GOK

Components

Solutions

Systems

for **LPG REGULATORS**

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

LPG

Made in GERMANY

Picture price lists 2009

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

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

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

Enjoy studying the new catalogues.

The Picture Price Lists 2009 – Components / Solutions / Systems are available for:

Oil firing installations

LPG installations, including warming, burning, soldering

Fittings for LPG tanks

Leisure time - caravan, camping, marine

NEW: **Tank management**

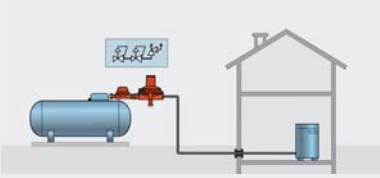
CD:
"Our range at a glance - 2009"

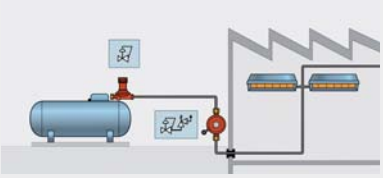
All GOK Picture Price Lists as interactive files with gross prices, examples for applications and animated safety devices.

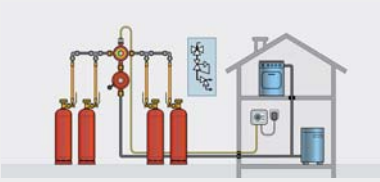
Ask for the free new catalogues:

by e-mail: information@gok-online.de **or by telephone:** +49 9332 404-0

Table of contents





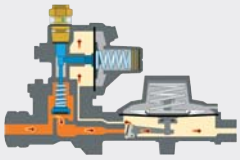


Detailed description of the following topics:

Safety levels:

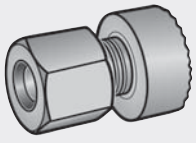
Our regulators are equipped with various safety devices. To allow you to quickly correlate the various safety devices to each regulator, every type is marked with a safety level.

Please refer to page 65 for a detailed description of the safety levels.



Safety devices:

How do the various safety devices function?
We explain our safety devices starting on page 66.



Inlet and outlet connectors:

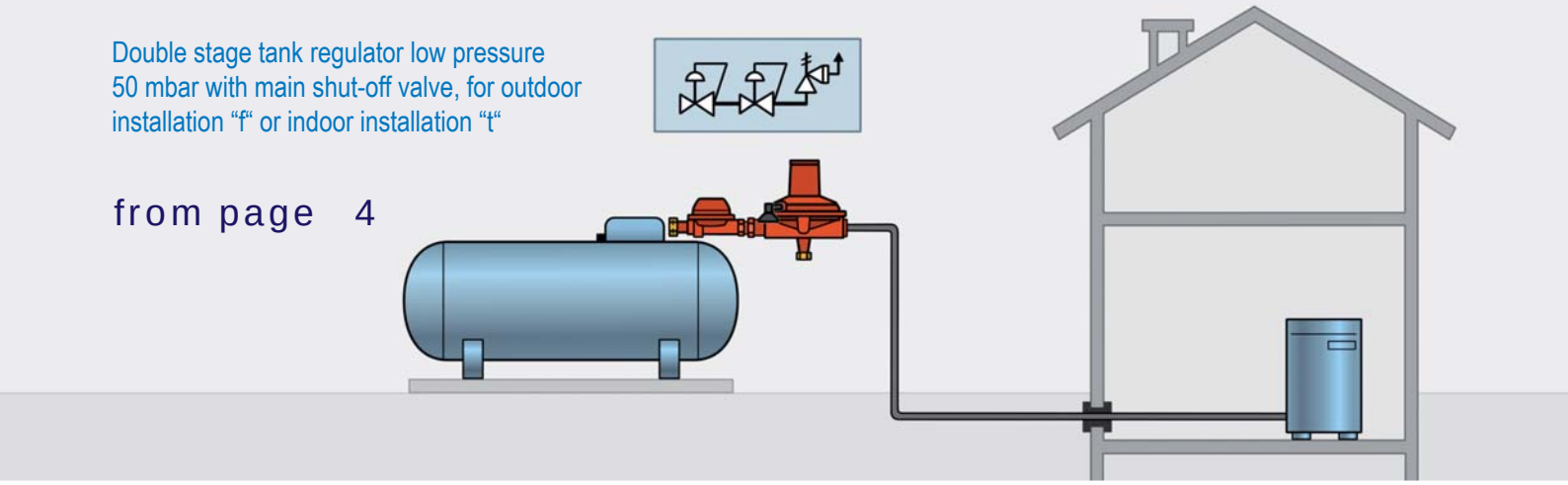
All connections in our product range with the corresponding standards and dimensions can be found starting on page 72.

Fields of application LPG

Double stage tank regulator

Double stage tank regulator low pressure 50 mbar with main shut-off valve, for outdoor installation “f“ or indoor installation “t“

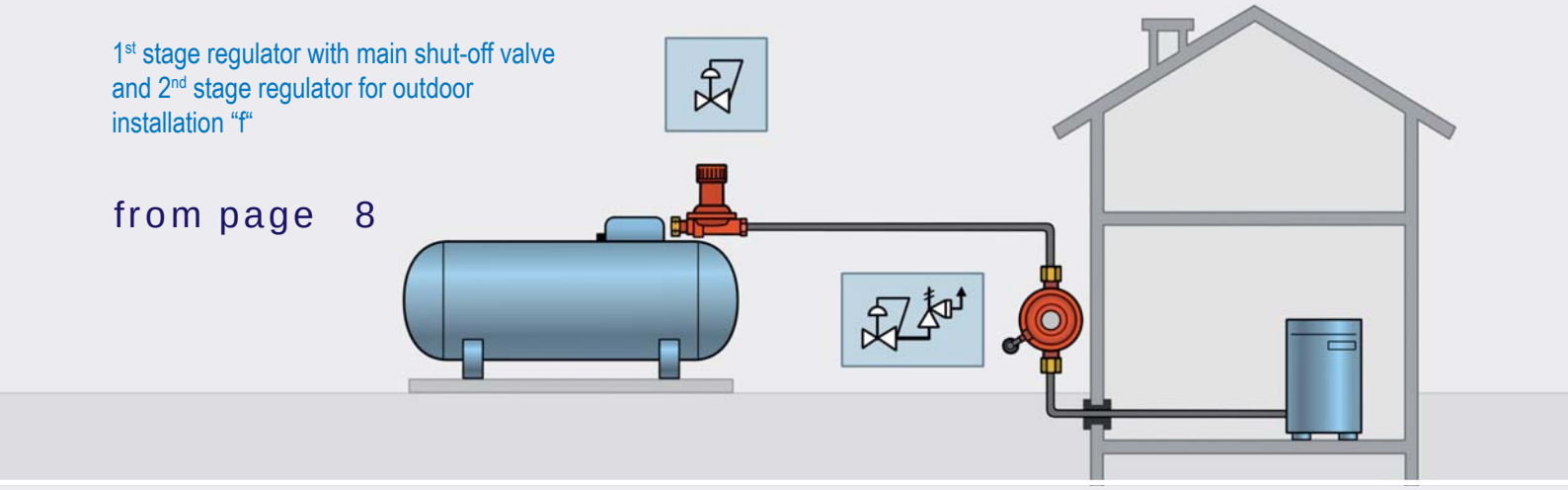
from page 4



2-stage regulator plant

1st stage regulator with main shut-off valve and 2nd stage regulator for outdoor installation “f“

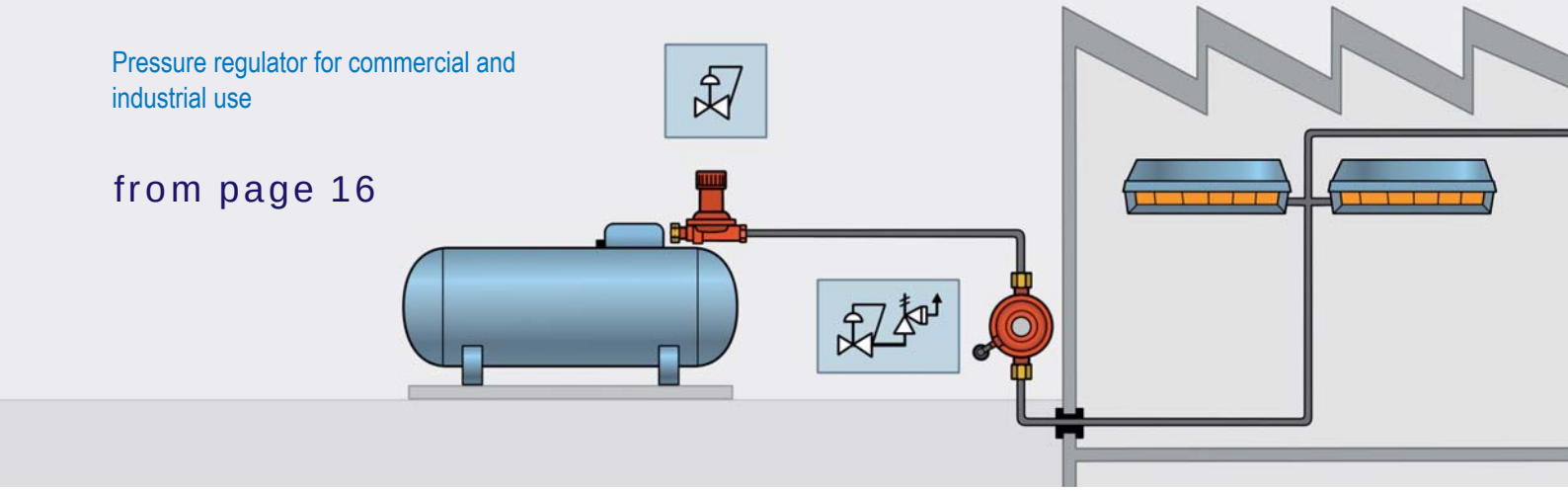
from page 8



Regulator for industrial applications

Pressure regulator for commercial and industrial use

from page 16

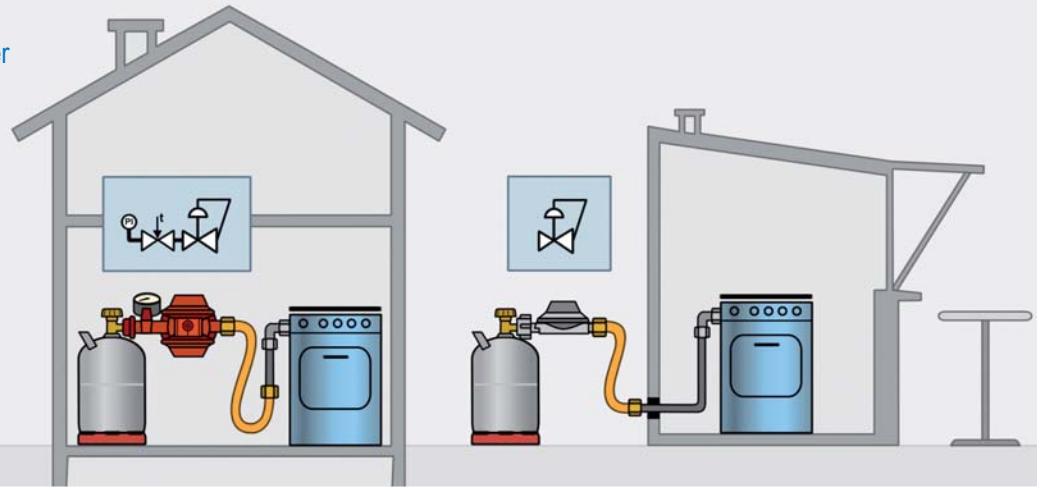


Fields of application LPG

Small cylinder plant

Low pressure regulator for small cylinder plants for private and commercial use

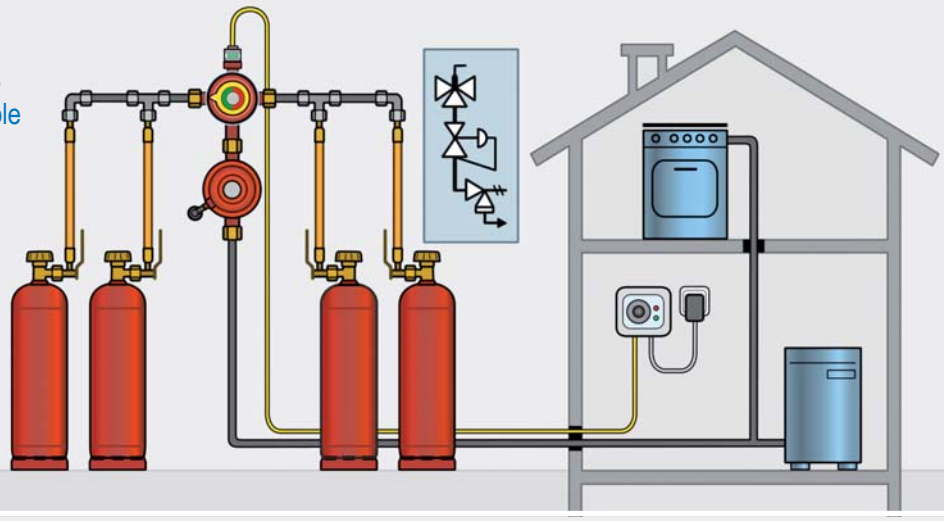
from page 30



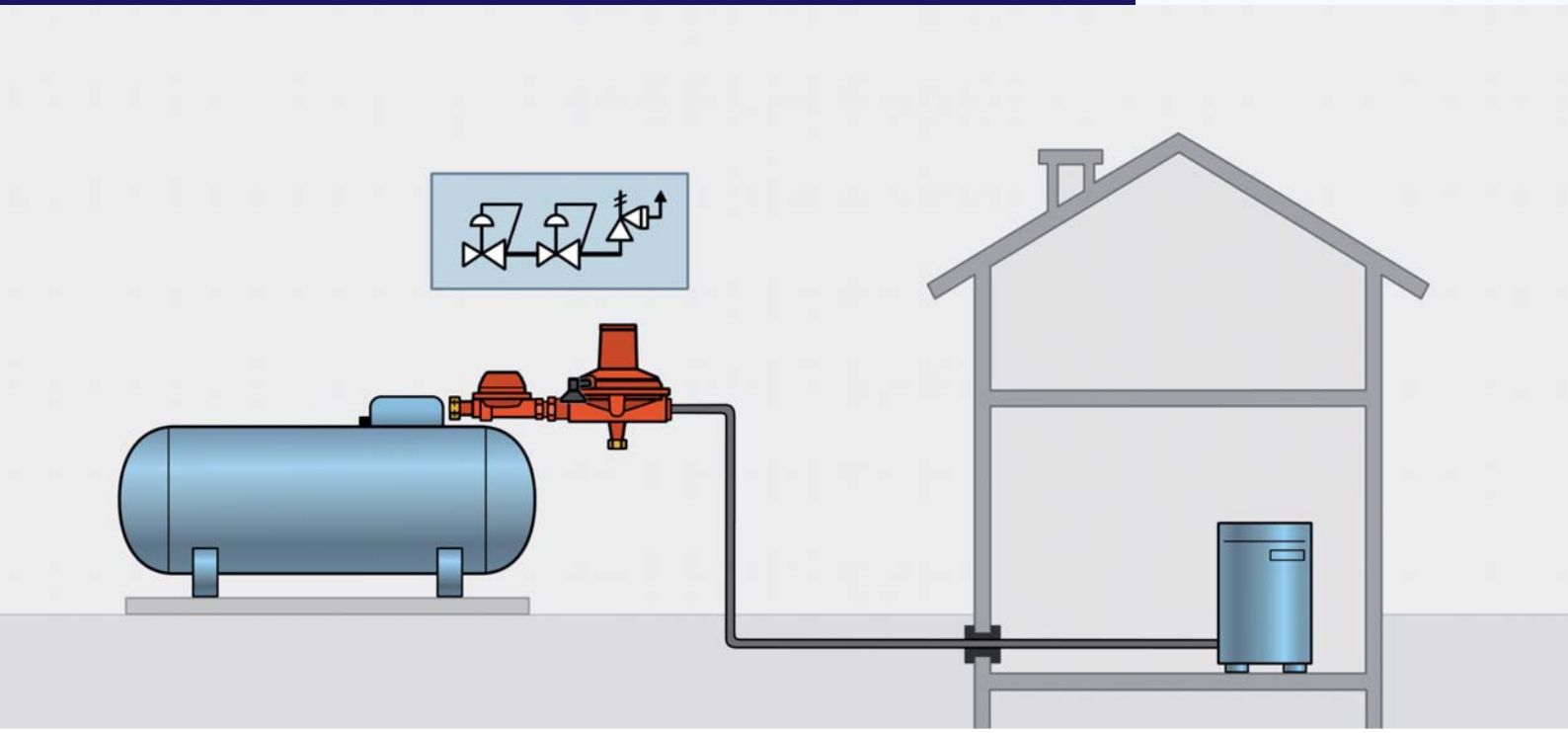
Large cylinder plant

Large cylinder regulator for one cylinder plants or with changeover / sequence valve for multiple cylinder plants for private and commercial use

from page 34



Double stage tank regulator



The double stage tank regulator is an uncomplicated and inexpensive solution for installing a regulator system. By combining a medium and low pressure regulator directly on the gas withdrawal valve in the tank, the tank pressure is kept constant on the operating pressure on the gas consumer device.

The double stage tank regulator can always be used if the pipeline between the tank and the consumer is not too long.

The double stage tank regulators are supplied in various safety levels. That makes it possible to always choose the ideal combination of cost effectiveness and safety standard.

Please refer to the "Safety level" information on page 65.

Double stage tank regulator

Safety level 2 CE

Double stage tank regulator PS 16 bar

Part no.

Straight-way form for direct connection to LPG tank

Comprising: 1st stage regulator with safety pressure relief valve PRV and 2nd stage low pressure regulator mounted in one unit

Advantages and equipment

- POL connector, mounting bolts and diverse interior parts made of stainless steel

Approval

- EC type test according to Pressure Equipment Directive (PED)

Technical data

- Inlet pressure: 1.0 to 16.0 bar

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Double stage tank regulator type BHK 0299

POL x G 1/2 F	29 (30) mbar	12 kg/h	02 905 03
POL x G 1/2 F	50 mbar	12 kg/h	02 905 00

Double stage tank regulator type BHK 052
Certified for Russia

POL x G 1/2 F	37 mbar	12 kg/h	02 905 46
POL x G 1/2 F	50 mbar	12 kg/h	02 905 45

Double stage tank regulator type BHK 01266/01641
Version for use in Poland

POL x G 3/4 M	37 mbar	12 kg/h	02 905 35

Double stage tank regulator

Safety level 4 CE

Double stage tank regulator type 052 PS 25 bar

Straight-way form for direct connection to LPG tank

Comprising: 1st stage regulator with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV and 2nd stage low pressure regulator mounted in one unit

Advantages and equipment

- Lower installation height and length through lateral layout of the 1st stage - that means there is more clearance to the tank upper edge
- POL connector, mounting bolts and diverse interior parts made of stainless steel
- Height-adjustable support also for inclination
- Emergency supply connector G 3/8 lh male thread with non-return valve (optional)
- Test socket and insect protection device

Approval

- EC type test according to Pressure Equipment Directive (PED)
- Tested against icing

Technical data

- Inlet pressure: 1.0 to 16.0 bar

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Double stage tank regulator type 052-B

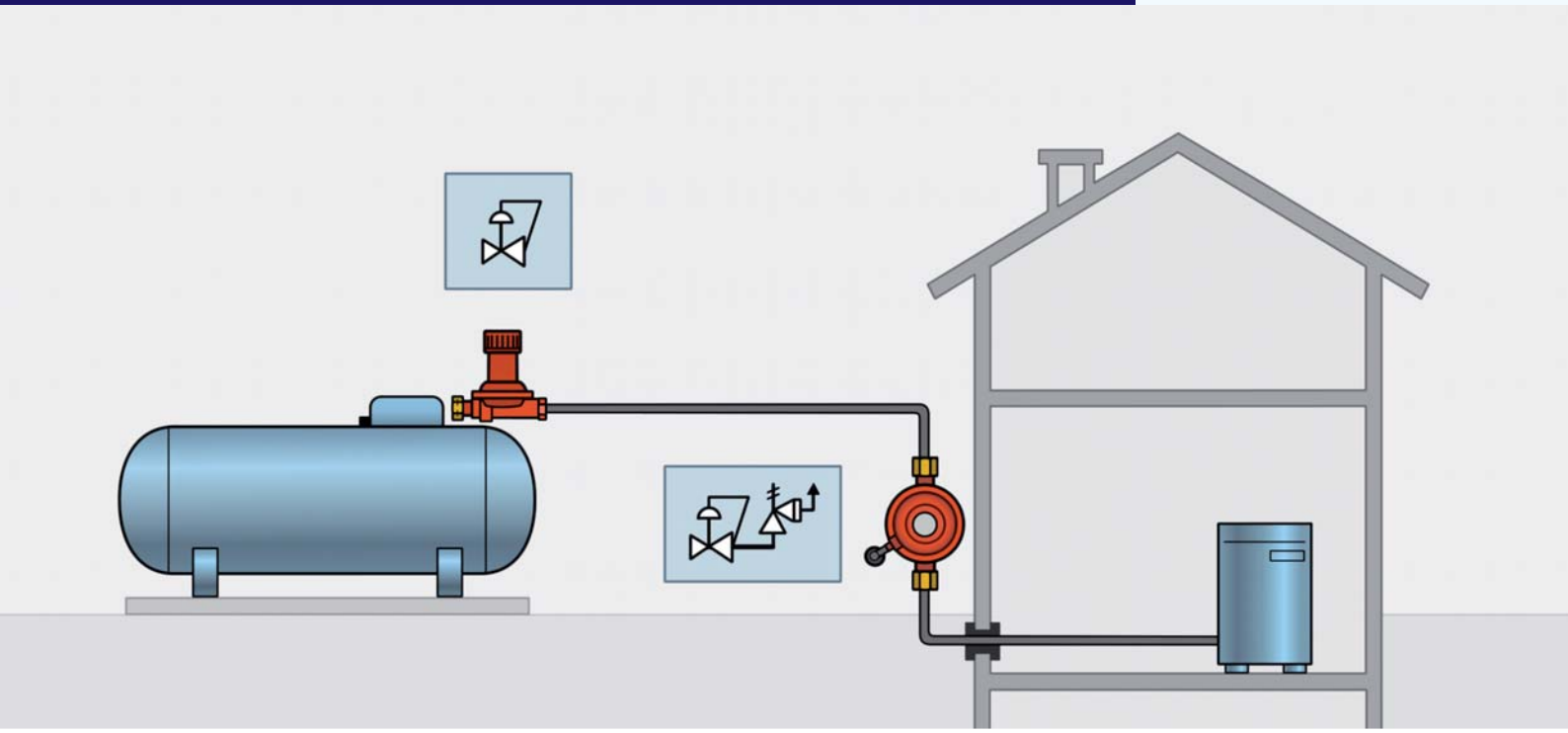
						Part no.
POL	x	G 1/2	F	50 mbar	6 kg/h	05 245 00

Double stage tank regulator type 052

						Part no.
POL	x	G 3/4	F	29 (30) mbar	12 kg/h	02 993 00
Ital.	x	G 3/4	F	37 mbar	12 kg/h	02 993 02
POL	x	G 3/4	F	37 mbar	12 kg/h	02 993 04
POL	x	G 3/4	F	50 mbar	12 kg/h	05 247 10

Notes

2-stage regulator plant



The 2-stage regulator plant comprises two pressure regulators that are installed in the pipeline separate from each other. The tank pressure is kept constant at an average pressure of 0.7–4.0 bar by using a 1st stage regulator. That means pressure losses in long pipelines do not make a big difference.

