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/ TECHNOLOGY FOR GASES /

CATALOGUE

2022

valid from 01.01.2022

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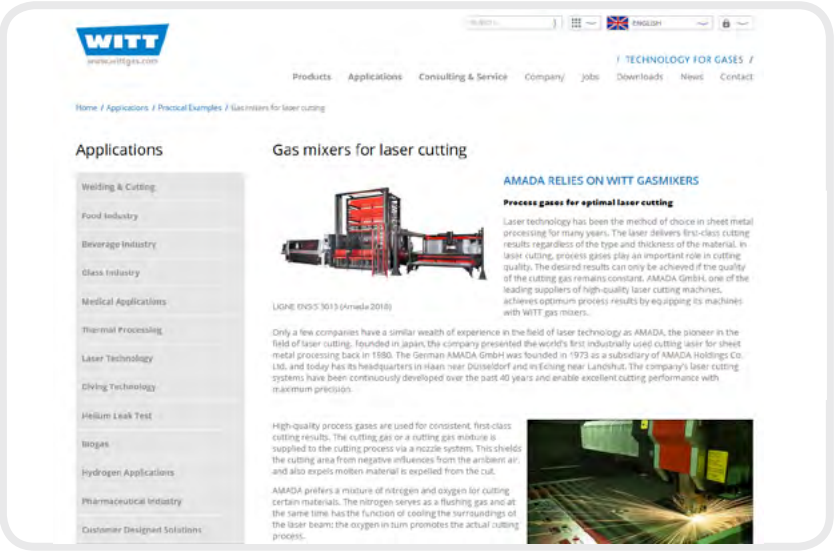
TECHNIKA SPAWALNICZA

“Come back to our website…

…and discover our new categories like 'examples from the practice' or 'White Papers'.

Do you have any more questions? Then send us a call-back request. We will contact you within 24 hours.

- www.wittgas.com



Quality products from WITT

Benefits to you:

- 100 % quality inspection of all products leaving our factory
- Certificates: DIN EN ISO 9001, DIN EN ISO 22000 as well as PED 2014/68/EU, ATEX 2014/34/EU, Directive 93/42/EWG
- State-of-the-art technologies and elaborate quality assurance systems
- Easy, intuitive operation, ergonomics, integration capabilities and cost effectiveness
- Engineered products tailored exactly to your needs
- Individual solutions for your applications

Our product range

In this catalogue you will find our main models and series.
Furthermore we offer special custom-designed products, to your individual specifications.

“Engineering services included. Working closely with you.

Adopting our gas technology to the requirements of the customers is our daily business. Because gas applications are as different and varied as technical gases and gas mixtures.
Our decades of experience and extensive know-how will give you the safety you need: for your employees, your material and your processes.

Please talk to us about your requirements - we can help you for sure!

Any other questions?

We provide you with expert answers!

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Our front desk will connect you directly to the person in charge.

Contents:

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Gas Control Equipment

Gas Safety Equipment

Miscellaneous

1. GAS MIXERS
for non-flammable gases

www.wittgas.com

KM20 ECO

2 gases | small flows

KM20 ECO

data sheet

Small Gas mixer especially for dispensing equipment

- variable mixture output
- pre-set gas blends
- various flow capacities

KM20 ECO

KM 20-1 ECO with one outlet
KM 20-2 ECO with two outlets

MM

2 gases | small to medium flows

MM-2

data sheet

Compact Gas mixer for different applications

- adjustable mixing valve
- mixed gas flow dependent on inlet pressures
- various flow capacities

MM-2

MM-2K
MM-2G

MM-Flex

2 gases | small to medium flows

MM-Flex

data sheet

Ultra compact gas mixer for different applications, e.g. welding

- adjustable mixing valve
- adjustable metering valve
- adjustable pressure

MM-Flex

MM-Flex

BM

2 gases | small flows

BM-2M

data sheet

Gas mixer for direct cylinder connection (high pressure)

- constant output
- infinitely variable gas blending
- infinitely variable metering
- no additional pressure regulator required
- various flow capacities

BM-2

BM-2M (200 bar)
BM-2M (300 bar)

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

1. GAS MIXERS
for non-flammable gases

www.wittgas.com

KM10-2 Flex

2 gases | small flows

KM10-2 Flex

data sheet

Small gas mixer especially for low gas consumption, e.g. in laboratory applications

- variable mixture output
- variable gas blending
- various flow capacities
- new mixing technology, mixed gas receiver is not required

KM10-2 Flex

KM10-2 Flex

MG Fix

2 or 3 gases | medium to high flows

MG Fix

data sheet

Pre-set 2 or 3 components gas mixers

- variable mixture output
- mixing range dependent on type of gas
- new mixing technology, mixed gas receiver is not required

MG-2 Fix for 2 gases

MG 25-2 capacity range up to approx. 22 Nm^3/h
MG 45-2 capacity range up to approx. 46 Nm^3/h
MG 75-2 capacity range up to approx. 68 Nm^3/h
MG 95-2 capacity range up to approx. 90 Nm^3/h
MG 125-2 capacity range up to approx. 135 Nm^3/h

MG-3 Fix for 3 gases

MG 45-3 capacity range up to approx. 46 Nm^3/h
MG 95-3 capacity range up to approx. 90 Nm^3/h
MG 125-3 capacity range up to approx. 135 Nm^3/h

options:

inlet pressure monitoring with alarm module AM3

MG Flex

2 gases | medium to high flows

MG Flex

data sheet

Adjustable 2 components gas mixers for welding applications

- variable mixture output
- mixing range dependent on type of gas
- new mixing technology, mixed gas receiver is not required

MG-2 Flex

MG 25-2 capacity range up to approx. 22 Nm^3/h
MG 45-2 capacity range up to approx. 46 Nm^3/h
MG 75-2 capacity range up to approx. 68 Nm^3/h
MG 95-2 capacity range up to approx. 90 Nm^3/h
MG 125-2 capacity range up to approx. 135 Nm^3/h

options:

inlet pressure monitoring with alarm module AM3

KM

2 or 3 gases | small to medium flows

KM20-2

data sheet

Mixing system for different technical applications

- constant output
- infinitely variable gas blending
- infinitely variable metering
- various flow capacities

KM-2 for 2 gases

KM 20-2
KM 30-2
KM 60-2
KM 100-2

KM-3 for 3 gases

KM 20-3
KM 30-3
KM 60-3
KM 100-3

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Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

1. GAS MIXERS
for non-flammable gases

www.wittgas.com

KM-M

2 or 3 gases | medium to high flows

KM100-2M

KM100/200-M data sheet

KM300/600-M data sheet

Gas mixer especially for MAP-packaging and flow-pack machines

Features - see model KM (above) plus:
- regulation of outlet pressure
- monitoring of gas supply
- integrated inlet pressure monitoring (alarm module AM3)

for food-grade gases, conforms to 1935/2004

KM-2M for 2 gases
KM 100-2M
KM 200-2M
KM 300-2M
KM 600-2M

KM-3M for 3 gases
KM 100-3M
KM 200-3M
KM 300-3M
KM 600-3M
optional: automatic shut-off of O_2 when going below the limit

KM-ME

2 or 3 gases | low to very high flows

KM100-2ME
on steel receiver

data sheet

Picture shows optional equipment

Powerful gas mixer especially for highly fluctuating mixing gas output quantities

- adjustable mixing valve
- with receiver pressure management for use with mixed gas receiver
- also for central gas supply installations
- various flow capacities
- alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

KM-2ME for 2 gases
KM100-2ME
KM100-2ME mounted on 20 l / 10 bar steel receiver
KM100-2ME mounted on 20 l / 10 bar stainless steel receiver
KM100-2ME mounted on 100 l / 10 bar steel receiver
KM100-2ME mounted on 100 l / 10 bar stainless steel receiver

KM-3ME for 3 gases
KM100-3ME
KM100-3ME mounted on 20 l / 10 bar steel receiver
KM100-3ME mounted on 20 l / 10 bar stainless steel receiver
KM100-3ME mounted on 100 l / 10 bar steel receiver
KM100-3ME mounted on 100 l / 10 bar stainless steel receiver

options:
inlet pressure monitoring with alarm module AM3
surcharge for analogue pressure transmitter for 2 inlet gases
surcharge for analogue pressure transmitter for 3 inlet gases

KM-M+

2 or 3 gases | medium to high flows

KM100-2M+

Gas mixer especially for MAP-packaging and flow-pack machine

Features - see model KM-M (above) plus:
- communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V)
- incl. communication software via PC

for food-grade gases, conforms to 1935/2004

KM-2M+ for 2 gases
KM 100-2M+
KM 200-2M+

KM-3M+ for 3 gases
KM 100-3M+
KM 200-3M+

option:
operation via touch-screen display
coupling socket set

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Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

1. GAS MIXERS
for non-flammable gases

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KM-Flow

2 or 3 gases | medium to high flows

KM-Flow with analyser

data sheet

Gas mixer especially for MAP-packaging and flow-pack machines

- electronic Mass Flow Controller (MFC)
- touchscreen
- measured data storage
- may be combined with analysis MAPY LE
- for up to 1000/1500 l/min

for food-grade gases, conforms to 1935/2004

KM1000-2 Flow for 2 gases

KM1000-2 Flow for flow-pack machines
KM1000-2 Flow for vacuum machines

KM1500-3 Flow for 3 gases

KM1500-3 Flow for flow-pack machines
KM1500-3 Flow for vacuum machines

MG-2ME

2 gases | low to very high flows

MG50-2ME on steel receiver

MG50/100-ME data sheet
MG200-ME data sheet

Picture shows optional equipment

Powerful gas mixer especially for high flows and highly fluctuating mixing gas output quantities

- adjustable mixing valve
- various flow capacities
- with receiver pressure management for use with mixed gas receiver
- also for central gas supply installations
- alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

MG-2ME

MG50-2ME
MG50-2ME mounted on 100 l / 10 bar steel receiver
MG50-2ME mounted on 100 l / 10 bar stainless steel receiver
MG100-2ME
MG100-2ME mounted on 250 l / 11 bar steel receiver
MG100-2ME mounted on 250 l / 11 bar stainless steel receiver
MG200-2ME (see option "external filter")

options:

inlet pressure monitoring with alarm module AM3
external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200
surcharge for analogue pressure transmitter for 2 inlet gases

04/01/2022

"You need advice?

Our team of experts is there for you: Click on our callback offer on the WITT website. Depending on your area of interest, you will soon receive a call back from our expert. This way you can quickly clarify your question - free of charge, of course.

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

1. GAS MIXERS
for non-flammable gases

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MG-3ME

3 gases | low to very high flows

MG50-3ME

data sheet

alarm module AM3

data sheet

Powerful gas mixer especially for high flows and highly fluctuating mixing gas output quantities

- adjustable mixing valve
- various flow capacities
- with receiver pressure management for use with mixed gas receiver
- also for central gas supply installations
- alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

MG-3ME

MG50-3ME
MG50-3ME mounted on 100 l / 10 bar steel receiver
MG50-3ME mounted on 100 l / 10 bar stainless steel receiver
MG100-3ME
MG100-3ME mounted on 250 l / 11 bar steel receiver
MG100-3ME mounted on 250 l / 11 bar stainless steel receiver
MG200-3ME (see option „external filter“)

options:

inlet pressure monitoring with alarm module AM3
external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200
surcharge for analogue pressure transmitter for 3 inlet gases

KM-MEM

2 or 3 gases | low to high flows

KM100-2MEM

KM100-3MEM

data sheet

Powerful gas mixer especially for MAP- and vacuum-packaging machines and highly fluctuating mixing gas output quantities

Features - see model ME (above) plus:

- integrated inlet pressure monitoring (alarm module AM3)
- monitoring of gas supply
- to be used with mixed gas receiver, incl. inlet pressure monitoring

for food-grade gases, conforms to 1935/2004

KM-2MEM for 2 gases

KM100-2MEM
KM100-2MEM mounted on 20 l / 10 bar steel receiver
KM100-2MEM mounted on 20 l / 10 bar stainless steel receiver
KM200-2MEM
KM200-2MEM mounted on 20 l / 10 bar steel receiver
KM200-2MEM mounted on 20 l / 10 bar stainless steel receiver

KM-3MEM for 3 gases

KM100-3MEM
KM100-3MEM mounted on 20 l / 10 bar steel receiver
KM100-3MEM mounted on 20 l / 10 bar stainless steel receiver
KM200-3MEM
KM200-3MEM mounted on 20 l / 10 bar steel receiver
KM200-3MEM mounted on 20 l / 10 bar stainless steel receiver

option:
automatic shut-off e.g. of O_2 when going below the limit

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Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

1. GAS MIXERS
for non-flammable gases

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KM-MEM+

2 or 3 gases | low to high flows

KM100-2MEM+

data sheet

Electronic gas mixing system with motor-driven mixing valve especially for MAP- and vacuum packaging machines

