

Product Catalogue

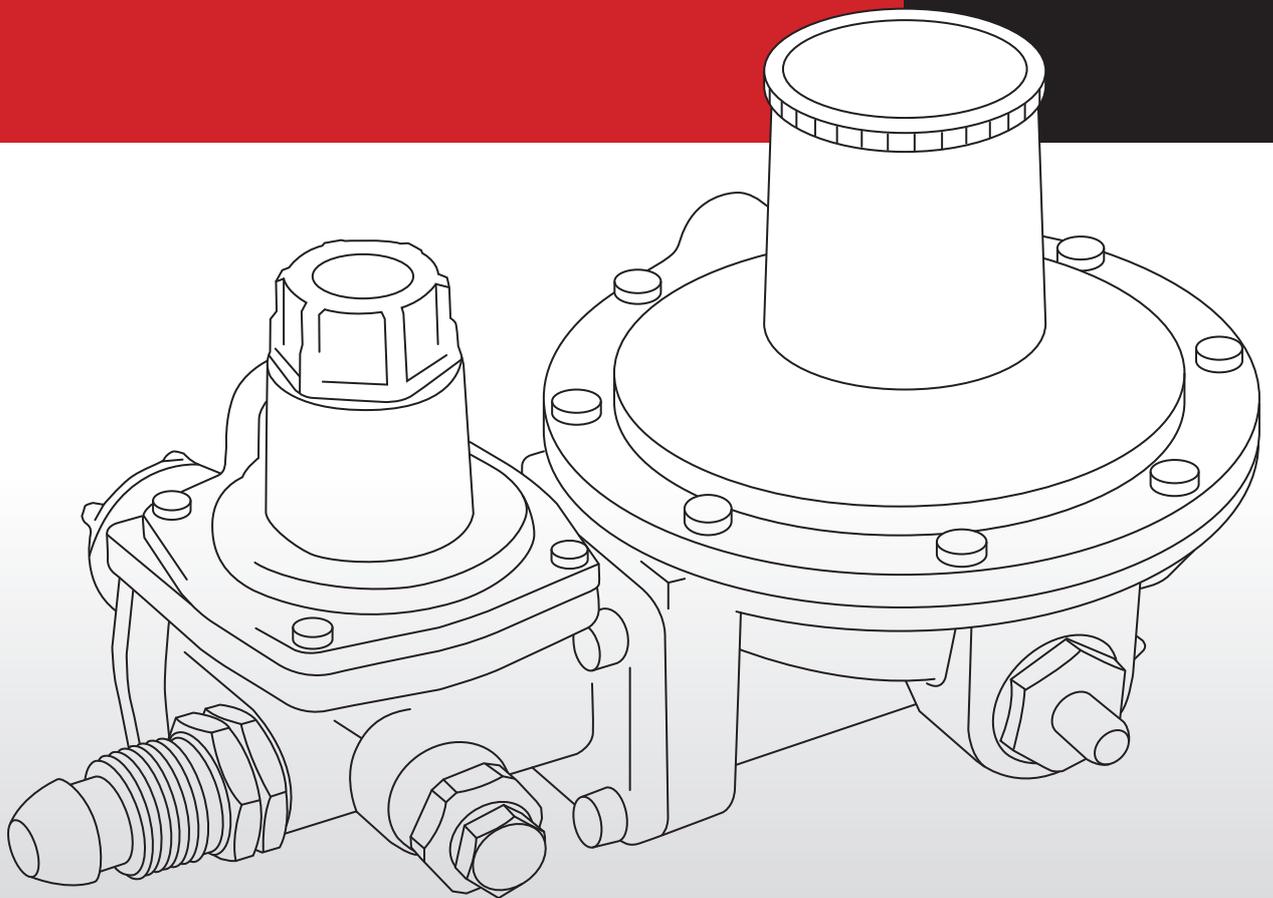


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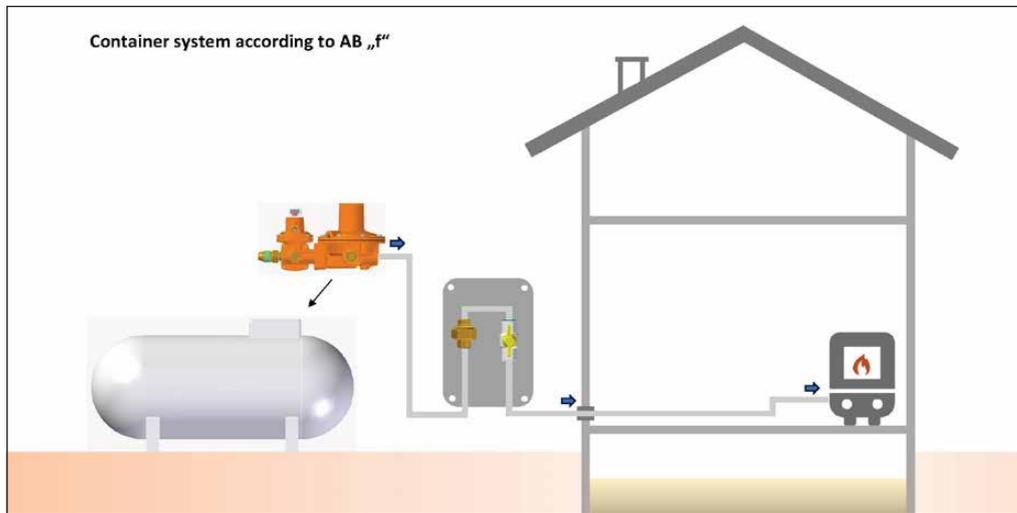
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Container systems according to AB

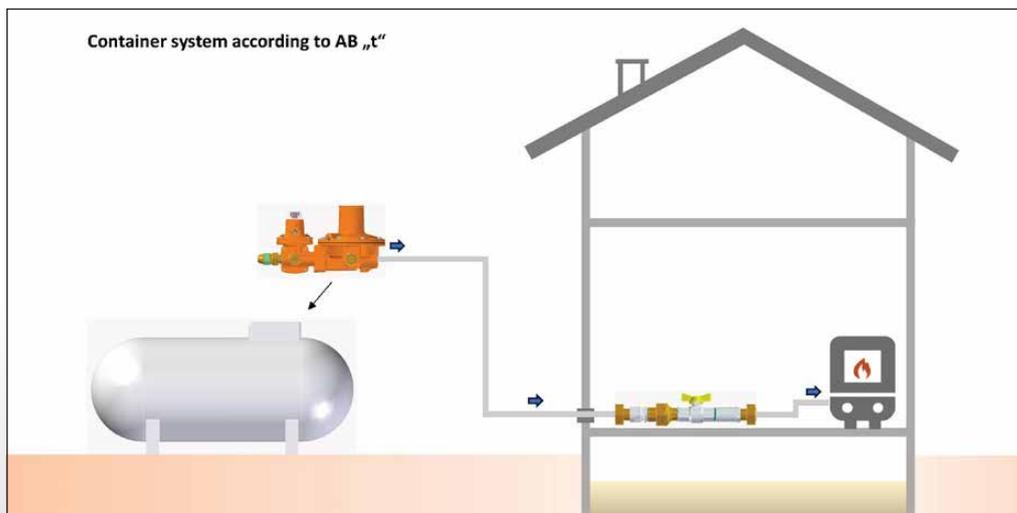
Application example



Container regulator combination 50 mbar, mounted directly on the LPG tank, main shut-off in the house connection box for outdoor systems „f“ - optionally mounted with gas flow monitor GS.

Example:

The tank controller combination BRK-110 or BRK-111 (with emergency supply) is connected directly to the liquid tank. The main shut-off device with gas flow monitor is mounted in the house connection box on the outside of the building in **front** of the house inlet.



Container regulator combination 50 mbar, mounted directly on the LPG tank, main shut-off for indoor systems „t“ - optionally mounted with gas flow monitor GS.

Example:

The tank controller combination BRK-110 or BRK-111 (with standard supply) is connected directly to the liquid tank. The main shut-off device with gas flow monitor is installed in the building **after** the house inlet.

Regulator

Container regulator combination

Container regulator combination Typ: BRK-110 / 111

Order number:

Container regulator combination Typ: BRK-110 / 111

The container regulator combination 110 is a combination of a 1st stage regulator and a 2nd stage regulator for liquefied gas, which reduces the unregulated pressure from the liquefied gas container to 50 mbar outlet pressure. A safety shut-off valve (OPSO) is fitted in the 1st stage regulator and a safety relief valve (PRV) in the 2nd stage regulator as safety-related equipment.

The container regulator combination 111 is **additionally equipped** with an **emergency supply connection (NV-1)**.

Technical data:

- Inlet pressure: up to 16 bar
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 10 kg/h (propane)
- Outlet pressure: 50 mbar or other on request
- Overpressure safety shut-off valve (OPSO): 132 mbar or other on request
- Overpressure safety relief valve (PRV): 150 mbar or another on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or other on request
- Operating temperature: -40°C to +80°C



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Container regulator combination Typ: BRK-110

BRK-110-Pol x G 1/2 IG	50 mbar	10 kg/h	1 00 110 8 5 000 0
BRK-110-Pol x G 3/4 ÜWM	50 mbar	10 kg/h	1 00 110 8 5 100 0
BRK-110-Pol x RVS15	50 mbar	10 kg/h	1 00 110 8 5 215 0
BRK-110-Pol x RVS18	50 mbar	10 kg/h	1 00 110 8 5 218 0
BRK-110-Pol x RVS22	50 mbar	10 kg/h	1 00 110 8 5 222 0
BRK-110-Pol x PVS15	50 mbar	10 kg/h	1 00 110 8 5 515 0
BRK-110-Pol x PVS18	50 mbar	10 kg/h	1 00 110 8 5 518 0
BRK-110-Pol x PVS22	50 mbar	10 kg/h	1 00 110 8 5 522 0

Container regulator combination Typ: BRK-111

(additionally equipped with an emergency supply con. NV-1)

BRK-111-Pol x G 1/2 IG-NV-1	50 mbar	10 kg/h	1 00 111 8 5 000 0
BRK-111-Pol x G 3/4 ÜWM-NV-1	50 mbar	10 kg/h	1 00 111 8 5 100 0
BRK-111-Pol x RVS15-NV-1	50 mbar	10 kg/h	1 00 111 8 5 215 0
BRK-111-Pol x RVS18-NV-1	50 mbar	10 kg/h	1 00 111 8 5 218 0
BRK-111-Pol x RVS22-NV-1	50 mbar	10 kg/h	1 00 111 8 5 222 0
BRK-111-Pol x PVS15-NV-1	50 mbar	10 kg/h	1 00 111 8 5 515 0
BRK-111-Pol x PVS18-NV-1	50 mbar	10 kg/h	1 00 111 8 5 518 0
BRK-111-Pol x PVS22-NV-1	50 mbar	10 kg/h	1 00 111 8 5 522 0

Equipment:

Emergency supply adapter NV-1			1 00 091 14 038 0
Ventilation set for BRK-110 / 111, for installation with underground liquid gas tank			9 03 110 8 5 000 2
Installation set for container controller	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 0
Installation set for container controller with insect screen	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 1
Installation set for CE-container	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 0
Installation set for CE-container with insect screen	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 1

House connections

Container systems according to AB1

House connection typ: HA-10-„t“

Order number:

House connection typ: HA-10-„t“

This house connection is an indoor system “t” for liquid gas according, where the fittings of the house entrance are **mounted inside** the building.