The second pressure regulator is designed as a low pressure regulator and constantly regulates the operating pressure of the consumer device. The low pressure regulator is installed near the consumer device, outside or inside the building.

The 2-stage regulator plants are supplied in various safety levels. That makes it possible to always choose the ideal combination of cost effectiveness and safety standard.

Please refer to the "Safety level" information on page 65.

2-stage regulator plant

Safety level 1

1st stage regulator PS 16 bar

Part no.

For direct connection to LPG tank for plants with low pressure regulator before the house lead-in

Comprising: 1st stage regulator

Advantages and equipment
- POL connector, mounting bolts and diverse interior parts made of stainless steel

Technical data
- Inlet pressure: 3.0 to 16.0 bar

1st stage regulator type 61F4B
Without manometer

POL	x G 3/8 F	1.5 bar	24 kg/h	01 266 00

Certified for Russia

POL	x G 3/8 F	0.7 bar	24 kg/h	01 266 46
POL	x G 3/8 F	1.5 bar	24 kg/h	01 266 45

With manometer

Ital.	x G 3/8 F	1.5 bar	24 kg/h	01 267 02

1st stage regulator type 01266
Without manometer
Version for use in Poland

POL	x G 3/4 M	1.5 bar	24 kg/h	01 266 36

Safety level 2 CE

1st stage regulator PS 16 bar

Part no.

For direct connection to LPG tank for plants with low pressure regulator before the house lead-in

Comprising: 1st stage regulator with safety pressure relief valve PRV

Advantages and equipment
- POL connector, mounting bolts and diverse interior parts made of stainless steel

Technical data
- Inlet pressure: 1.5 to 16.0 bar

Note
Detailed description of the safety equipment and the safety level,
see page 65 onwards!

1st stage regulator
Version for use in Poland

POL	x G 3/4 M	0.7 bar	24 kg/h	01 266 63
POL	x G 3/8 F	0.7 bar	24 kg/h	01 266 65

2-stage regulator plant

Safety level 4 CE

1st stage regulator PS 25 bar

Part no.

For direct connection to LPG tank for plants with low pressure regulator before the house lead-in

Comprising: 1st stage regulator with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- Short length in the version with integrated safety overpressure shut-off valve OPSO
- POL connector, mounting bolts and diverse interior parts made of stainless steel
- Height-adjustable support also for inclination
- Emergency supply connector G 3/8 lh male thread with non-return valve
- Insect protection device

Approval

- EC type test according to Pressure Equipment Directive (PED)
- Tested against icing

Technical data

- Shut-off pressure OPSO: type 0524: 2.0 bar
  type 0523: 2.5 bar
- Inlet pressure: 1.5 to 16.0 bar

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

1st stage regulator type 0524
With integrated safety overpressure shut-off valve OPSO

Ital.	x G 1/2 F	0.7 bar	10 kg/h	02 771 02
POL	x G 1/2 F	0.7 bar	10 kg/h	05 240 35

1st stage regulator type 0523
With upstream safety overpressure shut-off valve OPSO and visual indicator

POL	x G 1/2 F	1.5 bar	24 kg/h	01 362 00

2-stage regulator plant

Safety level 2 CE

Low pressure regulator

Part no.

For installation in LPG plants for commercial and industrial applications

Comprising: low pressure regulator 2nd stage with safety pressure relief valve PRV

Approval

• EC type test according to Pressure Equipment Directive (PED)

Technical data

• Inlet pressure: 0.5 to 2.5 bar, except: 01 012 00 = 0.5 to 10.0 bar
01 310 00 = 1.5 to 10.0 bar

• Connection for vent pipe G 1/8 F

Note

Use regulators without overpressure protection OPSO only if the nominal pressure of the consumer device corresponds to at least the protection pressure of the tank regulator!
Detailed description of the safety equipment and the safety level, see page 65 onwards!

Low pressure regulator type 104F2.S-50, PS 16 bar

G 1/2 F x G 1/2 F	29 (30) mbar	6 kg/h	01 407 02
G 1/4 F x G 1/2 F	50 mbar	6 kg/h	01 012 00
G 1/2 F x G 1/2 F	50 mbar	6 kg/h	01 407 00
G 1/2 F x G 1/2 F	50 mbar	12 kg/h	01 310 00

Low pressure regulator type 104F2.S-50, PS 5 bar
Version for use in Poland

G 1/2 F x G 1/2 F	50 mbar	4 kg/h	01 604 00

Low pressure regulator type 01641, PS 5 bar
Certified for Russia

G 1/2 F x G 1/2 F	37 mbar	12 kg/h	01 641 46
G 1/2 F x G 1/2 F	50 mbar	12 kg/h	01 641 45

Version for use in Poland

G 1/2 F x G 1/2 F	37 mbar	12 kg/h	01 641 37
G 1 nut x G 1/2 F	37 mbar	12 kg/h	01 641 34
G 1/2 F x G 1/2 F	50 mbar	12 kg/h	01 641 35
G 1 nut x G 1 nut	50 mbar	12 kg/h	01 648 51

Low pressure regulator type 01641 PS 16 bar
Version for use in Poland

G 3/4 nut x G 3/4 nut	37 mbar	12 kg/h	01 648 42
G 1 nut x G 1 nut	37 mbar	12 kg/h	01 648 41

2-stage regulator plant

Safety level 4 CE

Low pressure regulator PS 16 bar

			Part no.
For installation in LPG plants			
Comprising: low pressure regulator 2nd stage with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV			

Advantages and equipment

- Low pressure regulator type 0515 with laterally positioned regulator and safety overpressure shut-off valve OPSO to significantly shorten the installation length
- Test socket and insect protection device

Approval

- EC type test according to Pressure Equipment Directive (PED)

Technical data

- Inlet pressure: 0.5 to 2.5 bar

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Low pressure regulator type 0516				
With upstream safety overpressure shut-off valve				
G 1/2 F	x G 1/2 F	50 mbar	4 kg/h	05 160 00
G 1/2 F	x G 1/2 F	50 mbar	6 kg/h	05 161 00
G 1/2 F	x G 1/2 F	50 mbar	12 kg/h	05 162 00

Low pressure regulator type 0515				
With laterally positioned regulator				
G 1/2 F	x G 1/2 F	29 (30) mbar	12 kg/h	02 779 20
G 1/2 F	x G 1/2 F	37 mbar	12 kg/h	02 774 00
G 1/2 F	x G 1/2 F	50 mbar	12 kg/h	05 155 00
Certified for Russia				
G 1/2 F	x G 1/2 F	37 mbar	12 kg/h	02 774 45
G 1/2 F	x G 1/2 F	50 mbar	12 kg/h	05 155 45

Low pressure regulator type D150				
G 3/4 F	x G 3/4 F	50 mbar	24 kg/h	05 157 00
Low pressure regulator type 5164				
G 3/4 F	x G 3/4 F	50 mbar	24 kg/h	51 642 18

Low pressure regulator type TV0519 PS 4 bar

Part no.	

For installation in LPG plants after the house lead-in

Comprising: low pressure regulator 2nd stage with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- Thermal cut-out device for automatic closure of the gas flow if the temperature rises to over 100 °C
- Laterally positioned regulator and safety overpressure shut-off valve OPSO, to significantly shorten the installation length
- Test socket and insect protection device
- Connection for vent pipe G 1/8 F

Approval

- EC type test according to Pressure Equipment Directive (PED)

Technical data

- Inlet pressure: 0.5 to 2.0 bar

Note

For the safety pressure relief valve PRV, a vent pipe must also be installed!
Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Low pressure regulator type TV0519

G 1/2 F x G 1/2 F	50 mbar	6 kg/h	05 193 45
G 1/2 F x G 3/4 F	29 (30) mbar	12 kg/h	02 777 10

Use the low pressure regulator solely for installation after a 1st stage regulator with an OPSO shut-off pressure of 1.0 bar!

Low pressure regulator type TV0519 PS 4 bar

For installation in LPG plants after the house lead-in

Comprising: low pressure regulator 2nd stage with safety overpressure shut-off valve OPSO and safety membrane

Advantages and equipment

- Thermal cut-out device for automatic closure of the gas flow if the temperature rises to over 100 °C
- Laterally positioned regulator and safety overpressure shut-off valve OPSO, to significantly shorten the installation length
- Test socket and insect protection device
- Safety membrane, that means the safety pressure relief valve PRV is dispensed with and it is not necessary to drain the overpressure into the atmosphere

Approval

- EC type test according to Pressure Equipment Directive (PED)

Technical data

- Inlet pressure: 0.5 to 2.0 bar

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

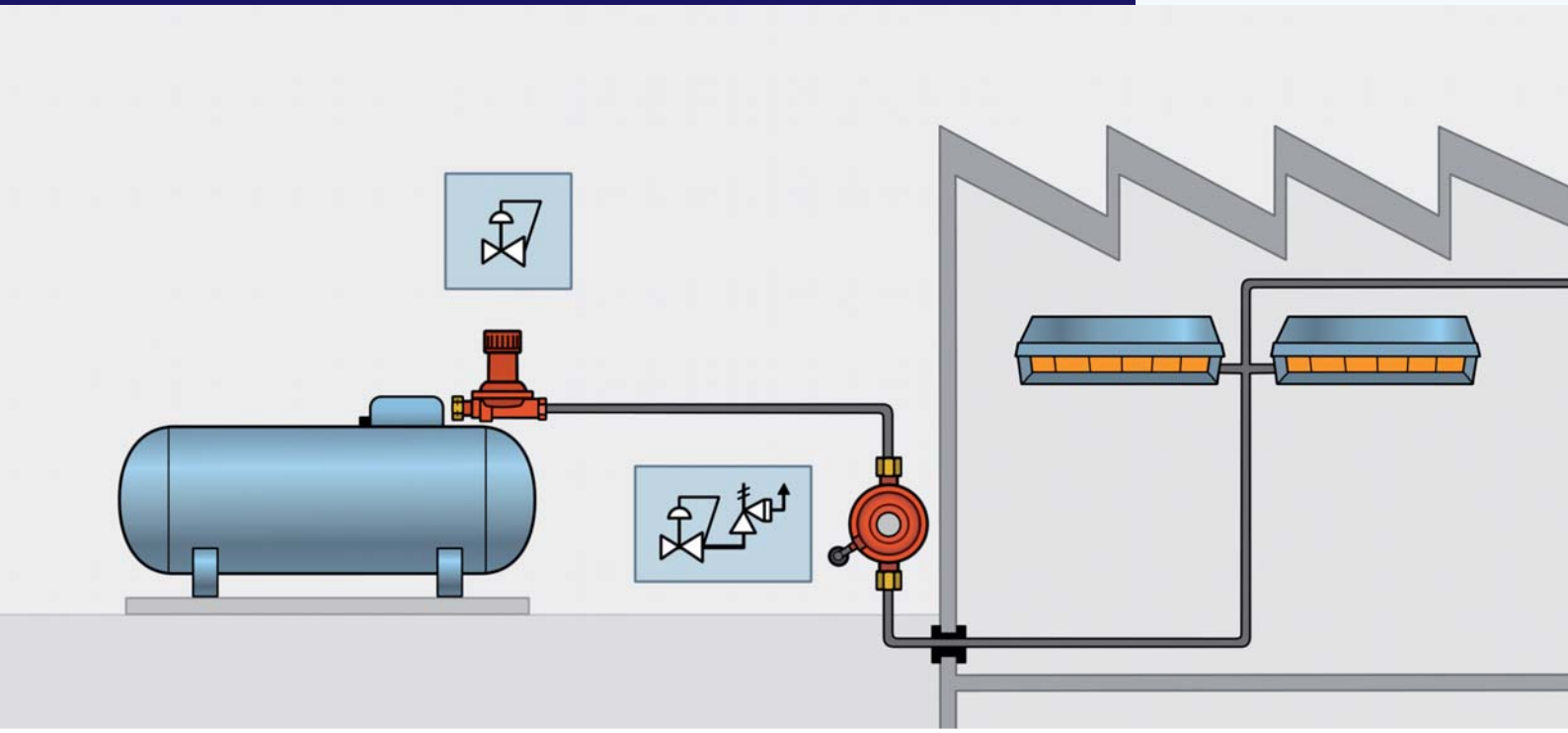
Low pressure regulator type TV0519

			Part no.
G 1/2 F x G 1/2 F	37 mbar	6 kg/h	02 777 02
G 1/2 F x G 1/2 F	50 mbar	6 kg/h	05 193 40
G 1/2 F x G 3/4 F	37 mbar	12 kg/h	02 777 03
G 1/2 F x G 1/2 F	50 mbar	12 kg/h	05 196 40
G 3/4 F x G 3/4 F	37 mbar	24 kg/h	02 778 01
G 3/4 F x G 3/4 F	50 mbar	24 kg/h	05 197 40

Use the low pressure regulator solely for installation after a 1st stage regulator with an OPSO shut-off pressure of 1.0 bar!
In the 24 kg/h version, the gas filter (part no. 02 013 10) with G 3/4 F on both sides must be separately ordered!

Notes

Regulator for industrial applications



Special requirements apply to the LPG plants used in industry and commerce. Very specific inlet and outlet pressures and high flow rates are often required.

GOK has a solution for nearly all these problems. On pages 17 to 23 we show you the low and medium pressure regulators, pressure regulators with high flow rates and adjustable outlet pressure.

The pressure regulators are supplied in various safety levels. That makes it possible to always choose the ideal combination of cost effectiveness and safety standard.

Please refer to the "Safety level" information on page 65.

Safety level 4 CE

Double stage tank regulator PS 25 bar

T-form for direct connection to LPG tanks

Comprising: 1st stage regulator, low pressure regulator 2nd stage with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- Particularly suitable for low pressure network gas plants
- POL connector, mounting bolts and diverse interior parts made of stainless steel
- Height-adjustable support also for inclination
- Protective membrane in 1st stage regulator against regulator membrane icing
- Emergency supply connector G 3/8 lh male thread with non-return valve
- Test socket and insect protection device

Approval

- Individual fittings DIN-DVGW or DVGW-tested or EC type-tested
- Tested against icing

Technical data

- Inlet pressure: 1.5 to 16.0 bar

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Double stage tank regulator

			Part no.
POL x G 1 F	50 mbar	24 kg/h	05 331 01
POL x G 1 F	50 mbar	60 kg/h	05 330 61

Certified for Russia

			Part no.
POL x G 1 F	37 mbar	24 kg/h	02 995 46
POL x G 1 F	50 mbar	24 kg/h	05 331 45
POL x G 1 F	37 mbar	60 kg/h	02 995 45
POL x G 1 F	50 mbar	60 kg/h	05 330 45

Regulator for industrial applications

Safety level 1

1st stage regulator PS 25 bar

Part no.

For direct connection to LPG tank

Comprising: 1st stage regulator

Advantages and equipment
- Adjustable version with manometer and lock-in position on handwheel
- POL connector, mounting bolts and diverse interior parts made of stainless steel
- Emergency supply connector G 3/8 lh male thread with non-return valve
- Test socket

Technical data
- Inlet pressure: outlet pressure + minimum 1.5 bar to maximum 16.0 bar

1st stage regulator, adjustable outlet pressure PS 25 bar
With manometer

POL	x G 1/2 F	0.7-4.0 bar	24 kg/h	01 373 00

1st stage regulator, adjustable outlet pressure PS 16 bar
With manometer
Version for use in Poland

POL	x G 1/2 F	1.0-4.0 bar	24 kg/h	01 530 36
POL	x G 3/4 M	1.0-4.0 bar	24 kg/h	01 530 37

1st stage regulator, fixed outlet pressure PS 25 bar
Without manometer

POL	x G 1/2 F	1.5 bar	24 kg/h	01 360 00
POL	x G 1/2 F	2.0 bar	24 kg/h	01 361 00

1st stage regulator, fixed outlet pressure PS 16 bar
Without manometer
Certified for Russia

POL	x G 3/8 F	0.7 bar	24 kg/h	01 266 46
POL	x G 3/8 F	1.5 bar	24 kg/h	01 266 45

1st stage regulator, fixed outlet pressure PS 25 bar
With manometer

POL	x G 1/2 F	1.5 bar	60 kg/h	01 256 00

Safety level 1

Medium pressure regulator PS 16 bar

Part no.

For installation in LPG plants before the house lead-in

Comprising: 1st stage regulator

Advantages and equipment
- Lock-in position on handwheel

Technical data
- Inlet pressure: outlet pressure + minimum 1.5 bar to maximum 16.0 bar
- Capacity of 100 kg/h with a minimum inlet pressure of 4.0 bar

Medium pressure regulator

1/2 NPT F	x 1/2 NPT F	0.5-3.5 bar	100 kg/h	51 033 00

Regulator for industrial applications

Safety level 4 CE

1st stage regulator PS 25 bar

For direct connection to LPG tank, corresponds to the requirements in BGV D34

Comprising: 1st stage regulator with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- POL connector, mounting bolts and diverse interior parts made of stainless steel
- Height-adjustable support also for inclination
- Emergency supply connector G 3/8 lh male thread with non-return valve
- Test socket and insect protection device
- Adjustable version with manometer and lock-in position on handwheel

Approval

- EC type test according to Pressure Equipment Directive (PED)
- Tested against icing

Technical data

- Nominal flow rate for 01 366 00:
  60 kg/h propane/butane, starting from an inlet pressure of 1.5 bar
  85 kg/h propane/butane, starting from an inlet pressure of 5.5 bar
  100 kg/h propane/butane, starting from an inlet pressure of 7.0 bar
- Inlet pressure: outlet pressure + minimum 1.5 bar to maximum 16.0 bar

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

				Part no.
1st stage regulator type 0136, fixed outlet pressure				
Without manometer				
POL x G 1/2 F	1.5 bar	24 kg/h		01 362 00
1st stage regulator type 0137, adjustable outlet pressure				
With manometer				
POL x G 1/2 F	0.7-2.0 bar	24 kg/h		01 375 00
POL x G 1/2 F	0.7-4.0 bar	24 kg/h		01 376 00
1st stage regulator type 013, fixed outlet pressure				
Without manometer				
POL x G 3/4 F	1.5 bar	60 kg/h		01 364 00
G 1/2 F x G 3/4 F	1.5 bar	60 kg/h		01 364 10
POL x G 3/4 F	2.5 bar	60-100 kg/h		01 366 00
1st stage regulator type 0137, adjustable outlet pressure				
With manometer				
POL x G 3/4 F	0.7-2.0 bar	60 kg/h		01 377 00
G 1/2 F x G 3/4 F	0.7-2.0 bar	60 kg/h		01 377 10

Regulator for industrial applications

Safety level 1

Regulator 11 stages type 61-V500 adjustable PS 16 bar

Part no.

For installation in LPG plants for commercial and industrial applications

Comprising: pressure regulator 2nd stage

Advantages and equipment

- Adjustable version with dial for 11 different, visible and repeatable pressure settings

Approval

- EC type test according to Gas Appliance Directive

Technical data

- Inlet pressure: 1.0 to 10.0 bar

Note

Use regulators without overpressure protection (OPSO) if the nominal pressure of the consumer device corresponds at least to the protection pressure of the tank regulator!

Regulator 11 stages type 61-V500, adjustable outlet pressure					
Compr. fit. 12	x	compr. fit. 12	30-200 mbar	4.0 kg/h	01 524 06

Safety level 1

Regulator 11 stages type 016 adjustable PS 16 bar

Part no.

For installation in LPG plants for commercial and industrial applications

Comprising: pressure regulator 2nd stage

Advantages and equipment

- Adjustable version with dial for 11 different, visible and repeatable pressure settings

Approval

- EC type test according to Gas Appliance Directive

Technical data

- Inlet pressure: outlet pressure + minimum 1.5 bar to maximum 16.0 bar

Note

Use regulators without overpressure protection (OPSO) only if the nominal pressure of the consumer device corresponds at least to the protection pressure of the tank regulator!

Regulator 11 stages type 016, adjustable outlet pressure						
G 1/4 F		x	G 3/8 F		0.35-1.4 bar	3 kg/h	01 626 00
Compr. fit.	10	x	compr. fit.	10	0.35-1.4 bar	10 kg/h	01 614 11

Regulator for industrial applications

Low and medium pressure regulator adjustable PS 16 bar	Part no.	
For installation in LPG plants for commercial and industrial applications Comprising: pressure regulator 2nd stage with safety pressure relief valve PRV		
Technical data • Inlet pressure: 2.0 to 4.0 bar		
Note Use regulators without overpressure protection (OPSO) only if the nominal pressure of the consumer device corresponds at least to the protection pressure of the tank regulator! Detailed description of the safety equipment and the safety level, see 65 onwards!		
Low and medium pressure regulator, adjustable outlet pressure G 1/2 F x G 3/4 F 20-500 mbar 20 kg/h	01 321 00	

Low pressure regulator type D150 PS 4 bar

Part no.

For installation in LPG plants before the house lead-in

Comprising: regulator 2nd stage with safety pressure relief valve PRV

Advantages and equipment

- Insect protection device

Approval

- EC type test according to Pressure Equipment Directive (24 kg/h)

Technical data

- Nominal flow rate:
  30 kg/h propane/butane, starting from an inlet pressure of 0.5 bar
  45 kg/h propane/butane, starting from an inlet pressure of 1.0 bar
  60 kg/h propane/butane, starting from an inlet pressure of 1.5 bar
- Inlet pressure: 0.5 to 2.5 bar

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Low pressure regulator type D150

G 3/4 F x G 3/4 F	50 mbar	20-60 kg/h	51 643 00

Certified for Russia

G 3/4 F x G 3/4 F	37 mbar	20-60 kg/h	51 643 45
G 3/4 F x G 3/4 F	37 mbar	24 kg/h	51 643 46

Version for use in Poland

G 3/4 F x G 3/4 F	37 mbar	24 kg/h	51 643 88

It is recommended to install a gas filter (part no. 02 013 10)!