Features - see model KM-MEM (above) plus:
- communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V)
- to be used with mixed gas receiver, incl. inlet pressure monitoring

for food-grade gases, conforms to 1935/2004

KM-2MEM+ for 2 gases

KM100-2MEM+
KM100-2MEM+ mounted on 20 l / 10 bar steel receiver
KM100-2MEM+ mounted on 20 l / 10 bar stainless steel receiver
KM200-2MEM+
KM200-2MEM+ mounted on 20 l / 10 bar steel receiver
KM200-2MEM+ mounted on 20 l / 10 bar stainless steel receiver

option:

operation via touch-screen display
coupling socket set

KM-3MEM+ for 3 gases

KM100-3MEM+
KM100-3MEM+ mounted on 20 l / 10 bar steel receiver
KM100-3MEM+ mounted on 20 l / 10 bar stainless steel receiver
KM200-3MEM+
KM200-3MEM+ mounted on 20 l / 10 bar steel receiver
KM200-3MEM+ mounted on 20 l / 10 bar stainless steel receiver

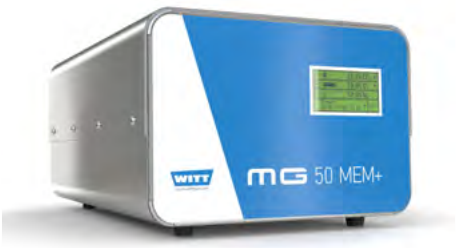
option:

operation via touch-screen display
coupling socket set

product video: this is how our electronic gas mixer works

MG-MEM+

2 or 3 gases | higher flows



MG50-2MEM+

data sheet

Electronic gas mixing system with motor-driven mixing valve especially for MAP- and vacuum packaging machines with higher flows

Features - see model KM-MEM+ (above)

for food-grade gases, conforms to 1935/2004

MG-2MEM+ for 2 gases

MG50-2MEM+
MG50-2MEM+ mounted on 100 l / 10 bar steel receiver
MG50-2MEM+ mounted on 100 l / 10 bar stainless steel receiver
MG50-2MEM+ mounted on 250 l / 11 bar steel receiver
MG50-2MEM+ mounted on 250 l / 11 bar stainless steel receiver

option:

operation via touch-screen display
coupling socket set

MG-3MEM+ for 3 gases

MG50-3MEM+
MG50-3MEM+ mounted on 100 l / 10 bar steel receiver
MG50-3MEM+ mounted on 100 l / 10 bar stainless steel receiver
MG50-3MEM+ mounted on 250 l / 11bar steel receiver
MG50-3MEM+ mounted on 250 l / 11 bar stainless steel receiver

option:

operation via touch-screen display
coupling socket set

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Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

KD

gas flow controller with O_2-analysis

KD500-1A MAPY ZRL

data sheet

Electronical flow control systems for modified atmospheres in the food industry

- with integrated zirconia cell for O_2-measurement
- integrated PID control loop for automatic gas flow control
- potential free contacts for min./ max. alarms

for food-grade gases, conforms to 1935/2004

KD
KD500-1A MAPY ZRL
options:
sample testing via needle
additional electrochemical sensor for sample testing
heater and thermostat, only electro-chemical sensors

KM-MAPY ZRL

gas mixer and meterer

KM100-2M MAPY ZRL

2-components gas mixers with integrated O_2 analysis

Features - see model KD plus:

- MAPY-analysis (see p. 20)
- potential free contacts

for food-grade gases, conforms to 1935/2004

KM-2M MAPY ZRL
KM100-2M MAPY ZRL
KM200-2M MAPY ZRL
KM300-2M MAPY ZRL
KM600-2M MAPY ZRL
options:
gas mixer with M+ (remote control)

04/01/2022

“In our brochure you can read everything you always wanted to know about WITT Gas Mixers.

Gas mixers offer mximum mixing quality, flexibility and economy. But which model is the best for your specific application?

Looking for the right mixer, a lot of questions come up, e.g.

- Which advantages offer the different mixing technologies and mixing valves, such as mechanical, pneumatical or electrical?
- Which design fits best in my installation: compact, mobile or stationary?
- What kind of components are available: pressure monitoring, inline gas analysis, tanks, explosion protection?

Find answers, discover technologies and have a look at our models overview in the new WITT gas mixers brochure.

Download at ▸ www.wittgas.com

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

3. GAS MIXERS
for flammable gases

www.wittgas.com

KM10-2 Flex

2 gases | small flows

KM10-2 Flex

data sheet

Small gas mixer especially for little gas consumption, e.g. in laboratory applications

- variable mixture output
- variable gas blending
- various flow capacities
- new mixing technology, mixed gas receiver is not required

KM10-2 Flex

KM10-2 Flex

KM

2 or 3 gases | small to medium flows

KM100-3

data sheet

Gas mixing systems for different applications, e.g. for welding applications

- infinitely variable gas blending
- variable mixture output
- various flow capacities
- certified in accordance to ATEX

KM-2 for 2 gases (1 gas flammable)

KM 20-2
KM 30-2
KM 60-2
KM 100-2

KM-3 for 3 gases (max. 2 flammable gases)

KM 20-3
KM 30-3
KM 60-3
KM 100-3

KM-ME Ex

2 or 3 gases | low to very high flows

KM100-3ME Ex

data sheet

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

For features - see KM (above) plus:

- separate electrical control panel
- 5 m cable between control unit and mixing device
- certified in accordance to ATEX
- model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information in section 6 „Gas analysers")
- alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

KM-2ME Ex for 2 gases

KM100-2ME Ex
KM100-2ME Ex A, with integrated analysis (see section „Gas analysers")
KM100-2ME Ex mounted on 20 l / 10 bar steel receiver
KM100-2ME Ex mounted on 20 l / 10 bar stainless steel receiver
KM100-2ME Ex mounted on 100 l / 10 bar steel receiver
KM100-2ME Ex mounted on 100 l / 10 bar stainless steel receiver

KM-3ME Ex for 3 gases

KM100-3ME Ex
KM100-3ME Ex mounted on 20 l / 10 bar steel receiver
KM100-3ME Ex mounted on 20 l / 10 bar stainless steel receiver
KM100-3ME Ex mounted on 100 l / 10 bar steel receiver
KM100-3ME Ex mounted on 100 l / 10 bar stainless steel receiver

options:

inlet pressure monitoring with alarm module AM3 (for Ex)
surcharge for analogue pressure transmitters Ex, 2 inlet gases
surcharge for analogue pressure transmitters Ex, 3 inlet gases

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Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

3. GAS MIXERS
for flammable gases

WITT
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MG-ME Ex

2 or 3 gases | low to very high flows

MG100-ME Ex data sheet
MG200-ME Ex data sheet

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

Features - see KM (above) plus:

- separate electrical control panel
- 5 m cable between control unit and mixing device
- certified in accordance to ATEX
- model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information see section 6 „Gas analysers")
- alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

MG-2ME Ex for 2 gases
MG50-2ME Ex
MG50-2ME Ex A, with integrated analysis (see section „Gas analysers")
MG50-2ME Ex mounted on 100 l / 10 bar steel receiver
MG50-2ME Ex A, with integr. analysis, mounted on 100 l/10 bar steel receiver
MG50-2ME Ex mounted on 100 l / 10 bar stainless steel receiver
MG50-2ME Ex A, with integr. analysis, mounted on 100 l/10 bar stainl. steel rec.
MG100-2ME Ex
MG100-2ME Ex A, with integrated analysis
MG100-2ME Ex mounted on 250 l / 11 bar steel receiver
MG100-2ME Ex mounted on 250 l / 11 bar stainless steel receiver
MG200-2ME Ex (see option „external filter")
MG200-2ME Ex A, with integrated analysis (see option „external filter")
MG-3ME Ex for 3 gases
MG50-3ME Ex
MG50-3ME Ex mounted on 100 l / 10 bar steel receiver
MG50-3ME Ex mounted on 100 l / 10 bar stainless steel receiver
MG100-3ME Ex
MG100-3ME Ex mounted on 250 l / 11 bar steel receiver
MG100-3ME Ex mounted on 250 l / 11 bar stainless steel receiver
MG200-3ME Ex (see option „external filter")
options:
inlet pressure monitoring with alarm module AM3 (for Ex)
external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200
surcharge for analogue pressure transmitters Ex, 2 inlet gases
surcharge for analogue pressure transmitters Ex, 3 inlet gases

04/01/2022

"We can do big, too.

Adopting our gas technical solutions to meet the needs of customers is our daily business. Hence we offer a wide range of special mixers, e.g.

- with flows up to 2000 Nm^3/h
- from very small mixing ranges (0-5%) up to very big ones (0-100%)
- with integrated gas analysis
- with numerous safety features such as monitoring of inlet pressures and temperatures, alarm function with automatic switch or cut off, heating for mixer and control unit, filter in the gas inlet, lockable doors, etc.

Please contact us. Together we will identify a WITT solution specific to your requirements.

For an overview of our support material see p. 82-83

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

MED-MG

for synthetic air

MG50-2ME GB A data sheet

Worldwide and long-term proven gas mixing system for the production of synthetic air for medical applications

- in accordance with DIN EN ISO 7396-1 section 3.27
- medical product class IIb, CE identification marking acording to EG 93/42/EWG
- various flow capacities
- to be used with mixed gas receiver, incl. inlet pressure monitoring
- also for central gas supply installations
- integrated oxygen analyser, redundant design
- various system surveillances
- housing IP55

MED-MG

MED-MG 50-2ME GB A
MED-MG 100-2ME GB A
MED-MG 200-2ME GB A
MED-MG 500-2ME GB A
each with 2 gas filters 077 and printed operation manual

options:

automatic calibration
heating (for low ambient temperatures)

MED-stainless steel gas receiver (coated) incl. safety devices and connections**:**

volume	pressure	design	blow-off output SV*
100 litres	10 bar	vertical	382 Nm^3/h
250 litres	11 bar	vertical	417 Nm^3/h
500 litres	11 bar	vertical	795 Nm^3/h
1,000 litres	11 bar	vertical	795 Nm^3/h
2,000 litres	11 bar	vertical	2,234 Nm^3/h
4,000 litres	11 bar	vertical	2,234 Nm^3/h

* blow-off output of the safety relief valve, different rates on demand (surcharge)

04/01/2022

“Further evolution:
From alarm module to compact all-rounder

The new AM3 processes signals in the 4-20 mA range and can manage up to 8 alarms. Current values are displayed on the TFT display and important events are saved by the integrated data logger. In addition to its alarm function, the AM3 can also monitor external control systems.
And since we have not changed the installation dimensions, the AM3 can easily be retrofitted onto any WITT gas mixer with alarm module.

More information at ▸ www.wittgas.com

For an overview of our support material see p. 82-83

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

5. MIXED GAS RECEIVERS

Steel receivers

steel receiver, vertical,
without safety devices and connections

Receivers 20 - 250 l: ground coated and pickled
Receivers 500 - 2,000 l: powder coated

- internally degreased and oil-free
- use of humid gases or oxygen may cause corrosion
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -15°C up to +100°C

without safety devices and connections

volume	pressure	design
20 litres	10 bar	horizontal
20 litres	16 bar	horizontal
100 litres	10 bar	horizontal
100 litres	21 bar	horizontal
250 litres	11 bar	horizontal
500 litres	11 bar	vertical
1,000 litres	11 bar	vertical
1,000 litres	16 bar	vertical
2,000 litres	11 bar	vertical
2,000 litres	16 bar	vertical

Stainless steel receivers

stainless steel receiver, horizontal,
without safety devices and connections

Stainless steel, not coated

- internally degreased and oil-free
- recommended especially for high oxygen concentrations (>21%)
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -196°C up to +50°C

without safety devices and connections

volume	pressure	design
20 litres	10 bar	horizontal
20 litres	16 bar	horizontal
100 litres	10 bar	horizontal
100 litres	16 bar	horizontal
100 litres	21 bar	horizontal
250 litres	11 bar	horizontal
250 litres	16 bar	horizontal
250 litres	21 bar	horizontal
500 litres	11 bar	vertical
500 litres	16 bar	vertical
1,000 litres	11 bar	vertical
1,000 litres	16 bar	vertical
2,000 litres	11 bar	vertical
2,000 litres	16 bar	vertical

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

Steel receivers

steel receiver, vertical,
incl. safety devices and connections

data sheet

With ground coat, pickled, passivated

- internally degreased and oil-free
- use of humid gases or oxygen may cause corrosion
- incl. safety relief valve
- up to 250l available as a unit with gas mixer
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -15°C up to +100°C
- operation temperatures of safety relief valve -10°C up to +50°C

incl. safety devices and connections

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm^3/h
20 litres	16 bar	horizontal	181 Nm^3/h
100 litres	10 bar	horizontal	117 Nm^3/h
100 litres	21 bar	horizontal	181 Nm^3/h
250 litres	11 bar	horizontal	523 Nm^3/h
500 litres	11 bar	vertical	523 Nm^3/h
1,000 litres	11 bar	vertical	1,880 Nm^3/h
1,000 litres	16 bar	vertical	1,750 Nm^3/h
2,000 litres	11 bar	vertical	2,490 Nm^3/h
2,000 litres	16 bar	vertical	3,265 Nm^3/h

