment for suction line DN 10, without measuring line

Part no.		I	II	Z
16 430 78		x		
16 430 58		x	x	x
16 430 79		x		
16 430 59		x	x	x



## Lever valve for type VTK and VTK-2

For installation in suction kits type VTK and VTK-2 with screw-in thread M18 x 1.5 for self-locking aspiration lines according to VAwS, TRbF 50 and DIN 4755 and oil lines with a safety device against siphoning without a pressure compensation device

### Note

- For the retrofitting of existing oil lines with a safety device against siphoning or modification as a self-locking aspiration line, dismantle the lever valve of the suction kit type VTK and VTK-2, remove non-return valve and insert lever valve!

## Lever valve for type VTK and VTK-2

Complete

Part no.		I	II	Z
15 308 10		x	x	x

## Release cord for suction kits

With a pull grip and sealable plastic box for the remote control of suction kits on above-ground oil tanks

### Technical data

- Material: steel cable with plastic casing
- Length: 10 metres

## Release cord for suction kits

Complete

Part no.		I	II	Z
15 378 00		x	x	x



# Withdrawal



Withdrawal hose assembly	Part no.		I	II	Z
For oil storage tanks					
Technical data					
• Oil-resistant hose according to EN ISO 6806					
• Compression fitting R 3/8 male thread as weight and seat for the foot valve					
• Pipe socket 8 mm = oil hose nominal diameter DN 8					
• Pipe socket 10 mm = oil hose nominal diameter DN 10					
Withdrawal hose assembly					
With pipe socket 100 mm long					
Pipe socket 8 x R 3/8 M x 1500 mm	12 103 00		x	x	x
Pipe socket 8 x R 3/8 M x 1750 mm	12 105 00		x	x	x
Pipe socket 8 x R 3/8 M x 2000 mm	12 106 00		x	x	x
Pipe socket 10 x R 3/8 M x 1250 mm	12 108 00		x	x	x
Pipe socket 10 x R 3/8 M x 1500 mm	12 110 00		x	x	x
Pipe socket 10 x R 3/8 M x 1750 mm	12 113 00		x	x	x
Pipe socket 10 x R 3/8 M x 2000 mm	12 114 00		x	x	x
With pipe socket 400 mm long					
Pipe socket 8 x R 3/8 M x 1500 mm	12 103 40		x	x	x
Pipe socket 8 x R 3/8 M x 1750 mm	12 105 40		x	x	x
Pipe socket 8 x R 3/8 M x 2000 mm	12 106 40		x	x	x
Pipe socket 10 x R 3/8 M x 1250 mm	12 108 40		x	x	x
Pipe socket 10 x R 3/8 M x 1500 mm	12 110 40		x	x	x
Pipe socket 10 x R 3/8 M x 1750 mm	12 113 40		x	x	x
Pipe socket 10 x R 3/8 M x 2000 mm	12 114 40		x	x	x



Double spherical foot valve		Part no.		I	II	Z
Non-return valve according to EN 12514-2 in oil aspiration lines						
Advantages and equipment						
• With distance spring						
Double spherical foot valve						
G 3/8 F		15 090 00		x	x	x
G 1/2 F		15 058 00		x	x	x
Compr. fit. 8		15 054 00		x	x	x
Compr. fit. 10		15 055 00		x	x	x



Reducer for oil tanks	Part no.		I	II	Z
Technical data					
• Material: plastic					
Reducer for oil tanks					
G 1 1/2 M x G 1 F	15 230 00		x	x	x
G 2 M x G 1 F	15 238 00		x	x	x
G 2 M x G 1 1/2 F	15 289 00		x	x	x

# Withdrawal



Gland	Part no.		I	II	Z
Oil tank compression fitting for the bushing of a pipe					
<b>Technical data</b>					
• Material model 1 hole: steel					
• Material model 2 holes: zinc die-casting ZP0410					
<b>Gland</b>					
<b>1 hole</b>					
R 3/8 M x compr. fit. 6	15 109 00		x		x
R 1/2 M x compr. fit. 6	15 108 00		x		x
R 1 M x UA 8/10	15 110 10		x		x
R 1 M x compr. fit. 6	15 063 00		x		x
R 1 M x compr. fit. 8	15 113 00		x		x
R 1 M x compr. fit. 10	15 114 00		x		x
R 1 M x compr. fit. 12	15 115 00		x		x
R 1 M x compr. fit. 15	15 116 00		x		x
<b>2 holes with return</b>					
R 1 M x UA 8/10	15 100 10			x	x



Tank connector	Part no.	I	II	Z
For oil tanks for the bushing of one or two pipes or cables				
Technical data				
• Material: plastic				
Note				
• Not suitable for oil lines in Germany				
Tank connector				
1 hole				
G 1 1/2 M x UA 6-10	15 141 00	x		x
G 2 M x UA 6-10	15 142 00	x		x
2 holes				
G 1 1/2 M x UA 6-10	15 150 00		x	x
G 2 M x UA 6-10	15 151 00		x	x

# Pipe system

## Remark on quick-acting stop valves

The following quick-acting stop valves type V and V MS can also be supplied with an FKM seal or with a seal for use with oxygen. When ordering, please specify accordingly.

For these special versions, a 50% additional charge will be imposed on the gross price of the standard model.



## Quick-acting stop valve

Quick-acting stop fitting, only in a fully open or closed position

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

### Quick-acting stop valve

#### Type V, brass chrome plated

Compr. fit.	6	x	compr. fit.	6
Compr. fit.	8	x	compr. fit.	8
Compr. fit.	10	x	compr. fit.	10
Compr. fit.	12	x	compr. fit.	8
Compr. fit.	12	x	compr. fit.	12
Compr. fit.	15	x	compr. fit.	15

#### Type V MS, brass bright

Compr. fit.	6	x	compr. fit.	6
Compr. fit.	8	x	compr. fit.	8
Compr. fit.	10	x	compr. fit.	10
Compr. fit.	12	x	compr. fit.	12
Compr. fit.	15	x	compr. fit.	15

#### Type K, brass chrome plated

Compr. fit.	8	x	compr. fit.	8
Compr. fit.	10	x	compr. fit.	10
Compr. fit.	12	x	compr. fit.	12
Compr. fit.	15	x	compr. fit.	15

#### Type K MS, brass bright

Compr. fit.	8	x	compr. fit.	8	with mounting bracket
Compr. fit.	10	x	compr. fit.	8	
Compr. fit.	10	x	compr. fit.	10	
Compr. fit.	12	x	compr. fit.	12	
Compr. fit.	15	x	compr. fit.	15	

Part no.

I II Z

03 201 00	x	x	x
03 202 00	x	x	x
03 204 00	x	x	x
03 209 00	x	x	x
03 207 00	x	x	x
03 208 00	x	x	x
03 308 00	x	x	x
03 309 00	x	x	x
03 310 00	x	x	x
03 311 00	x	x	x
03 312 00	x	x	x
03 401 00	x	x	x
03 402 00	x	x	x
03 405 00	x	x	x
03 407 00	x	x	x
03 403 00	x	x	x
03 403 10	x	x	x
03 404 00	x	x	x
03 406 00	x	x	x
03 408 00	x	x	x



Type V



Type V



Type K



Type K

# Pipe system



## Quick-acting stop valve

Quick-acting stop fitting, only in a fully open or closed position

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

Quick-acting stop valve

Type VZ 8 - 8

Brass chrome plated

Pipe socket 8 x compr. fit. 8

Part no.	I	II	Z
03 199 00	x	x	x
03 200 00	x	x	x
03 411 00	x	x	x
03 410 00	x	x	x



Type V



Type K



## Quick-acting stop valve

Quick-acting stop fitting, only in a fully open or closed position

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

Quick-acting stop valve

Type V, brass chrome plated

Female thread x female thread

Rp 1/4 F x Rp 1/4 F

Rp 3/8 F x Rp 3/8 F

Male thread x male thread

R 1/4 M x R 1/4 M

R 1/2 M x R 1/2 M

Type V MS, brass bright

Female thread x female thread

Rp 1/4 F x Rp 1/4 F

Rp 3/8 F x Rp 3/8 F

Male thread x male thread

R 1/4 M x R 1/4 M

R 1/2 M x R 1/2 M

Part no.	I	II	Z
03 268 00	x	x	x
03 211 00	x	x	x
03 269 00	x	x	x
03 270 00	x	x	x
03 313 00	x	x	x
03 314 00	x	x	x
03 272 00	x	x	x
03 316 00	x	x	x



# Pipe system



## Quick-acting branch stop valve type AV 8

Quick-acting stop fitting, only in a fully open or closed position

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

### Quick-acting branch stop valve type AV 8

Brass chrome plated

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8

Brass bright

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8

Part no.	I	II	Z
03 022 00	x	x	x
03 307 00	x	x	x



## Two-way valve type VZW 8 PS 16 bar

For alternating withdrawal from two feed lines, both feed lines can be closed, only in a fully open or closed position

### Approval

- DIN-DVGW-tested according to DIN 4817-1
- EC type test according to PED (Pressure Equipment Directive)
- German ÜHP type approval according to building code list to EN 12514-2

### Two-way valve type VZW 8

Brass chrome plated

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8

Brass bright

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8

Part no.	I	II	Z
03 304 00	x	x	x
03 002 00	x	x	x



## Changeover valve type UV PS 10 bar

For alternating withdrawal from two feed lines

### Advantages and equipment

- Model 8 mm with reinforcement rings

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Changeover valve type UV

Brass bright

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8

Compr. fit. 10 x compr. fit. 10 x compr. fit. 10 without ÜHP

Part no.	I	II	Z
03 303 00	x	x	x
03 303 10	x	x	x





# Pipe system



## Quick-acting angle stop valve type VE

Quick-acting stop fitting, only in a fully open or closed position

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

### Technical data

- Material: brass chrome plated

### Quick-acting angle stop valve type VE

Compression fitting x compression fitting

Compr. fit. 8 x compr. fit. 8

Compr. fit. 12 x compr. fit. 12

Male thread x compression fitting

R 3/8 M x compr. fit. 12

R 1/2 M x compr. fit. 12



Part no.	I	II	Z
03 218 00	x	x	x
03 221 00	x	x	x
03 223 00	x	x	x
03 224 00	x	x	x

## Fastening clamp

For the fastening of a quick-acting stop valve and regulating valve

### Technical data

- Material: chromed

### Fastening clamp

17 mm, for 6, 8 and 10 mm valves

19 mm, for 12 mm valves



Part no.	I	II	Z
03 230 00	x	x	x
03 231 00	x	x	x



## Shut-off valve type RV PS 16 bar

For the shut-off of flows

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Material: brass bright

### Shut-off valve type RV

Straight version

Compression fitting x compression fitting

Compr. fit. 6 x compr. fit. 6

Compr. fit. 8 x compr. fit. 8

Compr. fit. 10 x compr. fit. 10

Compr. fit. 12 x compr. fit. 12

Compr. fit. 15 x compr. fit. 15

Compr. fit. 18 x compr. fit. 18

Female thread x female thread

Rp 1/4 F x Rp 1/4 F

Rp 3/8 F x Rp 3/8 F

Rp 1/2 F x Rp 1/2 F

90° version

Compression fitting x compression fitting

Compr. fit. 8 x compr. fit. 8



Part no.	I	II	Z
02 230 00	x	x	x
02 231 00	x	x	x
02 232 00	x	x	x
02 233 00	x	x	x
02 234 00	x	x	x
02 235 00	x	x	x
02 315 00	x	x	x
02 236 00	x	x	x
02 237 00	x	x	x
02 316 00	x	x	x

# Pipe system



## Control valve PS 16 bar

For precise flow control

### Technical data

- Material: brass bright

### Control valve

Compr. fit. 8 x compr. fit. 8

Compr. fit. 10 x compr. fit. 10

Part no.	I	II	Z
02 324 00	x	x	x
02 325 00	x	x	x

## Brass ball valve type 0270

Quick-acting stop fitting, only in a fully open or closed position

### Advantages and equipment

- With PTFE gasket

### Approval

- German ÜHP type approval according to building code list to EN 12514-2
- PS 16 bar

### Technical data

- Material: brass nickel plated

### Note

- For the use of screw-in connectors, we recommend the GERB version with an inserted O-ring, as the female thread of the ball valves 02 701 00, 02 702 00 and 02 703 00 has been grooved!

### Brass ball valve type 0270

#### Female thread x female thread

Rp 1/4 F x Rp 1/4 F

Rp 3/8 F x Rp 3/8 F

Rp 1/2 F x Rp 1/2 F

Rp 3/4 F x Rp 3/4 F

Part no.	I	II	Z
02 700 00	x	x	x
02 701 00	x	x	x
02 702 00	x	x	x
02 703 00	x	x	x

#### Compression fitting x compression fitting

Compr. fit. 8 x compr. fit. 8

Compr. fit. 12 x compr. fit. 12

Compr. fit. 15 x compr. fit. 15

Compr. fit. 18 x compr. fit. 18

Compr. fit. 22 x compr. fit. 22

02 700 01	x	x	x
02 701 01	x	x	x
02 702 01	x	x	x
02 702 02	x	x	x
02 703 01	x	x	x

#### With brass olive for copper pipes

Compr. fit. 6 x compr. fit. 10

Compr. fit. 10 x compr. fit. 10

02 701 16	x	x	x
02 701 10	x	x	x

### Accessories

O-ring NBR for part no. 02 701 00 (14.0 x 2.7 mm)

O-ring NBR for part no. 02 702 00 (17.86 x 2.62 mm)

O-ring NBR for part no. 02 703 00 (23.4 x 3.53 mm)

25 520 85	x	x	x
25 520 76	x	x	x
25 520 77	x	x	x

# Pipe system

## Remark on compression fittings

For the correct selection and assembly of compression fittings, please observe the GOK assembly instructions (under [www.gok-online.de](http://www.gok-online.de) in the chapter "Service") and the compression fitting and screw-in connectors data sheets.

When assembling a compression fitting on a copper or aluminium pipe, it is essential to use a reinforcement ring! For aluminium pipes, use a steel reinforcement ring! All compression fittings are DVGW-tested.



## Straight compression fitting type G

EN ISO 8434-1 - SC

### Straight compression fitting type G

#### With steel olive for steel pipes

Compr. fit.	4	x	compr. fit.	4	type LL
Compr. fit.	6	x	compr. fit.	6	type L
Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L
Compr. fit.	16	x	compr. fit.	16	type S
Compr. fit.	18	x	compr. fit.	18	type L
Compr. fit.	22	x	compr. fit.	22	type L
Compr. fit.	28	x	compr. fit.	28	type L

#### With brass olive for copper pipes

Compr. fit.	6	x	compr. fit.	6	type L
Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L
Compr. fit.	18	x	compr. fit.	18	type L
Compr. fit.	22	x	compr. fit.	22	type L

Part no.	I	II	Z
07 848 00	x	x	x
07 701 00	x	x	x
07 702 00	x	x	x
07 703 00	x	x	x
07 704 00	x	x	x
07 705 00	x	x	x
07 861 00	x	x	x
07 706 00	x	x	x
07 001 00	x	x	x
07 894 00	x	x	x
07 701 06	x	x	x
07 702 06	x	x	x
07 703 06	x	x	x
07 704 06	x	x	x
07 705 06	x	x	x
07 706 06	x	x	x
07 001 06	x	x	x



## Elbow compression fitting type W

EN ISO 8434-1 - EC

### Elbow compression fitting type W

#### With steel olive for steel pipes

Compr. fit.	4	x	compr. fit.	4	type LL
Compr. fit.	6	x	compr. fit.	6	type L
Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L
Compr. fit.	16	x	compr. fit.	16	type S
Compr. fit.	18	x	compr. fit.	18	type L
Compr. fit.	22	x	compr. fit.	22	type L
Compr. fit.	28	x	compr. fit.	28	type L

#### With brass olive for copper pipes

Compr. fit.	6	x	compr. fit.	6	type L
Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L
Compr. fit.	18	x	compr. fit.	18	type L
Compr. fit.	22	x	compr. fit.	22	type L

Part no.	I	II	Z
07 849 00	x	x	x
07 707 00	x	x	x
07 708 00	x	x	x
07 709 00	x	x	x
07 710 00	x	x	x
07 711 00	x	x	x
07 863 00	x	x	x
07 712 00	x	x	x
07 002 00	x	x	x
07 895 00	x	x	x
07 707 06	x	x	x
07 708 06	x	x	x
07 709 06	x	x	x
07 710 06	x	x	x
07 711 06	x	x	x
07 712 06	x	x	x
07 002 06	x	x	x

# Pipe system



## T-shape compression fitting type T

EN ISO 8434-1 - TC

### T-shape compression fitting type T

With steel olive for steel pipes

Compr. fit. 4 x	compr. fit. 4 x	compr. fit. 4 x	type LL	07 846 00	x	x	x
Compr. fit. 6 x	compr. fit. 6 x	compr. fit. 6 x	type L	07 713 00	x	x	x
Compr. fit. 8 x	compr. fit. 8 x	compr. fit. 8 x	type L	07 714 00	x	x	x
Compr. fit. 10 x	compr. fit. 10 x	compr. fit. 10 x	type L	07 715 00	x	x	x
Compr. fit. 12 x	compr. fit. 12 x	compr. fit. 12 x	type L	07 716 00	x	x	x
Compr. fit. 15 x	compr. fit. 15 x	compr. fit. 15 x	type L	07 717 00	x	x	x
Compr. fit. 18 x	compr. fit. 18 x	compr. fit. 18 x	type L	07 718 00	x	x	x
Compr. fit. 22 x	compr. fit. 22 x	compr. fit. 22 x	type L	07 003 00	x	x	x
Compr. fit. 28 x	compr. fit. 28 x	compr. fit. 28 x	type L	07 897 00	x	x	x

With brass olive for copper pipes

Compr. fit. 6	x	compr. fit. 6	x	compr. fit. 6	type L	07 713 06		x	x	x
Compr. fit. 8	x	compr. fit. 8	x	compr. fit. 8	type L	07 714 06		x	x	x
Compr. fit. 10	x	compr. fit. 10	x	compr. fit. 10	type L	07 715 06		x	x	x
Compr. fit. 12	x	compr. fit. 12	x	compr. fit. 12	type L	07 716 06		x	x	x
Compr. fit. 15	x	compr. fit. 15	x	compr. fit. 15	type L	07 717 06		x	x	x
Compr. fit. 18	x	compr. fit. 18	x	compr. fit. 18	type L	07 718 06		x	x	x
Compr. fit. 22	x	compr. fit. 22	x	compr. fit. 22	type L	07 003 06		x	x	x



## Cross compression fitting type K

EN ISO 8434-1 - KC

### Cross compression fitting type K

With steel olive for steel pipes

Compr. fit. 8	x	compr. fit. 8	x	compr. fit. 8	x	compr. fit. 8	type L	07 720 00		x	x	x
Compr. fit. 10	x	compr. fit. 10	x	compr. fit. 10	x	compr. fit. 10	type L	07 721 00		x	x	x
Compr. fit. 12	x	compr. fit. 12	x	compr. fit. 12	x	compr. fit. 12	type L	07 722 00		x	x	x
Compr. fit. 15	x	compr. fit. 15	x	compr. fit. 15	x	compr. fit. 15	type L	07 723 00		x	x	x
Compr. fit. 18	x	compr. fit. 18	x	compr. fit. 18	x	compr. fit. 18	type L	07 724 00		x	x	x

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8 x compr. fit. 8	type L	07 720 06	x	x	x
Compr. fit. 10 x compr. fit. 10 x compr. fit. 10 x compr. fit. 10	type L	07 721 06	x	x	x
Compr. fit. 12 x compr. fit. 12 x compr. fit. 12 x compr. fit. 12	type L	07 722 06	x	x	x
Compr. fit. 15 x compr. fit. 15 x compr. fit. 15 x compr. fit. 15	type L	07 723 06	x	x	x
Compr. fit. 18 x compr. fit. 18 x compr. fit. 18 x compr. fit. 18	type L	07 724 06	x	x	x

# Pipe system



## Straight reducing compression fitting type GR

EN ISO 8434-1 - RDSC

### Straight reducing compression fitting type GR

#### With steel olive for steel pipes

Compr. fit.	8	x	compr. fit.	6	type L
Compr. fit.	10	x	compr. fit.	6	type L
Compr. fit.	10	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	6	type L
Compr. fit.	12	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	8	type L
Compr. fit.	15	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	8	type L
Compr. fit.	18	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	15	type L
Compr. fit.	22	x	compr. fit.	15	type L
Compr. fit.	22	x	compr. fit.	18	type L
Compr. fit.	28	x	compr. fit.	22	type L

#### With brass olive for copper pipes

Compr. fit.	8	x	compr. fit.	6	type L
Compr. fit.	10	x	compr. fit.	6	type L
Compr. fit.	10	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	6	type L
Compr. fit.	12	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	8	type L
Compr. fit.	15	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	15	type L