Accessories

Gas filter (detailed description see page 25)	02 013 10

Safety level 4 CE

Low pressure regulator type D150 PS 16 bar

For installation in LPG plants before the building lead in

Comprising: regulator 2nd stage with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- Test socket and insect protection device

Approval

- EC type test according to Pressure Equipment Directive (24 kg/h)

Technical data

- Nominal flow rate:
  30 kg/h propane/butane, starting from an inlet pressure of 0.5 bar
  45 kg/h propane/butane, starting from an inlet pressure of 1.0 bar
  60 kg/h propane/butane, starting from an inlet pressure of 1.5 bar
- Inlet pressure: 0.5 to 2.5 bar

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Low pressure regulator type D150

			Part no.
G 3/4 F x G 3/4 F	50 mbar	20-60 kg/h	51 642 00
G 1 F x G 1 F	50 mbar	20-60 kg/h	51 640 00
G 3/4 F x G 3/4 F	29 (30) mbar	24 kg/h	51 642 01
G 3/4 F x G 3/4 F	37 mbar	24 kg/h	02 774 10

Certified for Russia

G 3/4 F x G 3/4 F	50 mbar	20-60 kg/h	51 642 09
G 1 F x G 1 F	50 mbar	20-60 kg/h	51 640 10

It is recommended to install a gas filter (part no. 02 013 10)!

Accessories

Gas filter (detailed description see page 25)	02 013 10

Accessories for tank plant

Insulator

Part no.

For installation in LPG plants **before** the house lead-in, for electrical isolation of the pipeline from the building installation

Approval
• DIN-DVGW-tested

Technical data
• For gases according to DVGW worksheet G 260

Insulator

G 1/2 F		x	G 1/2 F		DN 12	PS	4 bar	02 559 00
Compr. fit.	12	x	compr. fit.	12	DN 12	PS	25 bar	02 550 00
Compr. fit.	15	x	compr. fit.	15	DN 12	PS	25 bar	02 551 00

Certified for Russia

G 1/2 F	x	G 1/2 F		DN 12	PS	4 bar		02 559 46

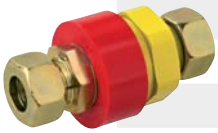
Insulator

Part no.

For installation in LPG plants **after** the house lead-in, for electrical isolation of the pipeline from the building installation

Advantages and equipment
• High temperature resistant version

Approval
• DIN-DVGW-tested



Technical data
• For gases according to DVGW worksheet G 260

Insulator

G 3/4 F		x	G 3/4 M		DN 20	PS	5 bar	02 541 00
Compr. fit.	18	x	compr. fit.	18	DN 20	PS	16 bar	02 542 00
Compr. fit.	22	x	compr. fit.	22	DN 20	PS	16 bar	02 543 00

Certified for Russia

G 3/4 F	x	G 3/4 M		DN 20	PS	5 bar		02 541 45

Accessories for tank plant

Moisture separator PS 25 bar

Part no.

For installation in LPG plants before the tank regulator

Advantages and equipment

- Gas filters with moisture separators protect the 1st stage regulator against interior icing
- The spatial layout of the inlet and outlet connectors prevents the liquid gas from reaching the regulator room in case of recondensation
- The filter cartridge can be quickly and easily replaced, malfunctions caused by pollutants are also prevented
- For compensating elevation differences when connecting the tank regulator to the gas withdrawal valve

Technical data

- Housing material: brass
- Emergency supply connector G 3/8 lh male thread

Moisture separator

POL x POL female thread	02 005 00
Ital. x W20 x 1/14 lh male thread	02 005 01

Accessories

Filter cartridge with moisture separator	02 005 05

Gas filter

Part no.

For installation in LPG pipelines

Technical data

- Material: Housing: brass
  Filter cup: non-ferrous metal
  Filter insert: stainless steel 250 µm

Gas filter

Both sides compression fitting

Compr. fit. 12 x compr. fit. 12 PS 25 bar	02 024 00

Both sides female thread

Rp 3/8 F x Rp 3/8 F PS 16 bar	02 025 00

Accessories

Stainless steel fabric insert 200 µm	13 009 21

Gas filter PS 16 bar

Part no.

For installation in LPG pipelines

Technical data

- Material: Housing: gunmetal
  Filter insert: stainless steel 250 µm

Gas filter

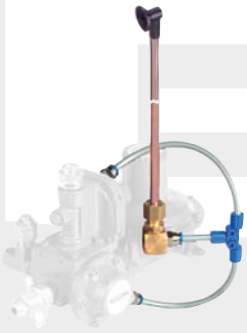
Both sides female thread

Rp 3/4 F x Rp 3/4 F DN 20	02 013 10

Accessories for tank plant

Regulator heating type ES2000

	Part no.
For attachment to tank regulator to avoid icing	
The interaction of various factors such as outdoor temperature and gas withdrawal can be responsible for the gas regulator freezing up.	
Comprising: supply unit, heating unit with 10 m cable, corresponding assembly sets for all GOK double stage tank regulators and 1st stage regulators with safety level 4	
Function: The heat output is generated by two PTC resistors with current control which produce a matching for power transfer. If heat is withdrawn at the gas regulator, for instance due to strongly sinking temperatures, the PTC resistor immediately post heats. When heat is not longer needed, it regulates back so that the energy consumption is very small.	
Approval • EC type approval according to ATEX	
Technical data • Connection voltage: 230 V AC 50 Hz • Operating voltage: 12 V • Power: 25 VA	
Regulator heating Type ES2000	05 220 00



Deaeration and ventilation set

	Part no.
For attachment to tank regulator for underground LPG tanks	
If the dome of an underground LPG tank is flooded, the tank regulator can be flushed with water. The water can penetrate through the breathers into the regulator and cause malfunctions.	
Comprising: plug screw connectors, connection lines, distributor adapter and vent pipe with insect protection hood	
Advantages and equipment • With the deaeration and ventilation set, the breathers are joined together and extended up into the water-free area	
Deaeration and ventilation set For double stage tank regulator AB1 D-Form Series 05 245 / 05 246 / 05 247	02 063 10
For double stage tank regulator AB1 T-Form Series 05 289 / 05 290	02 063 11
For 1st stage regulator A3 with outlet pressure 0.7 bar and regulator valve group 8 with outlet pressure 1.5 bar Series 01 362 / 05 239 / 05 240	02 063 12
For regulator Series 05 330	02 063 13
For regulator Series 05 331	02 063 15

Pressure relief valve type DEV-1

Part no.

For installation in low pressure pipelines or in the low pressure regulator

Advantages and equipment

- Prevents triggering of the safety overpressure shut-off valve OPSO while the pipeline is warming up due to, e.g., sunshine exposure
- The monitoring and safety function of the safety overpressure shut-off valve OPSO or the safety pressure relief valve PRV is not impaired by the pressure relief valve
- Recloses automatically after pressure relief

Approval

- DIN-DVGW-tested

Technical data

- Maximum discharge capacity: 10 l/h air
  15 g/h LPG
- Opening pressure between 80 and 93 mbar

Pressure relief valve type DEV-1		
G 1/4 M	85 mbar	02 795 00

Safety overpressure shut-off valve OPSO type 029 PS 4 bar

Part no.

For securing the low and medium pressure line in existing plants

Advantages and equipment

- This valve shuts off the gas supply as soon as an impermissibly high pressure arises in the low or medium pressure area which could damage the consumer devices

Approval

- EC type test according to Pressure Equipment Directive (PED)

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Safety overpressure shut-off valve type 029					
G 1/2 F	x	G 1/2 F	12 kg/h	max. shut-off pressure 110 mbar	02 898 00

Connector POL PS 25 bar

Part no.

Connector POL
Material: brass

POL	x	GF male thread	02 512 00
POL	x	pipe socket 15	02 513 00

Accessories for tank plant

Diaphragm gas meter one-pipe G4 PS 0.1 bar

Part no.

For installation in low pressure LPG plants and natural gas plants

Advantages and equipment

- Calibrated
- Bracket
- For remote transmission, a reed contact can be installed as an option

Approval

- DIN-DVGW-tested

Technical data

- Cylic volume: 1.2 litre
- Load: Q min: 0.040 m^3/h; Q max: 6 m^3/h
- Medium: for all gases according to DVGW worksheet G 260
- Dimensions H/W/D: 235 x 199 x 162 mm

Diaphragm gas meter one-pipe G4

G 2 F DN 25	05 687 00

Bracket for diaphragm gas meter one-pipe PS 1 bar

Part no.

For connection to a gas meter in a one-pipe system

Advantages and equipment

- Meter connection can be rotated depending on installation circumstances

Technical data

- Connection: G 2 M flat-sealing with seal hole
- Pipe connection with straight compression fitting 15 and 18 mm or with adjustable elbow compression fitting 15 and 18 mm
- Material: galvanized steel
- Mounting plate dimensions H/W: 100 x 180 mm

Bracket for diaphragm gas meter one-pipe

With straight compression fitting	
G 2 M x compr. fit. 15	05 687 13
G 2 M x compr. fit. 18	05 687 15
With adjustable elbow compression fitting	
G 2 M x compr. fit. 15	05 687 14
G 2 M x compr. fit. 18	05 687 16
Without compression fitting	
G 2 M x G 1/2 F	05 687 18

Accessories

Safety clamp (mechanical protection and for sealing the gas meter coupling nut)	05 687 05

Radial

Manometer pipe spring

	Part no.
For installation in pipelines or pressure regulators	
Manometer pipe spring, radial	
Pressure gauge according to DIN EN 837-1, accuracy class 2.5	
Display range 0-4.0 bar Ø 63 mm G 1/4 M B	53 002 10
Display range 0-6.0 bar Ø 50 mm G 1/4 M B	01 100 00
Display range 0-6.0 bar Ø 40 mm G 1/8 M B	01 100 13
Display range 0-16.0 bar Ø 40 mm G 1/8 M B	01 100 33

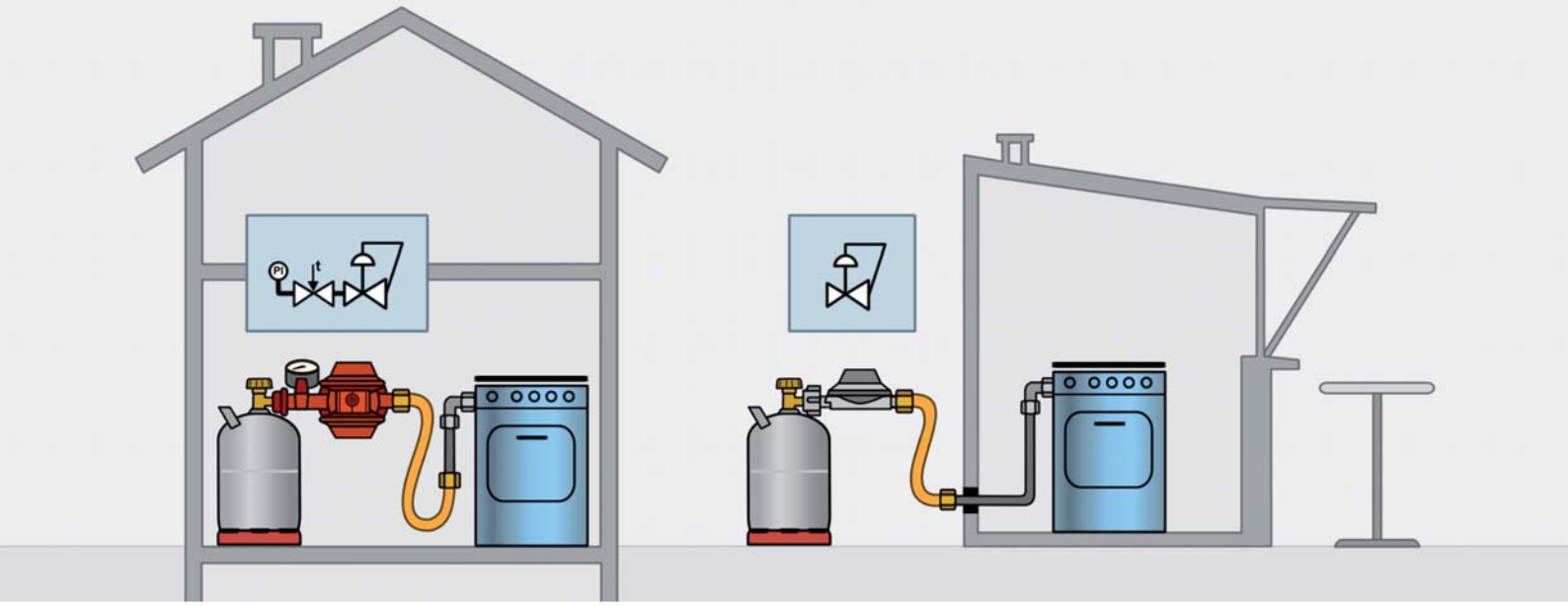
Manometer gasket

	Part no.
For manometer and cylinder connectors	
Manometer gasket	
G 1/8 NBR	20 013 97
G 1/4 Alu	01 100 23
G 1/4 Copper	53 045 00
G 1/2 Copper	53 046 00

Solenoid valve PS 0.15 bar

	Part no.
For installation in low pressure pipelines	
Advantages and equipment	
• Suitable for LPG and natural gas	
• Closed currentless	
Approval	
• EC type test according to Gas Appliance Directive	
Technical data	
• Maximum operating pressure: nominal width DN 12 = 0.20 bar	
nominal width DN 20 = 0.15 bar	
• Power connection: 230 V AC 50 / 60 Hz	
Solenoid valve	
G 1/2 F x G 1/2 F DN 12	02 051 49
G 3/4 F x G 3/4 F DN 20	02 051 47

Small cylinder plant



GOK has a wide product line of small cylinder regulators for withdrawing LPG from small cylinders up to 14 kg net weight. These constantly regulate the cylinder pressure to the gas consumer operating pressure. We provide these pressure regulators with various inlet and outlet connectors and in all conventional outlet pressures.

The small cylinder regulators are supplied in various safety levels. That makes it possible to always choose the ideal combination of cost effectiveness and safety standard.

Please refer to the ”Safety level” information on page 65.

Safety level 1

Low pressure regulator type EN61 PS 16 bar

For connection to gas cylinders up to 14 kg net weight

			Part no.
Approval			
• EC type test according to Gas Appliance Directive			
Low pressure regulator type EN61			
Straight outlet			
Shell x G 1/4 lh M	29 (30) mbar	1.5 kg/h	01 060 37
Ital. x G 1/4 lh M	29 (30) mbar	1.5 kg/h	01 115 09
POL soft x G 1/4 lh M	37 mbar	1.5 kg/h	01 060 34
KLF x G 1/4 lh M	50 mbar	1.5 kg/h	01 115 00
Straight outlet			
Shell x nozzle 10 mm	37 mbar	1.5 kg/h	01 115 62
Version for use in Poland			
Komb.W x G 1/4 lh M	37 mbar	1.0 kg/h	01 001 36
Komb.W x G 1/4 lh M	37 mbar	1.5 kg/h	01 115 36
Version for use in Poland			
KLF WAF 27 x nozzle 8 mm	37 mbar	1.5 kg/h	01 115 42
Certified for Russia			
Shell x nozzle	29 (30) mbar	1.5 kg/h	01 115 51
Shell x nozzle	37 mbar	1.5 kg/h	01 115 52
90° outlet			
Version for use in Poland			
G 3/8 nut x nozzle 8 mm	37 mbar	1.0 kg/h	01 115 45

Safety level 1

Low pressure regulator type EN61 “t“ PS 16 bar

Comprising: low pressure regulator, thermal cut-out device and test manometer

Advantages and equipment

- Thermal cut-out device for automatic closure of the gas flow if the temperature rises over 100 °C
- Test manometer to check the plant for leaks

Approval

- EC type test according to Gas Appliance Directive

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

			Part no.
Low pressure regulator type EN61 “t“			
With manometer			
KLF x G 1/4 lh M	29 (30) mbar	1.5 kg/h	05 014 30
Komb.W x G 1/4 lh M	37 mbar	1.5 kg/h	05 014 37
KLF x G 1/4 lh M	50 mbar	1.5 kg/h	05 014 00
Replacement part			
Manometer axial, display range 0-16.0 bar, Ø 40 mm, G 1/2 M			01 100 38

Safety level 3 CE

Low pressure regulator type EN61-DS PS 16 bar

	Part no.
For connection to gas cylinders up to maximum 33 kg net weight Comprising: low pressure regulator with integrated overpressure safety device	
Advantages and equipment • Optional test manometer for leak testing the plant and optionally with 45° or 90° outlet to prevent bending the hose assembly	
Approval • EC type test according to Pressure Equipment Directive (PED)	
Note Detailed description of the safety equipment and the safety level, see page 65 onwards!	
 Low pressure regulator type EN61-DS With manometer Straight outlet Komb.A x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 150 36
 Without manometer KLF x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 150 30
 With manometer 45° outlet Komb.A x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 140 36
 Without manometer KLF x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 140 30
 With manometer 90° outlet Komb.A x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 135 36
 Without manometer Komb.A x G 1/4 lh M 29 (30) mbar 1.5 kg/h	01 135 31
Replacement part Manometer pipe spring, radial, display range 0-16.0 bar, Ø 40 mm, G 1/8 M	01 100 33

Low pressure regulator type EN61-DS PS 16 bar

Part no.

For connection to gas cylinders up to maximum 33 kg net weight

Comprising: low pressure regulator with integrated overpressure safety device and excess flow valve

Advantages and equipment

- Especially suitable for application in commercially used consumer devices with hose assemblies longer than 400 mm such as for patio heaters, barbecues, stoves etc.

Approval

- EC type test according to Pressure Equipment Directive (PED)

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Low pressure regulator type EN61-DS
Straight outlet

						Part no.
KLF	x	G 1/4	lh M	29 (30) mbar	1.5 kg/h	01 150 32
Komb.A	x	G 1/4	lh M	29 (30) mbar	1.5 kg/h	01 150 33
KLF	x	G 1/4	lh M	50 mbar	1.5 kg/h	01 150 02
Komb.A	x	G 1/4	lh M	50 mbar	1.5 kg/h	01 150 03

Low pressure regulator type EN61-DS PS 16 bar

Part no.

For connection to small cylinders up to maximum 14 kg net weight

Comprising: low pressure regulator with integrated overpressure safety device, thermal cut-out device and test manometer

Advantages and equipment

- Thermal cut-out device for automatic closure of the gas flow if the temperature rises to over 100 °C
- Test manometer to check the plant for leaks

Approval

- EC type test according to Pressure Equipment Directive (PED)

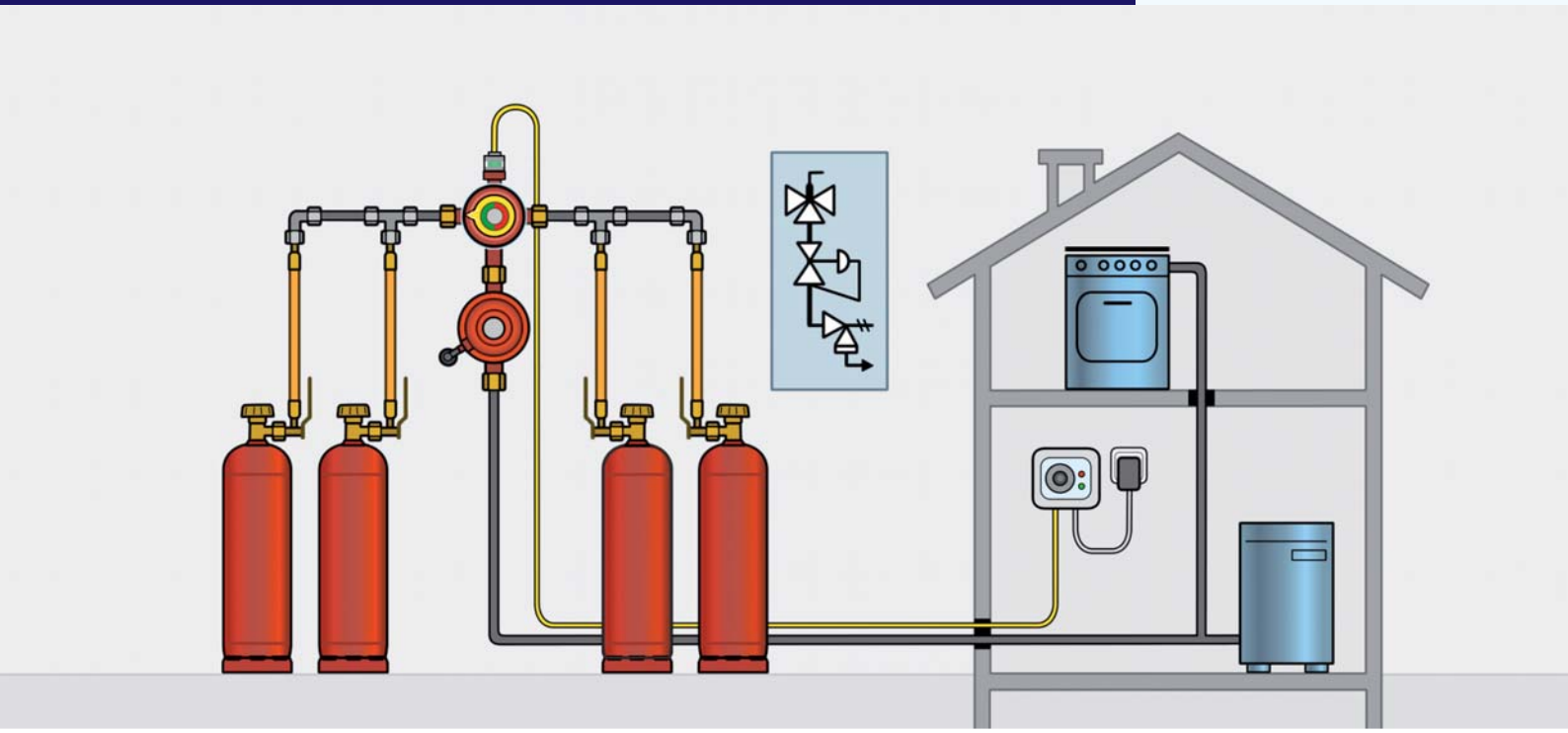
Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Low pressure regulator type EN61-DS
with manometer
Straight outlet

						Part no.
Ital.	x	G 1/4	lh M	29 (30) mbar	1.5 kg/h	05 150 40
KLF	x	G 1/4	lh M	50 mbar	1.5 kg/h	05 150 00

Large cylinder plant



GOK has a wide product line of large bottle regulators for withdrawing LPG from large cylinders starting from 14 kg net weight. These constantly regulate the cylinder pressure to the gas consumer operating pressure. We provide these pressure regulators with various inlet and outlet connectors and in all conventional outlet pressures.

The large cylinder regulators are supplied in various safety levels. That makes it possible to always choose the ideal combination of cost effectiveness and safety standard.