* blow-off output of the safety relief valve, different rates on demand (surcharge)

surcharge for gas mixer mounted on receiver (up to max. 250 litres)

option for receiver-gas mixer-units:
TÜV approval conforms to PED 2014/68/EU, module G

Stainless steel receivers

Stainless steel receiver, horizontal
incl. safety devices and connections

data sheet

Stainless steel, not coated

- internally degreased and oil-free
- recommended for high oxygen concentrations (>21%)
- incl. safety relief valve
- up to 250l available as a unit with gas mixer
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -196°C up to +50°C
- operation temperatures of safety relief valve depend on model

incl. safety devices and connections

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm^3/h
20 litres	16 bar	horizontal	181 Nm^3/h
100 litres	10 bar	horizontal	117 Nm^3/h
100 litres	16 bar	horizontal	181 Nm^3/h
100 litres	21 bar	horizontal	276 Nm^3/h
250 litres	11 bar	horizontal	523 Nm^3/h
250 litres	16 bar	horizontal	741 Nm^3/h
250 litres	21 bar	horizontal	276 Nm^3/h
500 litres	11 bar	vertical	523 Nm^3/h
500 litres	16 bar	vertical	741 Nm^3/h
1,000 litres	11 bar	vertical	1,880 Nm^3/h
1,000 litres	16 bar	vertical	1,750 Nm^3/h
2,000 litres	11 bar	vertical	2,490 Nm^3/h
2,000 litres	16 bar	vertical	3,265 Nm^3/h

* blow-off output of the safety relief valve
Different blow-off rates and safety relief valves for specific temperatures (-196° up to +50°C)

Surcharge for gas mixer mounted on receiver (up to max. 250 litres)

option for receiver-gas mixer-units:
TÜV approval conforms to PED 2014/68/EU, module G

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

OXYBABY® M+

portable O_2 / CO_2 gas analyser - basic model

data sheet

Compact handheld O_2 / CO_2 analyser e.g. for sample testing of MAP-packages (basic model)

- quick and precise
- data log of 100 results (measurement, date, time, product/line no.)
- administration of product data and product names
- incl. carrying case, spare needles and filters

for food-grade gases, conforms to 1935/2004

OXYBABY® M+

OXYBABY® M+	for O_2
OXYBABY® M+	for O_2 / CO_2

options:
connector tube with Luer-Lok-connection

OXYBABY® 6.0

portable O_2 / CO_2 gas analyser - premium model

data sheet

Compact handheld O_2 / CO_2 analyser e.g. for sample testing of MAP-packages (premium model)

features see above, plus:

- minimum sample gas requirement (approx. 2ml)
- minimised response time
- measurement of pressure
- USB-interface
- data-log of 500 results
- comfort operation
- integrated needle and filter checks

for food-grade gases, conforms to 1935/2004

OXYBABY® 6.0

OXYBABY® 6.0	for O_2
OXYBABY® 6.0	for O_2 / CO_2

options:
connector tube with Luer-Lok-connection
integrated barcode reader
bluetooth (e.g. for separate tabletop printer)
further accessories: see p. 19 and 21

product video and further information see
www.oxybaby.com

OXYBABY® M+P

basic gas analyser for pressurised pipelines

data sheet

Mobile O_2/ CO_2 sample analysis in pressurised pipelines, mainly in welding technology (basic model)

- fast and precise
- battery operation
- integrated memory for the last measurements
- including carrying case and G 1/4 AG connection

OXYBABY® M+ P

OXYBABY® M+ P	for O_2
OXYBABY® M+ P	for CO_2
OXYBABY® M+ P	for O_2 / CO_2

OXYBABY® 6.0 P

premium gas analyser for pressurised pipelines

data sheet

Mobile O_2/ CO_2 sample analysis in pressurised pipelines, mainly in welding technology (premium model)

features see above, plus:

- data-log of 500 results (analysis values, date, time of measurement)
- administration of up to 25 users
- comfort operation
- simplified menu navigation etc.

OXYBABY® 6.0 P

OXYBABY® 6.0 P	for O_2
OXYBABY® 6.0 P	for CO_2
OXYBABY® 6.0 P	for O_2 / CO_2

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

OXYBABY® MED

data sheet

Compact handheld O_2 / CO_2 analyser for checking medical gases

- quick and precise
- data log of last 500 measurements
- administration of users applications and allocations
- hygienic and low maintenance

portable O_2 / CO_2 gas analyser for medical applications

OXYBABY® MED

OXYBABY® MED	for O_2
OXYBABY® MED	for O_2 / CO_2

options:
data cable
set of adapter for various connections
bluetooth (e.g. for separate printer)

OXYBABY®-Accessories

e.g. for the use of the OXYBABY® as a tabletop unit

data sheet

Accessory for all OXYBABY® models:

- table rack

Accessories for the OXYBABY® 6.0 premium models:

- documentation software OBCC
- integrated barcode reader
- bluetooth printer

OXYBABY®-Accessories

Table rack for OXYBABY®
connector tube with Luer-Lok-connection
integrated barcode reader
tabletop bluetooth printer

OBCC software for the documentation of analysis results: see page 21

OXYBABY®-Accessories

Canpiercer

Aquacheck

data sheet

Image examplary
Oxybaby® and bottle not included

Special packages are hardly controllable by standard analysis devices. Therefore WITT offers a special construction which is suitable for all OXYBABY® models

- for head space analysis of cans and bottles, with or without overpressure/gas
- for O_2 and CO_2 analysis of mini packages, e.g. capsules

for cans, bottles and mini packages

OXYBABY®-Accessories	order no.
Canpiercer for cans and bottles (with set for head space analysis)	
for cans without overpressure/gas (e.g. juice)*	
for max. piercing height of 270 mm, needle length 5,5 mm	590000156
for cans and bottles with overpressure/gas, incl. bottle adapter*	
for max. piercing height of 270 mm, needle length 8,5 mm	590000165
for max. piercing height of 390 mm, needle length 8,5 mm	590000166
for max. piercing height of 390 mm, needle length 18,5 mm	590000325
for cans with high overpressure/gas (strongly sparkling drinks)	
incl. calibration module and flow control*	
for max. piercing height of 270 mm, needle length 5,5 mm	590000239
for cans and bottles, pressure measurement only, incl. bottle adapter*	
for max. piercing height of 390 mm, needle length 5,5 mm	590000341

other versions on request

Canpiercer-module (for refitting):
bottle adapter

Aquacheck
equipment for the gas analysis of mini packages

Aquacheck Plus
Aquacheck incl. water container

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

OXYBEAM

data sheet

Laser gas analyser for non-destructive sample testing of packages

- state-of-the-art laser technology for determining O_2 or CO_2 content
- avoids waste costs
- for packaging with transparent film area (min. height 5 mm)

non-destructive sample gas analyser

OXYBEAM

OXYBEAM	for O_2
OXYBEAM	for CO_2

option:
plate with magnetic fixing for packages from 5 mm height

PA 7.0

data sheet

Compact tabletop analyser for sample- and continuous testing of food packages (MAP) and for welding applications

- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- with zirconia measuring cell for O_2 for quicker measurements

for food-grade gases, conforms to 1935/2004

tabletop O_2 / CO_2 gas analyser

PA 7.0

PA 7.0 for O_2	version P or L
PA 7.0 for CO_2	version P or L
PA 7.0 for O_2/CO_2	version P or L
PA 7.0 for O_2	version S
PA 7.0 for O_2	version S and L
PA 7.0 for O_2/CO_2	version S
PA 7.0 for O_2/CO_2	version S and L

options:
handle
coupling socket set (output signals; alarm contacts)
integration of the analysing system in the mixer housing
zirconia measuring cell for O_2
O_2 measurement in ppm-range (surcharge calibration)
heating and thermostat, only electro-chemical sensors
paramagnetic sensor
OBCC software for the documentation of analysis results: see page 21

MAPY 4.0 / MAPY LE

reddot design award

MAPY 4.0 - inclined display for use in laboratory

data sheet

MAPY LE - vertical display for use as inline analyser

data sheet

Premium gas analyser for sample- and continuous testing of food packages (MAP)

- for use in laboratory (housing with inclined display) and in production line (housing with vertical display)
- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- optional: zirconia measuring cell for O_2 for quicker measurements
- MAPY LE: ideal also for inline analysis of flow packaging machines; minimisation of gas consumption by combination with the gas mixer KM-FLOW

for food-grade gases, conforms to 1935/2004

O_2 / CO_2 gas analyser, sample + inline

MAPY

MAPY 4.0 / MAPY LE	O_2	version P or L
MAPY 4.0 / MAPY LE	CO_2	version P or L
MAPY 4.0 / MAPY LE	O_2/CO_2	version P or L
MAPY 4.0 / MAPY LE	O_2	version S
MAPY 4.0 / MAPY LE	O_2	version S and L
MAPY 4.0 / MAPY LE	O_2/CO_2	version S
MAPY 4.0 / MAPY LE	O_2/CO_2	version S and L

options:
zirconia measuring cell
paramagnetic measuring cell (incl. larger housing)
external barcode reader
coupling socket set
analysis software GASCONTROL CENTER
fully automatic calibration 1 channel
fully automatic calibration 2 channels
O_2 measurement in ppm-range (surcharge calibration)
heating and thermostat, only electro-chemical sensors
different Ethernet cables (only for MAPY in vertical housing)

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

6. GAS ANALYSERS

MAPY VAC

data sheet

Inline gas analyser for continuous control of modified atmospheres in traysealers and thermoformers

- measures the O_2 or O_2/CO_2 concentration before sealing the package
- with touchscreen or as black box version (BB)
- option: analysis of buffer tank
- ideal in combination with a WITT gas mixer

O_2 / CO_2 gas analyser, for traysealers and thermoformers

MAPY VAC

MAPY VAC O_2 Zr
MAPY VAC O_2 Zr BB
MAPY VAC O_2/CO_2 Zr
MAPY VAC O_2/CO_2 Zr BB
MAPY VAC O_2 Zr, incl. buffer analysis
MAPY VAC O_2 Zr BB, incl. buffer analysis
MAPY VAC O_2/CO_2 Zr , incl. buffer analysis
MAPY VAC O_2/CO_2 Zr BB, incl. buffer analysis

Options:

cover IP45

Inline gas analysis

GC 50

data sheet

Gas Analysers for H_2, He, etc. to be combined with WITT gas mixers

- gas mixer and analyser as a compact unit
- integrated analysis with LCD display touchscreen
- min./max. alarms
- for flammable gases certified to ATEX

integrated with gas mixer

gas analysis for gas mixers

analyser system H_2 (Ex, Thermal Conductivity Sensors)
analyser system H_2 (Ex, Thermal Conductivity Sensors) with additional cut-off valve for flammable gases
analyser system He (Thermal Conductivity Sensors)
analyser system O_2 (chemical)
zirconia measuring cell for analyser system O_2 (chemical)
analyser system O_2 (paramagnetic)
analyser system CO_2 (infrared)
analyser system O_2 / CO_2 (chemical/infrared)
analyser system O_2 / CO_2 (paramagnetic/infrared)
integration of the analysing system in the mixer housing (MG 200 without surcharge)

Options

Back-purging device for inline gas analysers against blocked filters on gas inlets

data sheet

Additional functions for optimising the process

- data export and analysis
- automatic calibration
- alarm function
- error advice
- back-purging device against blocked filters

for WITT gas analysers

options for WITT gas analysers (except MAPY and MFA)

digital paperless chart recorder, 3 channels
integration chart recorder in mixer
LED-warning light with horn
digital chart-recorder (only GC 50)
data logger (only GC 50)
implementation of USB interface on the back or the front of the housing
analysis of the flow measurement (4-20mA), without flow-sensor
automatic calibration (not for PA), 1 channel
automatic calibration (not for PA), 2 channels
automatic calibration in Ex-version (not for PA), 1 channel
automatic calibration in Ex-version (not for PA), 2 channels
error advice via e-mail (only in combination with data logger (GC50)
back-purging device for inline gas analysers

OBCC

data sheet

Windows software for the documentation of analysis measuring results. For OXYBABY® 6.0, P 6.0, Med and PA 7.0

- modern, intuitive interface
- graphic representation of the measured data, verifiable PDF reports
- comfortable data management with import and export function

documentation software for OXYBABY® 6.0 and PA

Software

free 30-day trial version
OBCC full version incl. updates
Licence for 1 year
Licence for 2 years

▶▶▶

Free download OBCC trial version

Download the 30-day trial version of OBCC (for Windows) now without obligation and free of charge. Just fill out the form. You will immediately receive a confirmation e-mail with the download link.