Part no.	I	II	Z
07 725 00	x	x	x
07 726 00	x	x	x
07 727 00	x	x	x
07 811 00	x	x	x
07 728 00	x	x	x
07 730 00	x	x	x
07 729 00	x	x	x
07 005 00	x	x	x
07 731 00	x	x	x
07 006 00	x	x	x
07 732 00	x	x	x
07 733 00	x	x	x
07 009 00	x	x	x
07 010 00	x	x	x
07 834 00	x	x	x
07 725 06	x	x	x
07 726 06	x	x	x
07 727 06	x	x	x
07 811 06	x	x	x
07 728 06	x	x	x
07 730 06	x	x	x
07 729 06	x	x	x
07 005 06	x	x	x
07 731 06	x	x	x
07 732 06	x	x	x
07 733 06	x	x	x

# Pipe system



## T-shape reducing compression fitting type TR

EN ISO 8434-1 - RDBTC or RDRTC

### T-shape reducing compression fitting type TR

With steel olive for steel pipes

Compr. fit.	8	x	compr. fit.	6	x	compr. fit.	8	type L	07 019 00	x	x	x
Compr. fit.	8	x	compr. fit.	10	x	compr. fit.	8	type L	07 748 00	x	x	x
Compr. fit.	8	x	compr. fit.	12	x	compr. fit.	8	type L	07 742 00	x	x	x
Compr. fit.	8	x	compr. fit.	15	x	compr. fit.	8	type L	07 755 00	x	x	x
Compr. fit.	10	x	compr. fit.	8	x	compr. fit.	8	type L	07 749 00	x	x	x
Compr. fit.	10	x	compr. fit.	8	x	compr. fit.	10	type L	07 763 00	x	x	x
Compr. fit.	10	x	compr. fit.	10	x	compr. fit.	8	type L	07 750 00	x	x	x
Compr. fit.	12	x	compr. fit.	8	x	compr. fit.	8	type L	07 743 00	x	x	x
Compr. fit.	12	x	compr. fit.	8	x	compr. fit.	12	type L	07 740 00	x	x	x
Compr. fit.	12	x	compr. fit.	10	x	compr. fit.	10	type L	07 747 00	x	x	x
Compr. fit.	12	x	compr. fit.	10	x	compr. fit.	12	type L	07 744 00	x	x	x
Compr. fit.	12	x	compr. fit.	12	x	compr. fit.	8	type L	07 741 00	x	x	x
Compr. fit.	12	x	compr. fit.	15	x	compr. fit.	12	type L	07 759 00	x	x	x
Compr. fit.	15	x	compr. fit.	8	x	compr. fit.	8	type L	07 756 00	x	x	x
Compr. fit.	15	x	compr. fit.	8	x	compr. fit.	15	type L	07 753 00	x	x	x
Compr. fit.	15	x	compr. fit.	12	x	compr. fit.	12	type L	07 760 00	x	x	x
Compr. fit.	15	x	compr. fit.	12	x	compr. fit.	15	type L	07 757 00	x	x	x
Compr. fit.	15	x	compr. fit.	15	x	compr. fit.	12	type L	07 758 00	x	x	x
Compr. fit.	18	x	compr. fit.	12	x	compr. fit.	12	type L	07 028 00	x	x	x
Compr. fit.	18	x	compr. fit.	12	x	compr. fit.	18	type L	07 761 00	x	x	x
Compr. fit.	18	x	compr. fit.	15	x	compr. fit.	18	type L	07 762 00	x	x	x
Compr. fit.	18	x	compr. fit.	18	x	compr. fit.	15	type L	07 029 00	x	x	x
Compr. fit.	22	x	compr. fit.	12	x	compr. fit.	22	type L	07 822 00	x	x	x
Compr. fit.	22	x	compr. fit.	15	x	compr. fit.	22	type L	07 819 00	x	x	x
Compr. fit.	22	x	compr. fit.	18	x	compr. fit.	22	type L	07 821 00	x	x	x
With brass olive for copper pipes												
Compr. fit.	8	x	compr. fit.	6	x	compr. fit.	8	type L	07 019 06	x	x	x
Compr. fit.	8	x	compr. fit.	10	x	compr. fit.	8	type L	07 748 06	x	x	x
Compr. fit.	8	x	compr. fit.	12	x	compr. fit.	8	type L	07 742 06	x	x	x
Compr. fit.	10	x	compr. fit.	8	x	compr. fit.	8	type L	07 749 06	x	x	x
Compr. fit.	10	x	compr. fit.	8	x	compr. fit.	10	type L	07 763 06	x	x	x
Compr. fit.	12	x	compr. fit.	8	x	compr. fit.	12	type L	07 740 06	x	x	x
Compr. fit.	12	x	compr. fit.	10	x	compr. fit.	12	type L	07 744 06	x	x	x
Compr. fit.	12	x	compr. fit.	12	x	compr. fit.	8	type L	07 741 06	x	x	x
Compr. fit.	15	x	compr. fit.	8	x	compr. fit.	15	type L	07 753 06	x	x	x
Compr. fit.	15	x	compr. fit.	12	x	compr. fit.	15	type L	07 757 06	x	x	x
Compr. fit.	18	x	compr. fit.	12	x	compr. fit.	18	type L	07 761 06	x	x	x
Compr. fit.	18	x	compr. fit.	15	x	compr. fit.	18	type L	07 762 06	x	x	x

With brass olive for copper pipes

# Pipe system



## Elbow reducing compression fitting type WR

EN ISO 8434-1 - RDEC

### Elbow reducing compression fitting type WR

#### With steel olive for steel pipes

Compr. fit.	10	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	8	type L
Compr. fit.	15	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	12	type L
Compr. fit.	18	x	compr. fit.	15	type L
Compr. fit.	22	x	compr. fit.	15	type L
Compr. fit.	22	x	compr. fit.	18	type L

#### With brass olive for copper pipes

Compr. fit.	10	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	8	type L
Compr. fit.	12	x	compr. fit.	10	type L
Compr. fit.	15	x	compr. fit.	12	type L

Part no.	I	II	Z
07 734 00	x	x	x
07 735 00	x	x	x
07 736 00	x	x	x
07 737 00	x	x	x
07 738 00	x	x	x
07 739 00	x	x	x
07 013 00	x	x	x
07 016 00	x	x	x
07 017 00	x	x	x
07 734 06	x	x	x
07 735 06	x	x	x
07 736 06	x	x	x
07 738 06	x	x	x



## Straight screw-in compr. fitting parallel thread type GERD

DIN 2353 - form D with screwed plug DIN 3852-11 form E, EN ISO 8434-1 - SDSC with screwed plug EN ISO 1179-2 form E

### Technical data

- Screw-in thread with NBR profile sealing for a counterpiece with flat surface

### Straight screw-in compression fitting parallel thread type GERD

#### With steel olive for steel pipes

Compr. fit.	6	x	G 1/8 M	type L
Compr. fit.	8	x	G 1/4 M	type L
Compr. fit.	8	x	G 3/8 M	type L
Compr. fit.	10	x	G 1/4 M	type L
Compr. fit.	10	x	G 3/8 M	type L
Compr. fit.	12	x	G 3/8 M	type L
Compr. fit.	15	x	G 1/2 M	type L
Compr. fit.	18	x	G 1/2 M	type L
Compr. fit.	22	x	G 3/4 M	type L
Compr. fit.	28	x	G 1 M	type L

#### With brass olive for copper pipes

Compr. fit.	8	x	G 3/8 M	type L
Compr. fit.	10	x	G 3/8 M	type L
Compr. fit.	12	x	G 3/8 M	type L

Part no.	I	II	Z
07 250 00	x	x	x
07 251 00	x	x	x
07 252 00	x	x	x
07 253 00	x	x	x
07 254 00	x	x	x
07 255 00	x	x	x
07 257 00	x	x	x
07 258 00	x	x	x
07 259 00	x	x	x
07 260 00	x	x	x
07 252 06	x	x	x
07 254 06	x	x	x
07 255 06	x	x	x



# Pipe system



Straight screw-in compr. fitting conical thread type GERK						Part no.		I	II	Z
DIN 2353 - form B with screwed plug DIN 3852-2 form C										
Straight screw-in compression fitting conical thread type GERK										
With steel olive for steel pipes										
Compr. fit.	4	x	R 1/8 M	type LL	07 844 00		x	x	x	
Compr. fit.	4	x	R 1/4 M	type LL	07 868 00		x	x	x	
Compr. fit.	6	x	R 1/8 M	type L	07 788 00		x	x	x	
Compr. fit.	6	x	R 1/4 M	type L	07 789 00		x	x	x	
Compr. fit.	6	x	R 3/8 M	type L	07 791 00		x	x	x	
Compr. fit.	8	x	R 1/8 M	type LL	07 092 00		x	x	x	
Compr. fit.	8	x	R 1/8 M	type L	07 800 00		x	x	x	
Compr. fit.	8	x	R 1/4 M	type L	07 792 00		x	x	x	
Compr. fit.	8	x	R 3/8 M	type L	07 793 00		x	x	x	
Compr. fit.	8	x	R 1/2 M	type L	07 794 00		x	x	x	
Compr. fit.	10	x	R 1/4 M	type L	07 795 00		x	x	x	
Compr. fit.	10	x	R 3/8 M	type L	07 796 00		x	x	x	
Compr. fit.	10	x	R 1/2 M	type L	07 797 00		x	x	x	
Compr. fit.	12	x	R 1/4 M	type L	07 798 00		x	x	x	
Compr. fit.	12	x	R 3/8 M	type L	07 799 00		x	x	x	
Compr. fit.	12	x	R 1/2 M	type L	07 030 00		x	x	x	
Compr. fit.	15	x	R 3/8 M	type L	07 031 00		x	x	x	
Compr. fit.	15	x	R 1/2 M	type L	07 032 00		x	x	x	
Compr. fit.	18	x	R 1/2 M	type L	07 033 00		x	x	x	
Compr. fit.	22	x	R 3/4 M	type L	07 034 00		x	x	x	
With brass olive for copper pipes										
Compr. fit.	6	x	R 1/8 M	type L	07 788 06		x	x	x	
Compr. fit.	6	x	R 1/4 M	type L	07 789 06		x	x	x	
Compr. fit.	6	x	R 3/8 M	type L	07 791 06		x	x	x	
Compr. fit.	8	x	R 1/8 M	type L	07 800 06		x	x	x	
Compr. fit.	8	x	R 1/4 M	type L	07 792 06		x	x	x	
Compr. fit.	8	x	R 3/8 M	type L	07 793 06		x	x	x	
Compr. fit.	8	x	R 1/2 M	type L	07 794 06		x	x	x	
Compr. fit.	10	x	R 1/4 M	type L	07 795 06		x	x	x	
Compr. fit.	10	x	R 3/8 M	type L	07 796 06		x	x	x	
Compr. fit.	10	x	R 1/2 M	type L	07 797 06		x	x	x	
Compr. fit.	12	x	R 1/4 M	type L	07 798 06		x	x	x	
Compr. fit.	12	x	R 3/8 M	type L	07 799 06		x	x	x	
Compr. fit.	12	x	R 1/2 M	type L	07 030 06		x	x	x	
Compr. fit.	15	x	R 3/8 M	type L	07 031 06		x	x	x	
Compr. fit.	15	x	R 1/2 M	type L	07 032 06		x	x	x	
Compr. fit.	18	x	R 1/2 M	type L	07 033 06		x	x	x	
Compr. fit.	22	x	R 3/4 M	type L	07 034 06		x	x	x	

# Pipe system



### Straight screw-in compr. fitting parallel thread type GERB

DIN 2353 - form D with screwed plug DIN 3852-2 form B, EN ISO 8434-1 -  
SDSC with screwed plug EN ISO 1179-4 form B

## Technical data

- Screw-in thread with metallic sealing edge for a counter piece with flat surface

### Note

- Also see straight screw-in compression fitting short version type GERB (e.g. part no. 13 063 05).



### Straight screw-in compression fitting parallel thread type GERB

With steel olive for steel pipes

Compr. fit.	6	x	G 1/8	M	type L	07 035 00	x	x	x
Compr. fit.	6	x	G 1/4	M	type L	07 081 00	x	x	x
Compr. fit.	6	x	G 3/8	M	type L	07 082 00	x	x	x
Compr. fit.	8	x	G 1/4	M	type L	07 036 00	x	x	x
Compr. fit.	8	x	G 3/8	M	type L	07 077 00	x	x	x
Compr. fit.	8	x	G 1/2	M	type L	07 078 00	x	x	x
Compr. fit.	10	x	G 1/4	M	type L	07 037 00	x	x	x
Compr. fit.	10	x	G 3/8	M	type L	07 038 00	x	x	x
Compr. fit.	10	x	G 1/2	M	type L	07 088 00	x	x	x
Compr. fit.	12	x	G 1/4	M	type L	07 079 00	x	x	x
Compr. fit.	12	x	G 3/8	M	type L	07 039 00	x	x	x
Compr. fit.	12	x	G 1/2	M	type L	07 080 00	x	x	x
Compr. fit.	12	x	G 3/4	M	type L	07 083 00	x	x	x
Compr. fit.	15	x	G 1/4	M	type L	07 076 00	x	x	x
Compr. fit.	15	x	G 3/8	M	type L	07 098 00	x	x	x
Compr. fit.	15	x	G 1/2	M	type L	07 040 00	x	x	x
Compr. fit.	15	x	G 3/4	M	type L	07 097 00	x	x	x
Compr. fit.	16	x	G 1/2	M	type S	07 862 00	x	x	x
Compr. fit.	18	x	G 3/8	M	type L	07 099 00	x	x	x
Compr. fit.	18	x	G 1/2	M	type L	07 084 00	x	x	x
Compr. fit.	18	x	G 3/4	M	type L	07 096 00	x	x	x
Compr. fit.	22	x	G 1/2	M	type L	07 091 00	x	x	x
Compr. fit.	22	x	G 3/4	M	type L	07 095 00	x	x	x
Compr. fit.	28	x	G 1	M	type L	07 896 00	x	x	x
<b>With brass olive for copper pipes</b>									
Compr. fit.	6	x	G 1/8	M	type L	07 035 06	x	x	x
Compr. fit.	6	x	G 3/8	M	type L	07 082 06	x	x	x
Compr. fit.	8	x	G 1/4	M	type L	07 036 06	x	x	x
Compr. fit.	8	x	G 3/8	M	type L	07 077 06	x	x	x
Compr. fit.	8	x	G 1/2	M	type L	07 078 06	x	x	x
Compr. fit.	10	x	G 1/4	M	type L	07 037 06	x	x	x
Compr. fit.	10	x	G 3/8	M	type L	07 038 06	x	x	x
Compr. fit.	10	x	G 1/2	M	type L	07 088 06	x	x	x
Compr. fit.	12	x	G 1/4	M	type L	07 079 06	x	x	x
Compr. fit.	12	x	G 3/8	M	type L	07 039 06	x	x	x
Compr. fit.	12	x	G 1/2	M	type L	07 080 06	x	x	x
Compr. fit.	15	x	G 1/2	M	type L	07 040 06	x	x	x
Compr. fit.	18	x	G 1/2	M	type L	07 084 06	x	x	x
Compr. fit.	18	x	G 3/4	M	type L	07 096 06	x	x	x

# Pipe system



## Straight screw-in compr. fitting parallel thread type GERA

DIN 2353 - form D with screwed plug DIN 3852-2 - form A, according to prEN 12514-4: 2009 annex C, always use sealing rings according to DIN 7606 and prEN 12514-4: 2009 annex C

### Technical data

- Screw-in thread to be used with sealing ring for a counterpiece with flat sealing surface

### Straight screw-in compression fitting parallel thread type GERA

#### With steel olive for steel pipes

Compr. fit.	6	x	G 1/8 M	type L
Compr. fit.	8	x	G 1/4 M	type L
Compr. fit.	10	x	G 1/4 M	type L
Compr. fit.	10	x	G 3/8 M	type L
Compr. fit.	12	x	G 3/8 M	type L
Compr. fit.	15	x	G 1/2 M	type L
Compr. fit.	18	x	G 1/2 M	type L

#### Accessories

##### Sealing ring type DRM

Material: aluminium

For G 1/8	OD 13.5 mm, ID 10.0 mm, d 1.0 mm
For G 1/4	OD 18.0 mm, ID 14.0 mm, d 1.5 mm
For G 3/8	OD 22.0 mm, ID 18.0 mm, d 1.5 mm
For G 1/2	OD 26.0 mm, ID 21.0 mm, d 1.5 mm
For G 3/4	OD 32.0 mm, ID 27.0 mm, d 2.0 mm

Material: copper

For G 1/8	OD 13.5 mm, ID 10.0 mm, d 1.0 mm
For G 1/4	OD 18.0 mm, ID 14.0 mm, d 1.5 mm
For G 3/8	OD 22.0 mm, ID 18.0 mm, d 1.5 mm
For G 1/2	OD 26.0 mm, ID 21.0 mm, d 1.5 mm



Part no.	I	II	Z
07 440 00	x	x	x
07 443 00	x	x	x
07 446 00	x	x	x
07 447 00	x	x	x
07 450 00	x	x	x
07 453 00	x	x	x
07 456 00	x	x	x
07 950 00	x	x	x
07 951 00	x	x	x
07 952 00	x	x	x
07 953 00	x	x	x
07 954 00	x	x	x
07 950 06	x	x	x
07 951 06	x	x	x
07 952 06	x	x	x
07 953 06	x	x	x



## Straight screw-in compression fitting NPT type GENPT

DIN 2353 - form B accordingly with screwed plug with NPT male threads according to DIN 3866

### Straight screw-in compression fitting NPT type GENPT

#### With steel olive for steel pipes

Compr. fit.	6	x	1/8 NPT M	type L
Compr. fit.	8	x	1/4 NPT M	type L
Compr. fit.	10	x	1/4 NPT M	type L
Compr. fit.	10	x	3/8 NPT M	type L
Compr. fit.	12	x	1/4 NPT M	type L
Compr. fit.	12	x	3/8 NPT M	type L
Compr. fit.	12	x	1/2 NPT M	type L
Compr. fit.	15	x	1/2 NPT M	type L
Compr. fit.	18	x	1/2 NPT M	type L
Compr. fit.	22	x	3/4 NPT M	type L
Compr. fit.	28	x	1 NPT M	type L

#### With brass olive for copper pipes

Compr. fit.	6	x	1/8 NPT M	type L
Compr. fit.	8	x	1/4 NPT M	type L
Compr. fit.	10	x	1/4 NPT M	type L



Part no.	I	II	Z
07 041 00	x	x	x
07 042 00	x	x	x
07 043 00	x	x	x
07 044 00	x	x	x
07 802 00	x	x	x
07 045 00	x	x	x
07 046 00	x	x	x
07 814 00	x	x	x
07 815 00	x	x	x
07 804 00	x	x	x
07 892 00	x	x	x
07 041 06	x	x	x
07 042 06	x	x	x
07 043 06	x	x	x

# Pipe system



## Straight screw-in socket parallel thread type GERS

On one end pipe socket with outer diameter and screwed plug  
DIN 3852-2 - form B or EN ISO 1179-4 form B on the other end

### Technical data

- Screw-in thread with metallic sealing edge for a counterpiece with flat surface

### Straight screw-in socket parallel thread type GERS



Pipe socket 6 x G 1/8 M type L

Pipe socket 8 x G 1/4 M type L

Pipe socket 10 x G 1/4 M type L

Pipe socket 12 x G 3/8 M type L

Pipe socket 15 x G 1/2 M type L

Pipe socket 18 x G 1/2 M type L

Pipe socket 22 x G 3/4 M type L

PS 100 bar

Part no.	I	II	Z
07 911 00	x	x	x
07 912 00	x	x	x
07 913 00	x	x	x
07 914 00	x	x	x
07 916 00	x	x	x
07 917 00	x	x	x
07 918 00	x	x	x

# Pipe system



## Elbow screw-in compression fitting conical type WERK

DIN 2353 - form G with screwed plug DIN 3852-2 - form C

## Elbow screw-in compression fitting conical type WERK

With steel olive for steel pipes

Compr. fit.	4	x	R	1/8	M	type LL	07 845 00		x	x	x
Compr. fit.	6	x	R	1/8	M	type L	07 047 00		x	x	x
Compr. fit.	6	x	R	1/4	M	type L	07 048 00		x	x	x
Compr. fit.	8	x	R	1/8	M	type L	07 089 00		x	x	x
Compr. fit.	8	x	R	1/4	M	type L	07 049 00		x	x	x
Compr. fit.	8	x	R	3/8	M	type L	07 050 00		x	x	x
Compr. fit.	8	x	R	1/2	M	type L	07 051 00		x	x	x
Compr. fit.	10	x	R	1/4	M	type L	07 052 00		x	x	x
Compr. fit.	10	x	R	3/8	M	type L	07 053 00		x	x	x
Compr. fit.	10	x	R	1/2	M	type L	07 054 00		x	x	x
Compr. fit.	12	x	R	1/4	M	type L	07 055 00		x	x	x
Compr. fit.	12	x	R	3/8	M	type L	07 056 00		x	x	x
Compr. fit.	12	x	R	1/2	M	type L	07 057 00		x	x	x
Compr. fit.	15	x	R	3/8	M	type L	07 058 00		x	x	x
Compr. fit.	15	x	R	1/2	M	type L	07 059 00		x	x	x
Compr. fit.	18	x	R	1/2	M	type L	07 060 00		x	x	x
Compr. fit.	22	x	R	3/4	M	type L	07 061 00		x	x	x