Equipment:

- including thermal cut-out valve
- including insulator
- including gas ball valve
- optionally available with gas flow monitor
- Input and output connection also others on request

House connection typ: HA-10-„t“

HA-10-T-Rp 1/2 IG x Rp 1/2 IG	1 00 021 9 5 000 0
HA-10-T-G 3/4 ÜWM x G 3/4 ÜWM	1 00 021 9 5 100 0
HA-10-T-RVS15 x RVS15	1 00 021 9 5 215 0
HA-10-T-RVS18 x RVS18	1 00 021 9 5 218 0
HA-10-T-RVS22 x RVS22	1 00 021 9 5 222 0
HA-10-T-PVS15 x PVS15	1 00 021 9 2 515 0
HA-10-T-PVS18 x PVS18	1 00 021 9 2 518 0
HA-10-T-PVS22 x PVS22	1 00 021 9 2 522 0

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.



House connection typ: HA-GT-15-„t“

Order number:

House connection typ: HA-GT-15-„t“

This house connection is an indoor system “t” for liquid gas according, where the fittings of the house entrance are **mounted inside** the building.

Equipment:

- thermally increased capacity up to 650°C
- including thermal cut-out valve
- including gas ball valve
- optionally available with gas flow monitor
- Input and output connection also others on request

House connection typ: HA-GT-15-„t“

HA-GT-15-T-RVS15 x RVS15	1 00 021 9 5 215 5
HA-GT-15-T-RVS18 x RVS18	1 00 021 9 5 218 5
HA-GT-15-T-RVS22 x RVS22	1 00 021 9 5 222 5
HA-GT-15-T-PVS15 x PVS15	1 00 021 9 5 515 5
HA-GT-15-T-PVS18 x PVS18	1 00 021 9 5 518 5
HA-GT-15-T-PVS22 x PVS22	1 00 021 9 5 522 5

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.



House connections

Container systems according to AB1

House connection typ: HAGZ-12-„t“

Order number:

Hausanschluss Typ: HAGZ-12-„t“

This house connection is an indoor system "t" for liquid gas according, where the gas meter and the fittings of the house entrance are **mounted inside** the building.

Equipment:

- including thermal equipment trips (TAS)
- including insulator
- including gas ball valve
- including single-tube diaphragm gas meter and wall bracket
- optionally available with gas flow monitor
- Input and output connection also others on request



House connection typ: HAGZ-12-„t“

(Indoor system with gas meter mounted on wall bracket)

HAGZ-12-T-RVS15 x RVS15	1 00 031 9 4 215 7
HAGZ-12-T-RVS18 x RVS18	1 00 031 9 4 218 7
HAGZ-12-T-RVS22 x RVS22	1 00 031 9 4 222 7
HAGZ-12-T-PVS15 x PVS15	1 00 031 9 4 515 7
HAGZ-12-T-PVS18 x PVS18	1 00 031 9 4 518 7
HAGZ-12-T-PVS22 x PVS22	1 00 031 9 4 522 7

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.

House connection typ: HAGZ-10-„t“

Order number:

House connection typ: HAGZ-10-„t“

This house connection is an indoor system "t" for liquid gas according, where the gas meter and the fittings of the house entrance are **mounted inside** the building.

Equipment:

- including thermal equipment trips (TAS)
- including insulator
- including test connection on the inlet and outlet side
- including shut-off valves on the inlet and outlet side
- including single-tube diaphragm gas meter and mounting plate
- including fastening material
- mounted on a hot-dip galvanised mounting plate MP-1 (H/W: 460 x 460 mm)
- optionally available with gas flow monitor
- Input and output connection also others on request



House connection typ: HAGZ-10-„t“

(Indoor system with gas meter mounted on mounting plate)

HAGZ-10-T-RVS15 x RVS15	1 00 031 9 4 215 5
HAGZ-10-T-RVS18 x RVS18	1 00 031 9 4 218 5
HAGZ-10-T-RVS22 x RVS22	1 00 031 9 4 222 5
HAGZ-10-T-PVS15 x PVS15	1 00 031 9 4 515 5
HAGZ-10-T-PVS18 x PVS18	1 00 031 9 4 518 5
HAGZ-10-T-PVS22 x PVS22	1 00 031 9 4 522 5

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.

House connections

Container systems according to AB1

House connection typ: HA-10-„f“-AP

Order number:



Hausanschluss Typ: HA-10-„f“-AP

This house connection is an outdoor installation "f" for liquid gas according, where the fittings of the house entrance are mounted in a surface box **outside** the building.

Equipment:

- including insulator
- including shut-off valve
- including test connection
- including fastening material
- Mounted in the hot-dip galvanised house connection box AP-2 (H/W/D: 300 x 240 x 155 mm)
- the house connection box is supplied with a removable bonnet and a base plate, thus ensuring easy installation
- optionally available with gas flow monitor
- Input and output connection also others on request

House connection typ: HA-10-„f“-AP

(Outdoor system mounted in the house connection box)

HA-10-F-Rp 1/2 IG x Rp 1/2 IG	1 00 021 8 1 012 0
HA-10-F-G 3/4 ÜWM x G 3/4 ÜWM	1 00 021 8 1 100 0
HA-10-F-RVS15 x RVS15	1 00 021 8 1 215 0
HA-10-F-RVS18 x RVS18	1 00 021 8 1 218 0
HA-10-F-RVS22 x RVS22	1 00 021 8 1 222 0
HA-10-F-PVS15 x PVS15	1 00 021 8 1 515 0
HA-10-F-PVS18 x PVS18	1 00 021 8 1 518 0
HA-10-F-PVS22 x PVS22	1 00 021 8 1 522 0

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.

House connection typ: HAGZ-10-„f“

Order number:



House connection typ: HAGZ-10-„f“

This house connection is an outdoor installation "f" for liquid gas according, where the gas meter and the fittings of the house entrance are mounted in a surface box **outside** the building.

Equipment:

- including insulator
- including test connection on the inlet and outlet side
- including shut-off valves on the inlet and outlet side
- including single-tube diaphragm gas meter and mounting plate
- including fastening material
- mounted in the hot-dip galvanised house connection box AP-3 (H/W/D: 490 x 490 x 235 mm)
- the house connection box is supplied with a removable bonnet and a base plate, thus ensuring easy installation
- optionally available with gas flow monitor
- Input and output connection also others on request

House connection typ: HAGZ-10-„f“

(Outdoor system mounted in the house connection box)

HAGZ-10-F-Rp 1/2 IG x Rp 1/2 IG	1 00 031 8 1 000 0
HAGZ-10-F-G 3/4 ÜWM x G 3/4 ÜWM	1 00 031 8 1 100 5
HAGZ-10-F-RVS15 x RVS15	1 00 031 8 1 215 5
HAGZ-10-F-RVS18 x RVS18	1 00 031 8 1 218 5
HAGZ-10-F-RVS22 x RVS22	1 00 031 8 1 222 5
HAGZ-10-F-PVS15 x PVS15	1 00 031 8 1 515 5
HAGZ-10-F-PVS18 x PVS18	1 00 031 8 1 518 5
HAGZ-10-F-PVS22 x PVS22	1 00 031 8 1 522 5

All controller stations and house connection stations are also available with integrated flow monitor.
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.
The gross prices are increased accordingly by the gross price of the flow monitor.

House inlet – underground

Container systems according to AB1

House inlet rigid and flex for liquid gas

Order number:

House inlet rigid and flex for liquid gas

RMA house connection for the underground installation of the pipe into the building. Available in both rigid (basement wall) and flexible (floor slab) versions.

Equipment:

- With thermal cut-out valve
- Version flex with AVR-angle valve-90°
- Version flex also available as VA variant
- Version rigid with angle valve 90° and 45° or valve 45% available

Technical data:

Inlet:	PE-HD outer diameter 32 mm
Outlet:	1" Rp female thread
Nominal width:	DN25
Length rigid :	730 mm and 1300 mm
Length flex :	1500 mm others on request

House inlet rigid and flex for liquid gas

WDF-RMA-730-mm-rigid-PE32 x 1 IG	with AVR-angle valve-90°	1 00 093 01 730 0
WDF-RMA-730-mm-rigid-PE32 x 1 IG	with AVR straight-through valve	1 00 093 01 730 4
WDF-RMA-1300-mm-rigid-PE32 x 1 IG	with AVR-angle valve-45°	1 00 093 01 730 1
WDF-RMA-1500mm-flex-PE32 x 1 IG	with AVR-angle valve-90°	1 00 093 02 1500 0
WDF-RMA-1500mm-VA-flex-PE32 x 1 IG	with AVR-angle valve-90°	1 00 093 02 1500 1

Accessories:

Wall bracket 2-leg DN25 for WDF-rma	1 00 093 01 022 0
Support bracket-3-leg-DN25 for WDF-rma	1 00 093 01 033 0
RMA house connection set-with-threaded cap	1 00 093 01 044 1
RMA spouting device complete DN25 (KETH-S/PE)	1 00 093 01 400 0
RMA foam mat DN25 closed on one side (black)	1 00 093 01 420 0
RMA protection pipe PVC D110X3,2X600 inside and outside	1 00 093 01 430 0
RMA centring ring DN 25 AD105/100 / ID63	1 00 093 01 440 0
RMA centring ring DN 25 AD95/90 / ID63	1 00 093 01 450 0
RMA potting compound GMD-F 5 KG bucket	1 00 093 01 500 0
Tangit 3000 – 300 ml	1 00 093 01 300 0
Tangit 3000 – 150 ml	1 00 093 01 150 0
Squeeze-out sleeve for Tangit 3000 – 150 ml	1 00 093 01 150 1
Heat shrink tubing 65 x 1.2 x 250 mm	9 00 090 12 025 0
Heat shrink tubing 65 x 1,2 x 1000 mm	9 00 090 12 100 0



House inlet above ground

Container systems according to AB1

Wall duct for liquid gas

Order number:

Wall duct for liquid gas

This wall duct is intended for the above-ground feed-through of the pipe through the masonry.

Equipment:

- available in two different versions:

Version 1 - Kabuflex R DN50

Version 2 - plastic casing pipe outer diameter 50 x 3.7 mm

- Gland nut POM or brass suitable for CU pipe 18-22 mm

- for the plastic casing pipe a flange set with integrated filling opening for foaming or pouring out of the space between the pipes is available

- Version Kabuflex R available in any length and can be shortened individually



Wall duct – Kabuflex R

Kabuflex R DN50 available by the metre

9 00 090 40 050 0

Wall duct – Kabuflex R 18x50x500mm

with gland nut POM 18 x 40

1 00 090 18 050 5

Wall duct – Kabuflex R 22x50x500mm

with gland nut POM 22 x 40

1 00 090 22 050 5

Wall duct – Plastic casing pipe

Plastic casing pipe

50 x 3,7 x 560 mm

9 00 090 03 000 0

Accessories:

Gland nut POM 18 x 40

for Kabuflex

9 00 090 18 040 0

Gland nut POM 18 x 40

for Kabuflex

9 00 090 22 040 0

1x yellow flange for plastic casing pipe

for plastic casing pipe

1 00 090 09 000 0

Gland nut MS 18,5 x 42

for plastic casing pipe

9 00 090 18 042 0

Gland nut MS 22,5 x 42

for plastic casing pipe

9 00 090 22 042 0

Gland nut MS 26,5 x 42

for plastic casing pipe

9 00 090 26 042 0

Classification

2-Stage Regulator Plant for Outdoor „f“

Application example



A medium pressure 1st stage regulator, mounted directly onto the LPG tank. A low pressure 2nd stage regulator with main shut-off device in the house connection box for outdoor systems „f“ - optionally this can be mounted with a gas flow monitor “GS”.