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

26/01/2022

MFA 9000

multigas-analyser

MFA 9000

data sheet

Portable multigas-analyser especially for maintanance and service

- for analysis of up to 14 different combinations of gases
- continuous analysis
- 4-20 mA output signal
- digital display

MFA 9000
MFA 9000

HYDROBABY

mobile moisture measurement

HYDROBABY

data sheet

Mobile device for analysing moisture in gases

- short response times
- dewpoint from -110° up to 20°C
- latest sensor technology
- easy navigation
- large display
- USB interface for data export

HYDROBABY
HYDROBABY

options:
pressure compensation
4-20 mA outlet

MFA H_2O

stationary moisture measurement

MFA H_2O

data sheet

Table-top device for analysing moisture in gases

Features - see HYDROBABY plus:

- overpressure design with metering valve and flow meter
- USB interface for data export

MFA H_2O
MFA H_2O

options:
pressure compensation
4-20 mA outlet
integrated vacuum pump with battery and external charger

RLA100

ambient air monitoring

RLA100

data sheet

Compact ambient air monitor for the detection of CO_2

- 2 alarm limits
- 4-digit display and 4 LEDs for visual control of gas concentration
- gas measuring computer with integrated alarm device (light and horn)
- easy wall-mounting

RLA100
RLA100

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

RLA compact

ambient air monitor

data sheet

Compact ambient air monitoring system for the detection of O_2, CO_2, H_2 etc, incl. gas monitor, transmitter and transmitter cable

- simultanous monitoring of up to four gas inlets
- freely adjustable limits per software
- data logger
- exceeding the limits generates alarm and triggers a potential free contact

RLA compact
gas monitor 1-channel
every additional transmitter channel (max. 4)
transmitter for O_2
transmitter for CO_2 - not Ex
transmitter for O_2 Zircox - not Ex
transmitter for combustible gases H_2, methane, ethylene, propane (under explosion limit -0..50/100% UEG) - Atex: Zone 2, Cat. 3G
transmitter for CO
flow adapter (recommended for calibration)
transmitter cable per meter and transmitter

RLA multichannel

ambient air monitor

data sheet

Compact ambient air monitoring system for the detection of O_2, CO_2, H_2 etc, incl. gas monitor, transmitter and transmitter cable

- simultanous monitoring of different gas inlets
- freely adjustable limits
- intuitive menu design
- exceeding the limits generates alarm and triggers a potential free contact

RLA multichannel
4-channel gas monitor with alarm
additional channel (up to 16 channels possible)
transmitter for O_2
transmitter for CO_2 - not Ex
transmitter for O_2 Zircox - not Ex
transmitter for combustible gases H_2, methane, ethylene, propane (under explosion limit -0..50/100% UEG) - Atex: Zone 2, Cat. 3G
transmitter for CO
flow adapter (recommended for calibration)
transmitter cable per meter and transmitter

Inlet pressure monitoring

with alarm module AM3

separate inlet pressure monitoring

data sheet

For continuous inlet pressure monitoring for maximum process safety

- simultanous monitoring of up to 3 gas inlets
- freely adjustable limits
- intuitive menu design
- exceeding the limits generates alarm and triggers a potential free contact

Inlet pressure monitoring
separate
for flammable gases as Ex-version with separate control housing
options:
data cable
ALARM CONTROL software
surcharge for analogue pressure transmitters, 2 inlet gases
surcharge for analogue pressure transmitters, 3 inlet gases
surcharge for analogue pressure transmitters Ex, 2 inlet gases
surcharge for analogue pressure transmitters Ex, 3 inlet gases
LED warning light with signal-horn

04/01/2022

“WITT gas analysers for MAP applications: Technique, performance, practice.

From the handy Oxybaby® via the compact PA up to the award-winning MAPY: In our special brochure you will find detailed information about our O_2/ CO_2 gas analysers.

Download at ▸ www.wittgas.com

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

WITT
www.wittgas.com

LEAK-MASTER® EASY

LEAK-MASTER® EASY 3

data sheet

control unit PLUS (optional)

data sheet

For the detection of even the smallest leaks, without operating with trace gas

- for all flexible and stable types of packages, also without modified atmosphere
- easy, intuitive handling
- visual principle of measurement, reveals the position of the leak
- administration and documentation of user and product data (only with control unit PLUS)

bubble-test

LEAK-MASTER® EASY	chamber size in approx. mm (HxWxD)
EASY 0.5	115 x 305 x 195
EASY 1	165 x 305 x 195
EASY 1.5	145 x 505 x 310
EASY 2	205 x 505 x 310
EASY 3	275 x 525 x 360
EASY 4	320 x 625 x 500
EASY 5	340 x 760 x 500

options:	order no.
vacuum-set	956.992700
electrical vacuum pump	
vacuum holding valve	800961000
calibrated manometer	800942100
ASTM F2096 testing set	966129800
control unit PLUS	5901LME-Z-001
options for control unit:	
barcode reader IP 65	957099400

product video and further information see
www.leak-master.net

LEAK-MASTER® PRO 2

LEAK-MASTER® PRO 2 model 2.1

LEAK-MASTER® PRO 2 model 2.2

data sheet

Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO_2-based

- non-destructive sample leak testing at a strong price-performance ratio
- without using expensive helium or hydrogen
- detects even the smallest of leaks from 10 µm (depending on the product and the test conditions) with highly sensitive and ultra-fast CO2 sensor
- housing made of acrylic glass
- visual indication of test results (LED lighting)
- 3 chamber sizes for single packages or small boxes
- measuring range 0 ppm - 5.000 ppm
- user and product administration and documenation
- data transfer via ethernet

CO_2-based

LEAK-MASTER® PRO	chamber size in approx. mm (HxWxD)
LM 2.1	42 x 310 x 200
LM 2.2	174 x 310 x 200
LM 2.3	100 x 460 x 305

options:	order no.
barcode reader IP 65	957099400
electrical vacuum pump	
analysis software GASCONTROL CENTER	

product video and further information see
www.leak-master.net

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

www.wittgas.com

LEAK-MASTER® PRO

CO_2-based, for large packages

LEAK-MASTER® PRO

data sheet

Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO_2-based

- for large packages and E2-boxes
- detects even the smallest leaks
- measurig range 0 ppm - 5.000 ppm
- user and product administration and documenation
- data transfer via ethernet

LEAK-MASTER® PRO	chambe size in approx. mm (WxDxH)
LM 12.2	140 x 680 x 500
LM 12.1	230 x 680 x 500

options:	order no.
WLAN (WIFI)	966042600
barcode reader IP 65	957099400
analysis software GASCONTROL CENTER	
connection for rinsing air	966042500

LEAK-MASTER® MAPMAX

inline

data sheet
MAPMAX

data sheet
MAPMAX compact

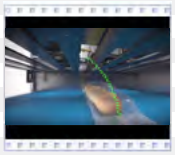
Uniquely quick and precise inline-leak detection of packages containing CO_2 directly from the packaging machine
for trays/thermoform packaging or secondary packages respectively boxes (vacuum layout optionally)

features see LEAK-MASTER® PRO, plus:
- integration in t he packaging process
- automatic product positioning
- automatic product transport to the following process
- up to 15 cycles per minute

All sizes imply: W x D x H (the width „W“ refers to the moving direction of the conveyor-belt). The height includes the alarm lamp.

LEAK-MASTER® MAPMAX	size in approx. mm (WxDxH)
MAPMAX Type 400 compact	1167 x 1408 x 2200
max. product dimensions 600 x 400 x 380 mm	
up to 14 cycles per minute	
MAPMAX Type 400	1840 x 1130 x 2200
max. product dimensions 600 x 400 x 380 mm	
up to 15 cycles per minute	
MAPMAX Type 700 compact	1167 x 1408 x 2200
max. product dimensions 600 x 680 x 220 mm	
up to 14 cycles per minute	
MAPMAX Type 700	1840 x 1130 x 2200
max. product dimensions 600 x 680 x 220 mm	
up to 15 cycles per minute	

options:
WIFI
barcode reader IP 65
analysis software GASCONTROL CENTER
MINK vacuum pump
central vacuum layout (control valve central vacuum)
surface pressurisation (incl. motorisation)
e.g. to speed up and improve the measurements for packages with a low gas volume



product video and further information see
www.leak-master.net

Accessories

for WITT leak detectors

barcode reader

For process optimisation with models EASY PLUS, PRO and MAPMAX

- quick registration of user-, product- and process data
- digital documentation
- comfortable data transfer

GASCONTROL CENTER

data sheet

WIFI (not for Control Unit PLUS)
barcode reader IP 65
analysis software GASCONTROL CENTER
Test-Leak (60µ) for the inspection of measuring and testing equipment
(only for LEAK-MASTER® MAPMAX, PRO 2 and PRO)

04/01/2022

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 81.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 81.

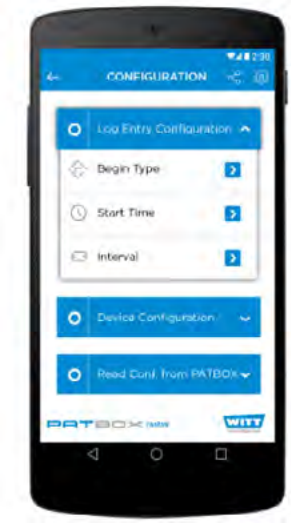
8. DATA LOGGER

PATBOX	data logger
 data sheet	PATBOX

Compact logger for pressure and temperature

- highly mobile and accurate
- extremely small size
- high process reliability
- simple transmission of data via NFC
- operation via Android App

04/01/2022



PATBOX Control App

“PATBOX - what is it actually?

With the PATBOX, for example, machines working with a vacuum can be adjusted or the pressure inside modified atmosphere packaging can be controlled.

Your advantages:

- highly mobile and precise measurement
- extremely small size
- increased process reliability
- latest sensor technology
- comfortable configuration and software update via Android App
- simple data transmission via NFC
- large pressure range from 1 to 2,000 mbar
- wide temperature range from -20 to 60 °C
- brilliant OLED graphic display
- charging cradle for wireless charging of the battery

Do you need more information? Then talk to our experts.

9. FLASHBACK ARRESTORS
for pressure regulators, outlet points and pipelines

WITT
www.wittgas.com

RF53N

data sheet

Acetylene max. 13 m³/h
Fuel gases max. 68 m³/h
Oxygen max. 187 m³/h

DIN EN ISO 5175-1

FA | NV | TV

also available in stainless steel, see p. 49

connection	inlet → outlet	order no.
for fuel gases:		
G 1/4 LH	MG → AGS	145-009
G 3/8 LH	MG → AGS	145-012
G 1/2 LH	MG → AGS	145-016
9/16" LH	MG → AGS	145-017
for oxygen:		
G 1/4 RH	MG → AGS	145-021
G 3/8 RH	MG → AGS	145-022
G 1/2 RH	MG → AGS	145-023
9/16" RH	MG → AGS	145-025
for fuel gases or oxygen:		
1/4" NPT	IG → IG	145-197
3/8" NPT	IG → IG	145-205
G 1/4 RH	IG → IG	145-125

RF53DN

data sheet

Acetylene max. 11,5 m³/h
Fuel gases max. 105 m³/h
Oxygen max. 56 m³/h

DIN EN ISO 5175-1

with pressure relief valve

FA | NV | TV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	145-041
G 1/2 LH	MG → AGS	145-043
9/16" LH	MG → AGS	145-044
for oxygen:		
G 1/4 RH	MG → AGS	145-048
G 3/8 RH	MG → AGS	145-049
G 1/2 RH	MG → AGS	145-050
9/16" RH	MG → AGS	145-051

RF53NSK

data sheet

Acetylene max. 13 m³/h
Fuel gases max. 68 m³/h
Oxygen max. 187 m³/h

DIN EN ISO 5175-1

with integrated coupling body according EN 561

FA | NV | TV

suitable probes see p. 39f

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → coupling body	145SK-002
9/16" LH	MG → coupling body	145SK-004
for oxygen:		
G 1/4 RH	MG → coupling body	145SK-008
G 3/8 RH	MG → coupling body	145SK-001
9/16" RH	MG → coupling body	145SK-003

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

85-10

data sheet

Acetylene max. 22 m³/h
Fuel gases max. 235 m³/h
Oxygen max. 310 m³/h

DIN EN ISO 5175-1

FA | NV | TV

also available in stainless steel, see p. 49

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	143-002
G 1/2 LH	MG → AGS	143-008
9/16" LH	MG → AGS	143-009
for oxygen:		
G 1/4 RH	MG → AGS	143-013
G 3/8 RH	MG → AGS	143-016
G 1/2 RH	MG → AGS	143-019
9/16" RH	MG → AGS	143-022
for fuel gases or oxygen:		
1/4" NPT	IG → IG	143-323
3/8" NPT	IG → IG	143-105
G 3/8 RH	IG → IG	143-227