With brass olive for copper pipes

Compr. fit.	6	x	R	1/8	M	type L	07 047 06	x	x	x
Compr. fit.	6	x	R	1/4	M	type L	07 048 06	x	x	x
Compr. fit.	8	x	R	1/8	M	type L	07 089 06	x	x	x
Compr. fit.	8	x	R	1/4	M	type L	07 049 06	x	x	x
Compr. fit.	8	x	R	3/8	M	type L	07 050 06	x	x	x
Compr. fit.	8	x	R	1/2	M	type L	07 051 06	x	x	x
Compr. fit.	10	x	R	1/4	M	type L	07 052 06	x	x	x
Compr. fit.	10	x	R	3/8	M	type L	07 053 06	x	x	x
Compr. fit.	10	x	R	1/2	M	type L	07 054 06	x	x	x
Compr. fit.	12	x	R	1/4	M	type L	07 055 06	x	x	x
Compr. fit.	12	x	R	3/8	M	type L	07 056 06	x	x	x
Compr. fit.	12	x	R	1/2	M	type L	07 057 06	x	x	x
Compr. fit.	15	x	R	3/8	M	type L	07 058 06	x	x	x
Compr. fit.	15	x	R	1/2	M	type L	07 059 06	x	x	x
Compr. fit.	18	x	R	1/2	M	type L	07 060 06	x	x	x
Compr. fit.	22	x	R	3/4	M	type L	07 061 06	x	x	x



## Elbow screw-in compression fitting NPT type WENPT

DIN 2353 - form G accordingly with screwed plug with NPT male thread according to DIN 3866

## Elbow screw-in compression fitting NPT type WENPT

With steel olive for steel pipes

Compr. fit. 8 x 1/4 NPT M type L	07 063 00		x	x	x
With brass olive for copper pipes					
Compr. fit. 8 x 1/4 NPT M type L	07 063 06		x	x	x

With brass olive for copper pipes

Compr. fit. 8 x 1/4 NPT M type L	07 063 06		x	x	x
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# Pipe system



## Screw-in compression fitting conical type TERK

DIN 2353 - form N with conical screwed plug DIN 3852-2 - form C

### Screw-in compression fitting conical type TERK

With steel olive for steel pipes

Compr. fit. 6 x R 1/4 M x compr. fit. 6 type L

Compr. fit. 8 x R 1/4 M x compr. fit. 8 type L

Compr. fit. 10 x R 1/4 M x compr. fit. 10 type L

With brass olive for copper pipes

Compr. fit. 6 x R 1/4 M x compr. fit. 6 type L

Compr. fit. 8 x R 1/4 M x compr. fit. 8 type L

Compr. fit. 10 x R 1/4 M x compr. fit. 10 type L

Part no.	I	II	Z
07 067 00	x	x	x
07 068 00	x	x	x
07 069 00	x	x	x
07 067 06	x	x	x
07 068 06	x	x	x
07 069 06	x	x	x



## Straight screw-on compression fitting type GAI

One end compression fitting, other end female pipe thread screw plug hole  
DIN 3852-2 - form Y, without counterbore

### Straight screw-on compression fitting type GAI

With steel olive for steel pipes

Compr. fit. 6 x G 1/8 F type L

Compr. fit. 6 x G 1/4 F type L

Compr. fit. 8 x G 1/4 F type L

Compr. fit. 8 x G 3/8 F type L

Compr. fit. 8 x G 1/2 F type L

Compr. fit. 10 x G 1/4 F type L

Compr. fit. 10 x G 3/8 F type L

Compr. fit. 10 x G 1/2 F type L

Compr. fit. 12 x G 1/4 F type L

Compr. fit. 12 x G 3/8 F type L

Compr. fit. 12 x G 1/2 F type L

Compr. fit. 15 x G 3/8 F type L

Compr. fit. 15 x G 1/2 F type L

Compr. fit. 18 x G 1/2 F type L

Compr. fit. 22 x G 3/4 F type L

With brass olive for copper pipes

Compr. fit. 6 x G 1/8 F type L

Compr. fit. 6 x G 1/4 F type L

Compr. fit. 8 x G 1/4 F type L

Compr. fit. 8 x G 3/8 F type L

Compr. fit. 8 x G 1/2 F type L

Compr. fit. 10 x G 1/4 F type L

Compr. fit. 10 x G 3/8 F type L

Compr. fit. 10 x G 1/2 F type L

Compr. fit. 12 x G 1/4 F type L

Compr. fit. 12 x G 3/8 F type L

Compr. fit. 12 x G 1/2 F type L

Compr. fit. 15 x G 3/8 F type L

Compr. fit. 15 x G 1/2 F type L

Part no.	I	II	Z
07 764 00	x	x	x
07 765 00	x	x	x
07 766 00	x	x	x
07 767 00	x	x	x
07 768 00	x	x	x
07 769 00	x	x	x
07 774 00	x	x	x
07 775 00	x	x	x
07 101 00	x	x	x
07 770 00	x	x	x
07 771 00	x	x	x
07 772 00	x	x	x
07 773 00	x	x	x
07 102 00	x	x	x
07 103 00	x	x	x
07 764 06	x	x	x
07 765 06	x	x	x
07 766 06	x	x	x
07 767 06	x	x	x
07 768 06	x	x	x
07 769 06	x	x	x
07 774 06	x	x	x
07 775 06	x	x	x
07 101 06	x	x	x
07 770 06	x	x	x
07 771 06	x	x	x
07 772 06	x	x	x
07 773 06	x	x	x

# Pipe system



## Elbow screw-on compression fitting type WAI

One end female pipe thread screw plug hole DIN 3852-2 - form Y without counterbore, other end compression fitting

## Elbow screw-on compression fitting type WAI

With steel olive for steel pipes

G 1/4 F x	compr. fit. 8	type L	07 778 00	x	x	x
G 3/8 F x	compr. fit. 8	type L	07 779 00	x	x	x
G 1/2 F x	compr. fit. 8	type L	07 780 00	x	x	x
G 1/4 F x	compr. fit. 10	type L	07 781 00	x	x	x
G 3/8 F x	compr. fit. 10	type L	07 782 00	x	x	x
G 1/2 F x	compr. fit. 10	type L	07 104 00	x	x	x
G 1/4 F x	compr. fit. 12	type L	07 783 00	x	x	x
G 3/8 F x	compr. fit. 12	type L	07 784 00	x	x	x
G 1/2 F x	compr. fit. 12	type L	07 785 00	x	x	x
G 3/8 F x	compr. fit. 15	type L	07 786 00	x	x	x
G 1/2 F x	compr. fit. 15	type L	07 787 00	x	x	x
G 1/2 F x	compr. fit. 18	type L	07 105 00	x	x	x

With brass olive for copper pipes

G 1/4 F x compr. fit. 8	type L	07 778 06	x	x	x
G 3/8 F x compr. fit. 8	type L	07 779 06	x	x	x
G 1/2 F x compr. fit. 8	type L	07 780 06	x	x	x
G 1/4 F x compr. fit. 10	type L	07 781 06	x	x	x
G 3/8 F x compr. fit. 10	type L	07 782 06	x	x	x
G 3/8 F x compr. fit. 12	type L	07 784 06	x	x	x
G 1/2 F x compr. fit. 12	type L	07 785 06	x	x	x



## Straight welding connector type AS

EN ISO 8434-1 - WDSC

## Technical data

- Material: C 15

### Straight welding connector type AS

With steel olive for steel pipes



Compr. fit.	8	x	socket	12	type L	07 851 00		x	x	x
Compr. fit.	10	x	socket	14	type L	07 852 00		x	x	x
Compr. fit.	12	x	socket	16	type L	07 853 00		x	x	x
Compr. fit.	15	x	socket	19	type L	07 854 00		x	x	x
Compr. fit.	18	x	socket	22	type L	07 855 00		x	x	x
Compr. fit.	22	x	socket	27	type L	07 856 00		x	x	x



# Pipe system



## Adjustable elbow compression fitting type EVW

Direction-adjustable compression fitting following EN ISO 8434-1, one end compression fitting, other end pipe socket with outer diameter, 90° elbow

### Adjustable elbow compression fitting type EVW

With steel olive for steel pipes

Compr. fit.	6	x	pipe socket	6	type L
Compr. fit.	8	x	pipe socket	8	type L
Compr. fit.	10	x	pipe socket	10	type L
Compr. fit.	12	x	pipe socket	12	type L
Compr. fit.	15	x	pipe socket	15	type L
Compr. fit.	18	x	pipe socket	18	type L
Compr. fit.	22	x	pipe socket	22	type L

With brass olive for copper pipes

Compr. fit.	8	x	pipe socket	8	type L
Compr. fit.	10	x	pipe socket	10	type L
Compr. fit.	12	x	pipe socket	12	type L
Compr. fit.	15	x	pipe socket	15	type L

Part no.	I	II	Z
07 871 00	x	x	x
07 872 00	x	x	x
07 873 00	x	x	x
07 874 00	x	x	x
07 875 00	x	x	x
07 876 00	x	x	x
07 877 00	x	x	x
07 872 06	x	x	x
07 873 06	x	x	x
07 874 06	x	x	x
07 875 06	x	x	x



## Straight bulkhead compression fitting type SV

EN ISO 8434-1 - BHSC

### Straight bulkhead compression fitting type SV

With steel olive for steel pipes

Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L

With brass olive for copper pipes

Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L

Part no.	I	II	Z
07 354 00	x	x	x
07 355 00	x	x	x
07 356 00	x	x	x
07 357 00	x	x	x
07 354 06	x	x	x
07 355 06	x	x	x
07 356 06	x	x	x
07 357 06	x	x	x



## Elbow bulkhead compression fitting type WSV

EN ISO 8434-1 - BHEC

### Elbow bulkhead compression fitting type WSV

With steel olive for steel pipes

Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L
Compr. fit.	15	x	compr. fit.	15	type L

With brass olive for copper pipes

Compr. fit.	8	x	compr. fit.	8	type L
Compr. fit.	10	x	compr. fit.	10	type L
Compr. fit.	12	x	compr. fit.	12	type L

Part no.	I	II	Z
07 371 00	x	x	x
07 372 00	x	x	x
07 373 00	x	x	x
07 374 00	x	x	x
07 371 06	x	x	x
07 372 06	x	x	x
07 373 06	x	x	x





# Pipe system



## Straight reducing socket type RED

Reducing coupling fitting following EN ISO 8434-1, one end pipe socket with outer diameter, other end compression fitting

### Straight reducing socket type RED

#### With steel olive for steel pipes

Pipe socket 8 x compr. fit. 6 type L	07 221 00		x	x	x
Pipe socket 10 x compr. fit. 8 type L	07 223 00		x	x	x
Pipe socket 12 x compr. fit. 6 type L	07 224 00		x	x	x
Pipe socket 12 x compr. fit. 8 type L	07 225 00		x	x	x
Pipe socket 12 x compr. fit. 10 type L	07 226 00		x	x	x
Pipe socket 15 x compr. fit. 8 type L	07 228 00	PS 100 bar	x	x	x
Pipe socket 15 x compr. fit. 10 type L	07 237 00		x	x	x
Pipe socket 15 x compr. fit. 12 type L	07 229 00	PS 100 bar	x	x	x
Pipe socket 18 x compr. fit. 8 type L	07 230 00		x	x	x
Pipe socket 18 x compr. fit. 12 type L	07 232 00		x	x	x
Pipe socket 18 x compr. fit. 15 type L	07 233 00		x	x	x
Pipe socket 22 x compr. fit. 15 type L	07 235 00		x	x	x
Pipe socket 22 x compr. fit. 18 type L	07 236 00		x	x	x

#### With brass olive for copper pipes

Pipe socket 8 x compr. fit. 6 type L	07 221 06		x	x	x
Pipe socket 10 x compr. fit. 8 type L	07 223 06		x	x	x
Pipe socket 12 x compr. fit. 8 type L	07 225 06		x	x	x
Pipe socket 12 x compr. fit. 10 type L	07 226 06		x	x	x
Pipe socket 15 x compr. fit. 12 type L	07 229 06	PS 100 bar	x	x	x
Pipe socket 18 x compr. fit. 15 type L	07 233 06		x	x	x

## Adapter for pipes

Precision steel pipe with assembled nut and olive, for mounting to the cone connector of a compression fitting

### Adapter for pipes

#### With steel olive for steel pipes

Pipe socket 6 x pipe socket 6 x 50 mm	02 524 01	x	x	x
Pipe socket 8 x pipe socket 8 x 50 mm	02 524 00	x	x	x
Pipe socket 10 x pipe socket 10 x 50 mm	02 524 10	x	x	x
Pipe socket 12 x pipe socket 12 x 50 mm	02 525 00	x	x	x
Pipe socket 15 x pipe socket 15 x 50 mm	02 526 00	x	x	x
Pipe socket 22 x pipe socket 22 x 60 mm	02 526 02	x	x	x
Pipe socket 18 x pipe socket 18 x 65 mm	02 526 01	x	x	x



# Pipe system



## Blind plug with coupling nut type BSL

According to DIN 3870 and with O-ring sealing for compression fittings according to DIN 2352 / EN ISO 8434-1 - PL



### Blind plug with coupling nut type BSL

6	M12 x 1.5 F	type L
8	M14 x 1.5 F	type L
10	M16 x 1.5 F	type L
12	M18 x 1.5 F	type L
15	M22 x 1.5 F	type L
18	M26 x 1.5 F	type L
22	M30 x 2 F	type L

Part no.		I	II	Z
07 190 10		x	x	x
07 191 10		x	x	x
07 192 10		x	x	x
07 193 10		x	x	x
07 194 10		x	x	x
07 195 10		x	x	x
07 196 10		x	x	x



## Coupling nut type M

For compression fittings according to DIN 2352 / EN ISO 8434-1, according to DIN 3870 type LL and EN ISO 8434-1- N



### Coupling nut type M

4	M 8 x 1 F	type LL	wrench size 10
6	M10 x 1 F	type LL	wrench size 12
6	M12 x 1.5 F	type L	wrench size 14
8	M12 x 1 F	type LL	wrench size 14
8	M14 x 1.5 F	type L	wrench size 17
10	M16 x 1.5 F	type L	wrench size 19
12	M18 x 1.5 F	type L	wrench size 22
15	M22 x 1.5 F	type L	wrench size 27
16	M24 x 1.5 F	type S	wrench size 30
18	M26 x 1.5 F	type L	wrench size 32
22	M30 x 2 F	type L	wrench size 36
28	M36 x 2 F	type L	wrench size 41

Part no.		I	II	Z
07 119 00		x	x	x
07 117 00		x	x	x
07 107 00		x	x	x
07 118 00		x	x	x
07 108 00		x	x	x
07 109 00		x	x	x
07 110 00		x	x	x
07 111 00		x	x	x
07 123 00		x	x	x
07 112 00		x	x	x
07 113 00		x	x	x
07 116 00		x	x	x

# Pipe system



## Olive type D

DIN 3861 - form A - St

### Technical data

- Material: steel, hardened

### Olive type D

4	type LL
6	type LL
6	type L
8	type LL
8	type L
10	type L
12	type L
15	type L
16	type S
18	type L
22	type L
28	type L

Part no.	I	II	Z
07 149 00	x	x	x
07 130 00	x	x	x
07 150 00	x	x	x
07 131 00	x	x	x
07 151 00	x	x	x
07 152 00	x	x	x
07 153 00	x	x	x
07 154 00	x	x	x
07 158 00	x	x	x
07 155 00	x	x	x
07 156 00	x	x	x
07 159 50	x	x	x



## Olive type DU

DIN 3861 - form A - St

### Technical data

- Maximum admitted pressure: 6 bar
- Material: steel, unhardened, Zn yellow C

### Olive type DU

6	type L
8	type L
10	type L

Part no.	I	II	Z
07 150 03	x	x	x
07 151 03	x	x	x
07 152 03	x	x	x



## Olive type D-MS

DIN 3861 - form A-MS, e.g. in the assembly of copper pipes

### Technical data

- Material: brass

### Note

- Maximum admitted operating pressure according to data sheet compression fittings.

### Olive type D-MS

6	type L
8	type L
10	type L
12	type L
15	type L
18	type L
22	type L

Part no.	I	II	Z
07 170 00	x	x	x
07 171 00	x	x	x
07 172 00	x	x	x
07 173 00	x	x	x
07 174 00	x	x	x
07 175 00	x	x	x
07 176 00	x	x	x



# Pipe system



## Remark on stainless steel compression fittings

For the correct assembly of stainless steel compression fittings we recommend the use of a pre-assembly socket type VOMO as well as the use of a sliding means.

For the correct selection and assembly of compression fittings, please observe the GOK assembly instructions (under [www.gok-online.de](http://www.gok-online.de) and the chapter "Service") and the compression fitting and screw-in compression fitting data sheets.

Material: stainless steel (1.4571). All fittings are DVGW-tested.



## Straight stainless steel compression fitting type G-X

EN ISO 8434-1 - SC

Straight stainless steel compression fitting type G-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x compr. fit. 8 type L

Compr. fit. 10 x compr. fit. 10 type L

Compr. fit. 12 x compr. fit. 12 type L

Part no.	I	II	Z
07 502 00	x	x	x
07 503 00	x	x	x
07 504 00	x	x	x



## Elbow stainless steel compression fitting type W-X

EN ISO 8434-1 - EC

Elbow stainless steel compression fitting type W-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x compr. fit. 8 type L

Compr. fit. 10 x compr. fit. 10 type L

Compr. fit. 12 x compr. fit. 12 type L

Part no.	I	II	Z
07 508 00	x	x	x
07 509 00	x	x	x
07 510 00	x	x	x



## T-shape stainless steel compression fitting type T-X

EN ISO 8434-1 - TC

T-shape stainless steel compression fitting type T-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8 type L

Compr. fit. 10 x compr. fit. 10 x compr. fit. 10 type L

Compr. fit. 12 x compr. fit. 12 x compr. fit. 12 type L

Part no.	I	II	Z
07 514 00	x	x	x
07 515 00	x	x	x
07 516 00	x	x	x



## Straight stainless steel screw-in compr. fitting type GERK-X

DIN 2353 - form B with conical screwed plug DIN 3852-2 - form C

Straight stainless steel screw-in compression fitting type GERK-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x R 1/4 M type L

Compr. fit. 10 x R 3/8 M type L

Compr. fit. 12 x R 1/2 M type L

Part no.	I	II	Z
07 590 00	x	x	x
07 592 00	x	x	x
07 594 00	x	x	x



## Elbow stainless steel screw-in compr. fitting type WERK-X

DIN 2353 - form G with conical screwed plug DIN 3852-2 - form C

Elbow stainless steel screw-in compression fitting type WERK-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x R 1/4 M type L

Compr. fit. 10 x R 3/8 M type L

Compr. fit. 12 x R 1/2 M type L

Part no.	I	II	Z
07 541 00	x	x	x
07 542 00	x	x	x
07 544 00	x	x	x

# Pipe system

**NEW**

## Straight stainless steel bulkhead compr. fitting type SV-X

EN ISO 8434-1 - BHSC

Straight stainless steel bulkhead compression fitting type SV-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.		I	II	Z
07 570 00		x	x	x

**NEW**

## Elbow stainless steel bulkhead compr. fitting type WSV-X

EN ISO 8434-1 - BHEC

Elbow stainless steel bulkhead compression fitting type WSV-X  
With stainless steel olive for stainless steel pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.		I	II	Z
07 580 00		x	x	x

## Stainless steel coupling nut type M-X

For compression fittings according to DIN 2353 / DIN EN ISO 8434-1 and  
according to DIN EN ISO 8434-1-N

Technical data

• Material: stainless steel

Coupling nut type M-X

8 M14 x 1.5 F type L

10 M16 x 1.5 F type L

12 M18 x 1.5 F type L

Part no.		I	II	Z
07 551 00		x	x	x
07 552 00		x	x	x
07 553 00		x	x	x



## Stainless steel olive type D-X

DIN 3861 - form A-V

Technical data

• Material: stainless steel

Stainless steel olive type D-X

8 type L

10 type L

12 type L

Part no.		I	II	Z
07 551 01		x	x	x
07 552 01		x	x	x
07 553 01		x	x	x



# Pipe system



## Pre-assembly socket type VOMO

When assembling stainless steel compression fittings, the pre-assembly may only be carried out in the hardened pre-assembly socket.  
A sliding means is to be used for the pre-assembly. Steel or brass compression fittings can also be pre-assembled in the pre-assembly socket.