Example:

A medium pressure regulator such as the MDR-310 or the MDR-311 (with emergency supply) is connected directly to the liquid tank. The low pressure regulator NDR-320 (with main shut-off device and gas flow monitor) is mounted in the house connection box outside the building, in **front** of the house inlet.

Regulator

2-stage regulator plant for outdoor „f“

1st stage medium pressure regulator typ: MDR-310 / 311

Order number:

1st stage medium pressure regulator typ: MDR-310 / 311

The medium pressure regulator 310 is a 1st stage pressure regulator for liquefied gas which reduces the unregulated pressure from the liquefied gas container to 0.75 bar outlet pressure. A **safety shut-off valve (OPSO 2.2 bar)** and a **safety relief valve (PRV 2.5 bar)** are mounted on the regulator as safety-related equipment. The medium pressure regulator 311 is **additionally equipped with an emergency supply connection (NV-1)**.

Technical data:

- Inlet pressure: 1.75-16 bar
- Capacity: 40 kg/h (propane)
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Outlet pressure: 0.75 bar or other on request
- Overpressure safety shut-off valve (OPSO): 2.2 bar or other on request
- Overpressure safety relief valve (PRV): 2.5 bar or another on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or other on request
- Operating temperature: -40°C to +80°C

1st stage medium pressure regulator typ: MDR-310

MDR-310-Pol x G 1/2 IG	0.75 bar	40 kg/h	1 00 310 8 5 000 0
MDR-310-Pol x G 3/4 ÜWM	0.75 bar	40 kg/h	1 00 310 8 5 100 0
MDR-310-Pol x RVS15	0.75 bar	40 kg/h	1 00 310 8 5 215 0
MDR-310-Pol x RVS18	0.75 bar	40 kg/h	1 00 310 8 5 218 0
MDR-310-Pol x RVS22	0.75 bar	40 kg/h	1 00 310 8 5 222 0
MDR-310-Pol x PVS15	0.75 bar	40 kg/h	1 00 310 8 5 515 0
MDR-310-Pol x PVS18	0.75 bar	40 kg/h	1 00 310 8 5 518 0
MDR-310-Pol x PVS22	0.75 bar	40 kg/h	1 00 310 8 5 522 0

1st stage medium pressure regulator typ: MDR-311

(additionally equipped with an emergency supply connection)

MDR-311-Pol x G 1/2 IG-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 000 0
MDR-311-Pol x G 3/4 ÜWM-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 100 0
MDR-311-Pol x RVS15-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 215 0
MDR-311-Pol x RVS18-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 218 0
MDR-311-Pol x RVS22-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 222 0
MDR-311-Pol x PVS15-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 515 0
MDR-311-Pol x PVS18-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 518 0
MDR-311-Pol x PVS22-NV-1	0.75 bar	40 kg/h	1 00 311 8 5 522 0

Equipment:

Emergency supply adapter NV-1			1 00 091 14 038 0
Ventilation set for medium pressure regulator for installation with underground LPG tank			9 03 310 8 5 000 1
Installation set for container controller	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 0
Installation set for container controller with insect screen	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 1
Installation set for CE-container	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 0
Installation set for CE-container with insect screen	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 1



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Regulator

2-stage regulator plant for outdoor „f“

2nd stage low pressure regulator NDR-320

Order number:

2nd stage low pressure regulator NDR-320

The low pressure regulator 320 is a 2nd stage pressure regulator for LPG, which reduces the regulated pressure from the 1st stage pressure regulator to a nominal 50 mbar. A safety shut-off valve (OPSO) is mounted on the regulator and a safety relief valve (PRV) is integrated as safety-related equipment.

Technical data:

- Inlet pressure: 0.5-4 bar
- Inlet connection: G 1/2" IG or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 24 kg/h (propane)
- Outlet pressure: 50 mbar or other on request
- Overpressure safety shut-off valve (OPSO): 132 mbar or other on request
- Overpressure safety relief valve (PRV): 150 mbar or other on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or others on request
- Operating temperature: -40°C to +80°C

2nd stage low pressure regulator NDR-320

NDR-320-G 1/2 IG x G 1/2 IG-corner version	50 mbar	24 kg/h	1 00 320 8 5 000 2
NDR-320-G 1/2 IG x G 1/2 IG	50 mbar	24 kg/h	1 00 320 8 5 000 0
NDR-320-RVS15 x RVS15	50 mbar	24 kg/h	1 00 320 8 5 215 0
NDR-320-RVS18 x RVS18	50 mbar	24 kg/h	1 00 320 8 5 218 0
NDR-320-RVS22 x RVS22	50 mbar	24 kg/h	1 00 320 8 5 222 0
NDR-320-PVS15 x PVS15	50 mbar	24 kg/h	1 00 320 8 5 515 0
NDR-320-PVS18 x PVS18	50 mbar	24 kg/h	1 00 320 8 5 518 0
NDR-320-RVS22 x RVS22	50 mbar	24 kg/h	1 00 320 8 5 522 0



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House connection

2-stage regulator plant for outdoor „f“

2nd stage house connection typ HA-30-„f“ with low pressure regulator

Order number:



2nd stage house connection typ HA-30-„f“ with low pressure regulator

This house connection is an outdoor system „f“ for LPG, where the 2nd stage regulator as well as the fittings of the house entrance are mounted in a surface box outside the building.

Equipment:

- including insulator
- including shut-off valves on the inlet and outlet side
- including fastening material
- including 2nd stage low pressure regulator NDR-320
- mounted in the hot-dip galvanised house connection box AP-1 (H/W/D: 490 x 240 x 155 mm)
- the house connection box is supplied with a removable bonnet and a base plate, thus ensuring easy installation
- optionally available with gas flow monitor
- Input and output connection also others on request

2nd stage house connection typ HA-30-„f“ with low pressure regulator

(Outdoor system mounted in the house connection box)

HA-30-F-Rp 1/2 IG x Rp 1/2 IG	50 mbar	24 kg/h	1 00 023 8 1 000 0
HA-30-F-G 3/4 ÜWM x G 3/4 ÜWM	50 mbar	24 kg/h	1 00 023 8 1 100 0
HA-30-F-RVS15 x RVS15	50 mbar	24 kg/h	1 00 023 8 1 215 0
HA-30-F-RVS18 x RVS18	50 mbar	24 kg/h	1 00 023 8 1 218 0
HA-30-F-RVS22 x RVS22	50 mbar	24 kg/h	1 00 023 8 1 222 0
HA-30-F-PVS15 x PVS15	50 mbar	24 kg/h	1 00 023 8 1 515 0
HA-30-F-PVS18 x PVS18	50 mbar	24 kg/h	1 00 023 8 1 518 0
HA-30-F-PVS22 x PVS22	50 mbar	24 kg/h	1 00 023 8 1 522 0

All controller stations and house connection stations are also available with integrated flow monitor.

Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.

The gross prices are increased accordingly by the gross price of the flow monitor.

2nd stage house connection typ HA-32-„f“ with test connection and low pressure regulator

Order number:



2nd stage house connection typ HA-32-„f“ with test connection and low pressure regulator

This house connection is an outdoor system „f“ for liquid gas, where the 2nd stage regulator as well as the fittings of the house entrance are mounted in a surface box outside the building.

Equipment:

- including insulator
- including test connection on the inlet and outlet side
- including shut-off valves on the inlet and outlet side
- including fastening material
- including 2nd stage low pressure regulator NDR-320
- mounted in the hot-dip galvanised house connection box AP-1 (H/W/D: 490 x 240 x 155 mm)
- the house connection box is supplied with a removable bonnet and a base plate, thus ensuring easy installation
- optionally available with gas flow monitor
- Input and output connection also others on request

2nd stage house connection typ HA-32-„f“ with test connection and low pressure regulator

(Outdoor system mounted in the house connection box)

HA-32-F-Rp 1/2 IG x Rp 1/2 IG	50 mbar	24 kg/h	1 00 023 8 1 000 2
HA-32-F-G 3/4 ÜWM x G 3/4 ÜWM	50 mbar	24 kg/h	1 00 023 8 1 100 2
HA-32-F-RVS15 x RVS15	50 mbar	24 kg/h	1 00 023 8 1 215 2
HA-32-F-RVS18 x RVS18	50 mbar	24 kg/h	1 00 023 8 1 218 2
HA-32-F-RVS22 x RVS22	50 mbar	24 kg/h	1 00 023 8 1 222 2
HA-32-F-PVS15 x PVS15	50 mbar	24 kg/h	1 00 023 8 1 515 2
HA-32-F-PVS18 x PVS15	50 mbar	24 kg/h	1 00 023 8 1 518 2
HA-32-F-PVS22 x PVS15	50 mbar	24 kg/h	1 00 023 8 1 522 2

All controller stations and house connection stations are also available with integrated flow monitor.

Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.

The gross prices are increased accordingly by the gross price of the flow monitor.

House connection

2-stage regulator plant for outdoor „f“

2nd stage house connection typ: HAGZ-30-„f“ with gas meter and low pressure regulator

Order number:

2nd stage house connection typ: HAGZ-30-„f“ with gas meter and low pressure regulator

This house connection is an outdoor system „f“ for liquid gas, where the 2nd stage regulator, the gas meter as well as the fittings of the house entrance are mounted in a surface box outside the building.

Equipment:

- including insulator
- including test connection on the inlet and outlet side
- including shut-off valves on the inlet and outlet side
- including single-tube A4 and mounting plate
- including 2nd stage low pressure regulator NDR-320
- including fastening material
- mounted in the hot-dip galvanised house connection box AP-3 (H/W/D: 490 x 490 x 235 mm)
- the house connection box is supplied with a removable bonnet and a base plate, thus ensuring easy installation
- optionally available with gas flow monitor
- Input and output connection also others on request



2nd stage house connection typ: HAGZ-30-„f“ with gas meter and low pressure regulator

(Outdoor system mounted in the house connection box)

HAGZ-30-F-Rp 1/2 IG x Rp 1/2 IG	50 mbar	24 kg/h	1 00 033 8 1 000 5
HAGZ-30-F-G 3/4 ÜWM x G 3/4 ÜWM	50 mbar	24 kg/h	1 00 033 8 1 100 5
HAGZ-30-F-RVS15 x RVS15	50 mbar	24 kg/h	1 00 033 8 1 215 5
HAGZ-30-F-RVS18 x RVS18	50 mbar	24 kg/h	1 00 033 8 1 218 5
HAGZ-30-F-RVS22 x RVS22	50 mbar	24 kg/h	1 00 033 8 1 222 5
HAGZ-30-F-PVS15 x PVS15	50 mbar	24 kg/h	1 00 033 8 1 515 5
HAGZ-30-F-PVS18 x PVS18	50 mbar	24 kg/h	1 00 033 8 1 518 5
HAGZ-30-F-PVS22 x PVS22	50 mbar	24 kg/h	1 00 033 8 1 522 5

All controller stations and house connection stations are also available with integrated flow monitor.