85-20

data sheet

Acetylene max. 45 m³/h
Fuel gases max. 324 m³/h
Oxygen max. 333 m³/h

DIN EN ISO 5175-1

FA | NV | TV

also available in stainless steel, see p. 49

connection	inlet → outlet	order no.
for fuel gases:		
G 3/4 LH	MG → AGS	149-001
for oxygen:		
G 3/4 RH	MG → AGS	149-014
for fuel gases or oxygen:		
G 1/2 RH	IG → IG	149-002
1/2" NPT	IG → IG	149-003
G 3/4 RH	IG → IG	149-005
3/4" NPT	IG → IG	149-006
G 1 RH	IG → IG	149-004
1 NPT	IG → IG	149-017

85-30

data sheet

Acetylene max. 70 m³/h
Fuel gases max. 675 m³/h
Oxygen max. 860 m³/h

DIN EN ISO 5175-1

FA | NV | TV

also available in stainless steel, see p. 50

connection	inlet → outlet	order no.
for fuel gases (except acetylene):		
G 3/4 LH	MG → AGS	147-001
G 1 LH	MG → AGS	147-003
for oxygen:		
G 3/4 RH	MG → AGS	147-065
G 1 RH	MG → AGS	147-068
for fuel gases (except acetylene) or oxygen:		
3/4" NPT	IG → IG	147-081
G 1 1/2 RH	IG → IG	147-069
1" NPT	IG → IG	147-072
1/2" NPT	IG → IG	147-083
for acetylene (EPDM sealing ring (TV)):		
G 3/4 LH	MG → AGS	147-117
G 1 LH	MG → AGS	147-118
G 1 RH	IG → IG	147-123
G 1.1/2 RH	IG → IG	147-116
1/2" NPT	IG → IG	147-119
3/4" NPT	IG → IG	147-120
1" NPT	IG → IG	147-121

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Safety group 645/85-30

2- or 4-fold

data sheet

Parallel connection of 2 or 4 flashback arrestors model 85-30, ideal for high consumption and high flows

Acetylene max. 392 m³/h
Fuel gases max. 2740 m³/h
Oxygen max. 1850 m³/h

DIN EN ISO 5175-1

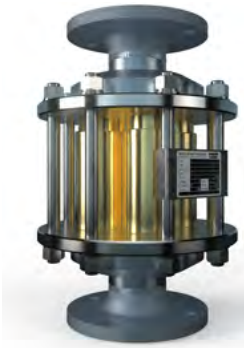
FA | NV | TV

also available in stainless steel, see p. 50

connection	inlet → outlet	order no.
for fuel gases:		
DN 50 (2fold)	flange DIN 2633	182-023
DN 50 (4fold)	flange DIN 2633	182-007
2" NPT (4fold)	IG → IG	182-030
for oxygen:		
DN 50 (2fold)	flange DIN 2633	182-027
DN 50 (4fold)	flange DIN 2633	182-008

Safety group 645/623N

4- or 5-fold



data sheet

Parallel connection of 4 or 5 flashback arrestors model 623N, ideal for high consumption and high flows

Town gas / Natural gas max. 1010 m³/h

DIN EN ISO 5175-1

FA | NV | TV

connection	inlet → outlet	order no.
for town gas/natural gas:		
DN 65/PN16 (4fold)	flange DIN 2633	182-014
DN 65 /PN16 (5fold)	flange DIN 2633	182-018

Super 55

data sheet

Acetylene max. 10 m³/h
Fuel gases max. 60 m³/h
Oxygen max. 95 m³/h

DIN EN ISO 5175-1

with pressure controlled cut-off valve

FA | NV | TV | PV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	146-025
9/16" LH	MG → AGS	146-029
for oxygen:		
G 1/4 RH	MG → AGS	146-027
G 3/8 RH	MG → AGS	146-026
9/16" RH	MG → AGS	146-030

Super 85

data sheet

Acetylene max. 19 m³/h
Fuel gases max. 169 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

with pressure controlled cut-off valve

FA | NV | TV | PV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	148-002
9/16" LH	MG → AGS	148-009
for oxygen:		
G 1/4 RH	MG → AGS	148-013
G 3/8 RH	MG → AGS	148-016
9/16" RH	MG → AGS	148-022

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

9. FLASHBACK ARRESTORS
for pressure regulators, outlet points and pipelines

WITT
www.wittgas.com

Super 90

data sheet

Acetylene max. 11 m³/h
Fuel gases max. 128 m³/h
Oxygen max. 62 m³/h

DIN EN ISO 5175-1

with pressure controlled cut-off valve

FA | NV | TV | PV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	125-029
9/16" LH	MG → AGS	125-032
for oxygen:		
G 1/4 RH	MG → AGS	125-030
G 3/8 RH	MG → AGS	125-031
9/16" RH	MG → AGS	125-033

Super 78

data sheet

Acetylene max. 11 m³/h
Fuel gases max. 128 m³/h
Oxygen max. 62 m³/h

DIN EN ISO 5175-1

with pressure controlled cut-off valve and pressure relief valve (RV)

FA | NV | TV | PV | RV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	125-010
9/16" LH	MG → AGS	125-012
for oxygen:		
G 1/4 RH	MG → AGS	125-016
G 3/8 RH	MG → AGS	125-017
9/16" RH	MG → AGS	125-019

Super 66

data sheet

Acetylene max. 20 m³/h
Fuel gases max. 225 m³/h
Oxygen max. 105 m³/h

DIN EN ISO 5175-1

with pressure controlled cut-off valve and pressure relief valve (RV)

FA | NV | TV | PV | RV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	125-002
for oxygen:		
G 1/4 RH	MG → AGS	125-006
G 3/8 RH	MG → AGS	125-007

F53N/HHO

data sheet

Air max. 20 m³/h

for hydrogen-oxygen-mixtures according to DIN 32508 No. 5.8.2 and 5.8.3

for electrolysis devices

FA | TV

connection	inlet → outlet	order no.
for HHO:		
G 1/4 RH	IG → IG	145-276

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

E460-1

data sheet

Acetylene max. 9 m³/h
Fuel gases max. 82 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

FA NV

connection	inlet → outlet	order no.
for fuel gases:		
4.0 mm - G 3/8 LH	nozzle → MG	135-002
6.3 mm - G 3/8 LH	nozzle → MG	135-005
8.0 mm - G 3/8 LH	nozzle → MG	135-009
9.0 mm - G 3/8 LH	nozzle → MG	135-013
for oxygen:		
4.0 mm - G 1/4 RH	nozzle → MG	135-014
6.3 mm - G 1/4 RH	nozzle → MG	135-017
6.3 mm - G 3/8 RH	nozzle → MG	135-018
8.0 mm - G 3/8 RH	nozzle → MG	135-022

E460-2

data sheet

Acetylene max. 9 m³/h
Fuel gases max. 82 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

FA NV

connection	inlet → outlet	order no.
for fuel gases:		
4.0 mm - 4.0 mm	nozzle → nozzle	135-029
6.3 mm - 6.3 mm	nozzle → nozzle	135-031
8.0 mm - 8.0 mm	nozzle → nozzle	135-032
9.0 mm - 9.0 mm	nozzle → nozzle	135-034
for oxygen:		
4.0 mm - 4.0 mm	nozzle → nozzle	135-037
6.3 mm - 6.3 mm	nozzle → nozzle	135-038
8.0 mm - 8.0 mm	nozzle → nozzle	135-039

E460-3

data sheet

Acetylene max. 9 m³/h
Fuel gases max. 82 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

FA NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	135-042
9/16" LH	AGS → MG	135-045
for oxygen:		
G 1/4 RH	AGS → MG	135-046
G 3/8 RH	AGS → MG	135-094
9/16" RH	AGS → MG	135-048

E460SK

data sheet

Acetylene max. 9 m³/h
Fuel gases max. 82 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

FA NV

suitable coupling body:
SK100-9, see p. 32

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	probe → MG	135SK-114
9/16" LH	probe → MG	135SK-117
for oxygen:		
G 1/4 RH	probe → MG	135SK-115
G 3/8 RH	probe → MG	135SK-124
9/16" RH	probe → MG	135SK-121

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

E460SKU

data sheet

Acetylene max. 13 m³/h
Fuel gases max. 68 m³/h
Oxygen max. 187 m³/h

DIN EN ISO 5175-1

with integrated coupling body: EN 561

FA | NV

suitable coupling probes: see section 14 "Quick couplings"

connection	inlet → outlet	order no.
for fuel gases:		
6.3 mm	nozzle → coupling body	135SK-001
8.0 mm	nozzle → coupling body	135SK-004
G 3/8 LH	AGS → coupling body	135SK-128
for oxygen:		
6.3 mm	nozzle → coupling body	135SK-002
G 1/4 RH	AGS → coupling body	135SK-127

SK100-9

data sheet

Coupling body for E460SK (see p. 30) without non-return valve, part of the WITT coupling system SK100

EN 561 / ISO 7289

connection	inlet ⇆ outlet	order no.
for fuel gases:		
6.3 mm	nozzle ⇆ coupling body	150-021
8.0 mm	nozzle ⇆ coupling body	150-039
9.0 mm	nozzle ⇆ coupling body	150-023
G 3/8 LH	AGS ⇆ coupling body	150-081
for oxygen:		
6.3 mm	nozzle ⇆ coupling body	150-024
8.0 mm	nozzle ⇆ coupling body	150-040
G 1/4 RH	AGS ⇆ coupling body	150-080
G 3/8 RH	AGS ⇆ coupling body	150-079
other gases:		
6.3 mm	nozzle ⇆ coupling body	150-077

RF53NU

data sheet

Acetylene max. 13 m³/h
Fuel gases max. 68 m³/h
Oxygen max. 187 m³/h

DIN EN ISO 5175-1

FA | NV | TV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	145-034
G 1/2 LH	AGS → MG	145-035
9/16" LH	AGS → MG	145-236
for oxygen:		
G 1/4 RH	AGS → MG	145-036
G 3/8 RH	AGS → MG	145-037
G 1/2 RH	AGS → MG	145-038
9/16" RH	AGS → MG	145-235

85-10NU

data sheet

Acetylene max. 22 m³/h
Fuel gases max. 235 m³/h
Oxygen max. 310 m³/h

DIN EN ISO 5175-1

FA | NV | TV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	143-039
G 1/2 LH	AGS → MG	143-231
9/16" LH	AGS → MG	143-245
for oxygen:		
G 3/8 RH	AGS → MG	143-041
9/16" RH	AGS → MG	143-244

WITT
www.wittgas.com

85-10NU (Exzenter)

data sheet

Acetylene max. 22 m³/h
Fuel gases max. 235 m³/h
Oxygen max. 310 m³/h

eccentric outlet

DIN EN ISO 5175-1

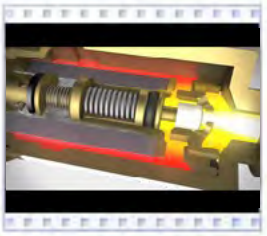
FA NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG (eccentric)	143-217
G 1/2 LH	AGS → MG (eccentric)	143-148
9/16" LH	AGS → MG (eccentric)	143-131
for oxygen:		
G 1/4 RH	AGS → MG (eccentric)	143-215
G 3/8 RH	AGS → MG (eccentric)	143-216
G 1/2 RH	AGS → MG (eccentric)	143-152
9/16" RH	AGS → MG (eccentric)	143-132

04/01/2022

“Already a classic: our most seen video.

Get to know how flashback arrestors work, and learn everything about the relevant safety elements and their operation in an impressive 3D animated video.


And see the dramatic consequences of cutting costs on safety technology.