### Technical data

- Material: steel, hardened

### Pre-assembly socket type VOMO

- 8 M14 x 1.5 M
- 10 M16 x 1.5 M
- 12 M18 x 1.5 M

Part no.		I	II	Z
07 599 08		x	x	x
07 599 10		x	x	x
07 599 12		x	x	x

## Sliding means

For the pre-assembly or assembly of stainless steel compression fittings

### Sliding means

Tube 100 g

Part no.		I	II	Z
07 599 50		x	x	x

# Pipe system



## Remark on brass compression fittings

For the correct selection and assembly of compression fittings, please observe the GOK assembly instructions (under [www.gok-online.de](http://www.gok-online.de) and the chapter "Service") and the compression fitting and screw-in compression fitting data sheets.

Material: brass (CW 614 N or CW 617 N). All fittings are DVGW-tested.

### Straight compression fitting type G-MS

EN ISO 8434-1 - SC

Straight compression fitting type G-MS

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.

I

II

Z

07 602 00

x

x

x

### Elbow compression fitting type W-MS

EN ISO 8434-1 - EC

Elbow compression fitting type W-MS

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.

I

II

Z

07 608 00

x

x

x

### T-shape compression fitting type T-MS

EN ISO 8434-1 - TC

T-shape compression fitting type T-MS

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 x compr. fit. 8 type L

Part no.

I

II

Z

07 614 00

x

x

x

### Straight bulkhead compression fitting type SV-MS

EN ISO 8434-1 - BHSC

Straight bulkhead compression fitting type SV-MS

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.

I

II

Z

07 880 00

x

x

x

### Elbow bulkhead compression fitting type WSV-MS

EN ISO 8434-1 - BHEC

Elbow bulkhead compression fitting type WSV-MS

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8 type L

Part no.

I

II

Z

07 681 00

x

x

x



# Pipe system



## Soldering socket

For pipelines as adapter between copper pipe and compression fitting

### Advantages and equipment

- One end soldering sleeve according to EN 1254-1 with soldering connector for outer pipe diameter, other end pipe socket for compression fitting according to EN ISO 8434-1

## Technical data

- Material: brass

## Soldering socket

For outer pipe diameter x pipe socket x length

## Long model

8 x 8 x 60 mm

10 x 10 x 60 mm

12 x 12 x 80 mm

Part no.		I	II	Z
14 493 00		x	x	x
14 493 01		x	x	x
14 490 00		x	x	x

## Threaded socket

For the assembly of fittings in the pipeline

## Technical data

- Material: brass or steel
- Sealing form C = thread-sealing connection and sealant according to EN 10226-1 / ISO 7-1
- Sealing form KN = male thread G, with 60° inner cone for ball-cone connector
- Sealing form A = sealing surface according to DIN 3852-2
- Sealing form NPT = thread-sealing connection and, if necessary, sealant according to ASME ANSI B1.20.1-1983



## Threaded socket

## Sealing form: C/KN 60°

$$R \frac{1}{8} M \times G \frac{3}{8} M$$

R 1/4 M x G 3/8 M

R 3/8 M x G 1/4 M

R 3/8 M x G 3/8 M

R 1/2 M x G 3/8 M

Sealing form: A/KN 60°

G 1/4 M x G 1/4 M

Sealing form: NPT/KN 60°

1/4 NPT M x G 3/8 M



## Sealing form: A/A

G 1/4 M x G 1/8 F

G 1/8 M x G 1/8 F



## Sealing form: KN/KN 60°

$$G \frac{1}{4} M \times G \frac{1}{4} M$$

G 3/8 M x G 3/8 M

Part no.	I	II	Z
13 093 00	x	x	x
13 082 00	x	x	x
13 079 00	x	x	x
13 083 00	x	x	x
13 084 00	x	x	x
13 080 01	x	x	x
13 081 00	x	x	x
13 606 12	x	x	x
13 606 13	x	x	x
13 080 00	x	x	x
13 087 00	x	x	x

# Pipe system



## Universal connectors type UA PS 16 bar

Clamping connector of version G according to prEN 12514-4:2009 annex D for construction elements with G 3/8 female thread

Complete set of clamping ring fittings including brass reinforcement ring for the connection of copper or brass oil pipes with an outer diameter of 6, 8 or 10 mm with a filter, a suction kit or other construction elements with G 3/8 parallel female thread. Pressure screw with G 3/8 parallel male thread.

### Advantages and equipment

- With brass reinforcement ring

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Material: brass

### Note

- Only use universal connectors as a complete construction unit!

## Universal connectors type UA

For outer pipe diameter

8 and 10 mm

Single set

Double set

6 mm

Single set

8 mm

Single set

10 mm

Single set

Pressure screw

For outer pipe diameter

6, 8 and 10 mm

G 3/8 M

Part no.

I

II

Z

15 227 00

x

x

x

15 227 01

x

x

x

15 227 03

x

x

x

15 227 07

x

x

x

15 227 06

x

x

x

15 227 20

x

x

x

## Universal set

Part no.

I

II

Z

Compression ring connector for the connection of oil lines with an outer diameter of 8, 10 and 12 mm with a filter or a suction kit with G 3/8 parallel female thread

### Note

- Not suitable for use in Germany!

### Universal set

For outer pipe diameter

8, 10 and 12 mm

Double set with pressure screw G 3/8 M metal

15 225 00

x

x

x



# Pipe system



## Straight screw-in compr. fitting short version type GERB

For screw-in holes G 3/8 of compression fittings and fixtures

### Advantages and equipment

- Through a complete screwing-in of the short threaded plug, reliable sealing between the O-ring of the fitting and the sealing surface, e.g. filter
- With O-ring 14 x 2 NBR at the screwed plug

## Technical data

- DIN 2353 - form D with screwed plug, DIN 3852-2 - form B short
- Maximum admitted pressure: PS 25 bar
- Material: steel

### Straight screw-in compression fitting short version type GERB

With steel olive for steel pipes

Compr. fit.	6	x	G 3/8	M	DL	type L	13 062 05		x	x	x
Compr. fit.	8	x	G 3/8	M	DL	type L	13 063 05		x	x	x
Compr. fit.	10	x	G 3/8	M	DL	type L	13 066 05		x	x	x
Compr. fit.	12	x	G 3/8	M	DL	type L	13 067 05		x	x	x

With brass olive for copper pipes

Compr. fit.	6	x	G 3/8	M	DL-MS	type L	13 062 06		x	x	x
Compr. fit.	8	x	G 3/8	M	DL-MS	type L	13 063 06		x	x	x
Compr. fit.	10	x	G 3/8	M	DL-MS	type L	13 066 06		x	x	x
Compr. fit.	12	x	G 3/8	M	DL-MS	type L	13 067 06		x	x	x

## Replacement part

O-ring 14 x 2 NBR for connection G 3/8 M	13 007 22		x	x	x
O-ring 14 x 2 FKM for connection G 3/8 M	25 520 33		x	x	x

# Pipe system



## Seamless precision steel pipe

According to EN 10305-4, seamless, cold-drawn, available in fixed lengths of 5 metres

Operating materials:

- Inflammable, easily or highly inflammable as well as non-inflammable or water-endangering liquids
- Liquid gas according to DIN 51622 and EN 589 (gaseous and liquid phase)
- For hydraulic and pneumatic applications

The seamless precision steel pipe meets the requirements:

- Of the Pressure Equipment Directive 97/23/EC
- For use in metallic industrial pipes according to EN 13480-1 with material of valuable substance group 1.1 according to CR ISO 15608
- Of the AD 2000 working sheets HP 100R and W 4
- On pipes according to EN 10305-4 as connection for compression fittings according to EN ISO 8434-1

## Technical data

- Technical delivery terms according to EN 10305-4; steel grade E235+N (normalized in delivery conditions), material number: 1.0308
- Dimensions and tolerances according to EN 10305-4, upon request with inspection certificate 3.1 according to EN 10204
- Surface finish: galvanised zinc coat according to EN 50961, layer thickness  $8 \div 12 \mu\text{m}$  and with chrome VI free passivation
- Minimum and maximum temperature TS:  $0^\circ\text{C}$  to  $+300^\circ\text{C}$

### Note

- The maximum admitted pressure PS (at +20 °C) according to EN 13480-3 is shown in the product table as 1<sup>st</sup> case and 2<sup>nd</sup> case:  
1<sup>st</sup> case ( $c_0 = 0$  mm) e.g. for liquid gas, 2<sup>nd</sup> case ( $c_0 = 1$  mm) e.g. for fuel oil ( $c_0$  = additional for wear and tear in case of corrosion)

## Seamless precision steel pipe

## Outer pipe diameter x wall thickness in mm

6 x 1.2	packing unit: 200 m	1 <sup>st</sup> case: 619 bar	2 <sup>nd</sup> case: 38 bar
8 x 1.0	packing unit: 125 m	1 <sup>st</sup> case: 360 bar	2 <sup>nd</sup> case: --
8 x 1.5	packing unit: 125 m	1 <sup>st</sup> case: 603 bar	2 <sup>nd</sup> case: 152 bar
10 x 1.0	packing unit: 85 m	1 <sup>st</sup> case: 285 bar	2 <sup>nd</sup> case: --
10 x 1.5	packing unit: 85 m	1 <sup>st</sup> case: 459 bar	2 <sup>nd</sup> case: 117 bar
12 x 1.0	packing unit: 125 m	1 <sup>st</sup> case: 234 bar	2 <sup>nd</sup> case: --
12 x 1.5	packing unit: 125 m	1 <sup>st</sup> case: 375 bar	2 <sup>nd</sup> case: 99 bar
15 x 1.5	packing unit: 80 m	1 <sup>st</sup> case: 294 bar	2 <sup>nd</sup> case: 81 bar
18 x 1.5	packing unit: 60 m	1 <sup>st</sup> case: 241 bar	2 <sup>nd</sup> case: 67 bar
22 x 1.5	packing unit: 35 m	1 <sup>st</sup> case: 269 bar	2 <sup>nd</sup> case: 123 bar

No liability assumed for details on to the maximum admitted pressure.

Minimum purchase quantity: 1 packing unit  
(different versions also possible)

[illegible]

## Pipe bending device

With 6 replaceable bending rolls with an outer diameter of 6 to 18 mm

### Note

- Different versions, e.g. 20, 22 and 25 mm, available upon request.

## Pipe bending device

Version 6-18

Part no.		I	II	Z
06 500 00		x	x	x

# Pipe system



## Aluplast pipe PS 25 bar

### Advantages and equipment

- Particularly suitable for FAME and fuel oil EL A Bio

### Technical data

- Material no. EN AW-1070A according to EN 573-3
- Pipe according to EN 755-1
- PVC sheath, layer thickness 1.6 mm

### Note

- For the mounting of compression fittings to Aluplast pipes, it is necessary that steel reinforcement rings (see e.g. part no. 08 083 00) and unhardened steel olives (see e.g. part no. 07 151 03) or stainless steel olives (see e.g. part no. 07 551 01) are used!

### Aluplast pipe

Outer pipe diameter x wall thickness in mm

10 x 1 packing unit: 50 m

Part no.	I	II	Z
06 203 00	x	x	x



## Reinforcement ring

For thin-walled pipes or soft pipe materials, e.g. copper pipe, in compression and clamping ring fittings according to DIN 3859-2

### Note

- According to prEN 12514-4: 2009, reinforcement rings for copper pipes must always be used in compression and clamping ring fittings.
- The installation of copper pipes with reinforcement rings in a liquid gas installation in Germany is only permitted for the caravan and marine sector.

### Reinforcement ring

For outer pipe diameter x wall thickness in mm

Material: brass

6 x 1

8 x 1

10 x 1

12 x 1

15 x 1

18 x 1

Material: steel, yellow zinc-plated

8 x 1

10 x 1

12 x 1

Part no.	I	II	Z
08 092 00	x	x	x
08 093 00	x	x	x
08 094 00	x	x	x
08 095 00	x	x	x
08 096 00	x	x	x
08 100 00	x	x	x
08 083 00	x	x	x
08 084 00	x	x	x
08 085 00	x	x	x



## Non-return valve PS 10 bar

Prevents drop of oil column at a burner standstill

### Technical data

- Non-return valve according to EN 12514-2

### Non-return valve

G 3/8 F x G 3/8 F

Part no.	I	II	Z
13 110 00	x	x	



# Pipe system



## Isolating separation connector type ITV PS 16 bar

For the separation of underground tank installations with cathodic corrosion protection and earthed components or in case of different pipe materials, for the prevention of contact corrosion (galvanised separation).  
Meets the requirements of TRbF 521 No. 6.51 and EN 12514-2.

## Approval

- German ÜHP type approval according to building code list to EN 12514-2

## Technical data

- Material: steel

### Isolating separation connector type ITV

With steel olive for steel pipes

Compr. fit. 6	x	compr. fit. 6	07 900 00		x	x	x
Compr. fit. 8	x	compr. fit. 8	07 901 00		x	x	x
Compr. fit. 10	x	compr. fit. 10	07 902 00		x	x	x
Compr. fit. 12	x	compr. fit. 12	07 903 00		x	x	x
Compr. fit. 15	x	compr. fit. 15	07 904 00		x	x	x
Compr. fit. 18	x	compr. fit. 18	07 905 00		x	x	x

With brass olive for copper pipes

Compr. fit. 6	x	compr. fit. 6	07 900 06		x	x	x
Compr. fit. 8	x	compr. fit. 8	07 901 06		x	x	x
Compr. fit. 10	x	compr. fit. 10	07 902 06		x	x	x
Compr. fit. 12	x	compr. fit. 12	07 903 06		x	x	x
Compr. fit. 15	x	compr. fit. 15	07 904 06		x	x	x
Compr. fit. 18	x	compr. fit. 18	07 905 06		x	x	x



## Pressure compensation valve type DAV7 PS 10 bar

Safety device against excessive pressure

For the restriction of the pressure increase in enclosed suction line sections through the provision of an expansion volume without additional drainage of the fuel oil.

In suction lines the pressure can increase in the event of a double-sided blockage due to a temperature-related change in volume of the fuel oil.

### Advantages and equipment

- With additional protection in the event of exceeding the maximum working pressure

## Approval

- German ÜHP type approval according to building code list to EN 12514-2

## Technical data

- Working pressure for volume expansion: 0.5 bar to 3.8 bar
- Volume expansion: maximum 5 cm<sup>3</sup>
- Laid out for a temperature increase of  $\Delta T = 40 \text{ K}$ .

### Pressure compensation valve type DAV7

G 3/8 F x G 3/8 F	15 550 00		x	x
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# Pipe system

## Remark on hose assemblies PS 10 bar

The hose assemblies correspond to type 1 according to EN ISO 6806. The maximum admitted negative pressure is -0.6 bar. The hoses consist of an inner NBR and PA layer and an outer metallic wire mesh.

For the correct assembly of hose assemblies, please observe the GOK data sheet "Hose assemblies for oil firing installations" (download in PDF format under [www.gok-online.de](http://www.gok-online.de) in the chapter "Downloads").

## Hose assembly for central oil supply installations PS 10 bar

Part no. I II Z

For the flexible connection of e.g. the MIC combined service box and oil heaters

### Technical data

- Material of the inner hose layer: NBR

### Hose assembly for central oil supply installations

#### Straight steel pipe sockets on both ends

Pipe socket 8 x pipe socket 8 x 300 mm	12 006 00			x
Pipe socket 8 x pipe socket 8 x 400 mm	12 007 00			x
Pipe socket 8 x pipe socket 8 x 500 mm	12 008 00			x
Pipe socket 8 x pipe socket 8 x 750 mm	12 009 00			x
Pipe socket 8 x pipe socket 8 x 1000 mm	12 010 00			x
Pipe socket 10 x pipe socket 10 x 300 mm	12 011 00			x
Pipe socket 10 x pipe socket 10 x 500 mm	12 013 00			x
Pipe socket 10 x pipe socket 10 x 750 mm	12 014 00			x
Pipe socket 10 x pipe socket 10 x 1000 mm	12 015 00			x

#### Straight copper pipe sockets on both ends

Pipe socket 8 x pipe socket 8 x 300 mm	12 026 00			x
Pipe socket 8 x pipe socket 8 x 500 mm	12 028 00			x
Pipe socket 8 x pipe socket 8 x 750 mm	12 029 00			x
Pipe socket 8 x pipe socket 8 x 1000 mm	12 030 00			x

#### Steel pipe socket 90° on one end

#### Straight steel pipe socket on the other end

Pipe socket 8 x pipe socket 8 x 300 mm	12 090 00			x
Pipe socket 8 x pipe socket 8 x 400 mm	12 091 00			x
Pipe socket 8 x pipe socket 8 x 500 mm	12 092 00			x
Pipe socket 8 x pipe socket 8 x 750 mm	12 093 00			x
Pipe socket 8 x pipe socket 8 x 1000 mm	12 094 00			x

#### Male fitting for pipes M14 x 1.5 on copper pipe socket 90° on one end

#### Straight steel pipe sockets on the other end

M14 x 1.5 M x pipe socket 8 x 600 mm	12 145 00			x
M14 x 1.5 M x pipe socket 8 x 800 mm	12 146 00			x

#### Coupling nut M14 x 1.5 on copper pipe socket 90° on one end

#### Straight steel pipe sockets on the other end

M14 x 1.5 nut x pipe socket 8 x 600 mm	12 147 00			x
M14 x 1.5 nut x pipe socket 8 x 800 mm	12 148 00			x



# Pipe system

## Hose assembly for central heating systems PS 10 bar

For the flexible connection of the filter and burner

### Technical data

- Material of the inner hose layer: NBR

### Hose assembly for central heating systems

Coupling nut with cone-shaped sealed surface on one end

Conical male thread according to EN 10226-1 / ISO 7-1 on the other end

G 3/8 nut x R 1/8 M x 750 mm

12 080 00

x x

G 3/8 nut x R 1/8 M x 1000 mm

12 080 01

x x

G 3/8 nut x R 1/4 M x 500 mm

12 073 00

x x

G 3/8 nut x R 1/4 M x 750 mm

12 074 00

x x

G 3/8 nut x R 1/4 M x 1000 mm

12 075 00

x x

G 3/8 nut x R 3/8 M x 500 mm

12 068 00

x x

G 3/8 nut x R 3/8 M x 750 mm

12 069 00

x x

G 3/8 nut x R 3/8 M x 1000 mm

12 070 00

x x

### Coupling nuts with cone-shaped sealing surface on both ends

G 3/8 nut x G 3/8 nut x 500 mm

12 063 00

x x

G 3/8 nut x G 3/8 nut x 750 mm

12 064 00

x x

G 3/8 nut x G 3/8 nut x 1000 mm

12 065 00

x x

G 3/8 nut x G 3/8 nut x 1250 mm

12 065 12

x x

G 3/8 nut x G 3/8 nut x 1500 mm

12 065 15

x x

### Coupling nut with cone-shaped sealing surface on one end

Parallel male thread according to EN ISO 228-1

with screwed plug form A according to DIN 3852-2 on the other end

G 3/8 nut x G 3/8 M x 500 mm

12 068 01

x x

G 3/8 nut x G 3/8 M x 750 mm

12 069 01

x x

G 3/8 nut x G 3/8 M x 1000 mm

12 070 01

x x

### Coupling nut with cone-shaped sealing surface on one end

NPT male thread according to ANSI B 1.20.1.-1983 on the other end

G 3/8 nut x 1/4 NPT M x 500 mm

12 077 00

x x

G 3/8 nut x 1/4 NPT M x 750 mm

12 078 00

x x

G 3/8 nut x 1/4 NPT M x 1000 mm

12 079 00

x x



## Hose assembly BIO for central heating systems PS 10 bar

For the flexible connection of the filter and burner

### Advantages and equipment

- Smell-free version

### Technical data

- Material of the inner hose layer: PA

### Hose assembly BIO for central heating systems

Coupling nuts with cone-shaped sealing surface on both ends

G 3/8 nut x G 3/8 nut x 500 mm

12 263 00

x x

G 3/8 nut x G 3/8 nut x 750 mm

12 264 00

x x

G 3/8 nut x G 3/8 nut x 1000 mm

12 265 00

x x

G 3/8 nut x G 3/8 nut x 1250 mm

12 265 12

x x

G 3/8 nut x G 3/8 nut x 1500 mm

12 265 15

x x

# Pipe system

## Hose assembly for special burners PS 10 bar

For the flexible connection of the filter and burner

### Technical data

- Material of the inner hose layer: NBR

Hose assembly for special burners

Suitable for burners: Hansa, Convair, Golling

G 3/8 nut x G 3/8 nut x 1000 mm

Suitable for burners: Elco-Junior, MAN

G 3/8 nut x G 1/4 M x 1000 mm

G 3/8 nut x G 1/8 M x 1000 mm

Suitable for burners: Weishaupt, Elco, Körting

90° pipe socket with pre-assembled steel nut and steel olive 6 type LL

G 3/8 nut x pipe socket 6 x 1000 mm

Suitable for burners: Weishaupt, Vaillant

45° pipe socket with pre-assembled steel nut and steel olive 8 type LL

G 3/8 nut x pipe socket 8 x 1000 mm

Suitable for burners: Brötje/Cuenod

78° pipe socket with pre-assembled steel nut and steel olive 8 type L

G 3/8 nut x pipe socket 8 x 1000 mm

Suitable for burners: Klöckner KL20, Oertli OE 9, Hofamat

Pipe socket 12 with M 12 x 1.5 nut

G 3/8 nut x pipe socket 12 x 1000 mm

Suitable for burners: Oertli, Mainflamme, Enerjet, Abig

90° with G 1/4 coupling nut

G 3/8 nut x G 1/4 nut x 1000 mm

Suitable for burners: Viessmann

45° with G 1/4 male fitting for pipes

G 3/8 nut x G 1/4 male fitting for pipes x 1000 mm

Part no.