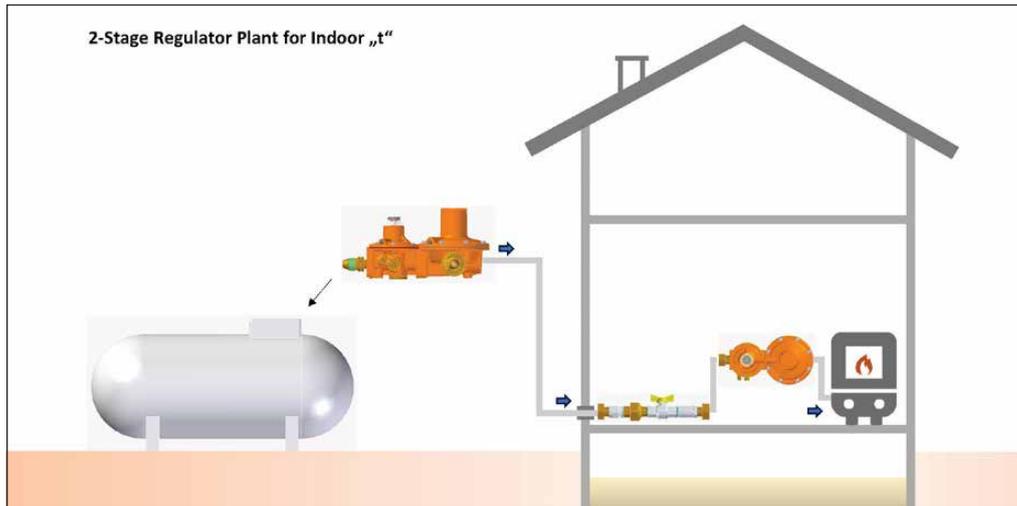
Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number.

The gross prices are increased accordingly by the gross price of the flow monitor.

Classification

2-Stage Regulator Plant for Indoor „t“

Application example



**A 1st-stage medium pressure regulator, mounted directly on the tank of liquefied gas.
A 2nd-stage low pressure regulator with a safety diaphragm, gas flow monitor (GS), thermal equipment trips, and a main shut-off device on the mounting plate for indoor systems „t“.**

Example:

The medium pressure regulator MDR-315 or the MDR-316 (with emergency supply) is connected directly to the tank of liquefied gas. Then, the low pressure regulator NDR-520 (with safety diaphragm, gas flow monitor, thermal equipment trips and main shut-off device) is mounted on a plate in the building **after** the house inlet.

Regulator

2-stage regulator plant for indoor „t“

1st stage medium pressure regulator typ: MDR-315 / 316

Order number:

Mitteldruckregler 1. Stufe Typ: MDR-315 / 316

The medium pressure regulator 315 is a 1st stage pressure regulator for liquefied gas which reduces the unregulated pressure from the liquefied gas container to 0.75 bar outlet pressure. A **safety shut-off valve (OPSO 1.0 bar)** and a **safety relief valve (PRV 1.4 bar)** are mounted on the regulator as safety-related equipment.

The medium pressure regulator 316 is **additionally equipped** with an **emergency supply connection (NV-1)**.

Technical data:

- Inlet pressure: 1.75-16 bar
- Capacity: 40 kg/h (propane)
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Outlet pressure: 0.75 bar or other on request
- Overpressure safety shut-off valve (OPSO): 1.0 bar or other on request
- Overpressure safety relief valve (PRV): 1.4 bar or another on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or other on request
- Operating temperature: -40°C to +80°C



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1st stage medium pressure regulator typ: MDR-315

MDR-315-Pol x G 1/2 IG	0.75 bar	40 kg/h	1 00 315 8 5 000 0
MDR-315-Pol x G 3/4 ÜWM	0.75 bar	40 kg/h	1 00 315 8 5 100 0
MDR-315-Pol x RVS15	0.75 bar	40 kg/h	1 00 315 8 5 215 0
MDR-315-Pol x RVS18	0.75 bar	40 kg/h	1 00 315 8 5 218 0
MDR-315-Pol x RVS22	0.75 bar	40 kg/h	1 00 315 8 5 222 0
MDR-315-Pol x PVS15	0.75 bar	40 kg/h	1 00 315 8 5 515 0
MDR-315-Pol x PVS18	0.75 bar	40 kg/h	1 00 315 8 5 518 0
MDR-315-Pol x PVS22	0.75 bar	40 kg/h	1 00 315 8 5 522 0

1st stage medium pressure regulator typ: MDR-316

(additionally equipped with an emergency supply connection)

MDR-316-Pol x G 1/2 IG-NV-1	0.75 bar	40 kg/h	1 00 316 8 5 000 0
MDR-316-Pol x G 3/4 ÜWM-NV-1	0.75 bar	40 kg/h	1 00 316 8 5 100 4
MDR-316-Pol x PVS15-NV-1	0.75 bar	40 kg/h	1 00 316 8 5 515 0
MDR-316-Pol x PVS18-NV-1	0.75 bar	40 kg/h	1 00 316 8 5 518 0
MDR-316-Pol x PVS22-NV-1	0.75 bar	40 kg/h	1 00 316 8 5 522 0

Equipment:

Emergency supply adapter NV-1			1 00 091 14 038 0
Ventilation set for medium pressure regulator for installation with underground LPG tank			9 03 310 8 5 000 1
Installation set for container controller	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 0
Installation set for container controller with insect screen	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 1
Installation set for CE-container	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 0
Installation set for CE-container with insect screen	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 1

Regulator

2-stage regulator plant for indoor „t“

2nd stage low pressure regulator NDR-520

Order number:

2nd stage low pressure regulator NDR-520

The low pressure regulator 520 is a 2nd stage pressure regulator for liquid gas, which reduces the regulated pressure from the 1st stage pressure regulator to a set outlet pressure. As safety-related equipment, the regulator is equipped with a safety shut-off valve (OPSO) and a safety diaphragm. The low-pressure regulator is supplied with a pre-assembled thermal armature protection (TAS). The safety diaphragm means **that no blow-off line to the outside** is required.

Technical data:

- Inlet pressure: 0.5 - 4 bar
- Inlet connection: G 1/2" IG or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 12 kg/h (propane)
- Outlet pressure: 50 mbar or other on request
- Overpressure safety shut-off valve (OPSO): 132 mbar or other on request
- Thermal equipment trips (TAS) already pre-assembled
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or others on request
- Operating temperature: -40°C to +80°C

2nd stage low pressure regulator NDR-520

NDR-520-TAS-G 1/2 IG x G 1/2 IG	50 mbar	12 kg/h	1 00 520 9 5 000 0
NDR-520-TAS-G 3/4 ÜWM x G 3/4 ÜWM	50 mbar	12 kg/h	1 00 520 9 5 100 0
NDR-520-TAS-RVS15 x RVS15	50 mbar	12 kg/h	1 00 520 9 5 215 0
NDR-520-TAS-RVS18 x RVS18	50 mbar	12 kg/h	1 00 520 9 5 218 0
NDR-520-TAS-RVS22 x RVS22	50 mbar	12 kg/h	1 00 520 9 5 222 0
NDR-520-TAS-PVS15 x PVS15	50 mbar	12 kg/h	1 00 520 9 5 515 0
NDR-520-TAS-PVS18 x PVS18	50 mbar	12 kg/h	1 00 520 9 5 518 0
NDR-520-TAS-PVS22 x PVS22	50 mbar	12 kg/h	1 00 520 9 5 522 0



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House connection

2-stage regulator plant for outdoor „f“

2nd stage house connection typ HA-50-„t“ with low pressure regulator

Order number:

Hausanschluss Typ: HA-50-„t“

This house connection is an indoor system „t“ for liquid gas, in which the 2nd stage regulator and the fittings of the house entrance are mounted inside the building by means of a mounting plate. Due to the **safety diaphragm** of the 2nd stage regulator, **no blow-off line needs to be led outside**. The upstream pressure regulator is a 1st stage regulator with a nominal outlet pressure of 0.75 bar.

Equipment:

- including thermal equipment trips (TAS)
- including insulating piece
- including shut-off valve
- including mounting plate MP-2 (H/W: 55 x 120 mm)
- including low pressure regulator type: NDR-520 with safety diaphragm
- optionally available with gas flow monitor
- Input and output connection also others on request

2nd stage house connection typ HA-50-„t“ with low pressure regulator

(Indoor system with safety diaphragm mounted on a mounting plate MP-2)

HA-50-T-Rp 1/2 IG x G 1/2 IG	50 mbar	12 kg/h	1 00 025 9 3 000 0
HA-50-T-G 3/4 ÜWM x G 3/4 ÜWM	50 mbar	12 kg/h	1 00 025 9 3 100 0
HA-50-T-RVS15 x RVS15	50 mbar	12 kg/h	1 00 025 9 3 215 0
HA-50-T-RVS18 x RVS18	50 mbar	12 kg/h	1 00 025 9 3 218 0
HA-50-T-RVS22 x RVS22	50 mbar	12 kg/h	1 00 025 9 3 222 0
HA-50-T-PVS15 x PVS15	50 mbar	12 kg/h	1 00 025 9 3 515 0
HA-50-T-PVS18 x PVS18	50 mbar	12 kg/h	1 00 025 9 3 518 0
HA-50-T-PVS22 x PVS22	50 mbar	12 kg/h	1 00 025 9 3 522 0

All controller stations and house connection stations are also available with integrated flow monitor. Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number. The gross prices are increased accordingly by the gross price of the flow monitor.



2nd stage house connection typ HAGZ-50-„t“ with gas and low pressure regulator with safety diaphragm

Order number:

2nd stage house connection typ HAGZ-50-„t“ with gas and low pressure regulator with safety diaphragm

This house connection is an indoor system „t“ for liquid gas in which the 2nd stage regulator, the gas meter and the fittings of the house entrance are mounted on a mounting plate inside the building. Due to the **safety diaphragm** of the 2nd stage regulator, **no blow-off line** needs to be led outside.

Equipment:

- including thermal equipment trips (TAS)
- including insulating piece
- including test connection on the inlet and outlet side
- including shut-off valves on the inlet and outlet side
- including low pressure regulator type: NDR-520 with safety diaphragm
- including gas meter with mounting plate
- including fixing material
- mounted on a hot-dip galvanised mounting plate MP-1 (H/W: 460 x 460 mm)
- optionally available with gas flow monitor GS
- inlet and outlet connection also other on request

2nd stage house connection typ HAGZ-50-„t“ with gas and low pressure regulator with safety diaphragm

(Indoor system with safety diaphragm and gas meter mounted on a mounting plate MP-1)

HAGZ-50-T-G 3/4 ÜWM	50 mbar	12 kg/h	1 00 035 9 3 100 5
HAGZ-50-T-RVS15 x RVS15	50 mbar	12 kg/h	1 00 035 9 3 215 5
HAGZ-50-T-RVS18 x RVS18	50 mbar	12 kg/h	1 00 035 9 3 218 5
HAGZ-50-T-RVS22 x RVS22	50 mbar	12 kg/h	1 00 035 9 3 222 5
HAGZ-50-T-PVS15 x PVS15	50 mbar	12 kg/h	1 00 035 9 3 515 5
HAGZ-50-T-PVS18 x PVS18	50 mbar	12 kg/h	1 00 035 9 3 518 5
HAGZ-50-T-PVS22 x PVS22	50 mbar	12 kg/h	1 00 035 9 3 522 5

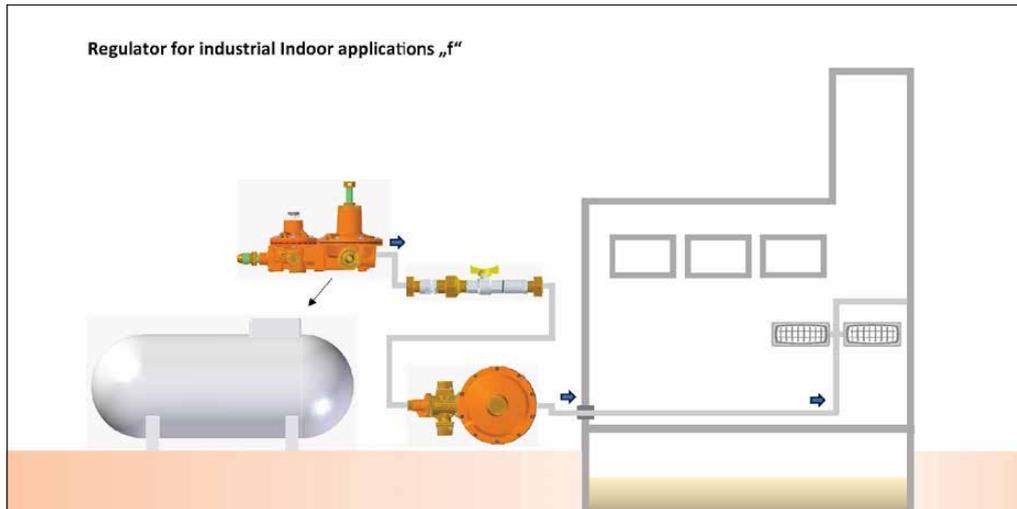
All controller stations and house connection stations are also available with integrated flow monitor. Please add 16 for GS1.6, 25 for GS2.5 or 40 for GS4 to the order number. The gross prices are increased accordingly by the gross price of the flow monitor.