Please refer to the "Safety level" information on page 65.

Low pressure regulator PS 16 bar				Part no.
For connecting to gas cylinders with a net weight of 33 kg				
Comprising: low pressure regulator with safety pressure relief valve PRV				
Advantages and equipment				
• Insect protection device				
Approval				
• EC type test according to Pressure Equipment Directive (version 4 or 6 kg/h)				
Note				
Comply with the evaporation capacity of gas cylinders.				
Detailed description of the safety equipment and the safety level, see page 65 onwards!				
Low pressure regulator type FL92-4, flared				
GF	x G 1/2 lh M	50 mbar	4 kg/h	01 004 00
GF	x G 1/2 lh M	50 mbar	6 kg/h	01 006 00
Low pressure regulator type FL92-4, flared				
Ital.	x G 1/2 M	29 (30) mbar	4 kg/h	01 504 10
GF	x G 1/2 M	37 mbar	4 kg/h	01 504 12
Certified for Russia				
GF	x G 1/2 lh M	37 mbar	4 kg/h	01 004 47
GF	x G 1/2 lh M	50 mbar	4 kg/h	01 004 46
Low pressure regulator type FL92-4, screwed				
Certified for Russia				
GF	x G 1/2 lh M	37 mbar	10 kg/h	01 010 46
GF	x G 1/2 lh M	50 mbar	10 kg/h	01 010 45
Low pressure regulator type 01004, screwed				
Version for use in Poland				
GF	x G 1/2 lh M	37 mbar	4 kg/h	01 004 36
GF	x G 1/2 lh M	37 mbar	6 kg/h	01 006 36
Low pressure regulator type 104F2.S-50, screwed				
GF	x G 1/2 lh M	50 mbar	10 kg/h	01 010 00
Version for use in Poland				
GF	x G 1/2 lh M	37 mbar	10 kg/h	01 010 36

Safety level 4 CE

Low pressure regulator PS 16 bar

For connecting to gas cylinders with a net weight of 33 kg

Comprising: low pressure regulator with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV

Advantages and equipment

- Test socket and insect protection device
- Height-adjustable support

Approval

- EC type test according to Pressure Equipment Directive (PED)

Note

Comply with the evaporation capacity of gas cylinders.
Detailed description of the safety equipment and the safety level, see page 65 onwards!

Type FL 90-4

Type FL 91-4

				Part no.
Low pressure regulator type FL 90-4				
GF x G 1/2	F	37 mbar	4 kg/h	05 004 37
Low pressure regulator type FL 90-4				
GF x G 1/2	lh M	50 mbar	4 kg/h	05 004 00
Low pressure regulator type FL 91-4				
GF x G 1/2	lh M	29 (30) mbar	4 kg/h	05 104 03
GF x G 1/2	lh M	50 mbar	4 kg/h	05 104 00
Low pressure regulator type FL 91-4				
Ital. x G 1/2	M	29 (30) mbar	4 kg/h	05 104 30

Large cylinder plant

Safety level 4

Two cylinder plant PS 16 bar

Part no.

Specifically for commercial and domestic use, for connection to gas cylinders with a net weight of 33 kg

Comprising: high-pressure hose assemblies, automatic changeover valve, low pressure regulator with safety overpressure shut-off valve OPSO and safety pressure relief valve PRV, adapter with pipe socket 12 mm for connection to the pipe, threaded connectors, optionally with remote indicator including remote indicator display, transformer and surface-mounted socket

Advantages and equipment

- Withdrawal is alternating
- Cylinder replacement is possible without interrupting operations
- Maintenance-free and robust through integrated operating and reserve indicator (red/green)
- Safety control element: an integrated safety device avoids the escape of gas when a cylinder is replaced
- Maximum 25 m line length with 1.5 mm^2 cable cross-section

Approval

- Individual fittings DIN-DVGW or DVGW-tested or EC type-tested

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Two cylinder plant

50 mbar, 4 kg/h with:

Automatic sequence valve type AUV	05 078 00
Automatic sequence valve type AUV with electronic remote indicator	05 078 10

Six cylinder plant

50 mbar, 10 kg/h with:

Automatic sequence valve type 0225AUV	05 087 00

Accessories

Retrofit set for electronic remote indicator	05 078 20

Suitable only for the two cylinder plant!

Safety level 2 CE

Multiple cylinder plant PS 16 bar

Specifically for commercial and domestic use, for connection to gas cylinders with a net weight of 33 kg

Comprising: high-pressure hose assemblies, automatic changeover valve, low pressure regulator with safety pressure relief valve PRV, adapter with pipe socket 12 mm for connection to the pipe and threaded connectors

Advantages and equipment

- Withdrawal is alternating
- Cylinder replacement is possible without interrupting operations
- Maintenance-free and robust through integrated operating and reserve indicator (red/green)
- Safety control element: an integrated safety device avoids the escape of gas when a cylinder is replaced

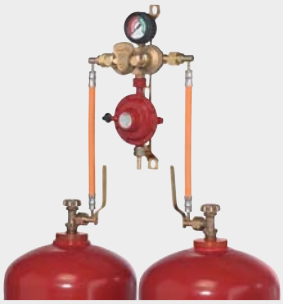
Approval

- Individual fittings DIN-DVGW or DVGW-tested or EC type-tested

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Type AUV



Type 0225AUV

	Part no.
Two cylinder plant	
Certified for Russia	
37 mbar, 4 kg/h with:	
Automatic changeover valve type 0225AUV	02 028 46
50 mbar, 4 kg/h with:	
Automatic changeover valve type 0225AUV	02 028 45
Version for use in Poland	
37 mbar, 4 kg/h with:	
Automatic sequence valve type AUV	02 028 37
Automatic sequence valve type 0225AUV	02 028 36
Two cylinder plant	
50 mbar, 4 kg/h with:	
Automatic sequence valve type 0225AUV	02 028 00
Four cylinder plant	
Version for use in Poland	
37 mbar, 4 kg/h with:	
Automatic changeover valve type AUV	02 031 36
37 mbar, 6 kg/h with:	
Automatic sequence valve type 0225AUV	02 031 37
Four cylinder plant	
50 mbar, 6 kg/h with:	
Automatic sequence valve type 0225AUV	02 031 00

Safety level 2 CE

Multiple cylinder plant PS 16 bar	Part no.	
For connecting to gas cylinders with a net weight of 33 kg		
Comprising: high-pressure hose assemblies, pipe inserts, changeover valve, low pressure regulator with safety pressure relief valve PRV, adapter with pipe socket 12 mm for connection to the pipe and threaded connectors		
Advantages and equipment		
• In bottle plants with changeover valve or automatic sequence valve, withdrawal is alternating, cylinder replacement can be made without interrupting operations		
Approval		
• Individual fittings DIN-DVGW or DVGW-tested or EC type-tested		
Note		
Detailed description of the safety equipment and the safety level, see page 65 onwards!		
Two cylinder plant		
50 mbar, 4 kg/h with:		
Changeover valve	02 027 00	
Four cylinder plant		
50 mbar, 6 kg/h with:		
Changeover valve	02 030 00	

Accessories for cylinder plant

Automatic sequence valve type 0225AUV PS 16 bar

	Part no.
For installation in multiple cylinder plants	
Comprising: automatic connection, manometer with operating/reserve display, selector and fastening facilities with bolts for mounting rails	
Advantages and equipment	
• Facilitates automatic connection of the reserve side for alternating withdrawal	
• Pressure setting: operation: 1.7 bar, reserve: 0.8 bar Other settings up to 2.5 bar on request.	
• For capacities over 4 kg/h, the automatic sequence valve simultaneously serves as the 1st stage	
• Withdrawal is exclusively alternating, the cylinder can be changed during operation	
Approval	
• EC type test according to Pressure Equipment Directive (PED)	
Automatic sequence valve type 0225AUV	
GF x GF M x GF	02 253 00
Certified for Russia	
GF x GF M x GF	02 253 45
Accessories	
Manometer operation/reserve	02 253 30
Seal alu, for manometer	01 100 22

Changeover valve PS 16 bar

	Part no.
For installation in multiple cylinder plants	
Comprising: changeover valve with handle and fastening facility with screw for mounting rail	
Advantages and equipment	
• Withdrawal is exclusively alternating, the cylinder can be changed during operation	
Changeover valve	
GF x GF M x GF	02 254 00
Certified for Russia	
GF x GF M x GF	02 254 45

Double shut-off block PS 16 bar

	Part no.
For installation in multiple cylinder plants	
Comprising: double shut-off block with quick-acting stop or regulating valves and fastening facility with screw for mounting rail	
Advantages and equipment	
• Enables simultaneous and alternating withdrawal from both sides of the cylinder plant	
Double shut-off bock	
With quick-acting stop valves	
Ital. x Ital. M x Ital.	02 251 02
With regulating valves	
GF x GF M x GF	02 252 00

Accessories for cylinder plant

Mounting rail

Part no.

For fastening regulators and changeover valves to the wall

Technical data
- Material: galvanized steel

Mounting rail

Length 380 mm	02 510 00	

Gas hose assembly, high-pressure PS 30 bar

Part no.

For connecting gas cylinders with a net weight of 33 kg to changeover valves or to expand the cylinder plants

Approval
- DIN-DVGW-tested

Gas hose assembly

One side GF connector Other side GF male thread		
GF x GF M x 300 mm with handle	04 490 00	
GF x GF M x 400 mm with handle	04 489 00	
One side KLF connector Other side GF male thread		
KLF x GF M x 300 mm without handle	04 491 00	
One side GF connector Other side pipe socket with nut and olive		
GF x pipe socket 12 x 300 mm with handle	04 494 00	
GF x pipe socket 12 x 400 mm with handle	04 497 00	
Komb.A x pipe socket 12 x 300 mm with handle	04 494 03	

Connector and gas hose assembly

Part no.

E.g. for simultaneous withdrawal from several gas cylinders up to 33 kg net weight

Advantages and equipment
- For simultaneous withdrawal from two gas cylinders, one connector and one high-pressure hose assembly is required
- For simultaneous withdrawal from three gas cylinders, two connectors and two high pressure hose assemblies are required

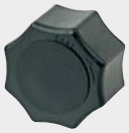
Technical data
- Material: brass

Connector		
GF M x Komb.A x GF M	04 572 00	
G-hose		
Komb.A x Komb.A x 400 mm	04 573 00	

Accessories for cylinder plant

Seal for cylinder connector

Seal for cylinder connector		Part no.
Small cylinder connector	Material: NBR	10 071 22
Large cylinder connector	Material: plastic	01 004 29
Large cylinder connector	Material: alu	01 004 30
Kombi connector	Material: plastic	20 009 75
Kombi connector	Material: NBR	20 009 86



Lock nut

To protect the connection thread on gas cylinder valves

Technical data
- Material: plastic
- Female thread: W 21.8 x 1/14“ lh

Lock nut	Part no.
Without mounting tab	
For small cylinders (5 and 11 kg)	55 300 90
For large cylinders (33 kg)	55 301 90
With mounting tab	
For small cylinders (5 and 11 kg)	55 300 95

Lock screw

To protect the female thread in the coupling nut of pressure regulators that are not mounted on the cylinder valve

Advantages and equipment
- Mounting tab

Technical data
- Material: plastic
- Male thread W 21.8 x 1/14“ lh

Note
It is prohibited to use the lock screw on regulators with non-return valve, e.g. Duomatic!

Lock screw	Part no.
For KLF, GF and Kombi coupling nut	55 300 92

Accessories for cylinder plant

Cylinder cabinet		Part no.
To protect gas cylinders from unauthorised access in the private and commercial sector		
Advantages and equipment		
• For 11 kg or 33 kg gas cylinders		
• Square lock including square key		
• Optionally with rear wall		
Technical data		
• Material: sheet steel, hot-dip galvanized		
Cylinder cabinet for 11 kg cylinders		
1-cylinder cabinet	(H/W/D: 750 x 460 x 400 mm)	18 513 00
1-cylinder cabinet with rear wall	(H/W/D: 750 x 460 x 400 mm)	18 513 03
2-cylinder cabinet	(H/W/D: 750 x 840 x 400 mm)	18 514 00
2-cylinder cabinet with rear wall	(H/W/D: 750 x 840 x 400 mm)	18 514 03
Accessories for 11 kg cylinder cabinets		
Rear wall for 1-cylinder cabinet		18 517 00
Rear wall for 2-cylinder cabinet		18 518 00
Cylinder cabinet for 33 kg cylinders		
1-cylinder cabinet	(H/W/D: 1500 x 460 x 400 mm)	18 503 00
1-cylinder cabinet with rear wall	(H/W/D: 1500 x 460 x 400 mm)	18 503 03
2-cylinder cabinet	(H/W/D: 1500 x 840 x 400 mm)	18 504 00
2-cylinder cabinet with rear wall	(H/W/D: 1500 x 840 x 400 mm)	18 504 03
4-cylinder cabinet	(H/W/D: 1500 x 1680 x 400 mm)	18 505 00
4-cylinder cabinet with rear wall	(H/W/D: 1500 x 1680 x 400 mm)	18 505 03
6-cylinder cabinet	(H/W/D: 1500 x 2520 x 400 mm)	18 511 00
Accessories for 33 kg cylinder cabinets		
Rear wall for 1-cylinder cabinet		18 508 00
Rear wall for 2-cylinder cabinet		18 509 00
Built-in door with frame for 1-cylinder cabinet		18 506 00
Built-in door with frame for 2-cylinder cabinet		18 507 00
Accessories		
Cylinder lock		18 504 15
Floor grating for 2-cylinder cabinet		18 504 11
Spare key for square lock		18 504 10

Quick-acting stop valve thermal PS 5 bar	Part no.	
With thermal cut-out device, for installation in LPG pipelines		
Comprising: thermal cut-out valve and ball valve optional in 90° version		
Advantages and equipment		
• Especially suitable as shut-off valve for appliances		
• Latches in the completely open or closed position		
Approval		
• DIN-DVGW-tested		
Technical data		
• Material: Housing: brass chrome plated		
Olives: steel		
Note		
Detailed description of the safety equipment and the safety level, see page 65 onwards!		
Quick-acting stop valve thermal		
Straight version		
Compr. fit. 8 x compr. fit. 8	03 202 40	
Compr. fit. 12 x compr. fit. 12	03 207 40	
Compr. fit. 15 x compr. fit. 15	03 208 40	
90° version		
Compr. fit. 12 x compr. fit. 12	03 221 40	

Ball valve thermal PS 5 bar

With thermal cut-out device, for installation in LPG pipelines

Comprising: thermal cut-out valve and ball valve

Advantages and equipment

- Especially suitable as shut-off valves for appliances
- Only completely open or closed position

Approval

- DIN-DVGW-tested

Technical data

- Material: Housing: brass nickel plated
  Olives: steel

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Ball valve thermal	Part no.
Both sides compressing fitting	
Compr. fit. 8 x compr. fit. 8	02 701 41
Compr. fit. 10 x compr. fit. 10	02 701 42
Compr. fit. 12 x compr. fit. 12	02 701 43
Compr. fit. 15 x compr. fit. 15	02 702 41
Compr. fit. 18 x compr. fit. 18	02 702 42
Compr. fit. 22 x compr. fit. 22	02 703 45
Both sides female thread	
Rp 3/8 F x Rp 3/8 F	02 701 40
Rp 1/2 F x Rp 1/2 F	02 702 40
Rp 3/4 F x Rp 3/4 F	02 703 40

Brass ball valve type 0270 PS 16 bar	Part no.	
Quick-acting stop fitting, only completely open or closed position, no regulating		
Advantages and equipment		
• PTFE seal		
• Optionally with test point compression fitting 12		
Approval		
• DVGW-tested		
• EC type test according to Gas Appliance Directive		
Technical data		
• Material: brass nickel plated		
Note		
When using screw-in connectors, we recommend the version with parallel thread and inserted O-ring as the female thread in the 02 701 00, 02 702 00 and 02 703 00 ball valves is made with a groove!		
Brass ball valve type 0270		
Both sides parallel thread		
Rp 1/4 F x Rp 1/4 F	02 700 00	
Rp 3/8 F x Rp 3/8 F	02 701 00	
Rp 1/2 F x Rp 1/2 F	02 702 00	
Rp 1/2 F x Rp 1/2 F with test point compr. fit. 12	02 702 13	
Rp 3/4 F x Rp 3/4 F	02 703 00	
Rp 1 F x Rp 1 F	02 704 00	
Certified for Russia		
Rp 1/2 F x Rp 1/2 F	02 702 47	
Rp 3/4 F x Rp 3/4 F	02 703 46	
Rp 1 F x Rp 1 F	02 704 45	
Both sides compression fitting		
Compr. fit. 8 x compr. fit. 8	02 700 01	
Compr. fit. 10 x compr. fit. 10	02 701 11	
Compr. fit. 12 x compr. fit. 12	02 701 01	
Compr. fit. 15 x compr. fit. 15	02 702 01	
Compr. fit. 18 x compr. fit. 18	02 702 02	
Compr. fit. 22 x compr. fit. 22	02 703 01	
Accessories		
O-ring NBR		
For part no. 02 701 00 (14.0 x 2.7 mm)	25 520 85	
For part no. 02 702 00 (17.86 x 2.62 mm)	25 520 76	
For part no. 02 703 00 (23.4 x 3.53 mm)	25 520 77	

Cut-out device thermal PS 5 bar

For thermal protection of valves in buildings

Advantages and equipment

- Thermally triggering cut-out element, for protecting the consumer device from impermissibly high temperatures; automatically closes the flow at temperatures over 100 °C

Approval

- DVGW-tested
- EC type test according to Gas Appliance Directive

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Cut-out device, thermal

					Part no.
Rp 3/8 F	x	R 3/8 M		DN 12	05 300 51
Rp 1/2 F	x	R 1/2 M		DN 15	05 300 41
Rp 1/2 F	x	G 1/2 M		DN 15	05 300 56
Rp 1/2 F	x	Rp 1/2 F		DN 15	05 300 40
Compr. fit. 15	x	compr. fit.	15	DN 15	05 300 43
Compr. fit. 18	x	compr. fit.	18	DN 15	05 300 44
Rp 3/4 F	x	Rp 3/4 F		DN 20	05 300 45
Rp 3/4 F	x	R 3/4 M		DN 20	05 300 46
Rp 1 F	x	R 1 M		DN 25	05 300 61
Compr. fit. 18	x	compr. fit.	18	DN 20	05 300 48
Compr. fit. 22	x	compr. fit.	22	DN 20	05 300 49

Certified for Russia

					Part no.
Rp 1/2 F	x	R 1/2 M		DN 15	05 300 35
Rp 3/4 F	x	Rp 3/4 F		DN 20	05 300 36
Rp 3/4 F	x	R 3/4 M		DN 20	05 300 37
Rp 1 F	x	R 1 M		DN 25	05 300 38

Screw-in connector with thermal cut-out device PS 5 bar

For thermal protection of valves in buildings

Comprising: screw-in connector with integrated thermal cut-out device

Advantages and equipment

- For direct connection of fittings to the pipeline
- Thermally triggering cut-out element, for protecting the consumer device from impermissibly high temperatures; automatically closes the flow at temperatures over 100 °C

Approval

- DVGW-tested
- EC type test according to Pressure Equipment Directive (thermal cut-out device)

Note

Detailed description of the safety equipment and the safety level, see page 65 onwards!

Screw-in connector with thermal cut-out device

			Part no.
Compr. fit. 12	x	G 3/8 M	07 039 40
Compr. fit. 15	x	G 1/2 M	07 040 40

Note on quick-acting stop valves

The following type V and V MS quick-acting stop valves can alternatively also be supplied with FKM seals or with a seal for use with oxygen. Please specify when ordering.