I

II

Z

12 099 00

x

x

12 160 00

x

x

12 161 00

x

x

12 162 00

x

x

12 163 00

x

x

12 164 00

x

x

12 165 00

x

x

12 167 00

x

x

12 169 00

x

x

## Hose assembly BIO for special burners PS 10 bar

For the flexible connection of the filter and burner

### Technical data

- Material of the inner hose layer: PA

Hose assembly BIO for special burners

Suitable for burners: Weishaupt, Elco, Körting

90° pipe socket with pre-assembled steel nut and steel olive 6 type LL

G 3/8 nut x pipe socket 6 x 1000 mm

Suitable for burners: Oertli, Mainflamme, Enerjet, Abig

90° with G 1/4 coupling nut

G 3/8 nut x G 1/4 nut x 1000 mm

Part no.

I

II

Z

12 262 00

x

x

12 267 00

x

x



NEW



# Pipe system

## Remark on pipe support systems

The dimensions of the pipe support systems refer to the outer pipe diameter in mm.

### Plastic pipe clamp

Part no.

I

II

Z

For the fastening of pipelines to the wall

#### Note

- For fire protection reasons, not permitted for use in liquid gas installations!

#### Plastic pipe clamp

##### Single

6

08 114 00

x

x

x

8

08 101 00

x

x

x

10

08 102 00

x

x

x

12

08 103 00

x

x

x

15

08 104 00

x

x

x

18

08 105 00

x

x

x

22

08 106 00

x

x

x

##### Double

8

08 113 00

x

10

08 108 00

x

12

08 109 00

x

15

08 110 00

x

18

08 111 00

x

22

08 116 00

x

### Clamp with screwed thread

Part no.

I

II

Z

For the fastening of pipelines to the wall

#### Technical data

- Material: metal

#### Clamp with screwed thread

##### Single

4 - 8 zinc-plated

08 050 00

x

x

x

8 - 10 zinc-plated

08 061 00

x

x

x

8 - 10 copper-plated

08 062 00

x

x

x

12 - 16 zinc-plated

08 065 00

x

x

x

12 - 16 copper-plated

08 066 00

x

x

x

##### Double

4 - 8 copper-plated

08 051 00

x

8 - 10 zinc-plated

08 063 00

x

8 - 10 copper-plated

08 064 00

x

12 - 16 zinc-plated

08 067 00

x

12 - 16 copper-plated

08 068 00

x

# Pipe system



## Fastening bolt

For plastic pipe clamps and clamps with screwed thread

### Technical data

- Material: steel

### Fastening bolt

M 6 M 30 mm long

M 6 M 40 mm long

Part no.		I	II	Z
08 112 00		x	x	x
08 115 00		x	x	x



## Pin pipe clamp

For the fastening of pipelines to the wall

### Technical data

- Material: metal

### Pin pipe clamp

#### Single

4 - 8 zinc-plated

8 - 10 zinc-plated

8 - 10 copper-plated

12 - 16 zinc-plated

12 - 16 copper-plated

#### Double

4 - 8 zinc-plated

8 - 10 zinc-plated

8 - 10 copper-plated

12 - 16 zinc-plated

12 - 16 copper-plated

Part no.		I	II	Z
08 048 00		x	x	x
08 053 00		x	x	x
08 054 00		x	x	x
08 057 00		x	x	x
08 058 00		x	x	x
08 049 00			x	
08 055 00			x	
08 056 00			x	
08 059 00			x	
08 060 00			x	



## Metal pipe clamp

For the fastening of pipelines to the wall

### Advantages and equipment

- With rubber profile

### Note

- For fire protection reasons, not permitted for use in German TRF installations!

### Metal pipe clamp

6

8

10

12

15

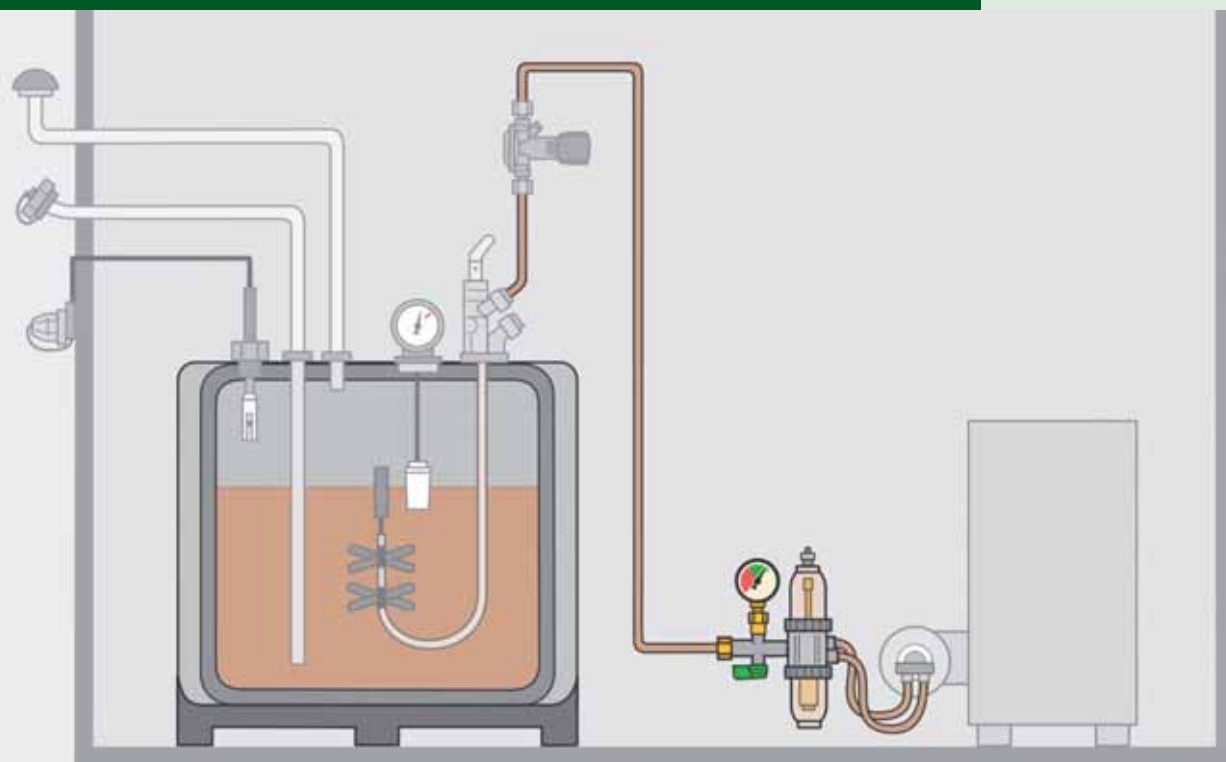
18

Part no.		I	II	Z
08 033 01		x	x	x
08 034 01		x	x	x
08 035 01		x	x	x
08 036 01		x	x	x
08 037 01		x	x	x
08 038 01		x	x	x



GOK

## Filters



### **Combined fuel oil filter and deaerator type GS Pro-Fi 3**

#### **Sample application:**

GS Pro-Fi 3 in a single conduit system of an oil firing system with shut-off device before the consumer device. Installed suction kit type VTK-2 without non-return valve. No oil smell in the installation room.

# Filters



## Combined fuel oil filter and deaerator type GS Pro-Fi 3

For installation in single conduit systems with return feed above or below the top of the tank

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6 maximum 30% FAME
- Diesel fuel according to EN 590 and DIN 51628
- FAME according to EN 14213 and EN 14214

### Advantages and equipment

- Smell-free guaranteed without additional accessories
- No escape of oil or oil foam
- Safety function in the event of suction hose failure
- Integrated ball valve as required shut-off valve before the consumer device
- Connecting hose for oil aspiration pump
- Vacuum gauge option available -1.0 to +0.6 bar to control the negative pressure in the aspiration line and therefore the operational states

## Approval

- German ÜHP type approval according to building code list to EN 12514-2

## Technical data

- Nominal flow according to prEN 12514-3:2009: 110 l/h, with the following pressure losses in the use of:
  - sintered plastic filter insert 70 µm = 110 mbar
  - sintered plastic filter insert 35 µm = 210 mbar
  - sintered plastic filter insert 70 µm long = 105 mbar
- Supply/return rate at a pressure difference of 1.3 bar = 160 l/h
- Venting power according to prEN 12514-3:2009: 10 l/h air
- Material:
 

housing:	zinc die-casting ZP0410
filter cup:	plastic or metal



Plastic filter cup



Metal filter cup

Combined fuel oil filter and deaerator type GS Pro-Fi 3

With plastic filter cups, without vacuum gauge

G 3/8 F x G 3/8 M	sintered plastic 35 $\mu$ m	PS 6 bar
G 3/8 F x G 3/8 M	sintered plastic 70 $\mu$ m	PS 6 bar
G 3/8 F x G 3/8 M	sintered plastic 35 $\mu$ m, long	PS 6 bar
G 3/8 F x G 3/8 M	exchange filter 25 $\mu$ m	PS 6 bar

With plastic filter cups, with vacuum gauge

G 3/8 F x G 3/8 M	sintered plastic 35 µm	PS 6 bar
G 3/8 F x G 3/8 M	sintered plastic 35 µm, long	PS 6 bar
G 3/8 F x G 3/8 M	exchange filter 25 µm	PS 6 bar

With metal filter cups, without vacuum gauge

G 3/8 F x G 3/8 F	sintered plastic 70 µm	PS 10 bar
G 3/8 F x G 3/8 M	sintered plastic 35 µm	PS 16 bar

With metal filter cups, with vacuum gauge

G 3/8 F x G 3/8 F    sintered plastic 70  $\mu$ m    PS 6 bar

With plastic filter cups, without vacuum gauge, for Spain

G 3/8 F x G 3/8 F    sintered plastic 35 µm    PS 6 bar

## Accessories

Vacuum test kit type UPE-300	13 602 00	x	x	x
Oil aspiration pump with suction and drainage hose	13 610 00	x	x	x
Connecting hose for oil aspiration pump G 3/8	13 610 60	x	x	x

[illegible]



# Filters



## Single conduit filter with return line type 500ERAZ PS 6 bar

For the filtering of liquid media

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil EL A Bio according to DIN V 51603-6 maximum 20% FAME
- Diesel fuel according to EN 590 and DIN 51628
- FAME according to EN 14213 and EN 14214
- Vegetable oils

Advantages and equipment

- With wall bracket
- Quick-acting stop valve
- Fuel oil returning from the burner is filtered again through the construction
- Manual ventilation when setting into operation

Approval

- German ÜHP type approval according to building code list to EN 12514-2

Technical data

- Material: housing: zinc die-casting ZP0410  
gaskets: FKM

### Single conduit filter with return line type 500ERAZ

With plastic filter cup

- |         |   |         |                        |
|---------|---|---------|------------------------|
| G 3/8 F | x | G 3/8 M | sintered plastic 70 µm |
| UA 8/10 | x | G 3/8 M | sintered plastic 70 µm |
| G 3/8 F | x | G 3/8 M | felt 70-80 µm          |
| UA 8/10 | x | G 3/8 M | felt 70-80 µm          |

Accessories

Vacuum test kit type UPE-300

Part no.	I	II	Z
13 861 72	x		
13 861 71	x		
13 861 00	x		
13 861 11	x		
13 602 00	x	x	x



## Double conduit filter type 500ZAZ PS 6 bar

For the filtering of liquid media

Advantages and equipment

- With wall bracket
- Quick-acting stop valve

Approval

- German ÜHP type approval according to building code list to EN 12514-2

Technical data

- Material: housing: zinc die-casting ZP0410  
gaskets: NBR

### Double conduit filter type 500ZAZ

With plastic filter cup

- |         |   |         |                        |
|---------|---|---------|------------------------|
| G 3/8 F | x | G 3/8 M | sintered plastic 70 µm |
| UA 8/10 | x | G 3/8 M | sintered plastic 70 µm |
| G 3/8 F | x | G 3/8 M | felt 70-80 µm          |
| UA 8/10 | x | G 3/8 M | felt 70-80 µm          |
| G 3/8 F | x | G 3/8 M | stainless steel 300 µm |
| UA 8/10 | x | G 3/8 M | stainless steel 300 µm |

Part no.	I	II	Z
13 851 72		x	
13 851 71		x	
13 851 05		x	
13 851 11		x	
13 851 00		x	
13 851 10		x	



# Filters

**NEW**


## Single conduit filter type 500EZ PS 6 bar

For the filtering of liquid media in pipelines

### Advantages and equipment

- Compatible with all accessory components of the filter type 500

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Material: housing: zinc die-casting ZP0410  
gaskets: NBR

### Single conduit filter type 500EZ

#### With plastic filter cup

G 3/8 F x G 3/8 F sintered plastic 35 µm

G 3/8 F x G 3/8 F sintered plastic 70 µm

G 1/2 F x G 1/2 F sintered plastic 35 µm

G 1/2 F x G 1/2 F sintered plastic 70 µm

Part no.	I	II	Z
13 049 04	x		x
13 049 00	x		x
13 050 04	x		x
13 050 00	x		x

**NEW**


## Single conduit filter type 500EAZ PS 6 bar

For the filtering of liquid media in pipelines

### Advantages and equipment

- Particularly suitable for oil metres and oil pressure regulators
- Quick-acting stop valve
- Compatible with all accessory components of the filter type 500
- Two screw-in holes M5 for fixing a wall bracket

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Material: housing: zinc die-casting ZP0410  
gaskets: FKM

### Single conduit filter type 500EAZ

#### With plastic filter cup

G 3/8 F x G 3/8 F sintered plastic 70 µm

Compr. fit. 8 x compr. fit. 8 sintered plastic 70 µm

#### With wall bracket

G 3/8 F x G 3/8 F sintered plastic 70 µm

Part no.	I	II	Z
13 051 00	x		x
13 051 08	x		x
13 051 04	x		x



## Single conduit filter type 85E PS 6 bar

For the filtering of liquid media

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Material: housing: brass  
gasket: NBR

### Single conduit filter type 85E

#### With plastic filter cup

Compr. fit. 8 x compr. fit. 8

Part no.	I	II	Z
13 023 00	x		x



# Filters

NEW



## Fuel oil emergency supply set

For the pre-filtering of fuel oil extracted from a steel canister

### Advantages and equipment

- Extraction of fuel oil from 20 litre canister models A and B according to the technical delivery conditions TL 7240-0022 of the German Federal Office for Defence Technology and Procurement
- Frictional connection of canister fitting with cam lever, internal sealing and vent hole
- Supply and return pipes are securely fixed in the canister connection and on the double conduit filter type 500ZAZ using compression fittings
- For the direct connection of the burner hose lines to the double conduit filter
- Double conduit system simultaneously ensures ventilation during the emergency supply

### Technical data

- Steel pipe canister line 8 x 1 mm with material E235
- Double conduit filter type 500ZAZ with sintered plastic filter element 70 µm (part no. 13 851 72)
- Connectors burner hose line: G 3/8 male thread

### Note

- The steel canister with a connected fuel oil emergency supply set should be installed in a collecting basin during operation.  
The steel canister is not included within the scope of delivery.

### Fuel oil emergency supply set

Complete

Part no.		I	II	Z
13 860 10		x	x	



## Oil fittings combination with GS Pro-Fi 3 PS 10 bar

For single conduit systems for installation before oil burners when using oil feeding units

Consisting of: filter with shut-off device type 500EAZ, solenoid valve with pressure relief device, oil pressure regulator type ODR and GS Pro-Fi 3 with metal filter cups

### Technical data

- Flow rate: up to 20 l/h
- Inlet pressure: 0.5 to 6.0 bar
- Outlet pressure: 100 mbar

### Oil fittings combination with GS Pro-Fi 3

With metal filter cups

Compr. fit. 10 x G 3/8 M sintered plastic 70 µm

Part no.		I	II	Z
13 990 01		x		

# Filters

Filter inserts:



Filter cups:



## Accessories for fuel oil filter

### Filter elements

For types 500EAZ, EZ, ERAZ, ZAZ, EM, ERAM, ZAM  
as well as GS2000 and GS Pro-Fi 3

Felt element 70-80 µm - loose

13 851 80

x

x

Felt element 70-80 µm - 25 pcs in plastic box

13 851 29

x

x

Sintered plastic (siku) 70-80 µm yellow - loose

13 851 81

x

x

Sintered plastic (siku) 70 µm yellow - 25 pcs in plastic box

13 851 33

x

x

Sintered plastic (siku) 35 µm white

13 851 34

x

x

Sintered plastic (siku) 70 µm long yellow

13 851 53

x

x

Sintered plastic (siku) 35 µm long white

13 851 54

x

x

Inox fabric insert 60 µm

13 850 19

x

x

Inox fabric insert 300 µm

13 850 21

x

x

Exchange filter with metal casing WSF 25 µm (PS 10 bar)

13 851 60

x

x

Fine filter MC-7 5-20 µm

13 851 56

x

x

### For types 85 and 200

Inox fabric insert 200 µm

13 009 21

x

x

### Replacement part

For types 500EAZ, EZ, ERAZ, ZAZ, EM, ERAM, ZAM  
as well as GS2000 and GS Pro-Fi 3

Filter cup 500 plastic clear

13 850 22

x

x

Filter cup 500 plastic clear long

13 850 23

x

x

Filter cup 500 metal zinc die-casting (for PS 16 bar)

13 850 25

x

x

Straining ring 500 metal zinc die-casting

13 850 49

x

x

O-ring 500 NBR

13 850 24

x

x

O-ring 500 FKM

25 521 64

x

x

Adapter for exchange filter for zinc die-casting metal

13 851 65

x

x

Sealing ring for NBR adapter

13 851 68

x

x

Exchange filter retrofit set consisting of: adapter, sealing ring for adapter  
and O-ring 500 NBR, without exchange filter (PS 10 bar)

13 851 67

x

x

### For types 85 and 200

Filter cup 85 plastic clear

13 007 27

x

x

Filter cup 200 plastic clear

13 009 27

x

x

Filter cup 85 metal zinc die-casting (PS 16 bar)

13 007 37

x

x

O-ring 85 NBR

13 007 23

x

x

O-ring 200 NBR

25 520 28

x

x

Retrofit sets for types 500EAZ, EZ, ERAZ, ZAZ, EM, ERAM, ZAM  
as well as GS2000 and GS Pro-Fi 3

For long filter element sintered plastic 70 µm

13 852 53

x

x

For long filter element sintered plastic 35 µm

13 852 54

x

x

For exchange filter 25 µm

13 851 62

x

x

### Accessories for the filter assembly

Installation wrench straining ring 500 plastic

13 850 88

x

x

# Regulators

## Remark on oil pressure regulators

A suitable oil pressure regulator must be installed for the respective outlet pressure, if the operating pressure in the oil line exceeds the highest permitted inlet pressure of downstream fittings or consumer devices, e. g. oil heaters.



### Oil pressure regulator type ODR fixed PS 10 bar

#### Approval

- German ÜHP type approval according to building code list to EN 12514-2

#### Technical data

- Inlet pressure: 0.5 to 6.0 bar
- Outlet pressure: 100 mbar
- Nominal flow rate: up to 20 l/h

#### Oil pressure regulator type ODR fixed outlet pressure

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8

Compr. fit. 10 x compr. fit. 10

Part no.

I

II

Z

13 001 00

x

13 002 00

x



### Oil pressure regulator type ODR BIO fixed PS 10 bar

#### Technical data

- Inlet pressure: 0.5 to 6.0 bar
- Outlet pressure: 100 mbar
- Nominal flow rate: up to 20 l/h

#### Oil pressure regulator type ODR BIO fixed outlet pressure

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8

Part no.