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve
Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

E460-3

data sheet

Acetylene max. 9 m³/h
Fuel gases max. 82 m³/h
Oxygen max. 119 m³/h

DIN EN ISO 5175-1

FA | NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	135-042
for oxygen:		
G 1/4 RH	AGS → MG	135-046
G 3/8 RH	AGS → MG	135-052

RF53U

data sheet

Acetylene max. 13 m³/h
Fuel gases max. 68 m³/h
Oxygen max. 187 m³/h

DIN EN ISO 5175-1

FA | NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	145-003
9/16" LH	AGS → MG	145-145
for oxygen:		
G 1/4 RH	AGS → MG	145-004
G 3/8 RH	AGS → MG	145-005
G 1/2 RH	AGS → MG	145-006
9/16" RH	AGS → MG	145-144

85-10U

data sheet

Acetylene max. 22 m³/h
Fuel gases max. 235 m³/h
Oxygen max. 310 m³/h

DIN EN ISO 5175-1

FA | NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	143-223
G 1/2 LH	AGS → MG	143-040
for oxygen:		
G 3/8 RH	AGS → MG	143-133
G 1/2 RH	AGS → MG	143-042

04/01/2022

12. FLASHBACK ARRESTORS
for high flows

www.wittgas.com

RF53N/30

Fuel gases 16 m³/h
Air 12 m³/h

DIN EN ISO 5175-1

FA | NV | TV

for very low pressures without non-return valve:

FA | TV
(order no. 145-136)

connection	inlet → outlet	order no.
with non-return valve:		
G 3/8 LH	MG → AGS	145-120
without non-return valve:		
G 3/8 LH	MG → AGS	145-136

85-10/30

Fuel gases 30 m³/h
Air 21 m³/h

DIN EN ISO 5175-1

FA | NV | TV

for very low pressures without non-return valve:

FA | TV
(order no. 143-200 and 143-168)

connection	inlet → outlet	order no.
with non-return valve:		
G 3/8 LH	MG → AGS	143-118
G 1/2 LH	MG → AGS	143-121
1/4" NPT	IG → IG	143-130
without non-return valve:		
G 1/2 LH	MG → AGS	143-200
1/4" NPT	IG → IG	143-168

270N/NU

data sheet

Fuel gases (without acetylene): max. 371 m³/h
Air 164 m³/h

DIN EN ISO 5175-1

FA | NV | TV

pipeline fittings see next page

connection	inlet → outlet	order no.
270N		
G 3/4 RH	AGS → MG	123-038
G 1 RH	AGS → MG	123-041
G 1.1/4 RH	AGS → MG	123-039
G 1.1/2 RH	AGS → MG	123-040
G 1/2 RH	IG → IG	123-054
G 1 RH	IG → IG	123-057
270NU (reverse flow)		
G 3/4 RH	MG → AGS	123-046
G 3/4 LH	MG → AGS	123-050
G 1 RH	MG → AGS	123-047
G 1 LH	MG → AGS	123-051
G 1.1/4 RH	MG → AGS	123-048
G 1.1/4 LH	MG → AGS	123-052
G 1.1/2 RH	MG → AGS	123-049
G 1.1/2 LH	MG → AGS	123-053

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

12. FLASHBACK ARRESTORS
for high flows

623N/NU

data sheet

Fuel gases 406 m³/h
Air 335 m³/h

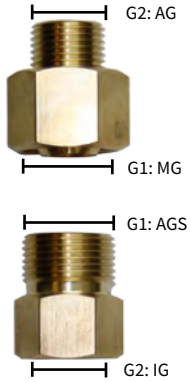
DIN EN ISO 5175-1

FA | NV | TV

pipeline fittings see below

connection	inlet → outlet	order no.
623N		
G 3/4 RH	AGS → MG	189-006
G 1 RH	AGS → MG	189-008
G 1.1/4 RH	AGS → MG	189-009
G 1.1/2 RH	AGS → MG	189-007
G 1 RH	IG → IG	189-017
623NU (reverse flow)		
G 3/4 LH	MG → AGS	189-013
G 1 LH	MG → AGS	189-012
G 1.1/4 LH	MG → AGS	189-014
G 1.1/2 LH	MG → AGS	189-015

Pipeline fittings



For flashback arrestors models 70, 270N/NU and 623N/NU

connection G1	connection G2	order no.
G 3/4 RH	G 1/2 RH	043000000
G 1 RH	G 3/4 RH	043000100
G 1.1/4 RH	G 1 RH	043000200
G 1.1/2 RH	G 1.1/4 RH	043000300

04/01/2022

“For specific needs: gas safety devices in stainless steel.

Anyone working with hydrogen, corrosive gases or pure gas requires a material that is especially designed for these conditions: stainless steel. Therefore WITT offers a wide range of stainless steel safety devices.
The latest production technologies, high-quality stainless steel (e.g. 1.4305/AISI 303, 1.4404/AISI 316L, 1.4541/AISI 321) and elastomers as well as a sophisticated quality management system guarantee highest quality. As a matter of course, WITT products fulfill all relevant international standards and norms. For your safety.

You can find our stainless steel products starting on page 49.
Further information on www.wittgas.com and in our "Stainless steel" brochure.

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve
Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

13. FLASHBACK ARRESTORS
for central acetylene supply

WITT
www.wittgas.com

FN12 / FN40

decomposition arrestor

data sheet

Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

FN12 Q= ca. 76 m^3/h
FN40 Q= ca. 140 m^3/h

DIN EN ISO 5175-1
DIN EN ISO 14114

FA | TV

connection	inlet → outlet	order no.
FN12		
G 1.1/2 RH	IG → IG	021-001
FN40 (double flow capacity)		
G 1.1/2 RH	IG → IG	021-003

Safety group 645/FN40

4- or 5-fold

data sheet

Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

FN40 Q= ca. 140 m^3/h

DIN EN ISO 5175-1

FA | TV

connection	inlet → outlet	order no.
DN 50 (2fold)	flange DIN 2633	182-001
DN 50 (4fold)	flange DIN 2633	182-002

HDS17

shut-off device

data sheet

Stops dangerous decomposition of acetylene in the high pressure pipes of acetylene installations via pressure controlled quick acting piston valve

Up to 25 bar

TRAC 206

DIN EN ISO 15615
DIN EN ISO 14114

connection	inlet → outlet	order no.
G 3/4 RH	IG → IG	017-001

Bundle connection

with non-return valve RV 650

data sheet

For the direct connection to a bundle

Up to 25 bar

DIN EN ISO 15615
DIN EN ISO 14114

connection	inlet → outlet	order no.
„Linde"		
M 28x1.5 LH - M 24x1.5 RH	IG → MG	210000011
„Messer"		
M 28x1.5 LH - M 24x1.5 RH	IG → MG	210000020

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

13. FLASHBACK ARRESTORS
for central acetylene supply

MGN — decomposition arrestor

data sheet

Stops dangerous decomposition of acetylene in high pressure pipes in bottling plants

Up to 25 bar

DIN EN ISO 15615
DIN EN ISO 14114
EIGA Acetylene IGC DOC 123/4

FA
optional: NV

connection	inlet → outlet	order no.
MGN		
G 1/2 RH - W21.8x1/14	AG → AG	022-014
G 1/4 RH	AGS → IG	022-011

HD-NV — non-return valve for bows according DIN 477

(O)

High pressure non-return valve to be wound onto the gas cylinder by using a bow in accordance with DIN 477, part 1, no. 3

Up to 25 bar

EN ISO 15615

NV

connection	inlet → outlet (O)	order no.
HD-NV	DIN → G 1/4 RH AGS	210000022
HD-NV incl. bow	DIN → G 1/4 RH AGS	210000022B

04/01/2022

“Every flashback arrestor 100% tested.

WITT stands for the highest quality, made in Germany. In addition to setting engineering standards, we use the best materials, excellent workmanship and a seamless quality assurance system. We developed our own testing equipment and procedures for testing every single flashback arrestor before delivery. Safe as it gets.

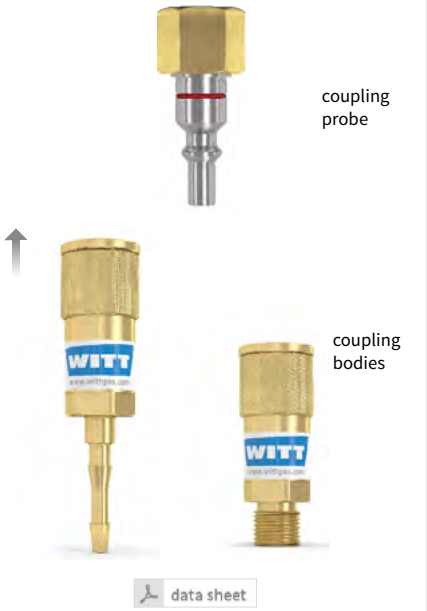
The WITT Company is certified for quality management system DIN EN ISO 9001:2008. Information on our product certifications and testing can be found on the data sheet. You can also find a list of all WITT certifications at:

▸ www.wittgas.com/company/quality-made-in-germany.html

For an overview of our support material see p. 82-83

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve
Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

SK100-1



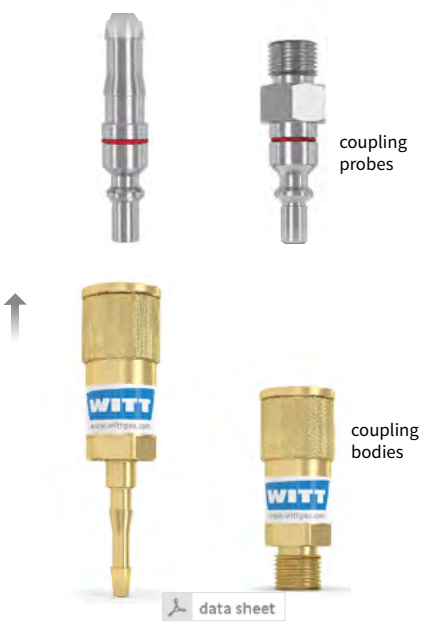
Coupling bodies with non-return valve and automatic gas cut-off valve

EN 561 / ISO 7289

for torches

connection	inlet → outlet	order no.
• **coupling probes**		
for fuel gases:		
G 3/8 LH	probe → MG	151-001
for oxygen:		
G 1/4 RH	probe → MG	151-003
G 3/8 RH	probe → MG	151-004
for other gases:		
G 1/4 RH	probe → MG	151-005
• **coupling bodies** (also for SK100-2)		
for fuel gases:		
4.0 mm	nozzle → coupling body	150-001
6.3 mm	nozzle → coupling body	150-003
8.0 mm	nozzle → coupling body	150-004
9.0 mm	nozzle → coupling body	150-005
G 3/8 LH	AGS → coupling body	150-064
for oxygen:		
4.0 mm	nozzle → coupling body	150-007
6.3 mm	nozzle → coupling body	150-009
8.0 mm	nozzle → coupling body	150-010
G 1/4 RH	AGS → coupling body	150-061
G 3/8 RH	AGS → coupling body	150-060
for other gases:		
6.3 mm	nozzle → coupling body	150-013
G 1/4 RH	AGS → coupling body	150-063
G 3/8 RH	AGS → coupling body	150-062

SK100-2



Coupling bodies with non-return valve and automatic gas cut-off valve

EN 561 / ISO 7289

for hoses

connection	inlet → outlet	order no.
• **coupling probes** (also for SK100-3)		
for fuel gases:		
4.0 mm	probe → nozzle	151-007
6.3 mm	probe → nozzle	151-009
8.0 mm	probe → nozzle	151-010
9.0 mm	probe → nozzle	151-011
G 3/8 LH	probe → AGS	151-048
for oxygen:		
4.0 mm	probe → nozzle	151-013
6.3 mm	probe → nozzle	151-015
8.0 mm	probe → nozzle	151-016
G 1/4 RH	probe → AGS	151-045
G 3/8 RH	probe → AGS	151-044
for other gases:		
6.3 mm	probe → nozzle	151-021
G 1/4 RH	probe → AGS	151-047
G 3/8 RH	probe → AGS	151-046
• **coupling bodies**		
see SK100-1		

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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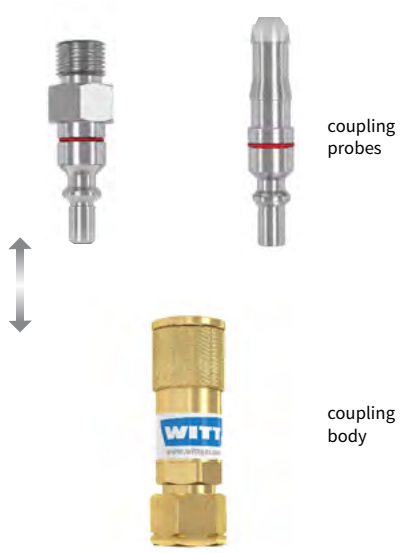
www.wittgas.com

SK100-3

for outlet points



data sheet

Coupling bodies with automatic gas cut-off valve

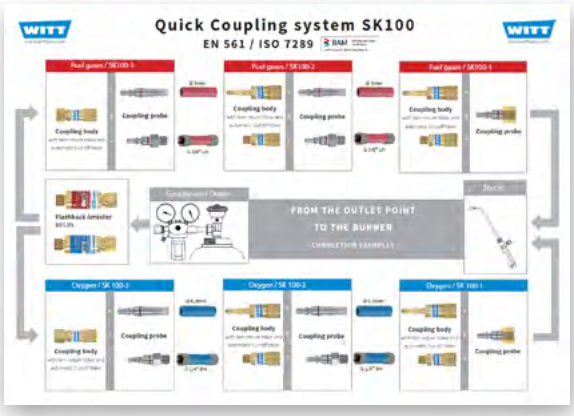
EN 561 / ISO 7289

connection	inlet ⇆ outlet	order no.
• **probes**		
see SK100-2		
• **coupling bodies**		
for fuel gases:		
G 3/8 LH	MG ⇆ coupling body	150-015
for oxygen:		
G 1/4 RH	MG ⇆ coupling body	150-017
G 3/8 RH	MG ⇆ coupling body	150-018
for other gases:		
G 1/4 RH	MG ⇆ coupling body	150-019
G 3/8 RH	MG ⇆ coupling body	150-028

04/01/2022

“Which coupling at which point? An overview.