Classification

Regulator for industrial applications

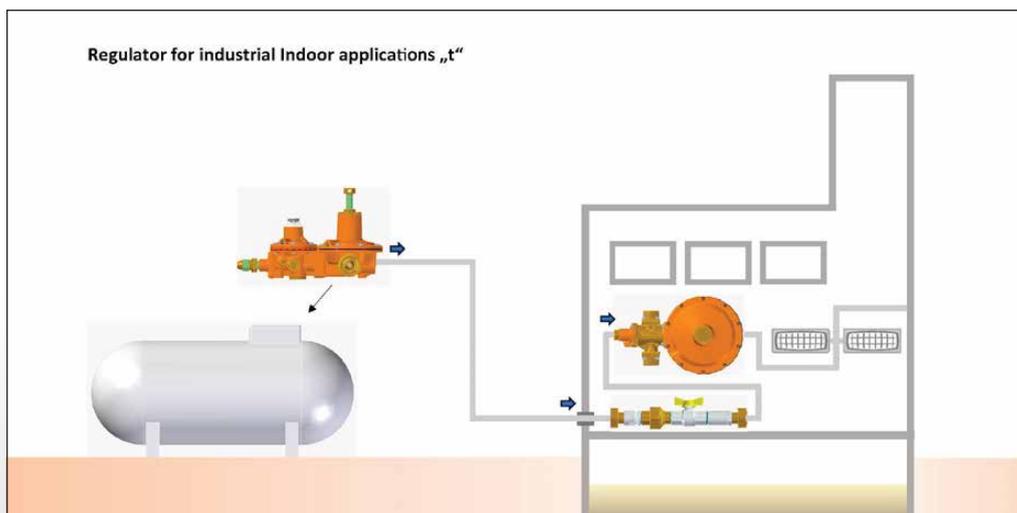
Application example



**A 1st-stage medium pressure regulator, mounted (for example) directly onto the LPG tank.
A 2nd-stage low pressure regulator installed outdoors „f“.**

Example:

The medium pressure regulator MDR-815 is connected directly to the tank of liquefied gas. The low pressure regulator NDR-822 and the main shut-off device are mounted in the house connection box, which is placed outside the building, in **front** of the house inlet.



**A 1st-stage medium pressure regulator, mounted (for example) directly onto the LPG tank.
A 2nd-stage low-pressure regulator for indoor systems „t“.**

Example:

The MDR-815 medium pressure regulator is connected directly to the tank of liquefied gas. The main shut-off device is mounted in the house connection box, outside the building, in front of the house inlet. The low pressure regulator NDR-822 (with safety diaphragm and thermal equipment trips) is mounted in the building, **after** the gas passes the house inlet system.

Regulator

For industrial applications

1st stage medium pressure regulator typ: MDR-810 / 811

Order number:

1st stage medium pressure regulator typ: MDR-810 / 811

The medium pressure regulator type 810 is a 1st stage pressure regulator which reduces the unregulated pressure from the liquid gas container to 1.5 bar outlet pressure.
A safety shut-off valve (OPSO) and a safety relief valve (PRV) are fitted to the pressure regulator as safety-related equipment.
The medium pressure regulator 811 is **additionally equipped** with an **emergency supply connection (NV-1)**.

Technical data:

- Inlet pressure: 3-16 bar
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 40 kg/h (propane)
- Outlet pressure: 1.5 bar or other on request
- Overpressure safety shut-off valve (OPSO): 2.3 bar or other on request
- Overpressure safety relief valve (PRV): 2.6 bar or other on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or other on request
- Operating temperature: -40°C to +80°C

1st stage medium pressure regulator MDR-810

MDR-810-Pol x G 1/2 IG	1.5 bar	40 kg/h	1 00 810 8 5 000 0
MDR-810-Pol x G 3/4 ÜWM	1.5 bar	40 kg/h	1 00 810 8 5 100 0
MDR-810-Pol x RVS15	1.5 bar	40 kg/h	1 00 810 8 5 215 0
MDR-810-Pol x RVS18	1.5 bar	40 kg/h	1 00 810 8 5 218 0
MDR-810-Pol x RVS22	1.5 bar	40 kg/h	1 00 810 8 5 222 0
MDR-810-Pol x PVS15	1.5 bar	40 kg/h	1 00 810 8 5 515 0
MDR-810-Pol x PVS18	1.5 bar	40 kg/h	1 00 810 8 5 518 0
MDR-810-Pol x PVS22	1.5 bar	40 kg/h	1 00 810 8 5 522 0

1st stage medium pressure regulator MDR-811

(additionally equipped with an emergency supply connection)

MDR-811-Pol x G 1/2 IG-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 000 0
MDR-811-Pol x G 3/4 ÜWM-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 100 0
MDR-811-Pol x RVS15-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 215 0
MDR-811-Pol x RVS18-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 218 0
MDR-811-Pol x RVS22-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 222 0
MDR-811-Pol x PVS15-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 515 0
MDR-811-Pol x PVS18-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 518 0
MDR-811-Pol x PVS22-NV-1	1.5 bar	40 kg/h	1 00 811 8 5 522 0

Equipment:

Emergency supply adapter NV-1			1 00 091 14 038 0
Ventilation set for medium pressure regulator for installation with underground LPG tank			9 03 310 8 5 000 1
Installation set for container controller	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 0
Installation set for container controller with insect screen	incl. MP-3 and set screws H: 150 mm		1 00 020 93 150 1
Installation set for CE-container	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 0
Installation set for CE-container with insect screen	incl. MP-3 and set screws H: 300 mm		1 00 020 93 300 1



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Regulator

For industrial applications

1st stage medium pressure regulator typ: MDR-815

Order number:

1st stage medium pressure regulator typ: MDR-815

The medium pressure regulator 815 is a 1st stage pressure regulator for LPG, which reduces the unregulated pressure from the LPG container to 0.75 – 2.5 bar outlet pressure. A safety shut-off valve (OPSO) and a safety relief valve (PRV) are fitted to the regulator as safety-related equipment.

Now New! A spring set which allows the output pressure to be adjusted from 2.5 - 4.0 bar.

Technical data:

- Inlet pressure: 1.75-16 bar
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 40-60 kg/h (propane)
- Outlet pressure: 0.75-2.5 bar or others on request - with alternative spring set: 2.5 - 4.0 bar
- Overpressure safety shut-off valve (OPSO): 1.0-3.2 bar or others on request - with alternative spring set: 3.8 - 4.7 bar
- Overpressure safety relief valve (PRV): 1.4-3.5 bar or others on request - with alternative spring set: 4.0 - 4.9 bar
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural Gas
- Operating temperature: -40°C to +80°C

1st stage medium pressure regulator typ: MDR-815

MDR-815-07-Pol x G 1/2 IG	0.75 bar	40 kg/h	1 00 815 07 012 1
MDR-815-07-G 1/2 IG x G 1/2 IG	0.75 bar	40 kg/h	1 00 815 07 012 2
MDR-815-07-G 3/4 IG x G 1/2 IG	0.75 bar	40 kg/h	1 00 815 07 012 3
MDR-815-10-Pol x G 1/2 IG	1.0 bar	40 kg/h	1 00 815 10 012 1
MDR-815-10-G 1/2 IG x G 1/2 IG	1.0 bar	40 kg/h	1 00 815 10 012 2
MDR-815-10-G 3/4 IG x G 1/2 IG	1.0 bar	40 kg/h	1 00 815 10 012 3
MDR-815-15-Pol x G 1/2 IG	1.5 bar	40 kg/h	1 00 815 15 012 1
MDR-815-15-G 1/2 IG x G 1/2 IG	1.5 bar	40 kg/h	1 00 815 15 012 2
MDR-815-15-G 3/4 IG x G 1/2 IG	1.5 bar	40 kg/h	1 00 815 15 012 3
MDR-815-20-Pol x G 1/2 IG	2.0 bar	50 kg/h	1 00 815 20 012 1
MDR-815-20-G 1/2 IG x G 1/2 IG	2.0 bar	50 kg/h	1 00 815 20 012 2
MDR-815-20-G 3/4 IG x G 1/2 IG	2.0 bar	50 kg/h	1 00 815 20 012 3
MDR-815-25-Pol x G 1/2 IG	2.5 bar	60 kg/h	1 00 815 25 012 1
MDR-815-25-G 1/2 IG x G 1/2 IG	2.5 bar	60 kg/h	1 00 815 25 012 2
MDR-815-25-G 3/4 IG x G 1/2 IG	2.5 bar	60 kg/h	1 00 815 25 012 3

Equipment:

Ventilation set for medium pressure regulator for installation with underground LPG tank		9 03 310 8 5 000 1
Installation set for container controller	incl. MP-3 and set screws H: 150 mm	1 00 020 93 150 0
Installation set for container controller with insect screen	incl. MP-3 and set screws H: 150 mm	1 00 020 93 150 1
Installation set for CE-container	incl. MP-3 and set screws H: 300 mm	1 00 020 93 300 0
Installation set for CE-container with insect screen	incl. MP-3 and set screws H: 300 mm	1 00 020 93 300 1



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Regulator

For industrial applications

1st stage medium pressure regulator typ: MDR-816 / 817

Order number:



1st stage medium pressure regulator typ: MDR-816 / 817

The medium pressure regulators 816 and 817 are 1st stage pressure regulators for liquefied gas, which reduce the unregulated pressure from the liquefied gas container to 0.75 bar (MDR-816) or 1.5 bar (MDR-817) outlet pressure.