I

II

Z

13 001 15

x



### Oil pressure regulator type ODRE-M fixed PS 10 bar

#### Advantages and equipment

- With pressure gauge

#### Approval

- German ÜHP type approval according to building code list to EN 12514-2

#### Technical data

- Inlet pressure: up to 10.0 bar
- Outlet pressure: 0 to 2.5 bar
- Nominal flow rate: up to 180 l/h

#### Oil pressure regulator type ODRE-M fixed outlet pressure

Both sides female thread with O-ring for screw-in connector

G 1/4 F x G 3/8 F

With brass olive for copper pipes

Compression fitting x compression fitting

Compr. fit. 8 x compr. fit. 8

Compr. fit. 10 x compr. fit. 10

Compr. fit. 12 x compr. fit. 12

Compr. fit. 15 x compr. fit. 15

Part no.

I

II

Z

13 504 00

x

13 504 01

x

13 504 02

x

13 504 03

x

13 504 04

x

# Regulators



## Oil pressure regulator type ODRE adjustable PS 10 bar

### Advantages and equipment

- With scale

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Inlet pressure: up to 10.0 bar
- Outlet pressure: 0.08 to 1.4 bar (1 to 17 m oil column)
- Nominal flow rate: up to 20 l/h
- Gauge connector: G 1/4 female thread

Oil pressure regulator type ODRE adjustable outlet pressure

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8

Part no.	I	II	Z
13 501 00			x



## MIC combined service box PS 6 bar

Consisting of: quick-acting stop fitting and pressure regulator

### Advantages and equipment

- Pressure regulator with automatic closing mechanism in the event of oil leakage

### Approval

- German ÜHP type approval according to building code list to EN 12514-2

### Technical data

- Inlet pressure: 0.5 to 4.0 bar
- Outlet pressure: 100 mbar
- Nominal flow rate: up to 12 l/h

MIC combined service box

With brass olive for copper pipes

Compr. fit. 8 x compr. fit. 8

### Accessories

Replacement regulator with automatic closing mechanism

Part no.	I	II	Z
03 023 00			x
03 023 23			x



## Regulators



## Floating oil regulator Toby type DVR 5

Oil regulator according to DIN 4737-1 and 4737-2 for the dosing and closing of the oil supply to the vaporising burner

Product selection using the nominal flow rate:

All oil regulators are set according to the thermal output of the oil heating appliance on the following standard flow rates:

2.9 kW = 2.5 to 6.0 cm<sup>3</sup>/min part no. 01

4.1 kW = 3.5 to 9.0 cm<sup>3</sup>/min part no. 02

6.8 kW = 4.0 to 13.0 cm<sup>3</sup>/min part no. 03

7.5 kW = 4.5 to 16.0 cm<sup>3</sup>/min part no. 04

8.7 kW = 4.5 to 18.0 cm<sup>3</sup>/min part no. 05

11.6 kW = 6.0 to 24.0 cm<sup>3</sup>/min part no. 06

When placing an order, please state the respective last digits of the part no.:

Example: part no. 17 100 00 with 6.8 kW = 17 100 03

## Technical data

- Inlet pressure: 50 mbar
- Inlet pressure range: 10 to 650 mbar
- Outlet pressure: minimum level between the oil level in the oil regulator and the lowest edge of the oil inflow on the burner:  
10 mm
- Nominal flow rate: 2.5 - 130 cm<sup>3</sup>/min
- Standard flow: tolerance  $\pm 5\%$
- Dimensions H/W/D: 110 x 70 x 110 mm

## Note

- Other Toby oil regulators available upon request.
- Can be used for other oil regulator type, upon consultation with the oil heater manufacturer.

## Floating oil regulator Toby type DVR 5

Standard version with regulation by hand

Connector M14 x 1.5 female thread

Version DVR 5211, lower outlet

Version DVR 5221, side outlet

Connector 1/4 NPT female thread

Version DVR 5111, lower outlet

Version DVR 5121, side outlet

For aquastat operation, Toby control units type ZW 12.03 and ZW 13.03 also as a replacement for Toby DVR 3215

Version DVR 5215, lower outlet

Version DVR 5225, side outlet

For electric control, Toby control unit type ZR 31200 and ZR electric top

Version DVR 5213, lower outlet

Version DVR 5223, side outlet

Part no.	I	II	Z
17 100 00			x
17 101 00			x
17 115 00			x
17 115 07			x
17 105 00			x
17 106 00			x
17 110 00			x
17 111 00			x

## Regulators



## Floating oil regulator Toby type DVR 5

## Replacement part

Filter DVR 5.1	17 120 00				x
Filter seal DVR 5.2	17 121 00				x
Filter cover DVR 5.3	17 122 00				x
Evacuation screw with seal DVR 5.4	17 123 00				x
Screw set for DVR 5.5	17 124 00				x
Dosing rod with normal gasket and spring (specify heat output) DVR 5.6	17 125 00				x
Dosing seal DVR 5.7 to DVR 5.6	17 127 00				x
O-ring DVR 5.7 A for dosing rod to DVR 5.6	17 128 00				x
Complete float group DVR 5.8 A / DVR 5.11 A	17 129 00				x
with an inlet valve body Ø 1.2 mm					
Normal cover group DVR 5.9	17 130 00				x
Flange screw 8 mm for oil regulator with inner flange	17 131 00				x

Part no.

I

II

Z



# Safety and monitoring

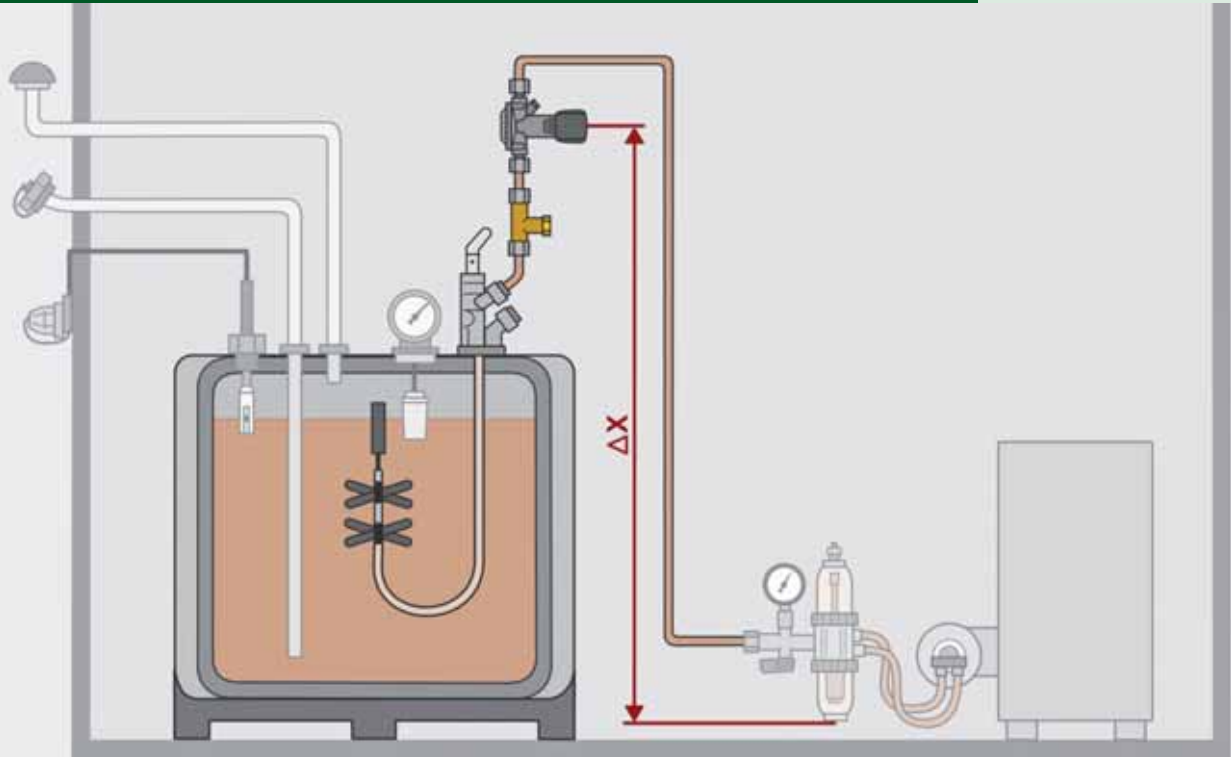


Figure 1

## Membrane-controlled or solenoid valve anti-siphon device

### Sample application:

Anti-siphon device for protection against siphoning in oil-conducting suction lines, suction kit type VTK-2 with non-return valve.  
The pressure compensation valve type DAV 7 impairs a possible double-sided blocking between suction kit and anti-siphon device.

#### Figure 1:

Membrane-controlled anti-siphon device type HS-V with height dH adjusted to height  $\Delta X$

#### Figure 2:

Solenoid valve anti-siphon device type HS-MV electrically actuated by the consumer device, normally closed

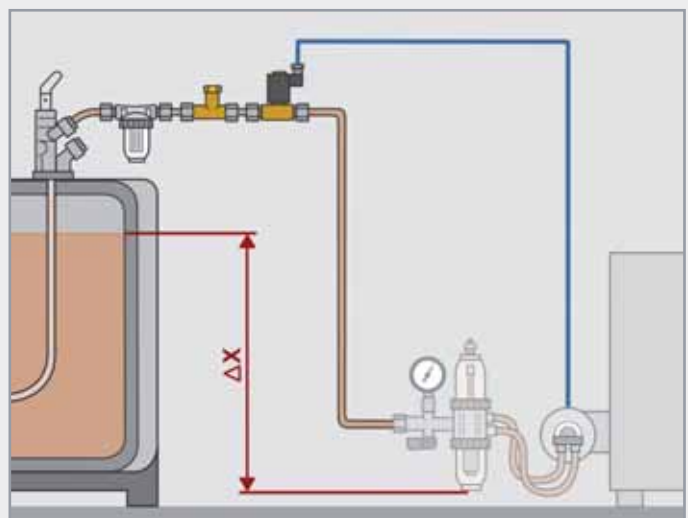


Figure 2

# Safety and monitoring



## Membrane-controlled anti-siphon device PS 6 bar

Part no.

I II Z

Safety device against siphoning

### Advantages and equipment

- Integrated pressure relief:  
For the pressure compensation in the aspiration line between the anti-siphon device and the burner
- Type HS-V: manual ventilation when setting into operation or manual shut-off using the handwheel
- Type HS-F: manual ventilation when setting into operation using the pressure pin

### Approval

- General building-authority approval no. Z-65.50-350

### Technical data

- Flow rate: maximum 200 l/h
- Temperature range: -10 °C to +60 °C
- Setting height type HS-V: dH = 0-4.0 m
- Setting height type HS-F: dH = 1.8, 2.5 or 3.0 m

### Note

- dX = measured height from the lowest point of the withdrawal line to the installation site of the anti-siphon device
- dH = setting height of the anti-siphon device
- Example for the selection of an anti-siphon device with fixed setting height: measured dX with 2.1 m; the correct version is with dH = 2.5 m



adjustable setting



fixed setting

### Membrane-controlled anti-siphon device

#### Type HS-V adjustable setting of dH

G 3/8 F x G 3/8 F height dH 0-4.0 m height dX 0-4.0 m

15 510 10

x

#### Type HS-F fixed setting of dH

G 3/8 F x G 3/8 F height dH 1.8 m height dX 0.00-1.80 m

15 511 10

x

G 3/8 F x G 3/8 F height dH 2.5 m height dX 1.81-2.50 m

15 511 11

x

G 3/8 F x G 3/8 F height dH 3.0 m height dX 2.51-3.00 m

15 511 12

x

# Safety and monitoring



adjustable setting

## Membrane-controlled anti-siphon device BIO PS 6 bar

Safety device against siphoning

### Advantages and equipment

- Integrated pressure relief:  
For the pressure compensation between the anti-siphon device and the burner
- Manual ventilation when setting into operation or manually shut-off using the handwheel

### Technical data

- Flow rate: maximum 200 l/h
- Temperature range: -10 °C to +60 °C according to TÜV report
- Setting height: dH = 0-4.0 m

### Note

- dX = measured height from the lowest point of the withdrawal line to the installation site of the anti-siphon device
- dH = setting height of the anti-siphon device

### Membrane-controlled anti-siphon device BIO

#### Type HS-V adjustable setting of dH

G 3/8 F x G 3/8 F height dH 0-4.0 m height dX 0-4.0 m

Part no.

I

II

Z

15 512 10

x

# Safety and monitoring

**NEW**


## Membrane-controlled anti-siphon device PS 10 bar

Safety device against siphoning according to DWA-A 779, DWA-A 791, TRÖI, DIN 4755 and FprEN 12514-3

### Advantages and equipment

- Suitable for use in flood areas or areas with high risk
- Modern design
- Adjustable setting of height with ergonomic scale and for combustibles with different densities
- Pressure relief between the anti-siphon device and the burner as safety function for all protected heights
- Manual ventilation when setting into operation
- Installation in domes for ambient temperatures of -25 °C up to +40 °C
- Female thread connector for screw-in compression fitting with O-ring sealing or universal connectors type UA as clamping ring fittings of type G according to FprEN 12514-4

### Technical data

- Flow rate: maximum 220 l/h
- Combustible temperature: 0 °C to +40 °C
- Setting height: HA = 0.5-4.0 m
- Connector for vacuum gauge: G 1/8 female thread

### Note

- The actual height difference  $\Delta X$  is decisive for the setting of the protected height HA of a membrane-controlled anti-siphon device. If the height difference  $\Delta X$  is higher than the adjusted protected height HA, the anti-siphon device cannot close reliably in case of burner standstill due to the increased hydrostatic pressure of the combustible column. The anti-siphon device with protected height HA must be adjusted in way that exactly the actual height difference  $\Delta X$  is protected. Higher values of the protected height HA will lead to an increased negative pressure in the withdrawal line and will intensify the formation of gas bubbles in the combustible.
- The installation of an additional pressure compensation device as safety device against excessive pressure (type DAV 7, part no. 15 550 00) will become necessary if the suction kit at the tank is equipped with a non-return valve.

Membrane-controlled anti-siphon device type HS-V.2 HA adjustable  
G 3/8 F x G 3/8 F

Part no.	I	II	Z
15 513 00			

# Safety and monitoring



## Solenoid valve anti-siphon device type HS-MV PS 12 bar

Safety device against siphoning

### Advantages and equipment

- Integrated pressure relief:  
For the pressure compensation between the anti-siphon device and the burner
- No minimum aspiration pressure necessary
- Normally closed
- With appliance plug according to DIN 43650, type of protection IP 65

### Approval

- General building-authority approval no. Z-65.50-450

### Note

- Maximum height dX according to the general building-authority approval 3.5 metres
- A pre-filter e.g. part no 13 049 00 type 500EZ should be used!

### Solenoid valve anti-siphon device type HS-MV

G 3/8 F x G 3/8 F

Part no.	I	II	Z
13 211 00	x		



## Solenoid valve anti-siphon device - connection set

For the connection of the solenoid valve anti-siphon device to the burner  
Consisting of: solenoid valve anti-siphon device, burner plug 7-pole (male), boiler plug 7-pole (female) and 4 m cable

### Advantages and equipment

- Completely mounted
- Safety function: In the event of a signal report "burner fault" the solenoid valve anti-siphon device will be set to a normally closed position

### Note

- Technical data, see part no. 13 211 00

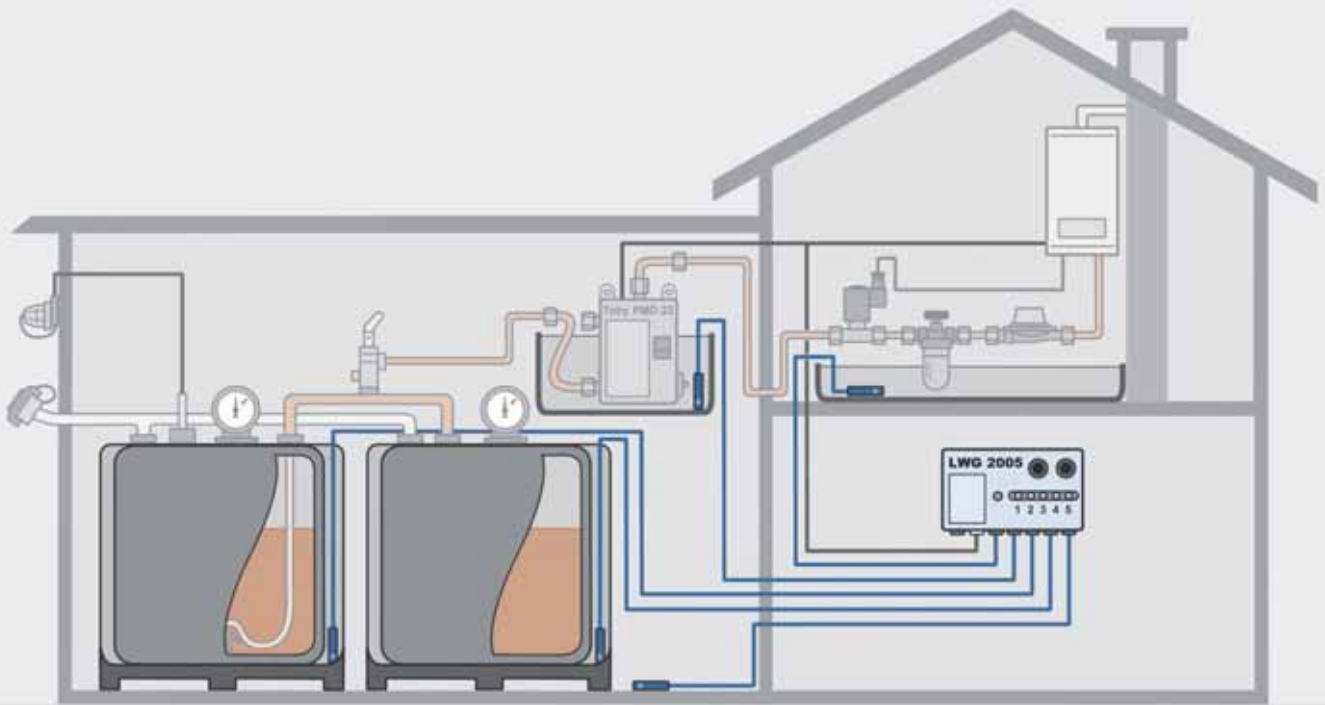
### Solenoid valve anti-siphon device - connection set

Complete

Part no.	I	II	Z
13 212 00	x		

GOK

## Safety and monitoring



### Leak alarm type LWG 2005

#### Sample application:

Simultaneous monitoring of 5 leakage spaces of an oil firing installation by means of liquid sensors:

- 2 probes in one oil tank with integrated collecting basin of a battery tank system
- 1 probe in the collecting basin of an oil feeding unit
- 1 probe in the collecting basin on the consumer device due to existing pressure line
- 1 probe on the floor of the storage room for monitoring of flooding

# Safety and monitoring



LWG 2000



LWG 2005



Probe tank



Probe standard

## Leak alarm type LWG

Leak detection system of class III according to EN 13160-1 and EN 13160-4 as a liquid sensor system in leakage or monitoring areas, as safety device according to German worksheet DWA-A 791 and leak detection system according to German worksheet DWA-A 779

Use as:

- Construction product for stationary used installations for storing, filling and handling of water-endangering materials in the area of application of the German BPR 89/106/EEC.
- Liquid sensor for use in devices for the storage of fuels with a flashpoint above 55 °C which are designed for the supply of heating systems in buildings according to the German Building Code List B Part 1.
  - For the monitoring of a tank, a pipeline or a collecting basin
  - For use as an automatic error report system as safety device leak detection system according to German worksheet DWA-A 779

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil S according to DIN 51603-3
- Diesel fuel according to EN 590: 2004-3
- Waste oils with a flashpoint of over 55 °C
- Oil-in-water mixtures
- Urea solution according to DIN 70070

Advantages and equipment

- Potential-free relay contact for the connection e.g. of a burner pump warning light or acoustic alarm

Approval

- Belgium type LWG 2000: PLD 2010/12/01 BTV 97/H019
- Type LWG 2000: general building-authority approval no. Z-65.40-357
- Type LWG 2005: general building-authority approval no. Z-65.40-225

Technical data

- Supply voltage: 230 V AC 50 to 60 Hz
- Power consumption: 2.5 VA
- Temperature range: -20 °C to +60 °C
- Type of protection: IP 30

Note

- The connection cable can be extended to a maximum of 100 m.

Leak alarm, type LWG 2000

With indicator, probe length 2 m and assembly set

15 073 00

x x x

Type LWG 2005 with possibility to connect up to 5 probes

With indicator without probe

15 074 00

x x x

Replacement part

Indicator for leak alarm type LWG 2000

15 073 01

x x x

Probe without assembly set, probe length 2 m

15 073 98

x x x

Probe without assembly set, probe length 5 m

15 073 92

x x x

Assembly set for the mounting of the probe, probe length 2 m

15 073 97

x x x

Probe for installation in double-walled rectangular tanks, probe length adjustable from 960-1400 mm, 5 m connection cable

15 073 90

x x x

For type LWG 2005 the probes and assembly sets are not included within the scope of the delivery. Please order in accordance with the number of tanks.