CE

Version V

Version K

Quick-acting stop valve		Part no.
Quick-acting stop fitting, only completely open or closed position, no regulating		
Approval		
• EC type test according to Pressure Equipment Directive (PED)		
• Version V, PS 40 bar		
• Version K, PS 16 bar		
Quick-acting stop valve		
Both sides compression fitting		
Type V, brass chrome plated		
Compr. fit. 6 x compr. fit. 6		03 201 00
Compr. fit. 8 x compr. fit. 8		03 202 00
Compr. fit. 10 x compr. fit. 10		03 204 00
Compr. fit. 12 x compr. fit. 12		03 207 00
Compr. fit. 15 x compr. fit. 15		03 208 00
Compr. fit. 12 x compr. fit. 8		03 209 00
Type K, brass chrome plated		
Compr. fit. 8 x compr. fit. 8		03 401 00
Compr. fit. 10 x compr. fit. 10		03 402 00
Compr. fit. 12 x compr. fit. 12		03 405 00
Compr. fit. 15 x compr. fit. 15		03 407 00
Type V MS, brass, bright		
Compr. fit. 6 x compr. fit. 6		03 308 00
Compr. fit. 8 x compr. fit. 8		03 309 00
Compr. fit. 10 x compr. fit. 10		03 310 00
Compr. fit. 12 x compr. fit. 12		03 311 00
Compr. fit. 15 x compr. fit. 15		03 312 00
Type K MS, brass, bright		
Compr. fit. 8 x compr. fit. 8	with mounting bracket	03 403 00
Compr. fit. 10 x compr. fit. 8		03 403 10
Compr. fit. 10 x compr. fit. 10		03 404 00
Compr. fit. 12 x compr. fit. 12		03 406 00
Compr. fit. 15 x compr. fit. 15		03 408 00

Quick-acting stop valve	Part no.
Quick-acting stop fitting, only completely open or closed position, no regulating	
Approval • EC type test according to Pressure Equipment Directive (PED) • PS 5 bar	
Quick-acting stop valve Both sides female thread Type V, brass chrome plated	
Rp 1/4 F x Rp 1/4 F	03 268 00
Rp 3/8 F x Rp 3/8 F	03 211 00
Type V MS, brass, bright	
Rp 1/4 F x Rp 1/4 F	03 313 00
Rp 3/8 F x Rp 3/8 F	03 314 00
Both sides male thread Type V, brass chrome plated	
R 1/4 M x R 1/4 M	03 269 00
R 1/2 M x R 1/2 M	03 270 00
1/4 NPT M x compr. fit. 6	03 267 00
Type V MS, brass, bright	
R 1/4 M x R 1/4 M	03 272 00
R 1/2 M x R 1/2 M	03 316 00
1/4 NPT M x compr. fit. 6	03 267 01

CE

Quick-acting stop valve	Part no.
Quick-acting stop fitting, only completely open or closed position, no regulating	
Approval • EC type test according to Pressure Equipment Directive (PED) • Version V, PS 40 bar • Version K, PS 16 bar	
Quick-acting stop valve One side pipe socket, other side compression fitting Type VZ 8 - 8, brass chrome plated	
Pipe socket 8 x compr. fit. 8	03 199 00
Type VZ 8 - 8, brass, bright	
Pipe socket 8 x compr. fit. 8	03 200 00
Type K 8 - Z 8, brass chrome plated	
Pipe socket 8 x compr. fit. 8	03 411 00
Type K 8 - Z 8, brass, bright	
Pipe socket 8 x compr. fit. 8	03 410 00

Version V

Version K

Quick-acting angle stop valve type VE

	Part no.
Quick-acting stop fitting, only completely open or closed position, no regulating	
Approval	
• EC type test according to Pressure Equipment Directive (PED)	
• Version VE with male thread, PS 5 bar	
• Version VE with compression fitting, PS 40 bar	
	
Quick-acting angle stop valve type VE	
Both sides compression fitting	
Brass chrome plated	
Compr. fit. 8 x compr. fit. 8	03 218 00
Compr. fit. 12 x compr. fit. 12	03 221 00
One side male thread, other side compression fitting	
Brass chrome plated	
R 3/8 M x compr. fit. 12	03 223 00
R 1/2 M x compr. fit. 12	03 224 00

Quick-acting branch stop valve type AV 8

	Part no.
Quick-acting stop fitting, only completely open or closed position, no regulating	
Approval	
• EC type test according to Pressure Equipment Directive (PED)	
• PS 40 bar	
	
Quick-acting branch stop valve type AV 8	
Both sides compression fitting	
Brass chrome plated	
Compr. fit. 8 x compr. fit. 8 x compr. fit. 8	03 022 00
Chrome, bright	
Compr. fit. 8 x compr. fit. 8 x compr. fit. 8	03 307 00

Fastening clamp

	Part no.
For mounting a quick-acting stop valve or a regulating valve	
Technical data	
Material: chrome plated	
	
Clamp foot	
17 mm, for valves 6, 8 and 10 mm	03 230 00
19 mm, for valves 12 mm	03 231 00

Shut-off valve type RV PS 16 bar

	Part no.
For closing the flow	
Approval	
• DIN-DVGW-tested	
• EC type test according to Gas Appliance Directive	
Technical data	
• Material: chrome, bright	
Shut-off valve	
Both sides compression fitting	
Compr. fit. 6 x compr. fit. 6	02 230 00
Compr. fit. 8 x compr. fit. 8	02 231 00
Compr. fit. 10 x compr. fit. 10	02 232 00
Compr. fit. 12 x compr. fit. 12	02 233 00
Compr. fit. 15 x compr. fit. 15	02 234 00
Compr. fit. 18 x compr. fit. 18	02 235 00
Both sides female thread	
Rp 1/4 F x Rp 1/4 F	02 315 00
Rp 3/8 F x Rp 3/8 F	02 236 00
Rp 1/2 F x Rp 1/2 F	02 237 00

Regulating valve PS 16 bar

	Part no.
For fine regulation of the flow	
Technical data	
• Material: chrome, bright	
Regulating valve	
Both sides compression fitting	
Compr. fit. 8 x compr. fit. 8	02 324 00
Compr. fit. 10 x compr. fit. 10	02 325 00

Branch valve PS 4 bar

	Part no.
For connecting two consumer devices with shut-off device	
Technical data	
• Inlet: G 3/8 lh nut	
• Outlet: 2 x G 3/8 lh M	
Branch valve	
G 3/8 lh nut x 2 x G 3/8 lh M	09 750 00

Quick coupler type 02 449 PS 5 bar	Part no.	
For quick connection of pipelines to hose assemblies		
Comprising: quick coupler and protective cap		
Advantages and equipment		
• The gas flow is closed when decoupling		
• The quick coupler is not used as a shut-off device, but always in combination with a shut-off valve		
• For connecting to the hose assembly use only the standardised plug-in fitting; hose assemblies see page 54		
• By using a special appliance, the quick coupler is protected against manipulation - unlocking is only possible using the plug-in fitting		
Approval		
• DIN-DVGW-tested		
Technical data		
• Material: brass		
Quick coupler type 02 449		
Compr. fit. 8 x quick coupler	02 449 00	
Compr. fit. 8 x quick coupler and plug-in fitting with 8 mm pipe socket	02 449 01	
M 14 x 1.5 F x quick coupler	02 449 04	
Pipe socket 8 x quick coupler with blind socket and chain	02 449 06	
With Viton seal		
Compr. fit. 8 x quick coupler	02 449 02	
M 14 x 1.5 F x quick coupler	02 449 09	
Accessories		
Plug-in fitting x nozzle 6 mm	02 450 25	
Plug-in fitting x pipe socket 8 mm	02 452 25	
Protection cap	02 451 24	

Medium pressure hose assembly PS 6 bar

For connecting fittings, consumer devices and pipelines

Approval
- DIN-DVGW-tested

Technical data
- Hose assembly: rubber with textile lining
- Cold resistant up to -30 °C

- 30 °C

Hose dimensions 6.3 x 3.5 mm
Connectors: coupling nut x compression fitting

	Part no.
G 1/4 lh nut x compr. fit. 8 x 300 mm	04 401 00
G 1/4 lh nut x compr. fit. 8 x 400 mm	04 402 00
G 1/4 lh nut x compr. fit. 8 x 450 mm	04 401 02
G 1/4 lh nut x compr. fit. 8 x 500 mm	04 403 00
G 1/4 lh nut x compr. fit. 8 x 600 mm	04 404 00
G 1/4 lh nut x compr. fit. 8 x 800 mm	04 405 00
G 1/4 lh nut x compr. fit. 8 x 1000 mm	04 406 00
G 1/4 lh nut x compr. fit. 8 x 1500 mm	04 408 00
G 1/4 lh nut x compr. fit. 8 x 2000 mm	04 422 00
G 1/4 lh nut x compr. fit. 8 x 2500 mm	04 410 00
G 1/4 lh nut x compr. fit. 8 x 3000 mm	04 423 00
G 1/4 lh nut x compr. fit. 8 x 5000 mm	04 413 00
G 1/4 lh nut x compr. fit. 10 x 300 mm	04 409 00
G 1/4 lh nut x compr. fit. 10 x 400 mm	04 409 03
G 1/4 lh nut x compr. fit. 10 x 800 mm	04 409 06
G 1/4 lh nut x compr. fit. 10 x 1000 mm	04 409 02
G 1/4 lh nut x compr. fit. 10 x 1500 mm	04 409 11
G 1/4 lh nut x compr. fit. 10 x 2000 mm	04 409 04
G 1/4 lh nut x compr. fit. 10 x 3000 mm	04 409 01
G 3/8 lh nut x compr. fit. 8 x 300 mm	04 424 00
G 3/8 lh nut x compr. fit. 8 x 400 mm	04 424 01

- 30 °C

Connectors: coupling nut x pipe socket

G 1/4 lh nut x pipe socket 8 x 300 mm	04 436 01
G 1/4 lh nut x pipe socket 8 x 400 mm	04 436 02
G 1/4 lh nut x pipe socket 8 x 800 mm	04 436 09
G 1/4 lh nut x pipe socket 8 x 1000 mm	04 436 00
G 1/4 lh nut x pipe socket 8 x 1500 mm	04 436 06
G 1/4 lh nut x pipe socket 8 x 2000 mm	04 436 10

- 30 °C

Connectors: coupling nut x coupling nut

G 1/4 lh nut x G 1/4 lh nut x 400 mm	04 454 02
G 1/4 lh nut x G 1/4 lh nut x 800 mm	04 407 00
G 1/4 lh nut x G 1/4 lh nut x 1000 mm	04 454 00
G 1/4 lh nut x G 1/4 lh nut x 1500 mm	04 455 00
G 1/4 lh nut x G 1/4 lh nut x 2000 mm	04 456 00
G 1/4 lh nut x G 1/4 lh nut x 3000 mm	04 457 00
G 1/4 lh nut x G 1/4 lh nut x 5000 mm	04 457 01

Medium pressure hose assembly PS 6 bar	Part no.
- 30 °C	
	
Connectors: coupling nut x plug-in fitting	
G 1/4 lh nut x plug-in fitting x 300 mm	04 220 00
G 1/4 lh nut x plug-in fitting x 400 mm	04 221 00
G 1/4 lh nut x plug-in fitting x 800 mm	04 222 00
G 1/4 lh nut x plug-in fitting x 1000 mm	04 223 00
G 1/4 lh nut x plug-in fitting x 1500 mm	04 224 00
G 1/4 lh nut x plug-in fitting x 2000 mm	04 225 00
G 1/4 lh nut x plug-in fitting x 2500 mm	04 226 00
G 1/4 lh nut x plug-in fitting x 3000 mm	04 227 00
G 1/4 lh nut x plug-in fitting x 5000 mm	04 227 05
- 30 °C	
	
Connectors: compression fitting x compression fitting	
Compr. fit. 8 x compr. fit. 8 x 300 mm	04 414 00
Compr. fit. 8 x compr. fit. 8 x 400 mm	04 415 00
Compr. fit. 8 x compr. fit. 8 x 500 mm	04 416 00
Compr. fit. 8 x compr. fit. 8 x 600 mm	04 417 00
Compr. fit. 8 x compr. fit. 8 x 800 mm	04 418 00
Compr. fit. 8 x compr. fit. 8 x 1000 mm	04 419 00
Compr. fit. 8 x compr. fit. 8 x 1500 mm	04 420 00
Compr. fit. 8 x compr. fit. 8 x 2000 mm	04 421 00
- 30 °C	
	
Connectors: compression fitting x pipe socket	
Compr. fit. 8 x pipe socket 8 x 400 mm	04 433 02
Compr. fit. 8 x pipe socket 8 x 800 mm	04 434 00
Compr. fit. 8 x pipe socket 8 x 1000 mm	04 434 01
Compr. fit. 8 x pipe socket 8 x 1500 mm	04 434 02
Compr. fit. 8 x pipe socket 8 x 2000 mm	04 434 03
Connectors: coupling nut x coupling nut	
- 30 °C	
	
G 3/8 lh nut x G 3/8 lh nut x 1500 mm	04 502 00
G 3/8 lh nut x G 3/8 lh nut x 2000 mm	04 503 00
G 3/8 lh nut x G 3/8 lh nut x 3000 mm	04 504 00
G 3/8 lh nut x G 3/8 lh nut x 5000 mm	04 506 00
G 3/8 lh nut x G 3/8 lh nut x 10000 mm	04 511 00
Certified for Russia	
G 3/8 lh nut x G 3/8 lh nut x 3000 mm	04 504 45
G 3/8 lh nut x G 3/8 lh nut x 5000 mm	04 506 45
- 30 °C	
	
Hose dimensions 9 x 3.5 mm	
Connectors: coupling nut x compression fitting	
G 1/4 lh nut x compr. fit. 12 x 300 mm	04 437 00
G 3/8 lh nut x compr. fit. 12 x 300 mm	04 438 00
G 3/8 lh nut x compr. fit. 15 x 300 mm	04 450 00
G 1/2 lh nut x compr. fit. 8 x 300 mm	04 429 00
G 1/2 lh nut x compr. fit. 12 x 300 mm	04 444 00
G 1/2 lh nut x compr. fit. 12 x 400 mm	04 444 01
G 1/2 lh nut x compr. fit. 15 x 300 mm	04 453 00
	
Hose dimensions 10 x 5 mm	
Connectors: coupling nut x coupling nut	
G 3/8 lh nut x G 3/8 lh nut x 2000 mm	04 523 00
G 3/8 lh nut x G 3/8 lh nut x 3000 mm	04 524 00
G 3/8 lh nut x G 3/8 lh nut x 5000 mm	04 526 00
G 3/8 lh nut x G 3/8 lh nut x 8000 mm	04 529 00
G 3/8 lh nut x G 3/8 lh nut x 10000 mm	04 531 00

Medium pressure hose assembly PS 6 bar	Part no.	
For connecting fittings, consumer devices and pipelines		
Approval		
• DIN-DVGW-tested		
Technical data		
• Hose assembly: plastic with textile lininig		
Hose dimensions 6.3 x 3.5 mm		
Connectors: coupling nut x compression fitting		
G 1/4 lh nut x compr. fit. 8 x 300 mm	04 401 30	
G 1/4 lh nut x compr. fit. 8 x 400 mm	04 402 30	
G 1/4 lh nut x compr. fit. 8 x 450 mm	04 401 27	
G 1/4 lh nut x compr. fit. 8 x 500 mm	04 403 30	
G 1/4 lh nut x compr. fit. 8 x 600 mm	04 404 30	
G 1/4 lh nut x compr. fit. 8 x 800 mm	04 405 30	
G 1/4 lh nut x compr. fit. 8 x 1000 mm	04 406 30	
G 1/4 lh nut x compr. fit. 8 x 1500 mm	04 408 30	
G 1/4 lh nut x compr. fit. 8 x 2000 mm	04 422 30	
G 1/4 lh nut x compr. fit. 8 x 2500 mm	04 410 30	
G 1/4 lh nut x compr. fit. 8 x 3000 mm	04 423 30	
G 1/4 lh nut x compr. fit. 8 x 5000 mm	04 413 30	
G 1/4 lh nut x compr. fit. 10 x 300 mm	04 409 32	
G 1/4 lh nut x compr. fit. 10 x 400 mm	04 409 31	
G 1/4 lh nut x compr. fit. 10 x 800 mm	04 409 33	
G 1/4 lh nut x compr. fit. 10 x 1000 mm	04 409 35	
G 1/4 lh nut x compr. fit. 10 x 1500 mm	04 409 36	
G 1/4 lh nut x compr. fit. 10 x 3000 mm	04 409 37	
Connectors: coupling nut x coupling nut		
G 1/4 lh nut x G 1/4 lh nut x 400 mm	04 454 34	
G 1/4 lh nut x G 1/4 lh nut x 800 mm	04 407 30	
G 1/4 lh nut x G 1/4 lh nut x 1000 mm	04 454 30	
G 1/4 lh nut x G 1/4 lh nut x 1500 mm	04 455 30	
G 1/4 lh nut x G 1/4 lh nut x 2000 mm	04 456 30	
G 1/4 lh nut x G 1/4 lh nut x 3000 mm	04 457 30	
G 1/4 lh nut x G 1/4 lh nut x 5000 mm	04 458 30	
Connectors: compression fitting x compression fitting		
Compr. fit. 8 x compr. fit. 8 x 300 mm	04 414 30	
Compr. fit. 8 x compr. fit. 8 x 400 mm	04 415 30	
Compr. fit. 8 x compr. fit. 8 x 500 mm	04 416 30	
Compr. fit. 8 x compr. fit. 8 x 600 mm	04 417 30	
Compr. fit. 8 x compr. fit. 8 x 800 mm	04 418 30	
Compr. fit. 8 x compr. fit. 8 x 1000 mm	04 419 30	
Compr. fit. 8 x compr. fit. 8 x 1500 mm	04 420 30	
Compr. fit. 8 x compr. fit. 8 x 2000 mm	04 421 30	

High pressure hose assembly PS 30 bar

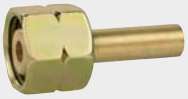
	Part no.
For connecting fittings, consumer devices and pipelines	
Approval	
• DIN-DVGW-tested	
Technical data	
• Hose assembly: rubber with textile lining	
• Cold resistant up to -30 °C	
- 30 °C	
Hose dimensions 6.3 x 5 mm	
Connectors: coupling nut x coupling nut	
G 3/8 lh nut x G 3/8 lh nut x 1500 mm	04 543 02
G 3/8 lh nut x G 3/8 lh nut x 2000 mm	04 543 00
G 3/8 lh nut x G 3/8 lh nut x 3000 mm	04 544 00
G 3/8 lh nut x G 3/8 lh nut x 5000 mm	04 546 00
G 3/8 lh nut x G 3/8 lh nut x 8000 mm	04 549 00
G 3/8 lh nut x G 3/8 lh nut x 10000 mm	04 551 00
G 3/8 lh nut x G 3/8 lh nut x 20000 mm	04 551 02

Hose, loose

	Part no.
For self assembly	
Advantages and equipment	
• Optionally cold resistant up to -30 °C	
Approval	
• DIN-DVGW-tested	
Technical data	
• Hose: rubber or plastic with textile lining	
Note	
Packing unit: 40 metres	
Hose, medium pressure	
Hose dimensions 6.3 x 3.5 mm	
Material, plastic PS 6 bar	04 040 00
Material, rubber PS 6 bar cold resistant up to -30 °C	04 034 00
Hose dimensions 9 x 3.5 mm	
Material, rubber PS 6 bar cold resistant up to -30 °C	04 035 00
Hose dimensions 10 x 5 mm for special mechanical loads	
Material, rubber PS 6 bar	04 044 00
Hose, high pressure	
Hose dimensions 6.3 x 5 mm	
Material, rubber PS 30 bar cold resistant up to -30 °C	04 037 00

Hose couppling

	Part no.
For connecting or extending hose assemblies	
Technical data	
• Material: brass	
Hose couppling	
Both sides ball-cone connector	
G 1/4 lh M x G 1/4 lh M	14 013 00
G 3/8 lh M x G 3/8 lh M	14 018 00



Adapter

	Part no.
For connecting regulators or hose assemblies to pipelines	
Adapter	
One side coupling nut, other side pipe socket	
G 3/8 lh nut x pipe socket 8	02 519 00
G 3/8 lh nut x pipe socket 12	02 501 00
G 1/2 lh nut x pipe socket 12	02 506 00
G 1/2 lh nut x pipe socket 15	02 505 00
GF x pipe socket 12	02 508 00
GF x pipe socket 15	02 508 01
One side male thread, other side pipe socket	
G 1/4 lh M x pipe socket 8	14 040 00
G 3/8 lh M x pipe socket 8	02 518 00
G 3/8 lh M x pipe socket 12	02 517 00
GF M x pipe socket 10	02 511 00
GF M x pipe socket 12	02 507 00

Hose connector

	Part no.
For mounting in hose assemblies	
Technical data	
• Material: brass	
Hose connector	
One side pipe socket, other side hose nozzle	
Pipe socket 8 x 4 mm nozzle	14 474 00
Pipe socket 8 x 6 mm nozzle	14 475 00
Pipe socket 8 x 8 mm nozzle	14 476 00
Pipe socket 8 x 9 mm nozzle	14 477 00
Pipe socket 12 x 9 mm nozzle	14 478 00
One side compression fitting, other side hose nozzle	
Compr. fit. 8 x 4 mm nozzle	14 409 00
Compr. fit. 8 x 6 mm nozzle	14 468 00
Compr. fit. 8 x 9 mm nozzle	14 469 00
Compr. fit. 10 x 6 mm nozzle	14 467 00
Compr. fit. 12 x 9 mm nozzle	14 470 00

Adapter	Part no.
For connecting regulators with the pipeline	
Adapter	
G 1/2 lh nut x G 1/2 F	02 509 00

Hose nozzle	Part no.
For connecting loose hoses	
Double hose nozzle	
4 mm	14 014 00
6 mm	14 015 00
Three-way hose nozzle	
9 mm	14 016 00

Hose nozzle with coupling nut	Part no.
For mounting hose assembling	
Approval	
• Ball-cone connector according to EN 560	
Technical data	
• Material: Coupling nut: steel bichromated Hose nozzle: brass	
Hose nozzle with coupling nut	
G 1/4 lh nut x 4 mm nozzle	14 009 00
G 1/4 lh nut x 6 mm nozzle	14 010 00
G 1/4 lh nut x 9 mm nozzle	14 011 00
G 3/8 lh nut x 4 mm nozzle	14 006 00
G 3/8 lh nut x 6 mm nozzle	14 007 00
G 3/8 lh nut x 9 mm nozzle	14 008 00
G 1/2 lh nut x 9 mm nozzle	14 004 00

Replacement part	
Coupling nut	
G 1/4 LH (for nozzle G 1/4 x 4 or 6 mm)	04 002 00
G 1/4 LH (for nozzle G 1/4 x 9 mm)	04 002 06
G 3/8 LH	04 003 00
G 1/2 LH	04 004 00

Ball-cone connector for:	
G 1/4 nut x 4 mm nozzle	04 009 20
G 1/4 nut x 6 mm nozzle	04 010 20
G 1/4 nut x 9 mm nozzle	04 011 20
G 3/8 nut x 4 mm nozzle	04 006 20
G 3/8 nut x 6 mm nozzle	04 007 20
G 3/8 nut x 9 mm nozzle	04 008 20
G 1/2 nut x 9 mm nozzle	04 444 43

Cylinder connector	Part no.	
For mounting in hose assemblies		
Technical data		
• Material: brass		
Cylinder connector		
With point of seperation		
GF x 4 mm nozzle	14 485 00	
GF x 6 mm nozzle	14 486 00	
KLF x 4 mm nozzle	14 483 00	
KLF x 6 mm nozzle	14 484 00	
Komb.A x 4 mm nozzle	14 496 00	
Komb.A x 6 mm nozzle	14 497 00	
Direct mounted		
GF x 4 mm nozzle	14 481 00	
GF x 6 mm nozzle	14 482 00	
KLF x 4 mm nozzle	14 479 00	
KLF x 6 mm nozzle	14 480 00	
Komb.A x 4 mm nozzle	14 487 00	
Komb.A x 6 mm nozzle	14 488 00	
Komb.A x G 3/8 lh M	14 489 00	
Coupling nut for:		
Large cylinder or Kombi connector	04 020 00	
Small cylinder connector	04 027 00	

Worm-drive hose clip, hose clamp	Part no.	
For assembling hoses		
Worm-drive hose clip		
For hose with outer diameter 12 to 20 mm	14 110 00	
For hose with outer diameter 16 to 25 mm	14 111 00	
Hose clamp		
11-13 mm	14 520 00	
13-15 mm	14 521 00	
15-17 mm	14 522 00	
15-18 mm	14 523 00	
17-20 mm	14 524 00	

Leak detector spray	Part no.	
Facilitates safe and reliable leak detection in line systems		
Approval		
• DIN-DVGW-tested		
Note		
Due to the hazardous goods regulation only the following delivery quantities are possible per package when dispatching packages: Leak detection spray 400 ml, part no. 02 601 00 / 24 each Leak detection spray 125 ml, part no. 02 601 01 / 80 each For larger quantities despatched by mail, the shipping costs increase in accordance with the number of packages.		
Leak detector spray		
Spray can 400 ml	02 601 00	
Spray can 125 ml	02 601 01	

Sealing material	Part no.	
For sealing metallic threaded connectors		
Approval		
• DIN-DVGW-tested, for threads according to ISO 7-1		
Sealing material		
Bottle 50 ml, hardening	02 607 00	
Teflon strip 0.1 mm, Roll = 12 m (no picture)	02 608 00	

Gas socket PS 0.1 bar

Part no.