Now New! An MDR-817 with an adjustable outlet pressure of 2.5 - 4.0 bar

Technical data:

- Inlet pressure: 1.5-16 bar
- Inlet connection: G 1" IG or others on request
- Outlet connection: G 1" IG or others on request
- **Capacity MDR-816: 100 kg/h (propane)**
Outlet pressure: 0.75 bar or other on request
Overpressure safety shut-off valve (OPSO): 1.2 bar or other on request
Overpressure safety relief valve (PRV): 1.4 bar or other on request
- **Capacity MDR-817: 150 kg/h (propane)**
Outlet pressure: 1.5 bar or other on request with alternative MDR-817: 2.5 - 4.0 bar
Overpressure safety shut-off valve (OPSO): 2.2 bar or other on request with alternative MDR-817: 3.5 - 4.7 bar
Overpressure safety relief valve (PRV): 2.5 bar or other on request
- Weight: 5 kg
- Gas: LPG/LNG
- Operating temperature: -40°C to +80°C

1st stage medium pressure regulator typ: MDR-816

MDR-816-flange x flange DN25	0.75 bar	100 kg/h	1 00 816 8 5 000 1
MDR-816-G 1 IG x G 1 IG	0.75 bar	100 kg/h	1 00 816 8 5 000 0
MDR-816-RVS28	0.75 bar	100 kg/h	1 00 816 8 5 228 0

1st stage medium pressure regulator typ: MDR-816

MDR-817-flange x flange DN25	1.5 bar	150 kg/h	1 00 817 8 5 000 1
MDR-817-G 1 IG x G 1 IG	1.5 bar	150 kg/h	1 00 817 8 5 000 0
MDR-817-RVS28	1.5 bar	150 kg/h	1 00 817 8 5 228 0
MDR-817-G 1 IG x G 1 IG NEW	4.0 bar	150 kg/h	1 00 817 8 5 004 0
MDR-817-RVS28 x RVS28 NEW	4.0 bar	150 kg/h	1 00 817 8 5 228 4



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Regulator

For industrial applications

2nd stage low pressure regulator NDR-820-824 with OPSO and PRV

Order number:

2nd stage low pressure regulator NDR-820-824 with OPSO and PRV

The low pressure regulators type 820-824 are 2nd stage pressure regulators for LPG, which reduce the regulated pressure from the 1st stage pressure regulator to a set outlet pressure. A **safety shut-off valve (OPSO)** and a **safety relief valve (PRV)** are fitted to the pressure regulators as safety-related equipment.

Technical data:

- Inlet pressure: 1-4 bar
- Inlet connection: G 1" IG or others on request
- Outlet connection: G 1" IG or others on request
- Capacity: 60-150 kg/h depending on model (propane)
- Outlet pressure: 29, 37, 50, 67, 100 mbar or others on request
- Overpressure safety shut-off valve (OPSO): 70-150 mbar or others on request
- Overpressure safety relief valve (PRV): 120-190 mbar or others on request
- Weight: 5 kg
- Gas: LPG/LNG/Propane/Butane/Natural Gas
- Operating temperature: -40°C to +80°C



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2nd stage low pressure regulator NDR-820-824

NDR-820-G 1 IG x G 1 IG-OPSO-PRV	29 mbar	60 - 80 kg/h	1 00 820 8 5 000 0
NDR-821-G 1 IG x G 1 IG-OPSO-PRV	37 mbar	60 - 80 kg/h	1 00 821 8 5 000 0
NDR-822-G 1 IG x G 1 IG-OPSO-PRV	50 mbar	60 - 80 kg/h	1 00 822 8 5 000 0
NDR-823-G 1 IG x G 1 IG-OPSO-PRV	67 mbar	60 - 80 kg/h	1 00 823 8 5 001 0
NDR-824-G 1 IG x G 1 IG-OPSO-PRV	100 mbar	60 - 80 kg/h	1 00 824 8 5 000 0
NDR-820-G 1 IG x G 1 IG-OPSO-PRV	29 mbar	160 kg/h	1 00 820 8 5 000 1
NDR-821-G 1 IG x G 1 IG-OPSO-PRV	37 mbar	160 kg/h	1 00 821 8 5 000 1
NDR-822-G 1 IG x G 1 IG-OPSO-PRV	50 mbar	160 kg/h	1 00 822 8 5 000 1
NDR-823-G 1 IG x G 1 IG-OPSO-PRV	67 mbar	160 kg/h	1 00 823 8 5 000 1
NDR-824-G 1 IG x G 1 IG-OPSO-PRV	100 mbar	160 kg/h	1 00 824 8 5 000 1

Regulator

For industrial applications

2nd stage low pressure regulators NDR-820 to 824 with TAE, OPSO and safety diaphragm

Order number:

Niederdruckregler 2. Stufe Typ: NDR-820 bis 824 mit OPSO und Sicherheitsmembrane (AD)

The low pressure regulators type 820-824 are 2nd stage pressure regulators for LPG, which reduce the regulated pressure from the 1st stage pressure regulator to a set outlet pressure. A safety shut-off valve (OPSO) and a safety diaphragm are fitted to the pressure regulators as safety-related equipment.

The NDR-820 to 824 are supplied **with a** pre-mounted **thermal equipment trips (TAS)**. The safety diaphragm means that no blow-off line to the outside is required.

NOTE: 150 kg/h output can only be achieved at an inlet pressure of 4.0 bar!

Technical data:

- Inlet pressure: 2-4 bar
- Inlet connection: G 1" IG or others on request
- Outlet connection: G 1" IG or others on request
- Capacity: 60-80 kg/h or 150 kg/h depending on model (propane)
- Outlet pressure: 29, 37, 50, 67, 100 mbar or others on request
- Overpressure safety shut-off valve (OPSO): 70-150 mbar or others on request
- Safety diaphragm
- Thermal equipment trips (TAS) already pre-assembled
- Weight: 5 kg
- Gas: LPG/LNG/Propane/Butane/Natural Gas
- Operating temperature: -40°C to +80°C



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2nd stage low pressure regulators NDR-820 to 824 with TAE, OPSO and safety diaphragm

NDR-820-G 1 IG x G 1 IG-OPSO-AD-TAS	29 mbar	60 - 80 kg/h	1 00 820 9 5 001 0
NDR-821-G 1 IG x G 1 IG-OPSO-AD-TAS	37 mbar	60 - 80 kg/h	1 00 821 9 5 001 0
NDR-822-G 1 IG x G 1 IG-OPSO-AD-TAS	50 mbar	60 - 80 kg/h	1 00 822 9 5 001 0
NDR-823-G 1 IG x G 1 IG-OPSO-AD-TAS	67 mbar	60 - 80 kg/h	1 00 823 9 5 001 0
NDR-824-G 1 IG x G 1 IG-OPSO-AD-TAS	100 mbar	60 - 80 kg/h	1 00 824 9 5 001 0
NDR-820-G 1 IG x G 1 IG-OPSO-AD-TAS	29 mbar	160 kg/h	1 00 820 9 5 001 1
NDR-821-G 1 IG x G 1 IG-OPSO-AD-TAS	37 mbar	160 kg/h	1 00 821 9 5 001 1
NDR-822-G 1 IG x G 1 IG-OPSO-AD-TAS	50 mbar	160 kg/h	1 00 822 9 5 001 1
NDR-823-G 1 IG x G 1 IG-OPSO-AD-TAS	67 mbar	160 kg/h	1 00 823 9 5 001 1
NDR-824-G 1 IG x G 1 IG-OPSO-AD-TAS	100 mbar	160 kg/h	1 00 824 9 5 001 1

Regulator

For industrial applications

1st stage medium pressure regulator typ MDR-858

Order number:

1st stage medium pressure regulator typ MDR-858

The medium pressure regulator 858 is a 1st stage pressure regulator for LPG which reduces the outlet pressure to 1.0 – 4.0 bar. Type 859 features a fixed outlet pressure and type 858 an adjustable outlet pressure.

Technical data:

- DVGW approved: According to EN 16129/ CE according to 2016/426/EG
- Inlet pressure: 1 – 16 bar
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 10 kg/h (propane)
- Outlet pressure: 1 – 4 bar
- Overpressure safety shut-off valve (OPSO): 1.4 – 4.7 bar
- Overpressure safety relief valve (PRV Optional): 1.7 – 4.9 bar
- Weight: 1 kg
- Gas: LPG/LNG/Propane/Butane/Natural Gas or others on request
- Working temperature: -40°C to +50°C



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1st stage medium pressure regulator typ MDR-858 (Adjustable outlet pressure)

MDR-858-Pol x G 1/2 IG - adjustable	1.0 - 4.0 bar	10 kg/h	1 00 858 8 5 000 0
MDR-858-G 1/2 IG x G 1/2 IG - adjustable	1.0 - 4.0 bar	10 kg/h	1 00 858 8 5 000 1
MDR-858-G 1/2 IG x G 1/2 IG - adjustable without PRV	1.0 - 4.0 bar	10 kg/h	1 00 858 8 5 000 2
MDR-858-G 1 IG x G 1 IG - adjustable	1.0 - 4.0 bar	10 kg/h	1 00 858 8 5 000 3
MDR-858-G 1 IG x G 1 IG - adjustable without PRV	1.0 - 4.0 bar	10 kg/h	1 00 858 8 5 000 4

Accessories:

Emergency supply adapter NV-1			1 00 091 14 038 0
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Single-stage regulators typ: MDR-057 / 058

Order number:

Single-stage regulators typ: MDR-057 / 058

The pressure regulators type 057 and 058 are single-stage regulators that offer a wide range of applications. The regulators can be integrated into all systems that require a regulated pressure. They can regulate an inlet pressure of up to 16 bar to a nominal pressure of 0.8 up to 4.0 bar.

Type 057 features a fixed outlet pressure and type 058 an adjustable outlet pressure. Both regulators are delivered without OPSO and PRV. On request, both can of course be supplied pre-assembled.

Technical data:

- DVGW approval: according to EN 16129 / CE marking according to 2016/426/EC
- Inlet pressure: 1.8 – 16 bar
- Inlet connection: G 1/4", G 3/8", G 1/2", G 3/4" or others on request
- Outlet connection: G 1/4", G 3/8", G 1/2", G 3/4" or others on request
- Capacity: 24 kg/h (propane)
- Outlet pressure: 0.8 – 4 bar
- Weight: 1 kg
- Gas: LPG / LNG / propane / butane / natural gas or others on request
- Operating temperature: -40°C to +50°C



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Single-stage regulator typ: MDR-057 (Fixed adjustable outlet pressure)

MDR-057-Flange x Flange without OPSO and PRV	0.8 - 4.0 bar	24 kg/h	9 09 057B0007
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Single-stage regulator typ: MDR-058 (Adjustable outlet pressure)

MDR-058-FLA x FLA without OPSO and PRV – adjustable	0.8 - 4.0 bar	24 kg/h	9 09 058B0008
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Regulator

For industrial applications

1st stage pressure regulators typ: MDR-457 / 458

Order number:



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2nd stage low pressure regulator NDR-820-824 with OPSO and PRV

The medium pressure regulators 457 and 458 are 1st stage pressure regulators for LPG which reduce the outlet pressure to 0.8 – 4.0 bar. Type 457 features a fixed outlet pressure and type 458 an adjustable outlet pressure.

Technical data:

- DVGW approved: According to EN 16129/ CE approved according to 2016/426/EG
- Inlet pressure: 1.8 – 16 bar
- Inlet connection: Pole or others on request
- Outlet connection: G 1/2" IG or others on request
- Capacity: 24 kg/h (propane)
- Outlet pressure: 0.8 – 4 bar
- Overpressure safety shut-off valve (OPSO): 1.1 – 4.7 bar
- Pressure relief valve (PRV): 1.4 – 4.9 bar
- Weight: 1 kg
- Gas: LPG/LNG/Propane/Butane/Natural Gas or others on request
- Operating temperature: -40°C to +50°C

1st stage pressure regulator typ: MDR-457 (Fixed adjustable outlet pressure)

MDR-457-G 1/2 IG x G 1/2 IG	0.8 - 4.0 bar	24 Kg/h	9 09 457H0003
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1st stage pressure regulator typ: MDR-458 (Adjustable outlet pressure)

MDR-458-G 1/2 IG x G 1/2 IG – adjustable	0.8 - 4.0 bar	24 Kg/h	9 09 458H0004
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Single-stage regulator typ: MDR-070 / 071

Order number:



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Single-stage regulator typ: MDR-070 / 071

The pressure regulators type 070 and 071 are single-stage regulators with a hose connection on one side, which offer a wide range of applications. The regulators can be integrated into all systems that require a regulated pressure.