Use our practical overview of the WITT coupling system SK100. Here you find:



- every module, from the gas outlet point to the torch
- all connections at a glance
- for fuel gases and oxygen
- on demand: editable pdf, to fill in your own order numbers

Download at: ▸ www.wittgas.com

For an overview of our support material see p. 82-83

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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Keymark coupling

for outlet points

connection	inlet ⇆ outlet	order no.
• coupling bodies		
for fuel gases:		
G 3/8 LH	MG ⇆ coupling body	150-029
for other gases:		
G 1/4 RH	MG ⇆ coupling body	150-033
• keymark		801836700
• coupling probes		
for fuel gases:		
4.0 mm	probe ⇆ nozzle	151-007
6.3 mm	probe ⇆ nozzle	151-009
8.0 mm	probe ⇆ nozzle	151-010
9.0 mm	probe ⇆ nozzle	151-011
G 3/8 LH	probe ⇆ AGS	151-048
for other gases:		
6.3 mm	probe ⇆ nozzle	151-021
G 1/4 RH	probe ⇆ AGS	151-047
G 3/8 RH	probe ⇆ AGS	151-046

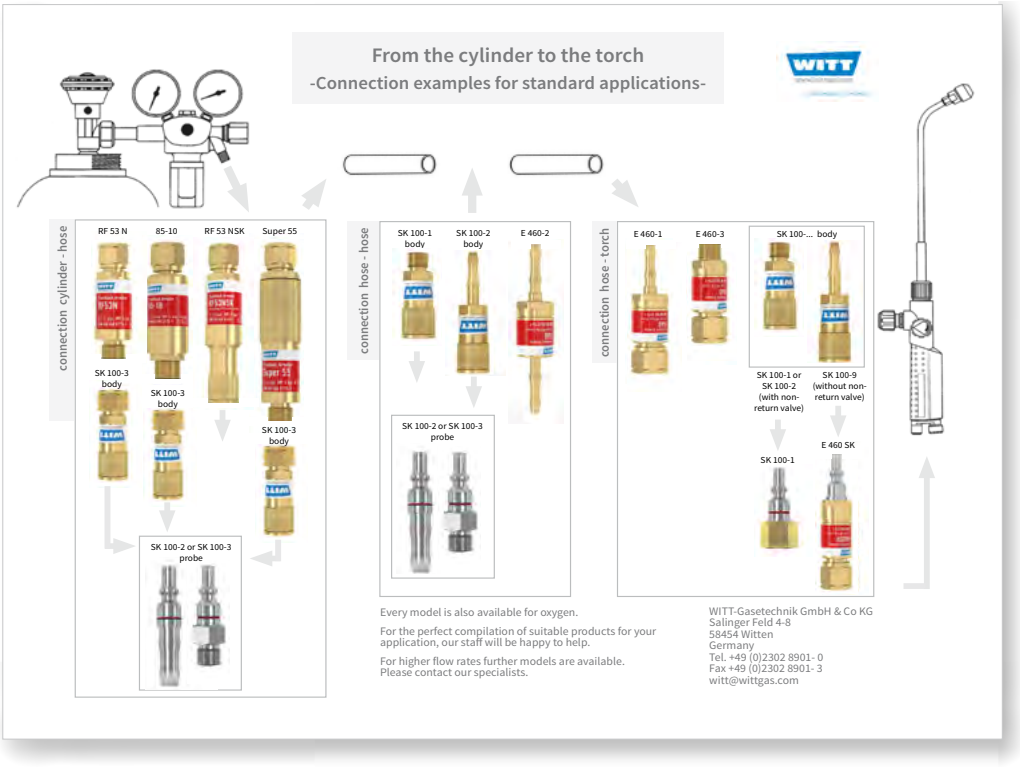
Keymark couplings protect outlet points from unauthorised access: only the owner of the keymark is able to take gas from the outlet point

EN 561 / ISO 7289

04/01/2022

“Which safety device at which point? An overview.

Find the right products for your welding application.
Download at: ▸ www.wittgas.com



Ultra 10

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	034-003
1/2“ NPT	IG → IG	034-007

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Brass

Ultra 12

data sheet

Based on ULTRA 10 - your customised model: various combinations of housing and sealing materials, with or without filter

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	034-003

design (modular system):

filter	seal O-ring	seal valve	housing	
no	NBR	CR	Brass	034-001
yes	NBR	CR	Aluminum	034-005
yes	FPM	FKM	Brass	034-006

Other models and connection types on request

Ultra 20

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar

Up to 16 bar / G 1“, 1/2“, 3/4“

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	036-022
G 3/4 RH	IG → IG	036-014
G 1 RH	IG → IG	036-015
1/2" NPT	IG → IG	036-024
3/4" NPT	IG → IG	036-020
1" NPT	IG → IG	036-021

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Brass

Ultra 22

data sheet

Based on ULTRA 20 - your customised model: various combinations of housing and sealing materials, with or without filter

Up to 16 bar / G 1“, 1/2“

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51

connection	inlet → outlet	order no.
G 1 RH	IG → IG	

design (modular system):

filter	seal O-ring	seal valve	housing	
no	EPDM	EPDM	Brass	036-001
no	NBR	CR	Brass	036-003
yes	NBR	CR	Aluminum	036-008
yes	ISOLAST	ISOLAST	Aluminum	036-009

connection	inlet → outlet
G 1/2 RH	IG → IG

filter	seal O-ring	seal valve	housing	
yes	FPM	FPM	Brass	036-013

Other models and connection types on request

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Ultra 30

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar

Up to 16 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	033-001
1.1/2“ NPT	IG → IG	033-007

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Brass

Ultra 40

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar

Up to 16 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	035-004
2.1/2“ NPT	IG → IG	035-005

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Brass

04/01/2022

“ULTRA: Ultra-high performance comes as standard

ULTRA performance
New valve design - flow optimised
Maximum flow, minimal nominal size

ULTRA low opening pressure
From 4 mbar - ideal for low pressure applications
When every mbar counts

ULTRA compact
Small and lightweight
Perfect for compact plant designs

ULTRA silent
No fluttering - lowest noise emission
Less wear - longer service life

ULTRA flexible
Free combination of materials on customer request
Exactly suitable for your requirements

ULTRA safe
Reliably stops gas backflow and flashback

Typical applications

Low pressure pipelines

Thermal processing plants

Hydrogen applications

Biogas plants

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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NV 654

data sheet

Up to 60 bar
(O_2 up to 30 bar)

Air max. 130 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

connection	inlet → outlet	order no.
G 1/8 RH	IG → AG	120003037

NV 100

data sheet

Up to 25 bar

Air max. 130 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

connection	inlet → outlet	order no.
G 1/8 RH	IG → IG	100145001
G 1/4 RH	IG → IG	100145002
G 3/8 RH	IG → IG	100145003
1/4" NPT	IG → IG	100145005
3/8" NPT	IG → IG	100145007

NV 600H

data sheet

Up to 40 bar

NV

DIN 8521-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	037-042
G 3/4 RH	IG → IG	037-035
G 1 RH	IG → IG	037-039
1/2" NPT	IG → IG	037-085
1" NPT	IG → IG	037-082

NV 70 / 70U

data sheet

Up to 16 bar

Air max. 1,220 m³/h

NV

DIN EN ISO 5175-2

pipeline fittings see p. 36

connection	inlet → outlet	order no.
70		
G 3/4 RH	AGS → MG	123-009
G 1 RH	AGS → MG	123-012
G 1.1/4 RH	AGS → MG	123-014
G 1.1/2 RH	AGS → MG	123-015
70U (reverse flow):		
G 3/4 RH	MG → AGS	123-016
G 1 RH	MG → AGS	123-018
G 1.1/4 RH	MG → AGS	123-056
G 1.1/2 RH	MG → AGS	123-045

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

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NV 300

data sheet

Up to 16 bar

Air max. 3,260 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
G 1 RH	IG → IG	300038002
G 1.1/4 RH	IG → IG	300038031
1" NPT	IG → IG	300038058
1.1/4" NPT	IG → IG	300038065
DN 32 / PN 40	loose flange (with O-ring)	300038A009

NV 400

data sheet

Up to 16 bar

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	400038024
G 2 RH	IG → IG	400038008
1.1/2" NPT	IG → IG	400038062
2" NPT	IG → IG	400038045
DN 40 / PN 40	loose flange (with O-ring)	400038A005
DN 50 / PN 40	loose flange (with O-ring)	400038A006
DN 65 / PN 40	loose flange (with O-ring)	400038A007
DN 80 / PN 40	loose flange (with O-ring)	400038A008

NV 400 — intermediate flange version

data sheet

Non-return Valve NV 400 for up to 16 bar, completely with intermediate welding neck flange set for easy installation and removal

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
DN40	flange	400S-040MS
DN50	flange	400S-050MS

NV 800

data sheet

Up to 10 bar

Air max. 14,000 m³/h

NV

DIN 8521-2

connection	inlet → outlet	order no.
DN 80 / PN 16	flange	080-001

04/01/2022

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NV 2000

data sheet

Up to 10 bar

Air max. 26,800 m³/h

NV

DIN 8521-2

to be mounted vertically in bottom-up flow direction

connection	inlet → outlet	order no.
DN 80 / PN 16	flange	2000119002
DN 100 / PN 16	flange	2000119003
DN 125 / PN 16	flange	2000119004
DN 150 / PN 16	flange	2000119006
DN 200 / PN 16	flange	2000119007

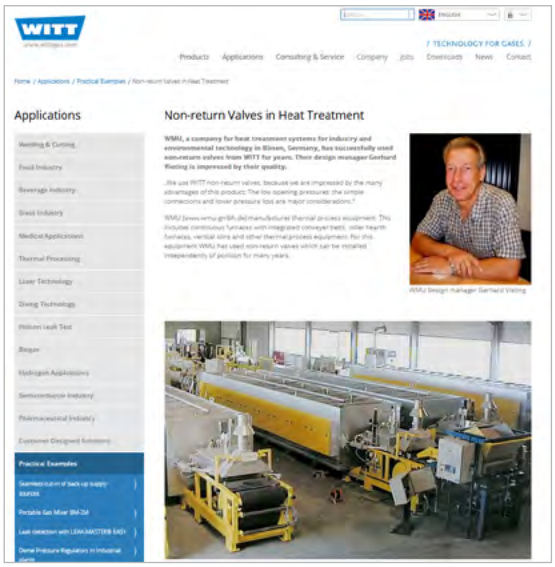
04/01/2022

“Do you already know our practical examples?

In the menu item Applications/Practical examples you will find numerous application reports from a wide range of industries.

Perhaps your topic is also included?

Read for example:
Non-return Valves in Heat Treatment



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SV 805

Option: adapter for ventilation pipe

data sheet

For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units

up to 45 bar

- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU
- also available: „smart-option“ for connected manufacturing
- also available in stainless steel, see p. 54

SV 805	order no.
pressure settings:	
> 0.5 ≤ 45 bar	200-_ _ _
various connections available	(in accordance with pressure-setting)
special sealing compound, surcharge	

Adapter to connect venting pipes and safety relief valve SV 805, including o-ring

M 24x1 AG ➞ 1/2" NPT IG	801413600K
M 24x1 AG ➞ G 1/2 AGS	802069800K
M 24x1 AG ➞ 3/4" NPT IG	802124900K

SV 805A

data sheet

For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units

- manual ventilation-

up to 45 bar

- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU

- also available in stainless steel, see p. 54

SV 805A	order no.
with venting tool for manual ventilation, outlet: 1/2 NPT IG	
pressure settings:	
> 0.5 ≤ 45 bar	200A-_ _ _
various connections available	(in accordance with pressure-setting)
special sealing compound, surcharge	

SV 805 Smart

data sheet

Safety relief valve 805 including Smart function:

- optical signal (red/green diode) directly on the valve, indicates the open or closed condition

- digital signal through an NPN / PNP open collector signal

- also available in stainless steel, see p. 54

SV 805 Smart	order no.
pressure settings:	
> 0.5 ≤ 45 bar	200SMART-_ _ _
various connections available	(in accordance with pressure-setting)
signal cable with angled plug, 2 m	850022900
special sealing compound, surcharge	

AV 815

data sheet

Safety relief valve for acetylene - only to be used in connection with manifold pressure regulators conform to DIN EN ISO 7291

outlet pressure	blow-off flow	opening pressure	order no.
0.6 bar	50 m^3/h	0.75 bar	200-277
0.7 bar	60 m^3/h	0.95 bar	200-353
0.8 bar	65 m^3/h	1.25 bar	200-354
0.9 bar	70 m^3/h	1.25 bar	200-355
1.1 bar	72 m^3/h	1.55 bar	200-356
1.5 bar	75 m^3/h	1.90 bar	200-278
2.0 bar	90 m^3/h	2.50 bar	200-279

connections:
G 1/2 AG ➞ M24 x 1 IG

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

AV 319

data sheet

For blowing-off gases and vapours from receivers, pipelines and other parts of the installation

brass

also available in stainless steel, see p. 55

pressure settings	order no.
10 - 80 mbar	120-_ _ _ (according to pressure-setting)
individual TÜV approval for the set opening pressure	
connections: G 1/8 RH AG-IG	

AV 619

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

also available in stainless steel, see p. 55

pressure settings	order no.
5 - 500 mbar	300-_ _ _ (in accordance with pressure-setting)
individual TÜV approval for the set opening pressure	
connections: G1/2, G3/4, G1 RH IG NPT 1/2", 3/4", 1" IG	

AV 919

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

aluminum anodised

also available in stainless steel, see p. 55

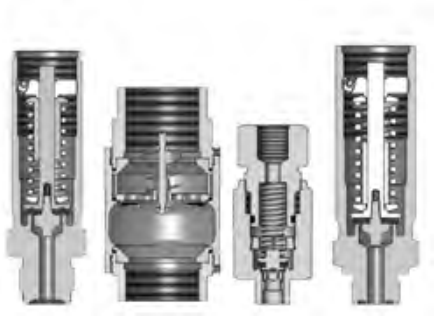
pressure settings	order no.
5 - 500 mbar	400-_ _ _ (in accordance with pressure-setting)
individual TÜV approval for the set opening pressure	
connections: G2 RH IG NPT 2" IG	

04/01/2022

“The most effective protection against overpressure from 5 mbar to 45 bar

For operators of pressurised systems and components they are the last line of defense before excess pressure becomes a disaster: Safety relief valves.