For connecting consumer devices to the gas supply

Comprising: gas socket with thermal cut-out device

Advantages and equipment

- The gas socket facilitates simple connection of the consumer device to the gas supply
- Thermally triggering cut-out element, for protecting the consumer device from impermissibly high temperatures; automatically closes the flow at temperatures over 100 °C
- Visual indicator to check the operating condition:
  Red = gas flow closed, hose connection can be released
  Green = gas flow open, hose connection cannot be released
- Suitable for LPG and natural gas
- Solely for surface mounting

Approval

- DVGW-tested

Note

Detailed description of the safety equipment and the safety level,
see page 65 onwards!

Gas socket	
R 1/2 M x quick coupler	29 100 00

All-gas hose assembly, stainless steel PS 0.1 bar

Part no.

For connection to the gas socket

Comprising: plastic rotary handle with safety device, hose assembly and coupling nut for connection to appliance

Advantages and equipment

- Plastic rotary handle with safety device for controlled closing or opening of the connection - prevents accidental opening of the socket
- Suitable for LPG and natural gas

Approval

- DVGW-tested (for a maximum of 1500 mm)

All-gas hose assembly, stainless steel	
Quick coupler x Rp 1/2 F	
500 mm	29 105 00
800 mm	29 108 00
1000 mm	29 110 00
1250 mm	29 112 00
1500 mm	29 115 00
2000 mm	29 120 00
Accessories	
Elbow connector cleat with wall flange, surface mounting Rp 1/2 F x compr. fit. 8	29 100 10

Test equipment

Leak and function tester type DFP25

Part no.	

For pressure, leakage and functional testing LPG plants

Comprising: one test device each, complete with manometer class 1.0 for medium and low pressure, two hose assemblies, plastic, for connecting test equipment to the test point of the pressure regulator or pipeline, one adapter for cylinder connector Komb.A for connection to small cylinders up to 14 kg and to large cylinders with 33 kg net weight, one adapter each for compressed air supply or manual/foot pump with quick coupler when testing with air, three straight reducer sockets as adapters from hose assembly/ compression fitting to the outlet of the regulator and three straight reducer sockets as adapters from hose assembly/compressing fitting to the pipeline

Advantages and equipment

- Test possible with air or LPG
- For testing with LPG, direct connection to the test point of the overfill protection, pumping up with air and the subsequent deaerating are omitted
- Monitoring the flow and closing pressure of pressure (medium/low pressure) regulators
- Function test of safety overpressure shut-off valve OPSO and safety pressure relief valve PRV
- Pressure test on pipeline according to TRF 1996 Section 9.4.2
- Leak test on pipeline according to TRF 1996 Section 9.6.1

Technical data

- Test ranges: low pressure: 0 to 250 mbar
  medium pressure: 0 to 6.0 bar

Leak and function tester Type DFP25	02 617 05

Leak tester

Part no.	

For pressure and leakage testing LPG plants

Comprising: test head with low pressure manometer 0 to 250 mbar quality class 1, test head with medium pressure manometer 0 to 5.0 bar quality class 1, pump, overpressure safety device, connector G 1/4 lh M, one connector each G 1/4 lh F x G 3/8 lh M and G 1/4 lh F x G 1/2 lh M and optionally with leak detector spray or connection hose assembly G 1/4 lh nut x compr. fit. 8 x 400 mm

Advantages and equipment

- Rapid test head replacement
- Prevents manometer damage through overpressure safety device

Technical data

- Test ranges: low pressure: 0 to 250 mbar
  medium pressure: 0 to 5.0 bar

Leak tester With hand pump and case	02 617 00
As 02 617 00, but also with leak detector spray and connection hose assembly	02 617 01

Test equipment

Leak and function tester

Part no.

For pressure, leakage and functional testing LPG plants

Comprising: low pressure manometer 0 to 250 mbar quality class 1, medium pressure manometer to 6.0 bar quality class 1, foot pump with manometer and quick coupler, one adapter each quick coupler x pipe socket 12 and compr. fit. 12 x G 1/4 lh M, pump hose both sides plug-in fitting x 1500 mm, connection hose for LPG plants 2000 mm, one connector each compr. fit. 12 x compr. fit. 12, compr. fit. 12 x compr. fit. 15, compr. fit. 12 x compr. fit. 18, compr. fit. 12 x compr. fit. 22, leak detector spray and transportation case

Advantages and equipment

- Test possible with air or LPG
- For testing with LPG, direct connection to the test point of the overfill protection, pumping up with air and the subsequent deaerating are omitted
- Monitoring the flow and closing pressure of pressure regulators, medium and low pressure
- Function test of safety overpressure shut-off valve OPSO and safety pressure relief valve
- Pressure test on pipeline according to TRF 1996 Section 9.4.2
- Leak test on pipeline according to TRF 1996 Section 9.6.1

Technical data

- Test ranges: low pressure: 0 to 250 mbar
  medium pressure: 0 to 6.0 bar

Leak and function tester

With foot pump and sheet steel case	02 616 01

Leak tester

Part no.

For pressure and leakage testing LPG plants

Comprising: test head with test manometer fine measurement range 0 to 300 mbar, rough measurement range 0.5 to 2.0 bar, hand pump, overpressure safety device, connector G 1/4 lh M, one connector each G 1/4 lh F x G 3/8 lh M and G 1/4 lh F x G 1/2 lh M and optionally with leak detector spray or connection hose assembly G 1/4 lh nut x compr. fit. 8 x 400 mm

Advantages and equipment

- Prevents manometer damage through overpressure safety device

Technical data

- Test ranges: low pressure: 0 to 300 mbar
  medium pressure: 0.5 to 2.0 bar

Leak tester

With hand pump and bag	02 600 00
As 02 600 00, but also with leak detector spray and connection hose assembly	02 605 00

Accessories for leak tester	Part no.	
Low pressure manometer with connector G 1/4 M, axial		
0-250 mbar quality class 1, for leak testers	02 616 26	
Part no.: 02 616 01, 02 617 00, 02 617 01, 02 617 05		
Medium pressure manometer with connector G 1/4 M, axial		
0-6.0 bar quality class 1, for leak testers	02 616 27	
Part no.: 02 616 01, 02 617 00, 02 617 01, 02 617 05		
Combined manometer with connector G 1/4 M, axial		
0-300 mbar or up to 2.0 bar quality class 2.5, for leak testers	02 600 26	
Part no.: 02 600 00, 02 605 00		
Adapter		
Plug-in fitting x pipe socket 8	02 452 25	
Pipe socket 8 x pipe socket 12	02 501 12	
G 3/8 lh nut x pipe socket 8	02 519 00	
Connection hose assembly		
G 1/4 lh nut x compr. fit. 8 x 400 mm	04 402 00	
For connecting the tester to the 8 mm pipeline!		

Test certificate	Part no.	
According to DIN EN 10204		
Test certificate		
Inspection certificate according to DIN EN 10204-3.1	59 900 00	
Certificate of conformity according to DIN EN 10204-2.1	59 921 00	
Test certificate according to DIN EN 10204-2.2	59 922 00	

Description of the safety level

There are innumerable technical rules around the world on safety when erecting an LPG plant. Our "Safety levels" help you get oriented and determine the ideal safety for your LPG plants. Please always comply with the nationally applicable regulations while doing so.

Safety level 1

The pressure regulator does not have a safety device against overpressure. In case of malfunctions in the pressure regulator, the pressure after the regulator can correspond to the inlet pressure. That means the connected consumers such as the heating system or the downstream appliances could be damaged.

Safety level 2

A safety pressure relief valve PRV is integrated in the pressure regulator. The valve triggers if an impermissibly high overpressure arises. The overpressure is blown off outdoors. When the overly high pressure reduces, the PRV automatically recloses.
How the PRV functions is explained on page 67.

Safety level 3

By combining two pressure regulators in one housing, impermissibly high pressure is prevented. This combination is called an overpressure safety device.
How the overpressure safety device functions is explained on page 70.

Safety level 4

In addition to the PRV explained in safety level 2, an additional safety overpressure shut-off valve OPSO is also attached. The OPSO blocks the gas supply when the pressure is too high and has to be manually released after triggering. Both valves trigger in case of overpressure on the pressure regulator outlet.
How the OPSO functions is explained on page 66.

Safety overpressure shut-off valve OPSO

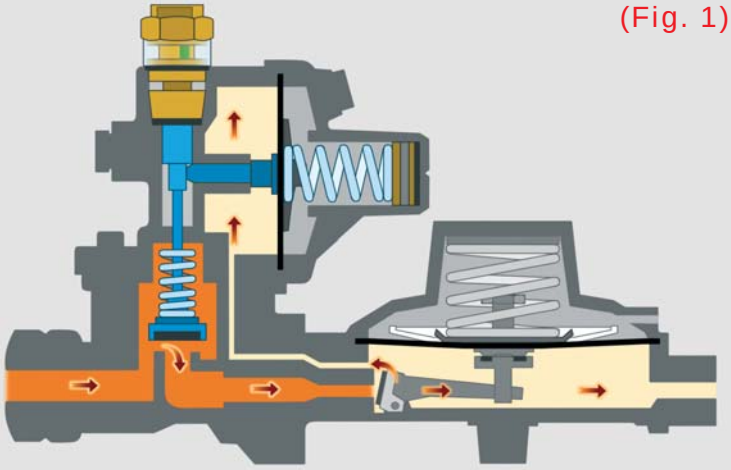
Safety overpressure shut-off valve OPSO

The safety overpressure shut-off valve OPSO is an automatic safety device that protects the connected consumers from impermissibly high pressure.

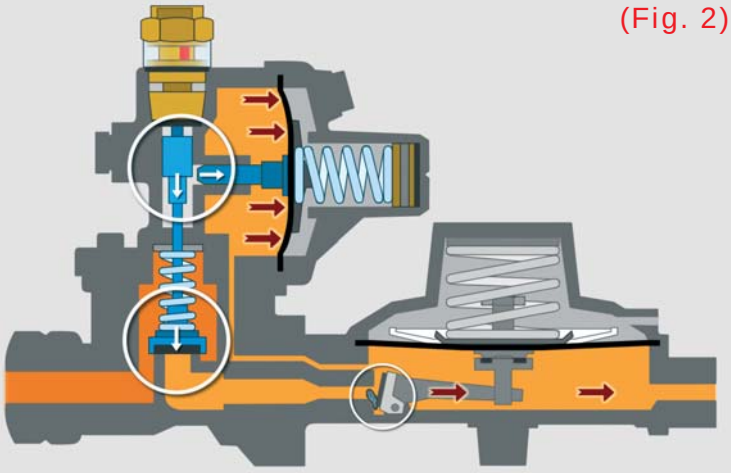
The outlet pressure is permanently monitored (Fig. 1). As soon as the outlet pressure is exceeded, the safety overpressure shut-off valve OPSO triggers and closes the gas supply (Fig. 2).

After triggering, the OPSO has to be manually opened again.

(Fig. 1)



(Fig. 2)



Response pressure of the safety overpressure shut-off valve at:	
Nominal outlet pressure:	Nominal response pressure:
50 mbar	120 mbar
0.7 bar (A3)	2.0 bar
0.7 bar (A4)	1.0 bar
1.5 bar	2.2 bar
2.0 bar	2.7 bar
ajustable up to 2.0 bar	2.7 bar
ajustable up to 4.0 bar	4.7 bar

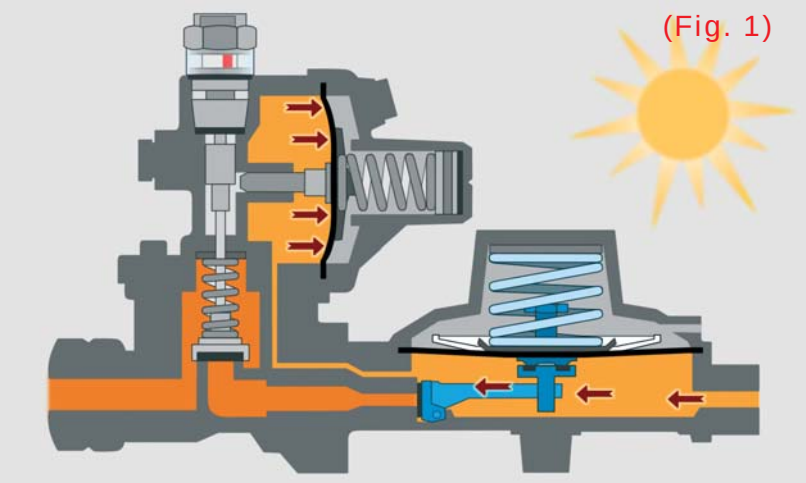
Safety pressure relief valve PRV

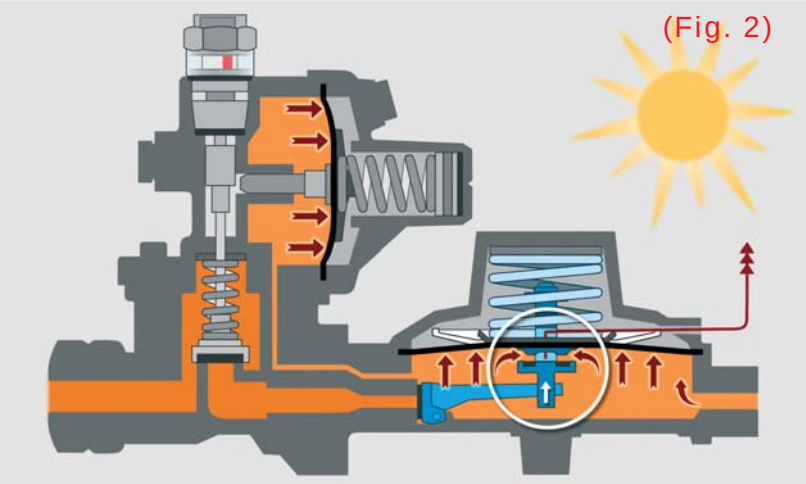
Safety pressure relief valve PRV

The safety pressure relief valve PRV is an automatic safety device integrated in the regulator that protects the connected consumers from impermissibly high pressure.

As soon as an impermissibly high pressure arises at the outlet, e.g., due to sunlight (Fig. 1), the safety pressure relief valve PRV opens and blows off the overpressure outside (Fig. 2).

After reducing the pressure, the safety pressure relief valve PRV automatically closes.


(Fig. 1)


(Fig. 2)

Response pressure of the safety pressure relief valve:	
Nominal outlet pressure:	Nominal response pressure:
50 mbar	150 mbar
0.7 bar (A3)	2.5 bar
0.7 bar (A4)	1.5 bar
1.5 bar	2.5 bar
2.0 bar	3.0 bar
ajustable up to 2.0 bar	3.0 bar
ajustable up to 4.0 bar	5.0 bar

Excess flow device

Excess flow device

The excess flow device prevents gas from escaping uncontrolled if a hose is damaged.

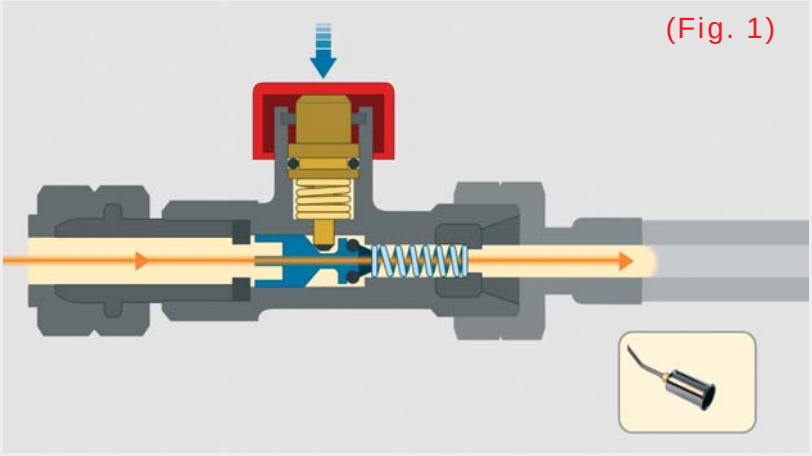
To start up the excess flow device, the control-button needs to be pushed. That opens the closing taper, and the connected hose assembly fills up with gas (Fig. 1).

As soon as pressure compensation is reached, the closing taper remains in the opened position and gas can be consumed (Fig. 2).

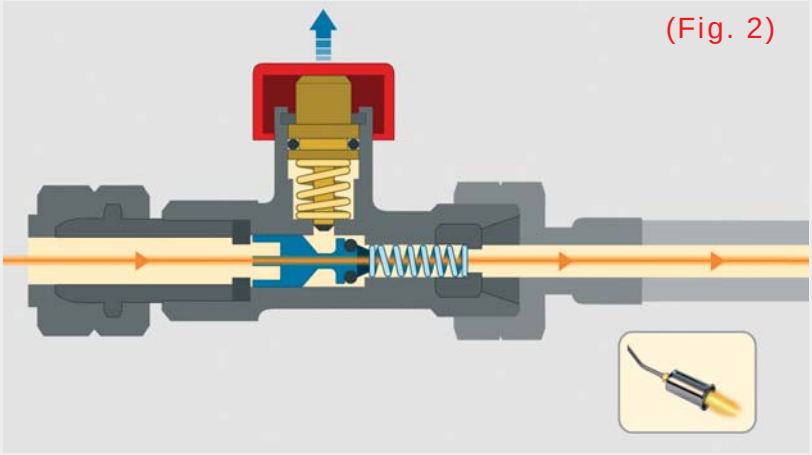
If the hose assembly is damaged, there is a sudden pressure drop that presses the closing taper onto the valve seat. The gas supply is interrupted. Unconsumed gas can no longer escape (Fig. 3).

In the automatic version, the excess flow device is started via a pulse bore. The closing taper opens automatically after pressure compensation.

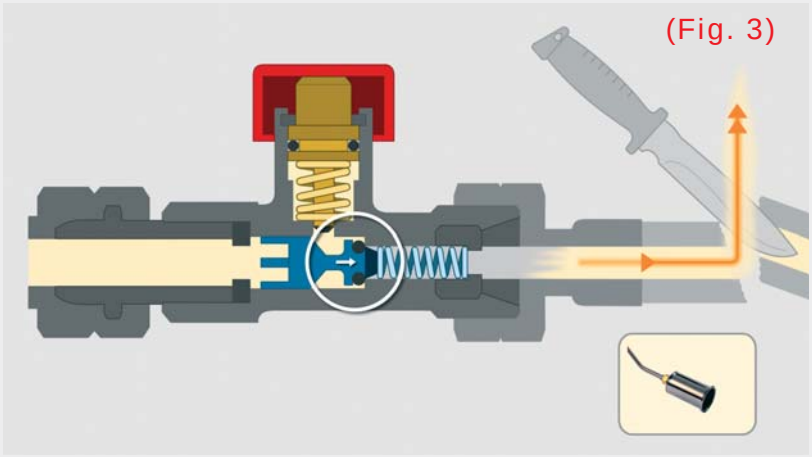
(Fig. 1)



(Fig. 2)



(Fig. 3)



Thermal cut-out device

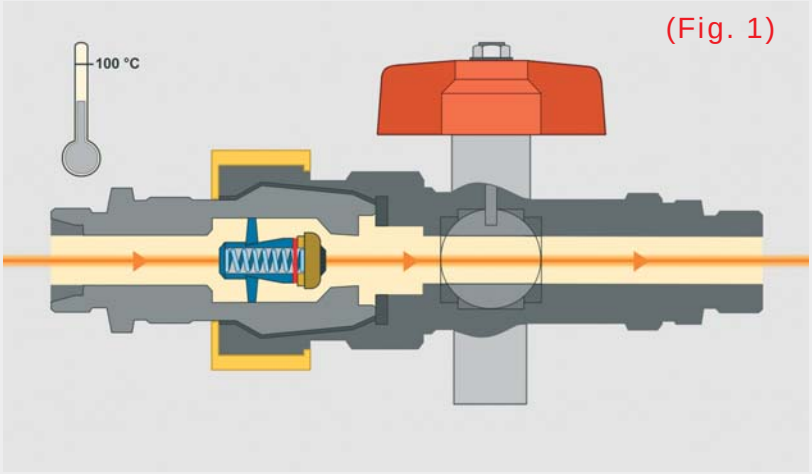
Thermal cut-out device

To prevent gas from escaping from the fittings or consumer devices due to high temperatures (e.g., a fire), thermal cut-out devices are used.

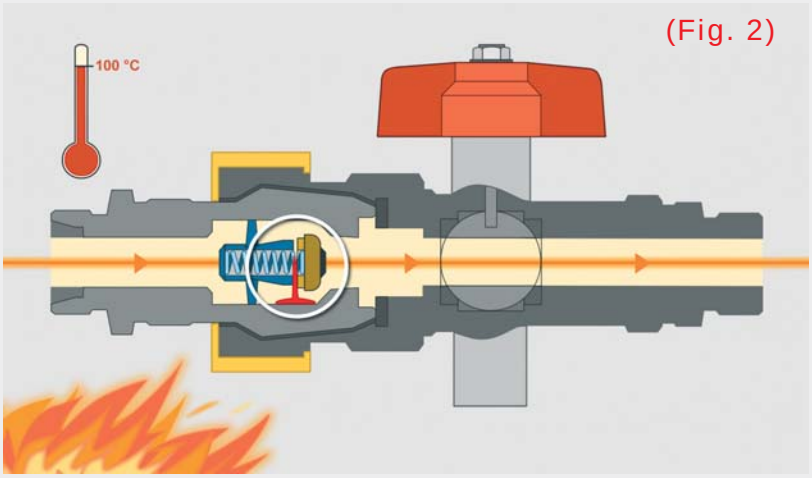
At a temperature of 100 °C, a soldering material starts to melt (Fig. 2). That causes the pre-stressed closing taper to trigger and to be pressed onto the valve seat through a spring. The gas supply is interrupted (Fig. 3).

After triggering, the valve with the thermal cut-out device has to be replaced.