They can regulate an inlet pressure of up to 16 bar to a nominal pressure of 0.8 up to 4.0 bar.

Type 070 has a fixed outlet pressure and type 071 an adjustable outlet pressure, both regulators are delivered without OPSO and PRV.

Technical data:

- DVGW approval: according to EN 16129 / CE marking according to 2016/426/EG
- Inlet pressure: 1.8-16 bar
- Inlet connection: Pole, hose connection or others on request
- Outlet connection: Hose connection or others on request
- Capacity: 24 kg/h (propane)
- Outlet pressure: 0.8-4 bar
- Weight: 1 kg
- Gas: LPG / LNG / propane / butane / natural gas or others on request
- Operating temperature: -40°C to +50°C

Single-stage regulator typ: MDR-070 (Fixed adjustable outlet pressure)

MDR-070-G 1/2 IG x SLA	0.8 - 4.0 bar	24 kg/h	9 09 070H0017
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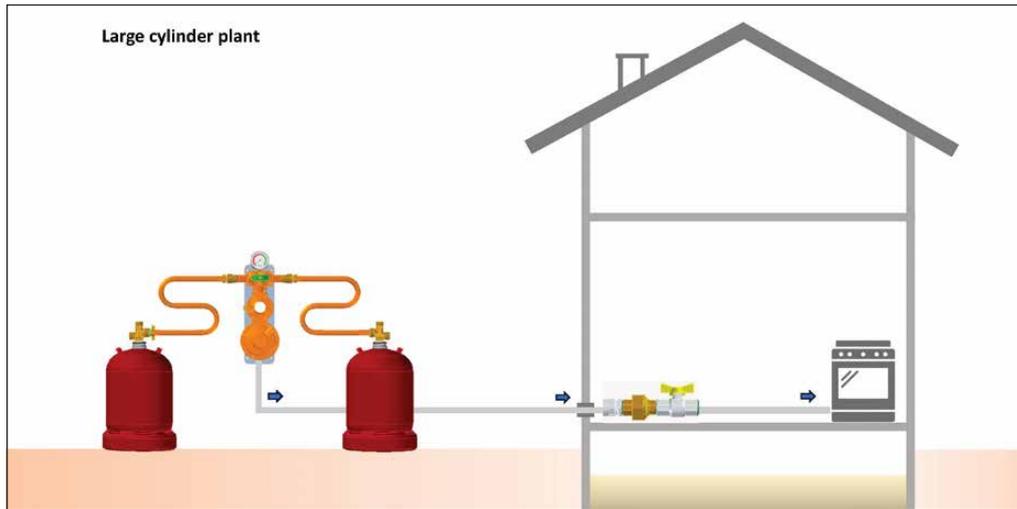
Single-stage regulator typ: MDR-071 (Adjustable outlet pressure)

MDR-071-G 1/2 IG x SLA - adjustable	0.8 - 4.0 bar	24 kg/h	9 09 071H0017
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Classification

Large cylinder plant

Application example



Single Cylinder Systems:

A large cylinder regulator (50 mbar) with a gas flow monitor (GS) and a medium pressure line-mounted hose.

Example:

The GFR-404 large cylinder regulator is connected directly to a 33 kg gas cylinder with a gas-flow monitor and a medium pressure hose line. The main shut-off device is mounted in front of the consumer unit.

Multi-Cylinder System:

An automatic change-over device is additionally fitted with the medium pressure or low pressure regulator, a gas flow monitor (GS) and a medium pressure hose line.

Example:

The AUV-056 automatic change-over device is connected directly to two, four, six, or eight gas cylinders (each 33 kg) with a medium pressure or low pressure regulator, a gas flow monitor, and medium pressure hose line. The main shut-off device is mounted in front of the consumer appliance.

Cylinder system with automatic changeover valve

Large cylinder plant

Automatic changeover valve 056

Order number:



Automatisches Umschaltventil 056

The automatic changeover valve can operate 2 gas cylinders at the same time, this regulates the inlet pressure of the cylinder to the correspondingly set outlet pressure. The advantage of this changeover valve is that a **cylinder change is possible without interrupting operation.**

Notes:

The automatic switching valve can be combined with our pressure regulators such as the NDR-320.

Technical Data:

- DVGW approval: according to EN 16129 / CE marking according to 2016/426/EC
- Inlet connection: M 18x1.25 female, G 3/8 LH female, G 3/8 RH female or others on request
- Outlet connection: G 1/4, G 3/8, G 1/2, G 3/4 or others on request
- Weight: Weight approx. 1.6 kg
- Gas: LPG / LNG / propane / butane / natural gas or others on request
- Operating temperature: -40°C to +50°C
- **056-1 (Green lever)**
Inlet pressure: 1.4-12 bar
Operating pressure: 0.9 bar
Reserve pressure: 0,4 bar
Capacity: 4 kg/h
- **056-2 (Orange lever)**
Inlet pressure: 2-12 bar
Operating pressure: 1.6 bar
Reserve pressure: 1.0 bar
Capacity: 6 kg/h
- **056-3 (Black lever)**
Inlet pressure: 2.4-12 bar
Operating pressure: 2 bar
Reserve pressure: 1.4 bar
Capacity: 12 kg/h
- **056-4 (Red lever)**
Inlet pressure: 2.8-12 bar
Operating pressure: 2.5 bar
Reserve pressure: 1.8 bar
Capacity: 12 kg/h

Automatic changeover valve 056

Automatic changeover valve 056-1 for 2 cylinders	0.9 bar	4 kg/h	1 00 056H0100
Automatic changeover valve 056-2 for 2 cylinders	1.6 bar	6 kg/h	1 00 056H0200
Automatic changeover valve 056-3 for 2 cylinders	2.0 bar	12 kg/h	1 00 056H0300
Automatic changeover valve 056-4 for 2 cylinders	2.5 bar	12 kg/h	1 00 056H0400



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Regulator

Large cylinder plant

Large cylinder regulator typ: GFR 404

Order number:

Large cylinder regulator typ: GFR 404

The low pressure regulator 404 is a pressure regulator for cylinder systems for liquefied petroleum gas, which reduces the unregulated pressure from the cylinder system to a nominal outlet pressure of 50 mbar. A safety shut-off valve (OPSO) and a safety relief valve (PRV) are fitted to the regulator as safety-related equipment.

Technical data:

- DVGW approved: According to EN 16129/ CE approved according to 2016/426/EG
- Inlet pressure: 3-16 bar
- Capacity: 4 kg/h (propane)
- Overpressure safety shut-off valve (OPSO): 132 mbar or other on request
- Overpressure safety relief valve (PRV): 150 mbar or other on request
- Inlet connection: GFA or others on request
- Outlet pressure: 50 mbar or other on request
- Outlet connection: G 1/2" IG or others on request
- Weight: 2 kg
- Gas: LPG/LNG/Propane/Butane/Natural gas or other on request
- Operating temperature: -40°C to +50°C



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Large cylinder regulator typ: GFR 404

GFR-404-GFA x G 1/2 IG	50 mbar	4 kg/h	1 00 404 8 5 000 0
GFR-404-GFA x RVS 15	50 mbar	4 kg/h	1 00 404 8 5 215 0
GFR-404-GFA x RVS 18	50 mbar	4 kg/h	1 00 404 8 5 218 0
GFR-404-GFA x PVS 15	50 mbar	4 kg/h	1 00 404 8 5 515 0
GFR-404-GFA x PVS 18	50 mbar	4 kg/h	1 00 404 8 5 518 0

Notes

Information

Business address

During normal business hours Monday until Thursday 7:00am-4:00pm and Friday 7:00am-1:00pm, you can reach us at the following address:

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D-25462 Rellingen
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Fax: +49 (0)40 890616 29
E-Mail: info@mueller-gastechnik.de
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For your attention!

We reserve the right to make dimensional and design changes within the scope of technical progress without informing you specifically in each individual case. This catalogue may only be reprinted, even in part, with our express permission.

Abbreviations and units

In the application of the articles contained in the catalogue, all ordinances, rules, regulations and provisions of the liquefied gas trade are observed.

AD:	additional diaphragm
AG:	male thread
a.k.:	External tapered thread
BRK:	Container regulator combination
DN:	nominal diameter (mm)
DVGW:	German Technical and Scientific Association for Gas and Water
FLA:	Flange connection
„f“:	fitting intended for outdoor use
G:	Thread for cylindrical internal or external thread according to EN ISO 228-1
GFA:	Large cylinder connector, coupling nut W 21.8 x 1/14" lh (connector of 33 kg LPG cylinder)
GFR:	Large cylinder regulator
HTB:	Higher thermal load capacity
IG:	female thread
kg/h:	nominal flow in kilgramme per hour
LH:	Left-hand thread
MDR:	Medium pressure regulator
MS:	Brass
NBR:	elastomer material
NDR:	Low pressure Regulator
NPT:	taper pipe thread according to ANSI B.1.20.1 - 1983
OPSO:	over-pressure scut off valve
pd:	Outlet pressure
PRV:	safety pressure relief valve
PS:	maximum admitted pressure (before PN)
R:	taper male thread according to EN-10226-1
RH:	Right-Hand thread
Rp:	parallel female thread according to EN 10226-1
„t“:	fitting intended for indoor use
TAE:	Thermally triggered shut-off device „t“
TRF:	German technical regulation für LPG

Terms of delivery and payment

I. General

The following terms of delivery and payment apply to all legal transactions with our customers. Contracts shall only be concluded by us on the terms and conditions set out herein, unless we expressly accept different terms and conditions in writing. Any deviating terms and conditions of our business partners are hereby rejected. These terms and conditions shall be deemed accepted at the latest upon receipt of the goods or services.

II. Offer and conclusion of contract

- (1) Our offers shall always be non-binding and subject to confirmation, unless they contain any declarations to the contrary. An order shall only be deemed to have been accepted when it has been confirmed by us in writing or by telex. The same shall also apply to sales concluded through representatives. Additions, amendments and verbal subsidiary agreements or promises made by our employees shall also require written confirmation to be effective, unless verbal agreements have been agreed as effective in individual cases.
- (2) We reserve the copyright and ownership rights to quotations, drafts, drawings and other documents in all cases. They may neither be made accessible nor handed over to third parties without our consent. In the event that a corresponding order is not placed, we reserve the right to appropriate remuneration depending on the expenses incurred for quotation documents, estimates or similar work specially prepared at the customer's request which significantly exceed the usual scope of a quotation submission.
- (3) Illustrations, drawings, dimensions, weight specifications and colour shades in catalogues, price lists and other documents as well as samples of goods presented or provided may represent approximate values customary in the industry unless they are expressly designated as binding.
- (4) We reserve the right to make design changes provided that the function of the ordered part is not impaired thereby. However, we are not obliged to make such changes to products already delivered.

III. Prices

- (1) Unless otherwise agreed, our prices are ex works excluding packaging. The statutory value added tax applicable at the time shall be added to these prices.
- (2) The prices stated in our offers are always subject to change unless they have been expressly agreed as fixed. If no declarations to the contrary have been made, we shall only be bound to the price agreement for 30 days. In the event of cost increases due to changes in material prices or similar factors, we shall be entitled to increase prices up to the amount of the additional costs actually incurred.
- (3) The costs of packaging and shipping as well as freight costs shall be borne by the buyer, unless otherwise agreed in the individual case.