# Safety and monitoring



## Burner connection set type LWG 2000

Leak alarm type LWG 2000 as monitoring system for oil burners with a burner connection set

Consisting of: leak alarm type LWG 2000, burner plug 7-pole (male), boiler plug 7-pole (female) and 2 m cable

### Advantages and equipment

- Including probe which is mounted directly in the oil collecting basin under the burner
- Simple connection by means of burner interface

### Technical data

- Switching current maximum 10 A

### Note

- Equipment, functional description and technical data for the leak alarm type LWG 2000 see e.g. part no. 15 073 00.

### Burner connection set type LWG 2000

Complete

Part no.		I	II	Z
15 174 00		x	x	x

# Safety and monitoring



## Leakage safety device type AS-2

For the protection of pumps and monitoring of collecting basins

Operating materials:

- Fuel oil EL according to DIN 51603-1
- Fuel oil S according to DIN 51603-3
- Diesel fuel according to EN 590: 2004-03
- FAME (biodiesel) according to EN 14213 and EN 14214
- Lubricants
- Hydraulic oils
- Thermal oils
- Oil-water mixtures
- Water (+1 °C to +70 °C)
- Other water-endangering non-flammable liquids upon proof by the manufacturer

Advantages and equipment

- With probe
- Including fixing device for probe
- Probe cable 2 m
- Thermally controlled resistor probe (resistant to breakdown through soiling or change of light)
- Acoustic alarm
- Integrated socket for automatic shut-down if the alarm sounds, e.g. for oil feeding devices

Approval

- General building-authority approval no. Z-65.40-394

Technical data

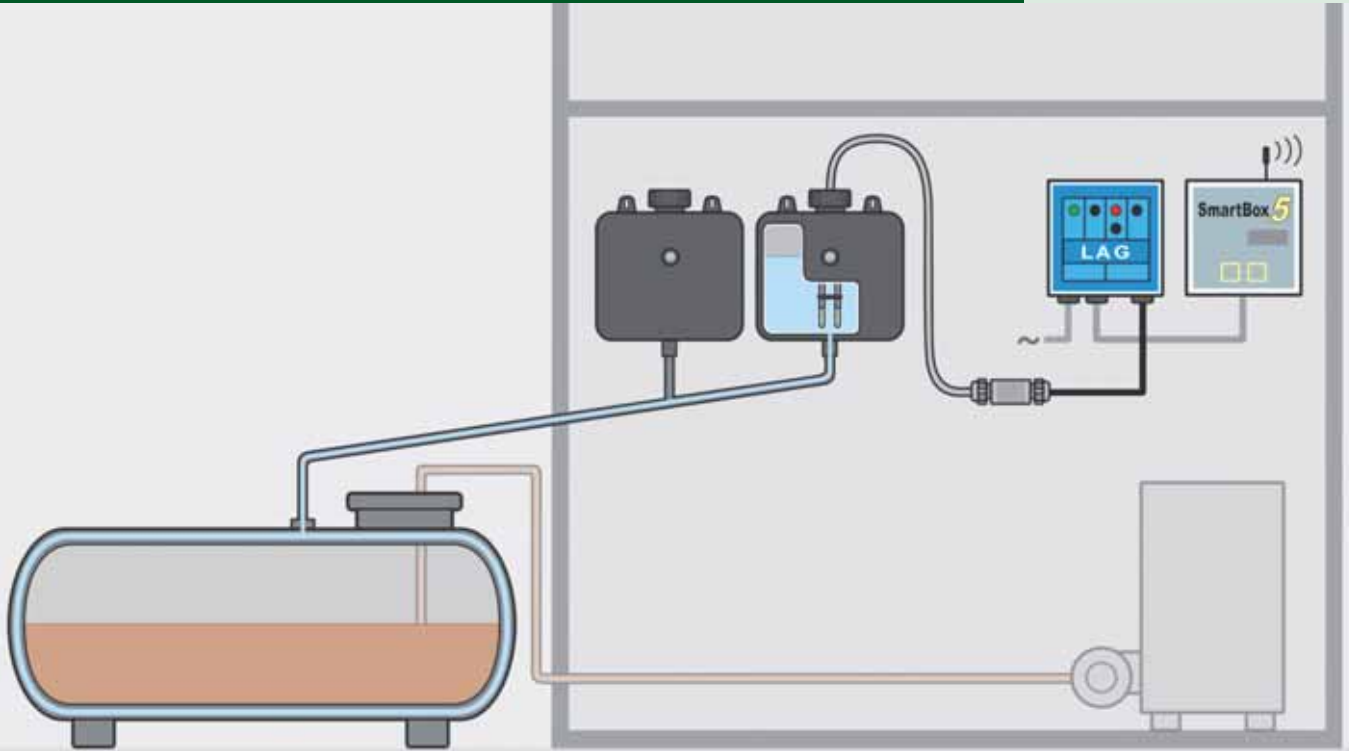
- Supply voltage: 230 V AC 50 to 60 Hz
- Switching capacity: maximum 1800 VA
- Temperature range: -20 °C to +50 °C

Leakage safety device type AS-2

Complete

Part no.	I	II	Z
15 173 00	x	x	x

## Safety and monitoring



### Leak detector type LAG 2000 A

#### Sample application:

Leak detection system for an overground tank based on leak detector liquid including:

- Leak detector liquid vessel with transmitter
- Leak detector liquid vessel without transmitter as additional vessel because the volume indicated on the typeplate of the tank is 200 litres
- Potential-free relay contact connected to the remote data transmission system SmartBox 5

## Safety and monitoring



## Leak detector type LAG 2000 A

Leak detection system class II according to EN 13160-1 and EN 13160-3 as a liquid system for tanks on the basis of leak detector liquid

Use as:

- A construction product for stationary installations for the storage, filling and handling of water-endangering materials in the area of harmonized standards or according to CPD 89/106/EEC.

For monitoring e.g.

- Double-walled, pressureless, above and underground tanks e.g. according to DIN 6616, DIN 6618-3, DIN 6623-2, DIN 6624-2 and EN 12285-2, DIN 6608-2, DIN 6619-2 and EN 12285-1

The maximum volume of the monitored space in the installation is 1 m<sup>3</sup>.

The leak detector liquid may be water hazard class 1 as a maximum.

- Leak detector for stationary installations for the storage, filling and handling of flammable, easily and highly flammable materials with a flashpoint below 55 °C only in intrinsically safe versions.
- For operational leak detectors type LAG 2000 A in installations which were constructed in Germany before 31.12.2002, a restriction of the monitoring space to a maximum 1 m³ does not apply.

Operating materials:

- Fuel oil, diesel fuel, FAME and petrol

## Approval

- General building-authority approval no. Z-65.24-474
- Belgium type LAG 2000 A: PLD 2010/11/01 BTv 97/H019
- EC type approval certificate no.: TPS 04 ATEX 1010 X

## Technical data

- Supply voltage: 230 V AC 50 to 60 Hz
- Power consumption: 2.5 VA
- Temperature range: -20 °C to +60 °C
- Type of protection: IP 20



## Leak detector type LAG 2000 A

Indicator, transmitter, leak detector liquid vessel - intrinsically safe

For easily and highly flammable liquids and installation in hazardous area  
(installation of display outside hazardous area)

## Suitable for Belgium

For easily and highly flammable liquids and installation in hazardous area  
(installation of display outside hazardous area)

Indicator, transmitter, leak detector liquid vessel - not intrinsically safe

For liquids / fuels with a flashpoint above 55 °C or water-endangering liquids - not for installation in hazardous area

Accessories see page 84.

Part no.	I	II	Z
15 072 59	x	x	x
15 072 65	x	x	x
15 072 60	x	x	x

# Safety and monitoring



## Leak detector type LAG 2000 A

Assembly set for leak detector for connection

Of double-walled tanks with a leak detector liquid vessel  
consisting of: cable connection kit, check valve, pipe socket, hose

Indicator

Can also be used as additional alarm

Leak detector liquid vessel

With transmitter

Intrinsically safe

Not intrinsically safe

Without transmitter

As replacement or additional vessel black (intrinsically safe or not)

Replacement transmitter without leak detector liquid vessel

Intrinsically safe

Not intrinsically safe

Part no.

I II Z

15 072 99

x x x

15 072 01

x x x

15 072 47

x x x

15 072 48

x x x

15 072 46

x x x

15 072 32

x x x

15 072 37

x x x

# Safety and monitoring



## Vacuum leak detector type Vacumatic

Leak detection system class I according to EN 13610-1 and EN 13610-2 as negative pressure system

Use as:

- A construction product for stationary installations for the storage, filling and handling of water-endangering materials in the area of harmonized standards or according to CPD:
- Leak detector for negative pressure systems for use in devices for the storage of fuels with a flashpoint above 55 °C which are determined for the supply of heating systems in buildings.

Type Vacumatic III F - High pressure model for monitoring of:

- Double-walled tanks according to DIN 6608-2, DIN 6616 (form A), DIN 6618-2, DIN 6618-4, DIN 6619-2, DIN 6623-2, DIN 6624-2
- Double-walled tanks according to DIN 6608-2, with monitoring space that is partially still filled with leak detector liquid
- Single-walled tanks according to DIN 6608, DIN 6616 (form A), DIN 6619, DIN 6624 or DIN 6625 with an approved leak protection lining
- Single and double-walled tanks of an approved construction

Type Vacumatic IV F - Low pressure model for monitoring of:

- Double-walled tanks according to DIN 6618-2 or DIN 6618-4
- Single-walled tanks according to DIN 6608, DIN 6616 (form A), DIN 6619, DIN 6623, DIN 6624, DIN 6625
- Single and double-walled tanks of an approved construction

Operating materials:

- Mineral oil products with a flashpoint above 55 °C
- FAME according to EN 14214
- Other materials according to material list (please request, if necessary)

Approval

- General building-authority approval no. Z-65.22-2

Vacuum leak detector

Type Vacumatic III F

High pressure model

Type Vacumatic IV F

Low pressure design

Accessories

Triple condensate vessel (optionally at low points)

Hose line red 4 x 2 mm for measuring line

Hose line green 4 x 2 mm for exhaust line

Hose line transparent 4 x 2 mm for aspiration line

Liquid stop without condensate vessel

Liquid stop with condensate vessel

(for the installation of leak protection lining)

Assembly set for tank connection components

Replacement part

Replacement red light

Replacement green light

Replacement vacuum pump for type Vacumatic III F

Replacement vacuum pump for type Vacumatic IV F

Part no.

I

II

Z

15 400 00

x

x

x

15 401 00

x

x

x

15 402 11

x

x

x

15 402 15

x

x

x

15 402 14

x

x

x

15 402 13

x

x

x

15 402 26

x

x

x

15 402 12

x

x

x

15 402 10

x

x

x

15 402 24

x

x

x

15 402 25

x

x

x

15 400 10

x

x

x

15 401 10

x

x

x

# Oil feeding units



## Oil pressure accumulator

Oil feeding unit with overpressure intermediate storage according to EN 12514-1 for the supply of consumer devices in central oil supply installations or a single consumer device, if the negative pressure in a comparable single-conduit system rises to over -400 mbar

### Advantages and equipment

- With pressure gauge
- Integrated operating container with regulation and safety devices
- Exchangeable filter element in the aspiration line connector
- Pressure control device for protection in the event of an oil shortage or oil line breakage
- Version without return line type 180, manual ventilation during setting into operation. A non-return valve may not be mounted in the aspiration line, e.g. use suction kit VTK-2 part no. 16 441 02.

### Approval

- German ÜHP type approval according to building code list to EN 12514-1

### Technical data

- Feeding volume: maximum 22 l/h at an outlet pressure 0 bar
- Aspiration volume: maximum 10 l/h
- Outlet pressure: maximum 4 bar
- Supply limit: approx. 15 m adjusted (maximum approx. 25 m)
- Suction height: maximum 3 m
- Connectors: compression fitting 8 mm
- Nominal voltage: 230 V AC 50 Hz
- Power consumption: 88 VA



Oil pressure accumulator  
Without return line to the tank  
Type 180

With return line to the tank  
Type 330

Part no.	I	II	Z
17 511 00	x		x
17 511 10		x	x

# Oil feeding units



## Oil siphon pump

Hand pump for the withdrawal of fuel oil from oil or other tanks

### Advantages and equipment

- With aspiration pipe
- With drainage hose

### Technical data

- Maximum suction height: 2.2 m oil column

### Oil siphon pump

G 1 1/2 M

15 095 00

G 2 M

15 096 00

### Replacement part

Pump G 1 1/2 M

15 095 03

Pump G 2 M

15 096 03

Aspiration pipe DN 12 G 3/8 M x 1400 mm

15 095 20

Drainage hose DN 16 1400 mm

15 095 21

Drainage elbow

15 095 23

Hand lever

15 095 28

Piston seal

15 095 29



# Metres, test equipment and auxiliaries



## Oil metre calibrated type HZ 3 PS 6 bar

For measuring systems as a legally-controlled measuring device according to 2004/22/EC Directive on measuring devices, for the volumetric quantity measurement of fuel oil EL, e.g. for use in the pressure pipe of central oil supply installations or in the withdrawal line of single-conduit systems (negative pressure maximum -0.35 bar)

### Advantages and equipment

- Including assembly plate and brackets for the mounting of the oil metre to the wall
- Including lip seals for straight screw-in compression fittings (see e.g. part no. 07 081 00)
- The validity of the EC initial calibration is 10 years, the oil metre must only be recalibrated by the manufacturer after expiry of this period

### Approval

- EC type approval D01 5.223.03 according to 71/31/EEC, class 1
- EC initial calibration

### Technical data

- Operating materials: fuel oil EL according to DIN 51603-1
- Initial calibration validity: 10 years
- Measuring accuracy:  $\pm 1\%$
- Flow range: by gauging office: 0.18 to 12 l/h, maximum: 30 l/h
- Indicating range: 0.01 to 99,999.99 l
- Pressure loss: 50 to 100 mbar
- Connector: G 1/4 female thread

### Note

- For the installation of the oil metre on the "suction side", a filter with a mesh width of 50 to 75  $\mu\text{m}$  must be installed before the oil metre (see e.g. part no. 13 049 00)!

Oil metre calibrated type HZ 3  
Complete

Part no.	I	II	Z
17 001 00	x		x

# Metres, test equipment and auxiliaries



## Oil metre type HZ 5

According to EN 12514-2 for the volumetric quantity measurement of fuel oil EL, e.g. for use in the pressure pipe before the burner nozzle or in the withdrawal line of single-conduit systems of oil installations

### Technical data

- Operating materials: fuel oil EL according to DIN 51603-1
- Measuring accuracy:  $\pm 1\%$
- Flow range: 0.7 to 40 l/h
- Indicating range: 0.01 to 99,999.99 l
- Pressure loss: 50 to 200 mbar
- Temperature range:  $-5^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Connector: G 1/8 female thread

### Note

- For the installation of the oil metre on the "suction side", a filter with a mesh width of 50 to 75  $\mu\text{m}$  must be installed before the oil metre (see e.g. part no. 13 049 00)!

### Oil metre type HZ 5

Complete

Part no.

I

II

Z

17 004 00

x

## Accessories for oil metre type HZ 5

Connection set for the assembly of the oil meter HZ 5 in the pressure pipe before the burner nozzle

### Advantages and equipment

- 2 straight screw-in compression fittings GERA with G 1/8 male thread, e.g. 07 440 00
- 2 aluminium sealing rings DRM, e.g. 07 950 00
- 2 copper pipes according to EN 1057 in state R250, length 250 mm
- 1 perforated plate with fastening screws M4 x 6
- Type 17 004 10 including 2 brass reinforcement rings, e.g. 08 092 00

### Accessories for oil metre type HZ 5

Connection set for outer pipe diameter 4 mm copper

Connection set for outer pipe diameter 6 mm copper

Part no.

I

II

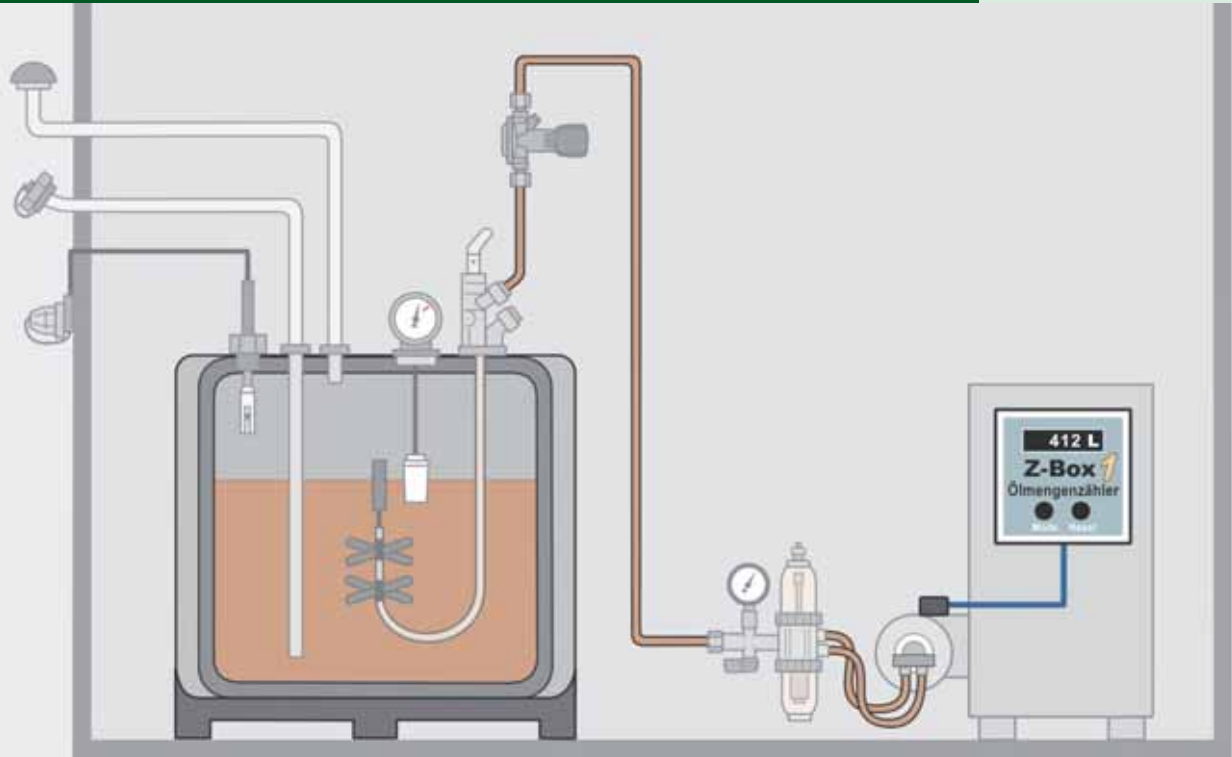
Z

17 004 11

x

17 004 10

x



## Oil volume and operating hours metre Z-Box 1

### Sample application:

Z-Box 1 measures the operating hours of an oil burner and calculates the consumption of an oil firing installation in a contactless way.

# Metres, test equipment and auxiliaries



## Oil volume and operating hours metre Z-Box 1

The Z-Box 1 is an intelligent system for the recording of flow rate volumes and operating hours for fuel oil consumer installations.

### Function and use:

It is not necessary to install the Z-Box 1 in the pipeline, as it is only connected electrically to the burner. After the input of burner parameters such as nozzle capacity and nozzle pressure the system calculates the desired values through a recording of operating hours and displays them digitally.

The following values can be displayed on the 8-digit display:

- Total operating hours
- Total consumption either in kg/h or l/h
- Voltage drop of battery

### Advantages and equipment

- Non-contact system, thereby little installation efforts and no malfunction through contaminated mechanics
- Operating hours resettable, e.g. as daily metre
- Consumption resettable, e.g. as daily volume metre
- Use for single-stage burners with 300kW capacity
- Use in single and double conduit systems
- Easy setting into operation through menu navigation
- Including 2 batteries 1.5 V (type AAA)

### Technical data

- Supply voltage: 3 V through 2 batteries (type AAA)
- Input: burner level 230 V AC 50 Hz
- Temperature range: 0 °C to +70 °C
- LCD display: 8 digits / 2 rows
- Type of protection: IP 30

Oil volume and operating hours metre Z-Box 1  
Complete

Part no.	I	II	Z
15 800 00	x	x	



## Test equipment for limit indicator type TG-1

### Sample application:

Functional control of the limit indicator before filling by the tank truck driver.