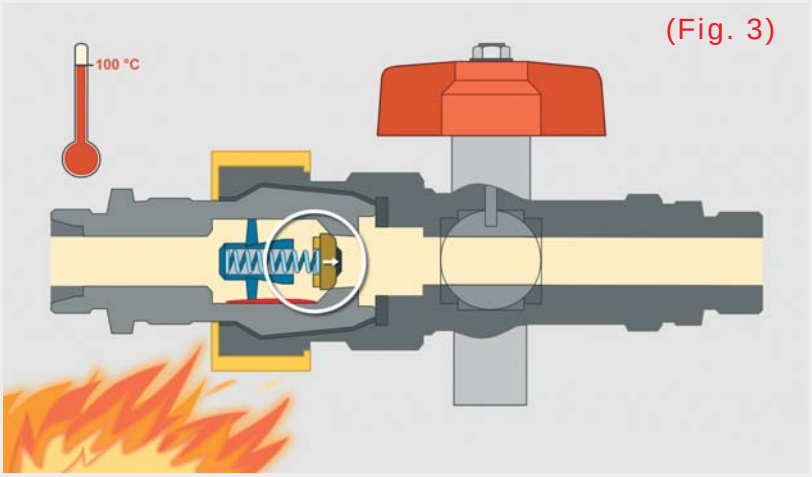
(Fig. 1)



(Fig. 2)



(Fig. 3)



Overpressure safety device

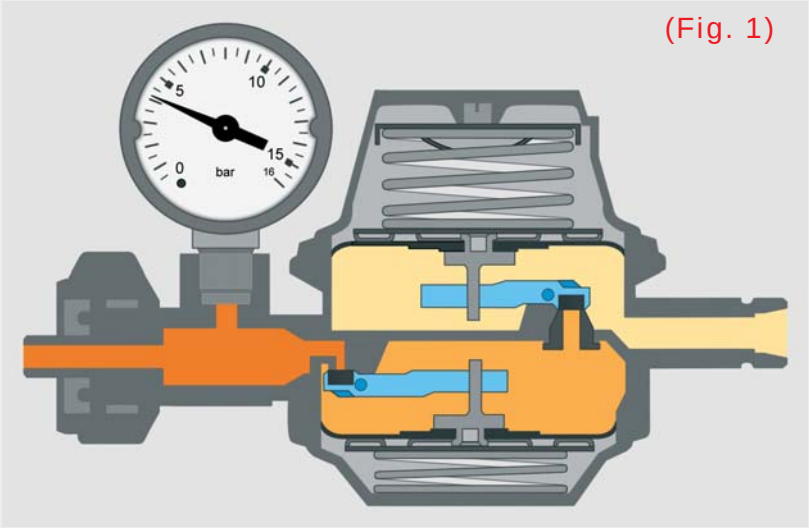
Overpressure safety device

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

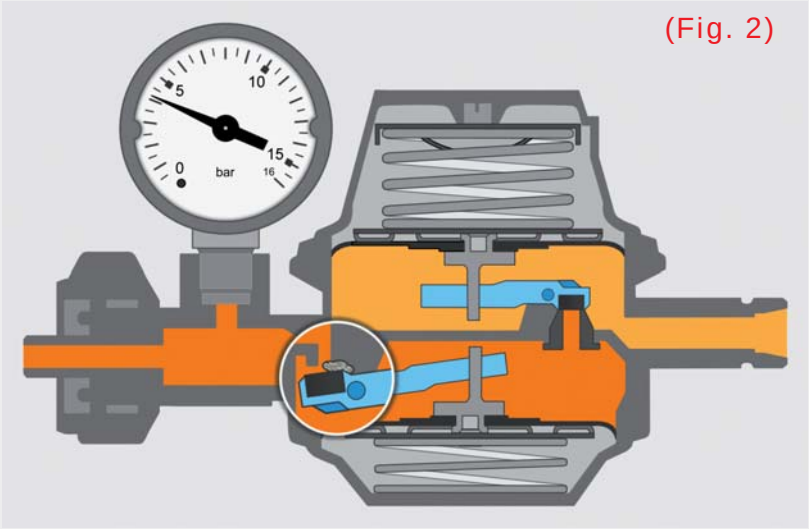
If one of the two regulator stages fails, e.g. due to dirt or other foreign matter on the valve, the other regulator stage reduces the pressure to maximum 100 mbar (Fig. 2 and Fig. 3).

In case of failure of one of the two regulator stages, the regulator with overpressure safety device needs to be replaced.

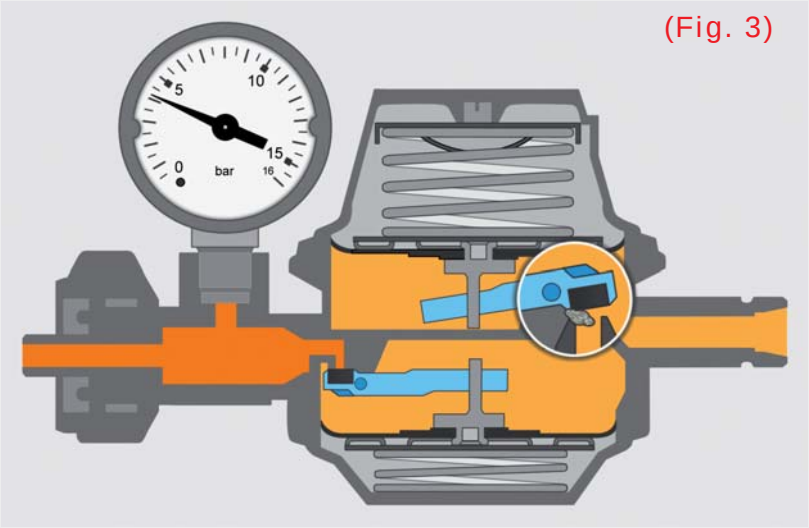
(Fig. 1)



(Fig. 2)



(Fig. 3)

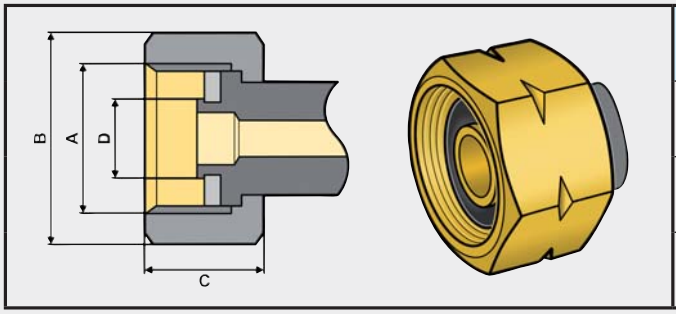


Abbreviations and units

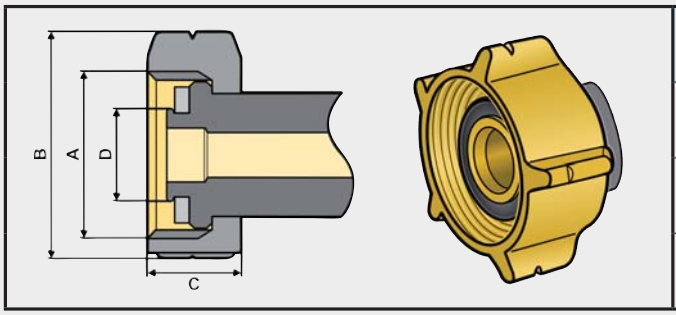
Abbreviations and units in the catalogue

Compr. fit.	=	compression fitting	hz	=	hertz	PED	=	EC Pressure Equipment Directive 97/23/EC
DN	=	nominal diameter in mm	Ital.	=	Italian connector	POL	=	POL connector of pressure regulators according to CGAV-1
DVGW	=	German Technical and Scientific Association for Gas and Water	KLF	=	small German cylinder connector, manual tightening, W 21.8 x 1/14“ lh coupling nut (connector for LPG cylinders up to 14 kg)	PRV	=	safety pressure relief valve
f	=	female thread				PS	=	maximum admitted pressure (before: PN)
“f“	=	fitting intended for outdoor use						
G	=	parallel female or male thread according to EN ISO 228-1	Komb.A	=	combined connector for large and small German cylinders, W 21.8 x 1/14“ lh coupling nut	PTB	=	German national metrology institute providing scientific and technical services
GAD	=	EC Gas Appliance Directive 90 / 396 / EC						
GAZ	=	connector for blue Campinggaz Cylinders	Komb.B	=	combined connector for large and small German cylinders with soft packing	R	=	taper male thread according to EN 10226-1
GF	=	large German cylinder connector, coupling nut W 21.8 x 1/14“ lh (connector of 33 kg LPG cylinder)	kg / h	=	nominal flow in kilogramme per hour	rh	=	right-hand thread
						Rp	=	parallel female thread according to EN 10226-1
			lh	=	left-hand thread	“t“	=	fitting intended for indoor use
GF M	=	large German cylinder connector, male thread W 21.8 x 1/14“ lh (valve connector of 33 kg LPG cylinder)	M	=	male thread	TRF	=	German technical regulation for LPG
			NBR	=	elastomer material			
			NPT	=	taper pipe thread according to ANSI B.1.20.1 - 1983	V	=	volt
						VA	=	volt - ampere = watt
g / h	=	nominal flow in gramme per hour	OPSO	=	safety overpressure shut-off valve	W	=	watt

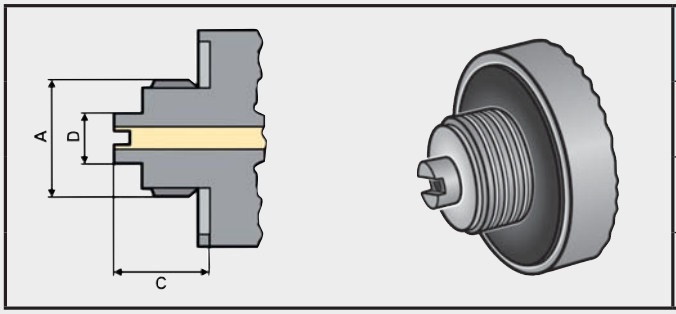
Inlet connectors



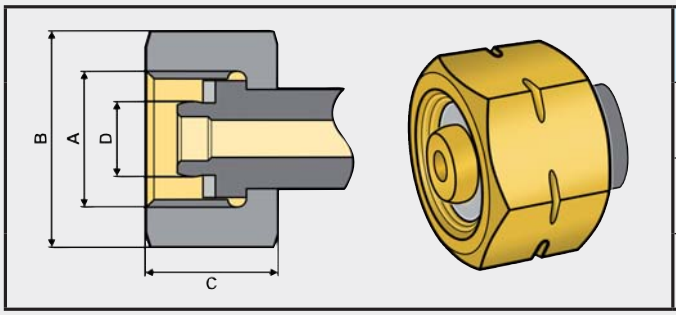
Commercial name	**Italian connector**	A	**W 20 x 1/14 lh**
Name to standard*	**G.1**	B	**25.0 mm**
Country	**AT, GR, IT**	C	**16.0 mm**
Gasket material	**NBR**	D	**10.5 mm**



Commercial name	**Shell (wing, soft)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.2**	B	**wing nut**
Country	**CH, FR**	C	**12.5 mm**
Gasket material	**NBR**	D	**12.2 mm**



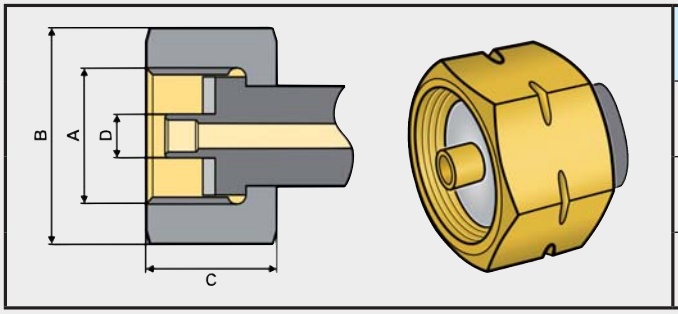
Commercial name	**GAZ**	A	**M 16 x 1.5 rh**
Name to standard*	**G.3**	B	**--**
Country	**international**	C	**13.6 mm**
Gasket material	**NBR**	D	**6.5 mm**



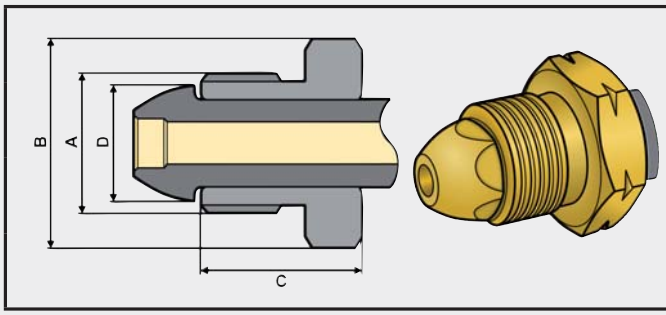
Commercial name	**GF** **Connector 1 (DIN 477)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.4**	B	**30.0 mm**
Country	**AT, DE, DK, FL, PL**	C	**21.0 mm**
Gasket material	**aluminium**	D	**11.5 mm**

A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

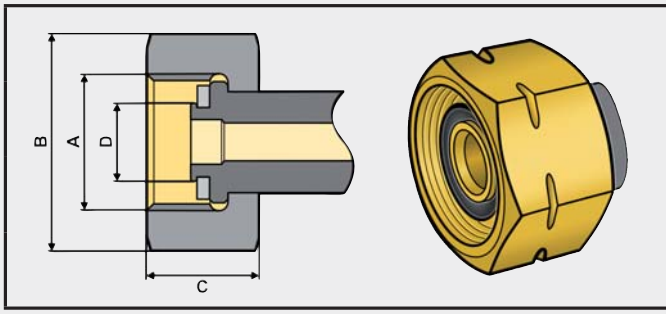
Inlet connectors



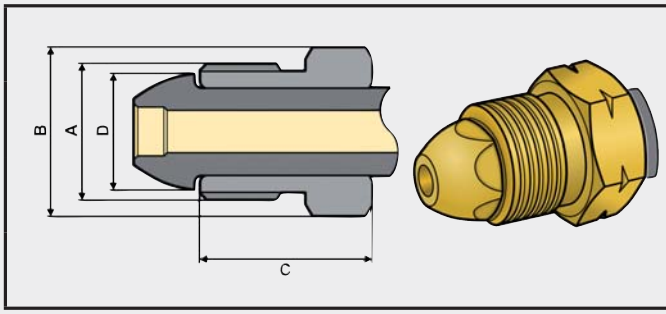
Commercial name	**Kombi (hard)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.5**	B	**30.0 mm**
Country	**AT, DE, PL**	C	**21.0 mm**
Gasket material	**PA**	D	**7.0 mm**



Commercial name	**British POL**	A	**G 5/8 lh**
Name to standard*	**G.7**	B	**30.0 mm**
Country	**GB**	C	**27.0 mm**
Gasket material	**--**	D	**18.9 mm**



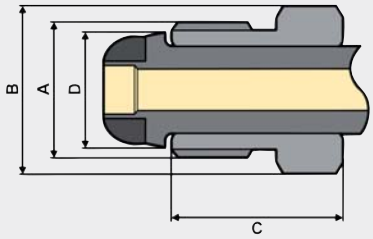
Commercial name	**Shell (soft) butane nut**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.8**	B	**30.0 mm**
Country	**GB, IE**	C	**18.0 mm**
Gasket material	**NBR**	D	**12.2 mm**

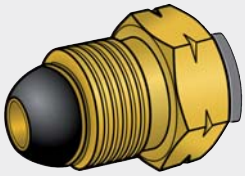


Commercial name	**US POL**	A	**0.880-14 NGO lh**
Name to standard*	**G.9**	B	**24.0 mm**
Country	**CZ, DE, NO, PL, PT, SE**	C	**28.0 mm**
Gasket material	**--**	D	**18.9 mm**

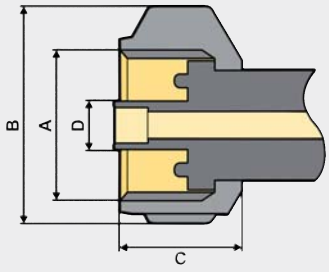
A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

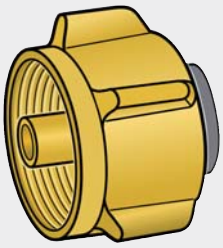
Inlet connectors



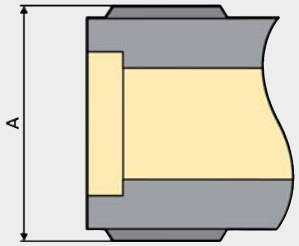


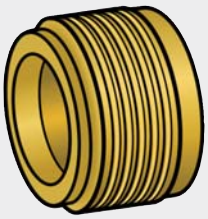
Commercial name	**Soft POL**	A	**0.880-14 NGO lh**
Name to standard*	**G.10**	B	**24.0 mm**
Country	**NO, PT, SE**	C	**28.0 mm**
Gasket material	**NBR**	D	**18.9 mm**



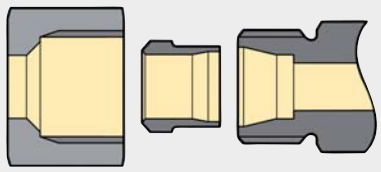


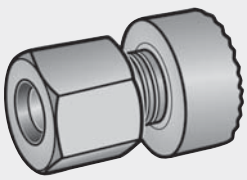
Commercial name	**KLF** **Connector 2 (DIN 477)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.12**	B	**wing nut**
Country	**AT, DE, PL**	C	**18.0 mm**
Gasket material	**--**	D	**7.0 mm**





Commercial name	**M 20 x 1.5**	A	**M 20 x 1.5 rh**
Name to standard*	**G.13**	B	**--**
Country	**CH, ES, FR Europe-wide for caravan**	C	**--**
		D	**--**

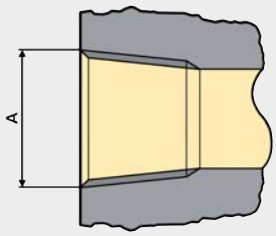




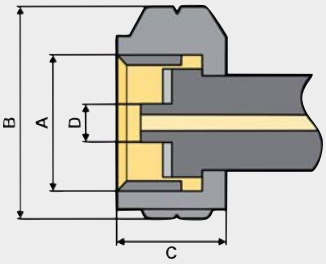
Commercial name	**Compression fitting**		**compr. fit. 8** **compr. fit. 10** **compr. fit. 12** **compr. fit. 15** **compr. fit. 18** **compr. fit. 22** **compr. fit. 28**
Name to standard*	**G.15** **G.22**		
Country	**AT, DE**		
Gasket material	**--**		

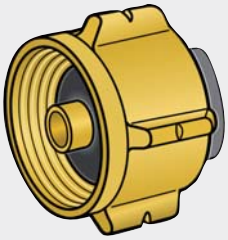
A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

Inlet connectors

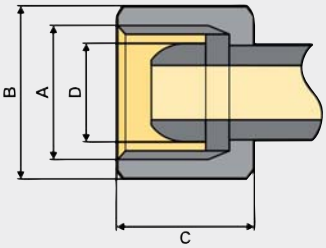


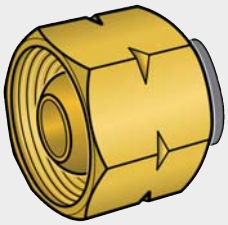
Commercial name	**NPT thread**	A	**1/4 NPT** **3/8 NPT** **1/2 NPT** **3/4 NPT** **1 NPT** **1 1/4 NPT** **1 1/2 NPT**
Name to standard*	**G.18**		
Country	**international**		



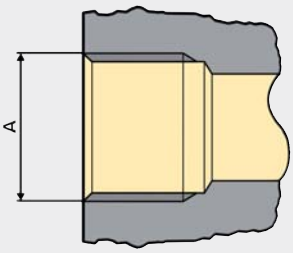


Commercial name	**Kombi (soft)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**G.19**	B	**wing nut**
Country	**DE**	C	**18.0 mm**
Gasket material	**NBR**	D	**7.0 mm**





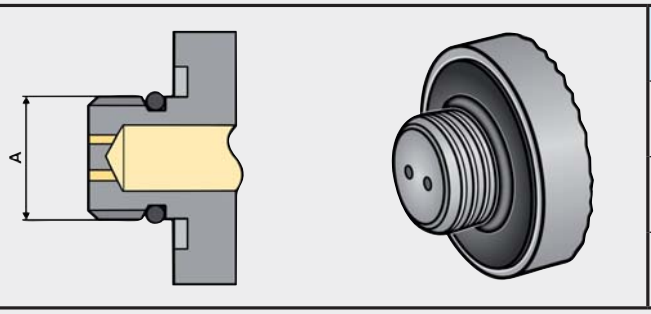
Commercial name	**Mini cylinder** **Connector 4 (DIN 477)**	A	**G 3/8 lh**
Name to standard*	**G.25**	B	**19.0 mm**
Country	**DE**	C	**16.0 mm**
Gasket material	**--**	D	**12.5 mm**



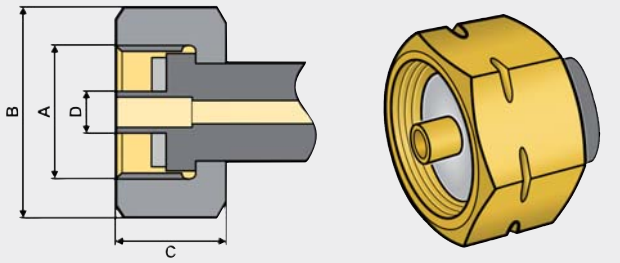
Commercial name	**Female thread**	A	**G 1/4 ISO 228-1** **G 3/8 ISO 228-1** **G 1/2 ISO 228-1** **G 3/4 ISO 228-1** **G 1 ISO 228-1** **G 1 1/4 ISO 228-1** **G 1 1/2 ISO 228-1** **G 2 ISO 228-1**
Name to standard*	**--**		
Country	**international**		
Gasket material	**--**		

A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

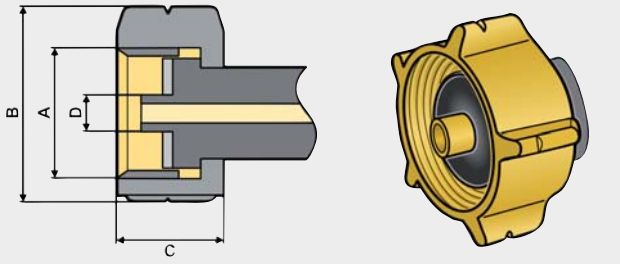
Inlet connectors



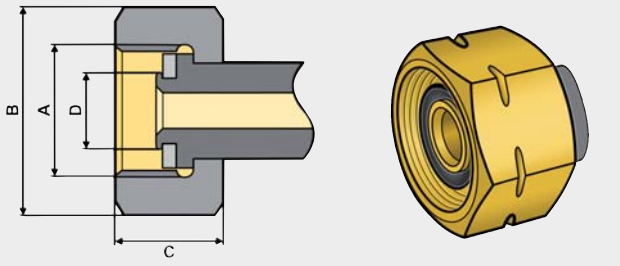
Commercial name	**Primus**	A	**M 14 x 1.5 rh**
Name to standard*	**--**	B	**--**
Country	**SE, NO, FI**	C	**--**
Gasket material	**NBR**	D	**--**



Commercial name	**Shell (Kombi, hard)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**--**	B	**30.0 mm**
Country	**--**	C	**18.0 mm**
Gasket material	**PA**	D	**7.0 mm**