IV. Delivery periods

- (1) A delivery period is only approximate unless a fixed delivery date has been expressly agreed
- (2) The delivery period shall commence on the date of the order confirmation, but no earlier than the date on which the buyer has provided all the preliminary services required for the realisation of the order and both parties are in agreement on the terms of the transaction.
- (3) The delivery deadline shall be deemed to have been met if the goods have left the factory by the end of the agreed deadline, notification has been given that the goods are ready for dispatch or the customer has been requested to collect the goods as may have been agreed.
- (4) We are not responsible for delays in delivery and performance due to force majeure and due to events that make delivery significantly more difficult or impossible for us – this includes in particular strikes, lockouts, official orders, etc., even if they occur at our suppliers and their sub-suppliers – even in the case of bindingly agreed deadlines and dates. They entitle us to postpone the delivery or service for the duration of the impediment plus a reasonable start-up time or to withdraw from the contract in whole or in part due to the part not yet fulfilled.
If the impediment lasts longer than three months, the buyer is entitled, after setting a reasonable grace period, to withdraw from the contract with regard to the part not yet fulfilled. If the delivery time is extended or if we are released from our obligation, the business partner cannot derive any claims for damages from this. We can only invoke the aforementioned circumstances if we notify the buyer immediately.
- (5) In the event of a delay in delivery for which we are responsible, the buyer may only withdraw from the contract after the unsuccessful expiry of a reasonable grace period. If we are responsible for non-compliance with bindingly agreed deadlines and dates or if we are in default, the buyer shall be entitled to compensation for default in the amount of 1/2% for each full week of default, but in total not more than up to 5% of the invoice value of the deliveries and services affected by the default.
Any further claims are excluded unless the delay is due at least to gross negligence on our part.
- (6) We are entitled to make partial deliveries and render partial services at any time.

Terms of delivery and payment

V. Dispatch and transfer of risk

- (1) Unless otherwise agreed or special instructions have been given by the customer, the choice of the means of transport and the transport route shall be made at our discretion, without assuming liability for the cheapest, quickest and most risk-free shipment.
- (2) If the goods are not collected by the buyer himself but sent to him at his request, the risk of accidental loss and accidental deterioration of the goods shall pass to the buyer upon delivery to the shipping agent, but no later than upon leaving the factory or warehouse, irrespective of whether the shipment is made from the place of performance and who bears the freight costs. If the dispatch or collection of the goods is delayed for reasons for which the buyer is responsible, the risk shall pass to the buyer upon notification of readiness for dispatch.
- (3) For deliveries below an order value of € 75.00, we reserve the right to charge a handling surcharge of 10 – 20% of the value of the goods.

VI. Payment

- (1) Payments – also for partial deliveries – are to be made within 30 days from the date of invoice strictly net without any deductions, unless otherwise agreed in individual cases. We generally grant a 2% discount for payment within 10 days and for shipment of the goods against cash on delivery, without, however, being obliged to do so in individual cases. Deliveries can also be made dependent on immediate payment on handover or on payment in advance.
- (2) The buyer is obliged to pay invoices within the specified period to the specified account. We shall only accept discountable and properly taxed bills of exchange or cheques on account of payment if this has been expressly agreed. In the case of bills of exchange, the customary bank discount and collection charges shall be borne by our customer and are due immediately. The debt on acceptance of bills of exchange or cheques shall only be deemed to have been repaid upon final encashment.
- (3) If the buyer is in default, we shall be entitled to charge interest from the relevant date at the interest rate charged by commercial banks for open overdrafts plus the statutory value added tax. They shall be set at a lower rate if the buyer proves a lower charge.
- (4) Should circumstances become known to us after conclusion of the contract which give rise to justified doubts as to the buyer's ability to pay and creditworthiness, we can make all claims – even if bills of exchange or cheques are given – due immediately. The same applies if the buyer falls into arrears with older debts to us. In such cases, we shall also be entitled to make further deliveries only against advance payment or to withdraw from the contract altogether if the buyer does not provide any securities requested by us within a reasonable period of time.
- (5) Should the buyer permanently violate his payment obligations, we are entitled to claim damages for non-performance.
- (6) Counterclaims of the buyer may not be set off against our claims unless such counterclaims have been expressly recognised by us or have become res judicata. A right of retention of payment by the buyer is excluded, insofar as this is legally permissible.

VII. Retention of Title

- (1) The delivered goods shall remain our property until payment has been made in full. The retention of title shall also apply if there are claims from previous or future performances on our part. This also includes conditional claims. The goods subject to retention of title shall be stored by the buyer for us free of charge.
- (2) The buyer shall be entitled to resell or process the goods subject to retention of title in the normal course of business as long as he is not in default. He is not permitted to transfer ownership by way of security or to pledge the goods.
- (3) In the event that the goods subject to retention of title are combined with other items, it is hereby agreed that we shall acquire co-ownership of the new item in proportion to the value of the sales price charged to the buyer, including value added tax. The processing of the goods shall always be done for us as manufacturer without any obligations arising for us.
- (4) In the event of a resale of the goods subject to retention of title, the buyer shall assign to us his resulting claims against the third party purchaser as well as claims arising from another legal ground (insurance, tort) in the amount of the invoice amount. We already accept this assignment now. The buyer shall be entitled to collect the claim assigned to us from the third-party buyer, whereby he shall pay to us the share attributable to us in the amount of the purchase price. This authorisation to collect may only be revoked if the customer does not meet his payment obligations in an orderly manner.
- (5) At our request, the buyer is obliged to inform the third party purchaser of the assignment of the claim arising from the extended retention of title and to provide us with all the information necessary to assert our rights against the third party purchaser. We are entitled to collect the assigned claims from third-party debtors in our own name if we consider our claims to be at risk.
- (6) The buyer is obliged to notify us immediately of any access or any other impairment of our rights by third parties to the goods subject to retention of title or the claims assigned to us or any other impairment of our rights and to support us in every way against the third party.
- (7) The buyer shall bear the costs incurred for all necessary measures to secure our property. In the event of breach of contract by the buyer – in particular default of payment – we shall be entitled to take back the goods subject to retention of title or, if applicable, to demand assignment of the buyer's claims for return against third parties. Our taking back or seizure of the goods subject to retention of title shall not constitute a withdrawal from the contract, unless the German Installment Purchase Act applies.

Terms of delivery and payment

VIII. Liability for defects

- (1) The buyer shall notify us in writing of any complaints due to incomplete or incorrect delivery, defective goods or the absence of warranted properties of the delivery item immediately upon receipt of the goods, unless the delivered goods obviously deviate from the order to such an extent that we must consider the buyer's approval to be excluded. Otherwise, the delivery shall be deemed approved and accepted. If, despite careful inspection of incoming goods, concealed defects are not immediately detected, these must be brought to our attention immediately after discovery.
- (2) Our liability for defects is generally limited to the statutory period of 24 months after handover of the goods to the buyer and to the obligation, at our discretion, to carry out repairs free of charge, to replace defective parts or to make a replacement delivery. At our request, the defective products shall be returned to us at our expense beforehand. Should repairs or replacement remain unsuccessful within a reasonable period of time, the buyer shall have the right to rescission or reduction of the purchase price.
- (3) For defective third-party products, we may, at our discretion, provide warranty in the form of assigning the statutory warranty claims against our upstream supplier. However, we shall assume the warranty if our customers do not succeed in enforcing their claims against the upstream supplier.
- (4) We shall not be liable for defects which have their causes in incorrect order documents of the purchaser. A warranty claim shall also not apply to defects or damage caused by the behaviour of the buyer or third parties. This includes, in particular, improper use and improper installation, non-observance of guidelines and operating instructions, violent or negligent handling, unsuccessful repair attempts by the purchaser, unauthorised changes to technical settings, the use of unsuitable or contaminated operating materials and natural wear and tear.
- (5) The buyer's warranty claim shall also be void if he has carried out unauthorised improvements or repairs or had them carried out by third parties without giving us the opportunity to remedy the defect or make a replacement delivery and has thus made it impossible or more difficult for us to determine the cause of the defect.
- (6) A warranty can be refused by us if the buyer has not fulfilled his payment obligations in accordance with the contract. 7. liability for normal wear and tear is excluded.
- (7) Liability for normal wear and tear is excluded.
- (8) Only the direct purchaser shall be entitled to warranty claims against us and such claims shall not be assignable.
- (9) The above paragraphs contain the final warranty for the products and exclude other warranty claims of any kind. This does not apply to claims for damages arising from the warranty of characteristics, which is intended to protect the buyer against the risk of consequential damage.
- (10) Claims for damages arising from positive breach of contract, from culpa in contrahendo and from tort are excluded against us as well as against our vicarious agents or assistants, except in the case of wilful intent or gross negligence. This also applies to claims for damages due to non-fulfilment, but only to the extent that compensation is demanded for indirect or consequential damage, unless the liability is based on an assurance intended to protect the purchaser against the risk of such damage. Any liability shall be limited to the damage foreseeable at the time of conclusion of the contract.

IX. Returns

Products may only be returned to us by prior arrangement and with our express consent, as we otherwise reserve the right to refuse acceptance. After acceptance of the return, we will issue a credit note minus a 10% handling fee. Cases of justified warranty claims or conversions will be handled free of charge.

X. Place of performance and jurisdiction

The place of performance for all obligations arising from the contractual relationship is Hamburg.

The place of jurisdiction for all disputes is Hamburg.

The law of the Federal Republic of Germany shall apply exclusively to the resolution of disputes.

The provisions of the United Nations Convention on Contracts for the International Sale of Goods of 11.04.80 are not applicable.

Terms of delivery and payment

XI. Privacy Policy

As a company, we inform our customers about the processing of personal data in accordance with Art. 13, 14 and 21 DSGVO (EU General Data Protection Regulation).

You can find more information here: www.mueller-gastechnik.de/en/privacy-policy/

Responsible body:
Müller Gastechnik GmbH
Industriestraße 3
D-25462 Rellingen

Data protection officer required by law:
Müller Gastechnik GmbH
Datenschutzbeauftragter
Industriestraße 3
D-25462 Rellingen
E-Mail: datenschutz@mueller-gastechnik.de

We collect your data for the purpose of executing the contract, fulfilling our contractual and pre-contractual obligations and direct advertising. The collection and processing of data is necessary both for the implementation of pre-contractual measures (e.g. sending a cost estimate) and for the performance of the contract and is based on Art. 6 para. 1 b) DSGVO. The data will be deleted as soon as they are no longer required for the purpose of their processing. At the very least, this requires the expiry of legal and tax retention obligations.

Your personal data will be passed on to third parties involved in the performance of the contract insofar as this is necessary for the performance of the contract with you in accordance with Art. 6 Para. 1b DSGVO. These include, for example, subcontractors, transport companies, manufacturers.

You have the right to revoke any consent you have given to data processing as well as to revoke the use of your data for the purpose of direct advertising at any time. You also have the right to request information about the data we have stored about you, as well as the right to demand that the data be corrected if it is incorrect or deleted if the data has been stored inappropriately. In addition, you have the right to restriction of processing and the right to data portability. You also have the right to lodge a complaint with the supervisory authority.

XII. Confidentiality

Unless expressly agreed otherwise in writing, information submitted to us in connection with orders shall not be deemed to be confidential.

XIII. Final provisions

The invalidity of individual provisions shall not affect the validity of these terms of delivery and payment in their entirety. The invalid provision shall then be replaced by a provision which comes as close as possible to the invalid provision in legal terms.

Müller

GASTECHNIK GMBH

REGLER & ARMATUREN

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View our
product
catalogue
online here