# Metres, test equipment and auxiliaries



## Test equipment for limit indicator type TG-1

For the functional control of limit indicators e.g. before each filling of the oil tank as well as a final check after the construction of an oil installation

Displayed functions: battery charge state, heating-up of the indicator, short-circuit, interruption and release

### Advantages and equipment

- With transport box
- Including 2 block batteries 9 V

Test equipment for limit indicator type TG-1

Complete

Part no.		I	II	Z
15 098 00		x	x	x



## Test equipment for pump pressure

For ventilation, pressure setting and testing, vacuum and leak testing of the pump and oil line

Consisting of: manometer venting device G 1/8 male thread, test pressure gauge with glycerine filling (indicating range 0 to 25.0 bar, accuracy class 1.6), test pressure gauge with glycerine filling (indicating range -1.0 to 0 bar, accuracy class 1.6), adapters and plastic box

Test equipment for pump pressure

Complete

Part no.		I	II	Z
13 606 00		x	x	

## Soundness control unit

For the execution of pressure tests on the oil line before setting an oil installation into operation according to DIN 4755 and the German Technical Regulations on Oil Installations

Consisting of: pressure limiter for a constant test pressure, pressure gauge, hand pump and transport box

### Advantages and equipment

- Suitable for leak detection after an unsuccessful leak test with negative pressure (see part no. 13 602 00)
- Prevention of damage to the pressure gauge by using pressure limiter

### Technical data

- Test pressure: maximum 5.0 bar
- Connector: compression fitting 8 mm
- Pressure gauge: measuring range 0-6.0 bar, accuracy class 1.6

Soundness control unit

Complete

Part no.		I	II	Z
13 600 00		x	x	x



# Metres, test equipment and auxiliaries

**NEW**


## Negative pressure test equipment type UPE-300

For leak tests of the entire oil line from the suction kit to the burner before the setting into operation with negative pressure, according to the German Technical Regulations for Oil Installations

Consisting of: negative pressure test device, connection hose for the oil aspiration pump, aspiration hose for the connection of fittings with ventilation socket, power supply cable 2 m for solenoid valve anti-siphon safety device, adapter for the connection to suction pumps or fittings, plastic box

### Advantages and equipment

- Integrated in the leak test can be:
  - Combined fuel oil filters and deaerators of every manufacture
  - Single and double conduit filters
  - Safety devices against siphoning
  - Pressure compensation valves
  - Isolating-separating fittings
  - Burner hose assemblies for the feed and return line including burner pump

### Technical data

- Vacuum meter measuring range -1.0 to 0 bar, accuracy class 1.6 with red marking at test pressure -0.3 bar
- Negative pressure limiter, exchangeable
- Connection block with measuring socket for aspiration hose 4 x 1 mm, stop valve and connection for suction pumps with G 3/8 male thread

## Negative pressure test equipment type UPE-300

Complete

13 602 00

I II Z  
x x x

Accessories

Oil aspiration pump with suction and drainage hose

13 610 00

x x x



## Oil aspiration pump

For the quick and clean filling of the oil line when setting an oil installation into operation

Consisting of: adapter (for the connection of the combined fuel oil filter ventilator and deaerator GS2000 or GS Pro-Fi 3), aspiration hose G 3/8 coupling nut x 500 mm (to connect oil filter to burner) and drainage hose for overflowing fuel oil

### Advantages and equipment

- With non-return valve
- With vent valve

### Oil aspiration pump

Complete

13 610 00

x x x

Replacement part

Connection hose for oil suction pump G 3/8

13 610 60

x x x



# Metres, test equipment and auxiliaries



## T-piece with negative pressure gauge

For the control of the negative pressure in the aspiration line and the soiling level of fuel oil filters

### Advantages and equipment

- Coloured marking of the indicating range

### Technical data

- Indicating range: -1.0 to 0.6 bar
- Pressure range: green range: -0.4 to 0 bar  
red range: -1.0 to -0.4 bar

### T-piece with negative pressure gauge

G 3/8 coupling nut x G 3/8 M

Part no.		I	II	Z
13 620 00		x	x	x



## Pipe spring pressure gauge with glycerine filling

For installation in pipelines or pressure regulators

### Technical data

- Safety pressure gauge according to EN 837-1, accuracy class 1.6
- Stainless steel housing, with pressure relief opening "S2"
- Radial type

### Pipe spring pressure gauge with glycerine filling

Indicating range 0-25.0 bar Ø 50 mm G 1/8 M B

### Negative pressure pipe spring gauge with glycerine filling

e.g. as replacement part for test equipment for pump pressure 13 606 00

Indicating range -1.0-0 bar Ø 50 mm G 1/8 M B

Part no.		I	II	Z
01 100 51		x	x	x
01 100 52		x	x	x



radial



axial

## Pipe spring pressure gauge

For installation in pipelines or pressure regulators

### Advantages and equipment

- Type without flameproof flap, pressure gauge according to EN 837-1, accuracy class 2.5

### Pipe spring pressure gauge

#### Type without flameproof flap radial

Indicating range 0-6.0 bar Ø 40 mm G 1/8 B M

#### Type without flameproof flap axial

Indicating range 0-4.0 bar Ø 50 mm G 1/4 B M

### Accessories

Gasket for pressure gauge G 1/8 NBR

Part no.		I	II	Z
01 100 13		x	x	x
01 100 18		x	x	x
20 013 97		x	x	x



# Metres, test equipment and auxiliaries



## Leak detector spray

For a safe and reliable detection of leaks in line systems

### Approval

- DIN-DVGW-tested

### Note

- Due to the Dangerous Goods Ordinance, the following delivery volumes per package are possible for the sending of parcels:  
Leak detector spray 125 ml part no. 02 601 01 / 72 pcs  
Leak detector spray 400 ml part no. 02 601 00 / 24 pcs  
For large supply quantities by parcel post, the shipment costs increase according to the number of packages.

### Leak detector spray

Spray can 125 ml

Spray can 400 ml

Part no.	I	II	Z
02 601 01	x	x	x
02 601 00	x	x	x



## Liquid sealant

For the sealing of metal threaded connections

### Approval

- DIN-DVGW-tested, for threads according to ISO 7-1

### Liquid sealant

Bottle 50 ml, hardening

Part no.	I	II	Z
02 607 00	x	x	x



## Teflon tape

For the sealing of metal threaded connections

### Approval

- Sealant according to EN 751-3 for class FRP

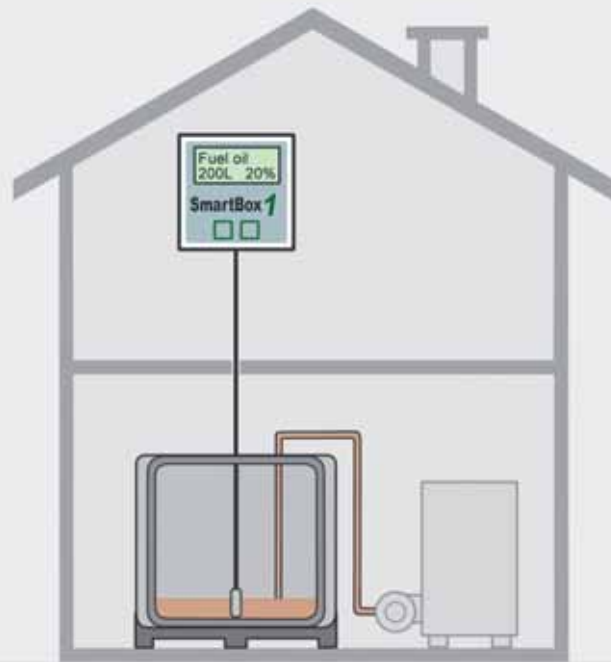
### Teflon tape

0.1 mm, roll = 12 m

Part no.	I	II	Z
02 608 00	x	x	x

# GOK

# Tank management



## SmartBox 1 – “The level indicator”

### Sample application:

Contents determination and on-site indication.

# Tank management



## SmartBox 1

The SmartBox 1 is an on-site level indicator for pressureless tanks with liquid materials.

Operating materials e.g.

- Fuel oil according to DIN 51603-1
- Diesel fuel according to EN 590: 2004-03
- FAME (biodiesel) according to EN 14213 and EN 14214
- Hydraulic oils
- Motor oils
- Vegetable oils
- Urea solution e.g. AdBlue® according to DIN 70700
- Water (+1 °C to +70 °C)

Scope of delivery:

Indicating unit with 2-line LCD display, hydrostatic probe (standard probe with a measuring range of 250 mbar and a measuring accuracy of 1%) with 6 metres cable and accessories for assembly

## Technical data

- Supply voltage: 230 V AC 50 Hz
- Measuring range: fuel oil for a maximum tank height of 2.90 m  
water for a maximum tank height of 2.50 m
- Tank connector: G 1, G 1 1/2 or G 2
- Type of protection: IP 30

### Note

- The different steps of configuration and the displayed results are now also available in English.
- Additional functions and enlargements upon request.

## SmartBox 1

Installation of box inside building, type of protection IP 30

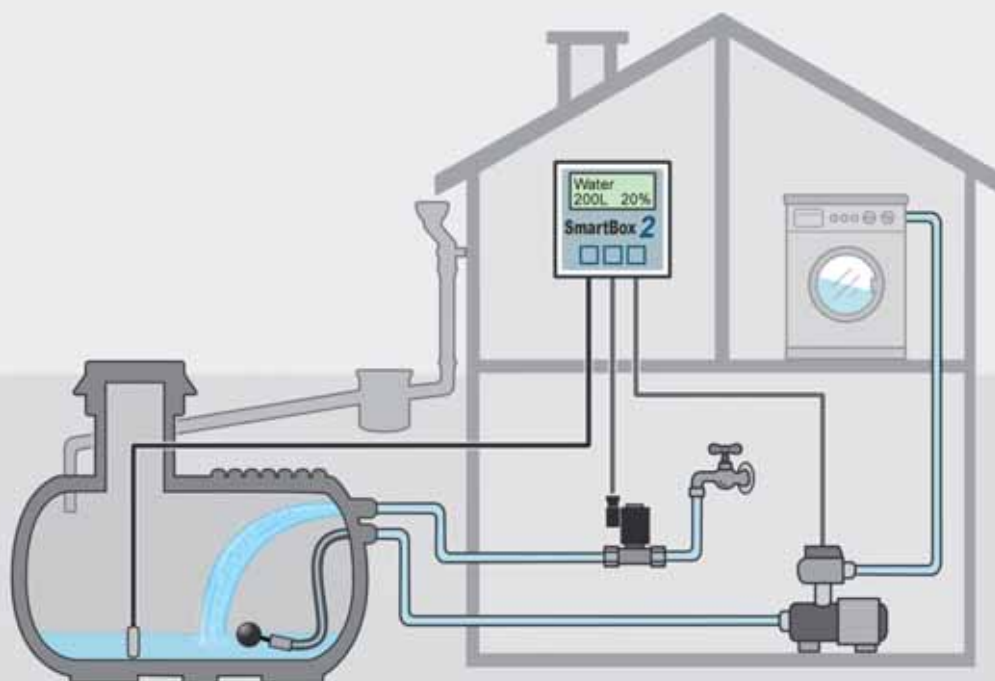
Indicating unit with probe

## Accessories

Cable connecting box IP 66 breathable for extension of the probe up to 200 metres

Part no.		I	II	Z
15 801 00				
15 857 00				

# Tank management



## SmartBox 2 – “The level indicator with switching functions”

### Sample application:

Complete control of a rainwater installation.

# Tank management



## SmartBox 2

The SmartBox 2 is an on-site level indicator for pressureless tanks with liquid materials and control functions.

The execution of different control functions e.g. for the external alarm, tank withdrawal changeover or the dry-run protection of a pump.

Operating materials e.g.

- Fuel oil according to DIN 51603-1
- Diesel fuel according to EN 590: 2004-03
- FAME (biodiesel) according to EN 14213 and EN 14214
- Hydraulic oils
- Motor oils
- Vegetable oils
- Urea solution e.g. AdBlue® according to DIN 70700
- Water (+1 °C to +70 °C)

Scope of delivery:

Indicating unit with 2-line LCD display, hydrostatic probe (standard probe with a measuring range of 250 mbar and a measuring accuracy of 1%) with 6 metres cable and accessories for assembly

## Technical data

- Supply voltage: 230 V AC 50 Hz
- Measuring range: fuel oil for a maximum tank height of 2.90 m  
water for a maximum tank height of 2.50 m
- Tank connector: G 1, G 1 1/2 or G 2
- Type of protection: IP 30
- 2 relays with break and make contact  
maximum 250 V AC 50 Hz - maximum 3.5 A

### Note

- The different steps of configuration and the displayed results are now also available in English.
- Additional functions and enlargements upon request.

## SmartBox 2

Installation of box inside building, type of protection IP 30

Indicating unit with probe

Part no.

1

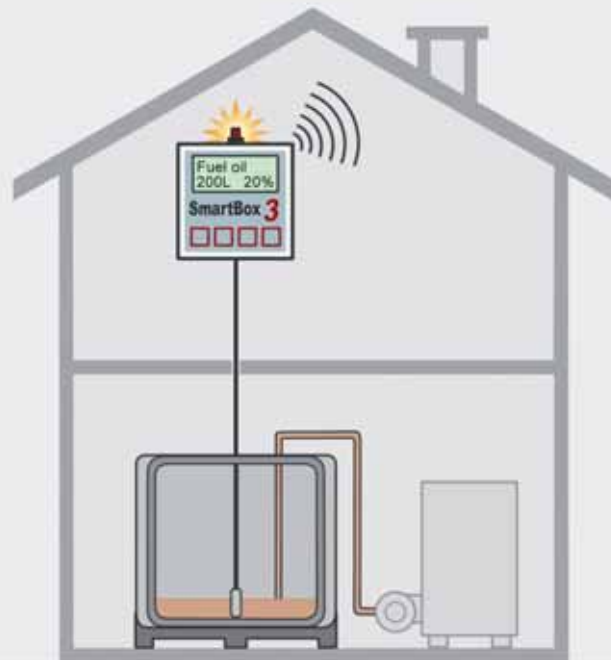
11

Z

15 802 00

15 857 00

# Tank management



## **SmartBox 3 – “The level and minimum or maximum level indicator”**

### **Sample application:**

Contents determination and on-site indication with acoustic and visual alarm at critical filling levels.

# Tank management



## SmartBox 3

The SmartBox 3 is an one-site level indicator for pressureless tanks with liquid materials as well as acoustic and visual alarm including control function. A freely selectable minimum or maximum filling level between 0 and 99% can be set.

Operating materials e.g.

- Fuel oil according to DIN 51603-1
- Diesel fuel according to EN 590: 2004-03
- FAME (biodiesel) according to EN 14213 and EN 14214
- Hydraulic oils
- Motor oils
- Vegetable oils
- Urea solution e.g. AdBlue® according to DIN 70700
- Water (+1 °C to +70 °C)

Scope of delivery:

Indicating unit with 2-line LCD display, hydrostatic probe (standard probe with a measuring range of 250 mbar and a measuring accuracy of 1%) with 6 metres cable and accessories for assembly

**Advantages and equipment**

- Integrated visual and acoustic alarm transmitter

**Technical data**

- Supply voltage: 230 V AC 50 Hz
- Measuring range: fuel oil for a maximum tank height of 2.90 m  
water for a maximum tank height of 2.50 m
- Tank connector: G 1, G 1 1/2 or G 2
- Type of protection: IP 30
- Relay with break and make contact  
maximum 250 V AC 50 Hz - maximum 3.5 A

**Note**

- The different steps of configuration and the displayed results are now also available in English.
- Additional functions and enlargements upon request.

## SmartBox 3

Installation of box inside building, type of protection IP 30

Indicating unit with probe

15 803 00

## Accessories

Cable connecting box IP 66 breathable for extension of the probe up to 200 metres

15 857 00



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# Abbreviations and units

ABS	= acrylonitrile butadiene styrene plastic	Hz	= hertz
ALU	= aluminium	Inox	= stainless steel, also short symbol "x"
ATEX	= Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres	kg/h	= nominal flow in kilogramme per hour
bar	= unit of measurement for pressure	KN	= inner cone
CPD	= EC Construction Products Directive 89/106/EEC	l/h	= nominal flow in litre per hour
Cu	= copper	LAG	= leak detector
DIBt	= Deutsches Institut für Bautechnik (German institute for building technique)	lh	= left-hand thread
DL	= olive steel for compression fitting, light series	M	= male thread
DLL	= olive steel for compression fitting, very light series	ML	= coupling nut for olive, light series
DLMS	= olive brass	MLL	= coupling nut for olive, very light series
DN	= nominal diameter in mm for compression fitting, light series	MOP	= corresponds to PS
DVGW	= German Technical and Scientific Association for Gas and Water	MS	= brass
F	= female thread	NBR	= nitrile butadiene rubber
FAME	= fatty acid methyl ester	NPT	= taper pipe thread according to ANSI B.1.20.1-1983
FKM	= fluoroelastomer	PE-HD	= polyethylene high density
G	= parallel female or male thread according to EN ISO 228-1	PED	= EC Pressure Equipment Directive 97/23/EC
G 3/8-O	= female thread G 3/8 for use with O-ring	PS	= maximum admitted pressure
G 3/8-UA	= female thread G 3/8 for a clamping connection of version G	R	= taper male thread according to EN 10226-1
G 3/8-UA-O	= female thread G 3/8 for a clamping connection of version G or use with O-ring	Rp	= parallel female thread according to EN 10226-1
GRP	= glass-fibre reinforced plastic	Siku	= sintered plastics
		UA	= universal connectors
		ÜHP	= German declaration of compliance of the manufacturer after testing carried out by a certified body
		V	= volt
		VA	= volt-ampere = watt
		W	= watt



# Use of GOK products

## when using biogenous fuels



The long-term use of biogenous fuels can contribute effectively to the reduction of greenhouse gases.

The prestandard DIN V 51603-6 "Liquid fuels – Fuel oils – Part 6: Fuel oil EL A, Requirements" describes what we understand today by biogenous fuels.

Hidden behind the description "Fuel oil EL A Bio X" is a fuel oil EL with alternative component ("A") and the respective maximum contents of bio components in steps of 5% (V/V) ("Bio X"). A bio component can be a fatty acid methyl ester (FAME).

For the owner of an oil-fired burner it is important to know if the oil installation with storage tank, piping and filter runs also safely with biogenous fuels.

For this purpose, intensive studies as field tests in oil installations have been carried out for five years at IWO, BDH and the manufacturers of tanks and fittings.

Studies in our trial oil plant confirmed the suitability for biogenous fuels for selected GOK products used in oil supply. The elastomers made of NBR (nitrile butadiene rubber) as parts of our products were replaced by elastomers made of FKM (fluor rubber) to respect the tightness requirements.

In order to avoid a reduction of the storage stability of the biogenous fuel, we recommend the single conduit system for the oil supply.

Products for use with biogenous fuels are marked in our sales documents by the logo "BIO suitable" (for BIO fuels).

The product groups "Pipe system" and "Filters" can be used for fuel oil according to DIN V 51603-6 – EL A Bio 20 with a maximum of 20% (V/V) FAME (RME).

All other product groups are suitable for the following biogenous fuels:

- Fuel oil according to DIN V 51603-6 – EL A Bio
- FAME according to DIN EN 14213 and DIN EN 14214
- Vegetable oil.

Proof of suitability:

- Except for the filter-deaerator system GS Pro-Fi 3, the single conduit filter with return line type 500ERAZ and the single conduit filter type 500EAZ and type 500EZ, the ÜHP<sup>1)</sup> approval for the products is limited for the time being to the combustible fuel oil EL according to DIN 51603-1.
- The extension of the application area to biogenous fuels is currently reviewed by the inspection authorities.
- The draft of EN 12514:2009 "Parts for supply systems for consuming units with liquid fuels" with its parts 1 to 4 is now suitable for the certification of products for oil supply.
- Products with national technical approval have a proof of suitability for FAME according to EN 14213 and EN 14214<sup>2)</sup>.

The GOK product range for oil firing installations with biogenous fuels will be continuously expanded. We will keep you informed.

1) Declaration of compliance of the manufacturer with prior inspection by an admitted inspection authority

2) Not membrane-controlled anti-siphon device type HS-V and HS-F, but the successor version HS-V.2

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**NEW**

## The level gauge FSA

High measuring accuracy with new measuring technique in modern design.

For more information see pages 10 and 17 of this catalogue or go to [www.gok-online.de](http://www.gok-online.de)!



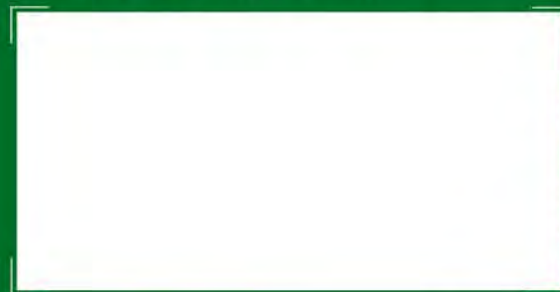
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