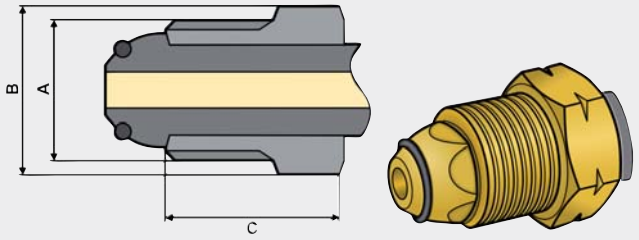
Commercial name	**Shell (Kombi, soft, wing)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**--**	B	**wing nut**
Country	**--**	C	**12.5 mm**
Gasket material	**NBR**	D	**7.0 mm**



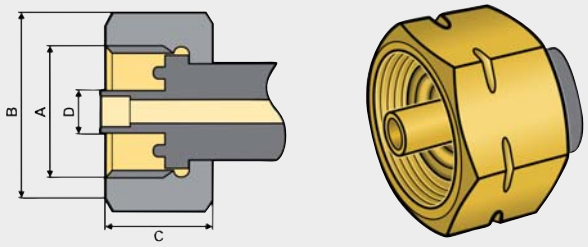
Commercial name	**Shell (soft)** **(low priced version)**	A	**W 21.8 x 1/14 lh**
Name to standard*	**--**	B	**27.0 mm**
Country	**CZ, CS**	C	**14.0 mm**
Gasket material	**NBR**	D	**12.5 mm**

A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

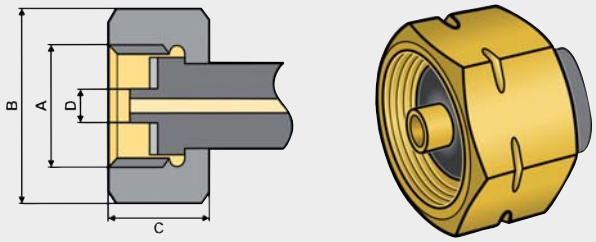
Inlet connectors



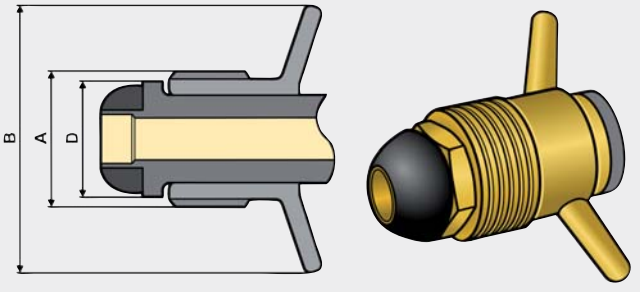
Commercial name	**POL with O-ring**	A	**0.880-14 NGO lh**
Name to standard*	**--**	B	**24.0 mm**
Country	**NO, PT, SE**	C	**28.0 mm**
Gasket material	**NBR**	D	**--**



Commercial name	**Shell Poland**	A	**W 21.8 x 1/14 lh**
Name to standard*	**--**	B	**27.0 mm**
Country	**PL**	C	**16.0 mm**
Gasket material	**Brass sealing bead**	D	**7.0 mm**

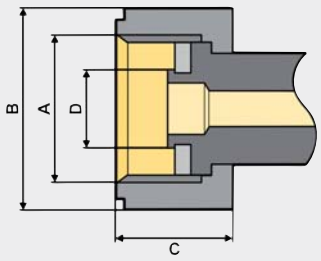


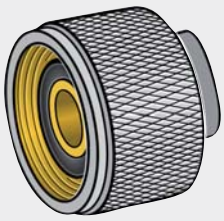
Commercial name	**Shell / Kombi**	A	**W 21.8 x 1/14 lh**
Name to standard*	**--**	B	**27.0 mm**
Country	**NL**	C	**14.0 mm**
Gasket material	**NBR**	D	**7.0 mm**



Commercial name	**Soft POL wing**	A	**0.880-14 NGO lh**
Name to standard*	**--**	B	**wing screw**
Country	**SE**	C	**24.0 mm**
Gasket material	**NBR**	D	**18.9 mm**

A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G



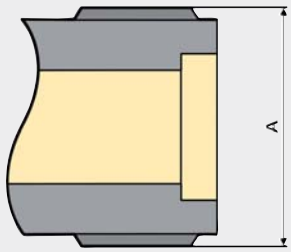


Commercial name	**G 3/8 LH Poland**	A	**G 3/8 lh**
Name to standard*	**--**	B	**knurled nut**
Country	**PL**	C	**15.0 mm**
Gasket material	**NBR**	D	**9.2 mm**

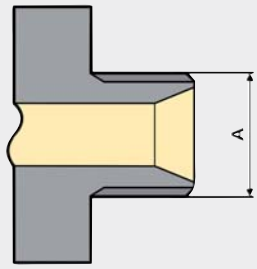
Notes:

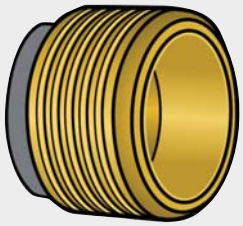
A = description thread / **B** = width across flats nexagon / **C** = length coupling nut / **D** = diameter inner pin
*description according to EN 12864 annex G and EN 13785 annex G

Outlet connectors

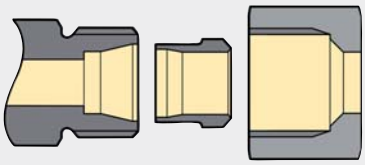


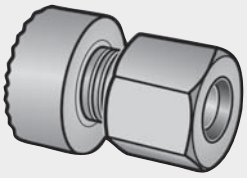
Commercial name	**NF hose connector**	A	**M 20 x 1.5 rh**
Name to standard*	**H.1**		
Country	**CH, ES, FR, PT**		



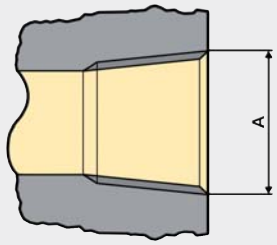


Commercial name	**Ball-cone connector**	A	**G 1/4 lh M** **G 3/8 lh M** **G 1/2 lh M**
Name to standard*	**H.4, H.5, H.6**		
Country	**DE, AT**		





Commercial name	**Compression fitting**		**compr. fit. 8** **compr. fit. 10** **compr. fit. 12** **compr. fit. 15** **compr. fit. 18** **compr. fit. 22** **compr. fit. 28** **compr. fit. 35**
Name to standard*	**H.8** **H.9**		
Country	**DE, GR, IT**		

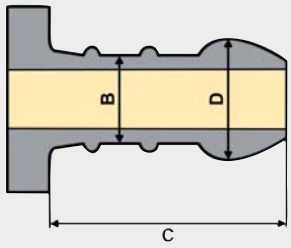


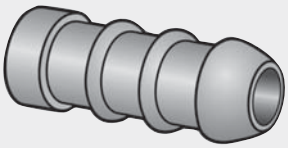
Commercial name	**NPT thread**	A	**1/4 NPT** **3/8 NPT** **1/2 NPT** **3/4 NPT** **1 NPT** **1 1/4 NPT** **1 1/2 NPT**
Name to standard*	**H.11**		
Country	**international**		

A = description thread / **B** = minimum diameter / **C** = length of hose nozzle / **D** = maximum diameter

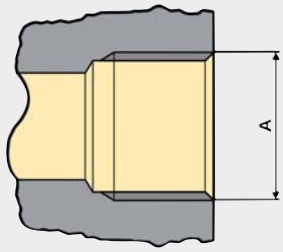
*description according to EN 12864 annex G and EN EN 13785 annex G

Outlet connectors

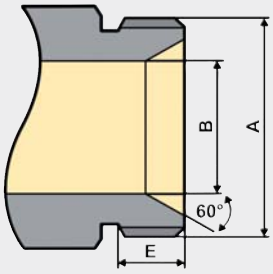


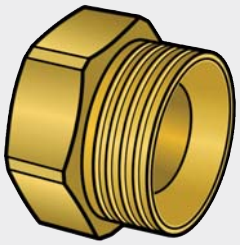


Commercial name	**Hose nozzle D 8 x 23.5 mm**	A	**--**
Name to standard*	**H.50**	B	**8 mm**
Country	**CH, FR, GB, PT, SE**	C	**max. 24 mm**
		D	**10 mm**

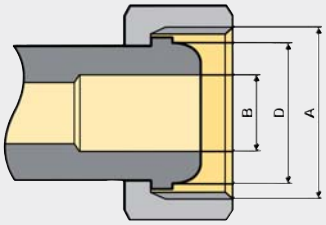


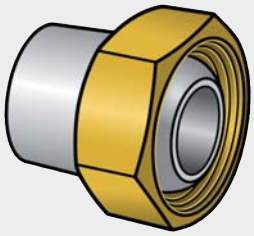
Commercial name	**Female thread**	A	**G 1/4 ISO 228-1** **G 3/8 ISO 228-1** **G 1/2 ISO 228-1** **G 3/4 ISO 228-1** **G 1 ISO 228-1** **G 1 1/4 ISO 228-1** **G 1 1/2 ISO 228-1** **G 2 ISO 228-1**
Name to standard*	**--**		
Country	**DE, GB**		





Commercial name	**G 3/4 KN**	A	**G 3/4 ISO 228-1**
Name to standard*	**--**	B	**16 mm**
Country	**PL**	E	**thread length 8 mm**



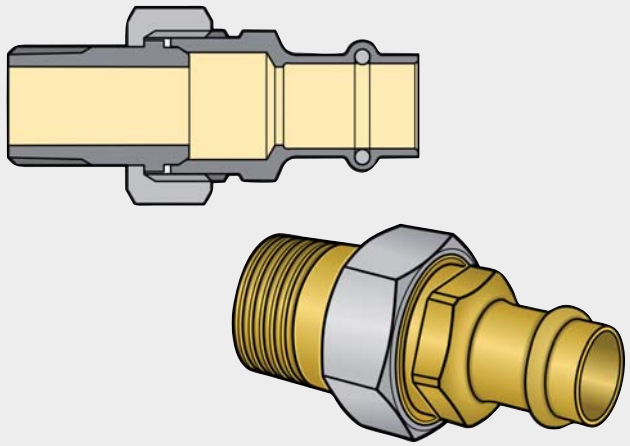


Commercial name	**G 3/4 nut** **G 1 nut**	A	**G 3/4 ISO 228-1** **G 1 ISO 228-1**
Name to standard*	**--**	B	**14.0 mm** **15.0 mm**
Country	**PL**	D	**21.0 mm** **27.5 mm**

A = description thread / **B** = minimum diameter / **C** = length of hose nozzle / **D** = maximum diameter

*description according to EN 12864 annex G and EN EN 13785 annex G

Outlet connectors

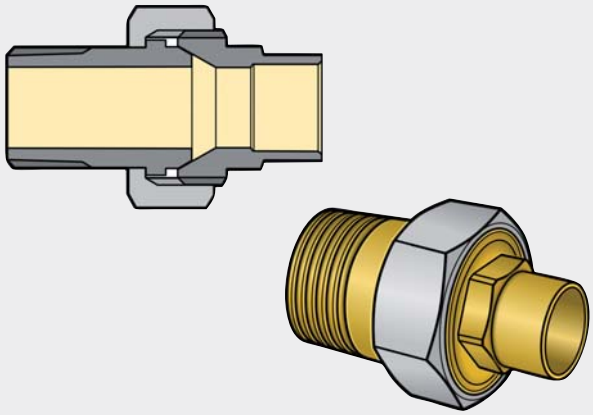


Commercial name	**Compr. / separation connector**
Name to standard*	**--**
Country	**DE**

15 mm x R 1/2 EN 10226-1

18 mm x R 1/2 EN 10226-1

22 mm x R 1/2 EN 10226-1



Commercial name	**Solder / separation connector**
Name to standard*	**H.10**
Country	**DE**

15 iØ x R 1/2 EN 10226-1

18 iØ x R 1/2 EN 10226-1

22 iØ x R 1/2 EN 10226-1

Notes:

A = description thread / **B** = minimum diameter / **C** = length of hose nozzle / **D** = maximum diameter

*description according to EN 12864 annex G and EN EN 13785 annex G

Article list

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
01 001 36	31	01 364 00	19	02 234 00	51	02 616 27	64
01 004 00	35	01 364 10	19	02 235 00	51	02 617 00	62
01 004 29	42	01 366 00	19	02 236 00	51	02 617 01	62
01 004 30	42	01 373 00	18	02 237 00	51	02 617 05	62
01 004 36	35	01 375 00	19	02 251 02	40	02 700 00	46
01 004 46	35	01 376 00	19	02 252 00	40	02 700 01	46
01 004 47	35	01 377 00	19	02 253 00	40	02 701 00	46
01 006 00	35	01 377 10	19	02 253 30	40	02 701 01	46
01 006 36	35	01 407 00	11	02 253 45	40	02 701 11	46
01 010 00	35	01 407 02	11	02 254 00	40	02 701 40	45
01 010 36	35	01 504 10	35	02 254 45	40	02 701 41	45
01 010 45	35	01 504 12	35	02 315 00	51	02 701 42	45
01 010 46	35	01 524 06	20	02 324 00	51	02 701 43	45
01 012 00	11	01 530 36	18	02 325 00	51	02 702 00	46
01 060 34	31	01 530 37	18	02 449 00	52	02 702 01	46
01 060 37	31	01 604 00	11	02 449 01	52	02 702 02	46
01 100 00	29	01 614 11	20	02 449 02	52	02 702 13	46
01 100 13	29	01 626 00	20	02 449 04	52	02 702 40	45
01 100 22	40	01 641 34	11	02 449 06	52	02 702 41	45
01 100 23	29	01 641 35	11	02 449 09	52	02 702 42	45
01 100 33	29	01 641 37	11	02 452 25	64	02 702 47	46
01 100 38	31	01 641 45	11	02 501 00	57	02 703 00	46
01 115 00	31	01 641 46	11	02 501 12	64	02 703 01	46
01 115 09	31	01 648 41	11	02 505 00	57	02 703 40	45
01 115 36	31	01 648 42	11	02 506 00	57	02 703 45	45
01 115 42	31	01 648 51	11	02 507 00	57	02 703 46	46
01 115 45	31	02 005 00	25	02 508 00	57	02 704 00	46
01 115 51	31	02 005 01	25	02 508 01	57	02 704 45	46
01 115 52	31	02 005 05	25	02 509 00	58	02 771 02	10
01 115 62	31	02 013 10	25	02 510 00	41	02 774 00	12
01 135 31	32	02 024 00	25	02 511 00	57	02 774 10	23
01 135 36	32	02 025 00	25	02 512 00	27	02 774 45	12
01 140 30	32	02 027 00	39	02 513 00	27	02 777 02	14
01 140 36	32	02 028 00	38	02 517 00	57	02 777 03	14
01 150 02	33	02 028 36	38	02 518 00	57	02 777 10	13
01 150 03	33	02 028 37	38	02 519 00	57, 64	02 778 01	14
01 150 30	32	02 028 45	38	02 541 00	24	02 779 20	12
01 150 32	33	02 028 46	38	02 541 45	24	02 795 00	27
01 150 33	33	02 030 00	39	02 542 00	24	02 898 00	27
01 150 36	32	02 031 00	38	02 543 00	24	02 905 00	5
01 256 00	18	02 031 36	38	02 550 00	24	02 905 03	5
01 266 00	9	02 031 37	38	02 551 00	24	02 905 35	5
01 266 36	9	02 051 47	29	02 559 00	24	02 905 45	5
01 266 45	9, 18	02 051 49	29	02 559 46	24	02 905 46	5
01 266 46	9, 18	02 063 10	26	02 600 00	63	02 993 00	6
01 266 63	9	02 063 11	26	02 600 26	64	02 993 02	6
01 266 65	9	02 063 12	26	02 601 00	60	02 993 04	6
01 267 02	9	02 063 13	26	02 601 01	60	02 995 45	17
01 310 00	11	02 063 15	26	02 605 00	63	02 995 46	17
01 321 00	21	02 230 00	51	02 607 00	60	03 022 00	50
01 360 00	18	02 231 00	51	02 608 00	60	03 199 00	49
01 361 00	18	02 232 00	51	02 616 01	63	03 200 00	49
01 362 00	10, 19	02 233 00	51	02 616 26	64	03 201 00	48

Article list

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
03 202 00	48	04 027 00	59	04 415 30	55	04 494 00	41
03 202 40	44	04 034 00	56	04 416 00	54	04 494 03	41
03 204 00	48	04 035 00	56	04 416 30	55	04 497 00	41
03 207 00	48	04 037 00	56	04 417 00	54	04 502 00	54
03 207 40	44	04 040 00	56	04 417 30	55	04 503 00	54
03 208 00	48	04 044 00	56	04 418 00	54	04 504 00	54
03 208 40	44	04 220 00	54	04 418 30	55	04 504 45	54
03 209 00	48	04 221 00	54	04 419 00	54	04 506 00	54
03 211 00	49	04 222 00	54	04 419 30	55	04 506 45	54
03 218 00	50	04 223 00	54	04 420 00	54	04 511 00	54
03 221 00	50	04 224 00	54	04 420 30	55	04 523 00	54
03 221 40	44	04 225 00	54	04 421 00	54	04 524 00	54
03 223 00	50	04 226 00	54	04 421 30	55	04 526 00	54
03 224 00	50	04 227 00	54	04 422 00	53	04 529 00	54
03 230 00	50	04 227 05	54	04 422 30	55	04 531 00	54
03 231 00	50	04 401 00	53	04 423 00	53	04 543 00	56
03 267 00	49	04 401 02	53	04 423 30	55	04 543 02	56
03 267 01	49	04 401 27	55	04 424 00	53	04 544 00	56
03 268 00	49	04 401 30	55	04 424 01	53	04 546 00	56
03 269 00	49	04 402 00	53, 64	04 429 00	54	04 549 00	56
03 270 00	49	04 402 30	55	04 433 02	54	04 551 00	56
03 272 00	49	04 403 00	53	04 434 00	54	04 551 02	56
03 307 00	50	04 403 30	55	04 434 01	54	04 572 00	41
03 308 00	48	04 404 00	53	04 434 02	54	04 573 00	41
03 309 00	48	04 404 30	55	04 434 03	54	05 004 00	36
03 310 00	48	04 405 00	53	04 436 00	53	05 004 37	36
03 311 00	48	04 405 30	55	04 436 01	53	05 014 00	31
03 312 00	48	04 406 00	53	04 436 02	53	05 014 30	31
03 313 00	49	04 406 30	55	04 436 06	53	05 014 37	31
03 314 00	49	04 407 00	53	04 436 09	53	05 078 00	37
03 316 00	49	04 407 30	55	04 436 10	53	05 078 10	37
03 401 00	48	04 408 00	53	04 437 00	54	05 078 20	37
03 402 00	48	04 408 30	55	04 438 00	54	05 087 00	37
03 403 00	48	04 409 00	53	04 444 00	54	05 104 00	36
03 403 10	48	04 409 01	53	04 444 01	54	05 104 03	36
03 404 00	48	04 409 02	53	04 444 43	58	05 104 30	36
03 405 00	48	04 409 03	53	04 450 00	54	05 150 00	33
03 406 00	48	04 409 04	53	04 453 00	54	05 150 40	33
03 407 00	48	04 409 06	53	04 454 00	53	05 155 00	12
03 408 00	48	04 409 11	53	04 454 02	53	05 155 45	12
03 410 00	49	04 409 31	55	04 454 30	55	05 157 00	12
03 411 00	49	04 409 32	55	04 454 34	55	05 160 00	12
04 002 00	58	04 409 33	55	04 455 00	53	05 161 00	12
04 002 06	58	04 409 35	55	04 455 30	55	05 162 00	12
04 003 00	58	04 409 36	55	04 456 00	53	05 193 40	14
04 004 00	58	04 409 37	55	04 456 30	55	05 193 45	13
04 006 20	58	04 410 00	53	04 457 00	53	05 196 40	14
04 007 20	58	04 410 30	55	04 457 01	53	05 197 40	14
04 008 20	58	04 413 00	53	04 457 30	55	05 220 00	26
04 009 20	58	04 413 30	55	04 458 30	55	05 240 35	10
04 010 20	58	04 414 00	54	04 489 00	41	05 245 00	6
04 011 20	58	04 414 30	55	04 490 00	41	05 247 10	6
04 020 00	59	04 415 00	54	04 491 00	41	05 300 35	47

Article list

Part no.	Page	Part no.	Page	Part no.	Page	Part no.	Page
05 300 36	47	14 477 00	57	29 120 00	61		
05 300 37	47	14 478 00	57	51 033 00	18		
05 300 38	47	14 479 00	59	51 640 00	23		
05 300 40	47	14 480 00	59	51 640 10	23		
05 300 41	47	14 481 00	59	51 642 00	23		
05 300 43	47	14 482 00	59	51 642 01	23		
05 300 44	47	14 483 00	59	51 642 09	23		
05 300 45	47	14 484 00	59	51 642 18	12		
05 300 46	47	14 485 00	59	51 643 00	22		
05 300 48	47	14 486 00	59	51 643 45	22		
05 300 49	47	14 487 00	59	51 643 46	22		
05 300 51	47	14 488 00	59	51 643 88	22		
05 300 56	47	14 489 00	59	53 002 10	29		
05 300 61	47	14 496 00	59	53 045 00	29		
05 330 45	17	14 497 00	59	53 046 00	29		
05 330 61	17	14 520 00	59	55 300 90	42		
05 331 01	17	14 521 00	59	55 300 92	42		
05 331 45	17	14 522 00	59	55 300 95	42		
05 687 00	28	14 523 00	59	55 301 90	42		
05 687 05	28	14 524 00	59	59 900 00	64		
05 687 13	28	18 503 00	43	59 921 00	64		
05 687 14	28	18 503 03	43	59 922 00	64		
05 687 15	28	18 504 00	43				
05 687 16	28	18 504 03	43				
05 687 18	28	18 504 10	43				
07 039 40	47	18 504 11	43				
07 040 40	47	18 504 15	43				
09 750 00	51	18 505 00	43				
10 071 22	42	18 505 03	43				
13 009 21	25	18 506 00	43				
14 004 00	58	18 507 00	43				
14 006 00	58	18 508 00	43				
14 007 00	58	18 509 00	43				
14 008 00	58	18 511 00	43				
14 009 00	58	18 513 00	43				
14 010 00	58	18 513 03	43				
14 011 00	58	18 514 00	43				
14 013 00	57	18 514 03	43				
14 014 00	58	18 517 00	43				
14 015 00	58	18 518 00	43				
14 016 00	58	20 009 75	42				
14 018 00	57	20 009 86	42				
14 040 00	57	20 013 97	29				
14 110 00	59	25 520 76	46				
14 111 00	59	25 520 77	46				
14 409 00	57	25 520 85	46				
14 467 00	57	29 100 00	61				
14 468 00	57	29 100 10	61				
14 469 00	57	29 105 00	61				
14 470 00	57	29 108 00	61				
14 474 00	57	29 110 00	61				
14 475 00	57	29 112 00	61				
14 476 00	57	29 115 00	61				

Index

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