Safety relief valves from WITT provide effective protection against overpressure by blowing off vapours and gases from pipes, pressure vessels and system components.



Download brochure „Safety Relief Valves" at ▸ www.wittgas.com

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Series RF53N-ES

F53N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 225 m³/h FA TV
RF53N-ES: air max. 180 m³/h FA NV TV
RF53N/H-ES: air max. 46 m³/h FA NV TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
F53N-ES		
for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:		
1/4" NPT	IG → IG	145-227
F53N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	145-106
RF53N-ES		
for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:		
1/4" NPT	IG → IG	145-262
3/8" NPT	IG → IG	145-024
3/8 LH	MG → AGS	145-246
7/8" - 14 UNF VCR	AG → AG	145-142
RF53N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	145-107
3/8" NPT	IG → IG	145-121
3/8 LH	MG → AGS	145-232

Series RF85-10N-ES

F85-10N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 390 m³/h FA TV
RF85-10N-ES: air max. 315 m³/h FA NV TV
RF85-10N/H-ES: air max. 82 m³/h FA NV TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
F85-10N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
1/4" NPT	IG → IG	143-149
F85-10N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	143-100
RF85-10N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
1/4" NPT	IG → IG	143-061
3/8" NPT	IG → IG	143-119
9/16" - 18 UNF VCR	AG → AG	143-163
7/8" - 14 UNF VCR	AG → AG	143-134
3/8 LH	MG → AGS	143-054
RF85-10N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	143-077
3/8" NPT	IG → IG	143-087
7/8" - 14 UNF VCR	AG → AG	143-076
3/8 LH	MG → AGS	143-078

RF85-20N-ES

Air max. 360 m³/h

FA NV TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
for fuel gases (e.g. acetylene up to 2 bar) or oxygen:		
1/2" NPT	IG → IG	149-009
3/4" NPT	IG → IG	149-031
1" NPT	IG → IG	149-029

04/01/2022

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WITT
www.wittgas.com

Series RF85-30N-ES

data sheet

RF85-30N-ES:
Air max. 1,150 m³/h
FA | NV | TV

RF85-30N/H-ES:
Air max. 310 m³/h
FA | NV | TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
RF85-30N-ES		
for fuel gases except acetylene (e.g. hydrogen up to 4 bar) or oxygen:		
3/4" NPT	IG → IG	147-071
1" NPT	IG → IG	147-092
for acetylene (EPDM sealing ring (TV)):		
3/4" NPT	IG → IG	147-122
1" NPT	IG → IG	147-125
G 1.1/2 RH	IG → IG	147-124
RF85-30N/H-ES		
for fuel gases (e.g. hydrogen up to 11 bar):		
1 NPT	IG → IG	147-047
3/4" NPT	IG → IG	147-039

Safety Group 645

data sheet

Parallel connection from 2 or 4 flashback arrestors model RF85-30-ES, ideal for high consumption and high flows

Acetylene max. 392 m³/h
Fuel gases max. 2740 m³/h
Oxygen max. 1850 m³/h

DIN EN ISO 5175-1

FA | NV | TV

RF85-30N-ES (2- or 4-fold)

connection	inlet → outlet	order no.
for fuel gases or oxygen:		
DN 50 (2fold)	flange DIN 2633	182-045
DN 50 (4fold)	flange DIN 2633	182-042

F100N-ES

data sheet

Air max. 32 m³/h

FA | TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
for hydrogen (up to 17 bar):		
1/2" NPT	IG → IG	210000012
7/8" - 14 UNF VCR	AG → AG	210000019

F53

data sheet

As flame arrestor ideal for mounting in pipelines up to DN 10 and to protect appliances, e.g. gas analysers.

The volume protection device is ideal for protection of plants and equipment with a volume of max. 4.6 l.

FA

DIN EN ISO 16852

detonation/deflagration flame arrestor and volume protection

connection	inlet → outlet	order no.
detonation and deflagration flame arrestor F53:		
G 1/4"	IG → IG	145-258
detonation and deflagration volume protection device F53:		
G 1/4" - M12	IG → AG	145-250

26/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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Ultra 10

non-return valves "ULTRA"

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	034-004
1/2“ NPT	IG → IG	034-008

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Stainless Steel

Ultra 12

non-return valves "ULTRA"

data sheet

Based on ULTRA 10 - your customised model: various combinations of housing and sealing materials, with or without filter

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet
G 1/2 RH	IG → IG

design (modular system):

filter	seal O-ring	seal valve	housing
no	EPDM	EPDM	Stainless Steel

Other models and connection types on request

Ultra 20

non-return valves "ULTRA"

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar

Up to 16 bar / G 1“, 1/2“, 3/4“

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	036-023
G 3/4 RH	IG → IG	036-016
G 1 RH	IG → IG	036-017
1/2" NPT	IG → IG	036-025
3/4" NPT	IG → IG	036-018
1" NPT	IG → IG	036-019

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Stainless Steel

Ultra 22

non-return valves "ULTRA"

data sheet

Based on ULTRA 10 - your customised model: various combinations of housing and sealing materials, with or without filter

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet
G 1/2 RH	IG → IG

design (modular system):

filter	seal O-ring	seal valve	housing
no	EPDM	EPDM	Stainless Steel

Other models and connection types on request

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve
Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Ultra 30

non-return valves "ULTRA"

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar

Up to 16 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	033-006
1.1/2“ NPT	IG → IG	033-008

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Stainless Steel

Ultra 40

non-return valves "ULTRA"

data sheet

Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar

Up to 16 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	035-006
2.1/2“ NPT	IG → IG	035-005

design (standard):
filter: yes **seal O-ring:** NBR **seal valve:** CR **housing:** Stainless Steel

654-ES

non-return valves "standard"

data sheet

Up to 60 bar (O_2 up to 30 bar)

Air max. 130 m³/h

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1/8 RH	IG → AG	120.403033

NV 100

non-return valves "standard"

data sheet

Up to 25 bar

Air max. 130 m³/h

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1/4 RH	IG → IG	145GRS-009

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

NV 600H

non-return valves "standard"

data sheet

Up to 40 bar

DIN 8521-2

NV

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	037-064
G 3/4 RH	IG → IG	037-065
G 1 RH	IG → IG	037-048
1" NPT	IG → IG	037-084

NV 300

non-return valves "standard"

data sheet

Up to 16 bar

Air max. 3.260 m³/h

NV

DIN 8521-2

connection	inlet → outlet	order no.
G 1 RH	IG → IG	038-064
G 1.1/4 RH	IG → IG	038-072
1.1/4" NPT	IG → IG	038-061

NV 400

non-return valves "standard"

data sheet NV400

data sheet Intermediate flange version

Up to 16 bar

Air max. 8.100 m³/h

NV

DIN EN ISO 5175-2

also available as intermediate flange version, completely with intermediate welding neck flange set for easy installation and removal

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	038-014
G 2 RH	IG → IG	038-022
intermediate flange version:		
DN40	flange	038S-040ES
DN50	flange	038S-050ES

NV800-ES

non-return valves "standard"

data sheet

Up to 300 bar

connection	inlet → outlet	order no.
1/4" NPT	AG → AG	311-002

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

SV 805-ES

safety relief valve

Option: adapter for ventilation pipe

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

up to 45 bar

optional: adapter for ventilation pipe

CE0045

SV 805-ES	**order no.**
pressure settings:	
> 0.5 ≤ 45 bar	200-_ _ _
with standard connection, stainless steel 1.4541	
with standard connection, stainless steel 316L/1.4404	
with VCR connection, stainless steel 1.4541	
with VCR connection, stainless steel 316L/1.4404	
special sealing compound, surcharge	
Adapter to connect venting pipes to SV 805-ES	
connections M 24x1 AG → 1/2" NPT IG, st. steel 1.4541	801727800K
connections M 24x1 AG → 1/2" NPT VCR AG, st. steel 1.4404	801693000K

SV 805A-ES

safety relief valve

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

- manual ventilation -

up to 45 bar

CE0045

SV 805A-ES	**order no.**
with venting tool for manual ventilation, outlet: 1/2 NPT IG	
pressure settings:	
> 0.5 ≤ 45 bar	200A-_ _ _
with standard connection, stainless steel 1.4541	
with VCR connection, stainless steel 1.4541	
special sealing compound, surcharge	

SV 805 Smart

data sheet

Safety relief valve 805 including Smart function:

- optical signal (red/green diode) directly on the valve, indicates the open or closed condition

- digital signal through an NPN / PNP open collector signal

SV 805 Smart	**order no.**
pressure settings: > 0.5 ≤ 45 bar	200SMART-_ _ _
with standard connections, in stainless steel 316L/1.4404	
with VCR connection, in stainless steel 316L/1.4404	
signal cable with angled plug, 2 m	850022900
special sealing compound, surcharge	

SV 811L

safety relief valve

data sheet

Spring loaded, direct acting pressure relief valve for hydrogen-powered motor vehicles in accordance with the European regulation (EC) No. 79/2009, as implemented by regulation (EC) No. 406/2010

up to 45 bar

pressure settings	**order no.**
> 4.5 - 45 bar	200AU-L_ _ _ (in accordance with pressure-setting)
adapter for the connection to ventilation pipe at the outlet	
diff. connections	

04/01/2022

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

AV 319-ES

safety relief valve

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

pressure settings	order no.
10 - 80 mbar	120-_ _ _ (depending on pressure-setting)

individual TÜV approval for the set opening pressure

connections:
G 1/8 RH IG

AV 619-ES

safety relief valve

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

up to 500 mbar

pressure settings	order no.
5 - 500 mbar	300-_ _ _ (depending on pressure-setting)

individual TÜV approval for the set opening pressure

connections:

G1/2, G3/4, G1 RH IG	IG → IG
1/2“, 3/4“, 1“ NPT	IG → IG

AV 919-ES

safety relief valve

data sheet

For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units

up to 500 mbar

pressure settings	order no.
5 - 500 mbar	400-_ _ _ (depending on pressure-setting)

individual TÜV approval for the set opening pressure

connections:
G2 RH IG
NPT 2" IG

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Pressure regulator

for outlet points

To be connected directly to the outlet point

- displays pressure and flow via manometer and/or variable area flow meter
- inlet MG, outlet AGS

connections	manometer display	order no.
G 3/8 LH → G 3/8 LH	acetylene 0-1.5 bar	044112900
G 3/8 RH → G 1/4 RH	oxygen 0-10 bar	044226300
G 3/8 LH → G 3/8 LH	fuel gas 0-10 bar	044315000
G 3/8 RH → G 1/4 RH	nitrogen/air 0-10 bar	044526000
	flow display (manometer) argon, mixed gases and CO_2	
G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524100
	flow display (variable area flow meter) argon, mixed gases and CO_2	
G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524000

Pressure regulator

for cylinders

To be connected directly to the cylinder (200 bar), single-level

- displays pressure and flow via manometer and/or variable area flow meter
- inlet DIN 477, outlet AGS

connections	manometer display	order no.
clamp → G 3/8 LH	acetylene 0-1.5 bar	044113400
DIN 477 → G 1/4 RH	oxygen 0-10 bar	044227500
DIN 477 → G 1/4 RH	nitrogen 0-10 bar	044525500
DIN 477 → G 1/4 RH	argon or CO_2 0-10 bar	044525600
	flow display (manometer) argon, mixed gases and CO_2	
DIN 477 → G 1/4 RH	0 - 30 l/min	044525700
	flow display (variable area flow meter) argon, mixed gases and CO_2	
DIN 477 → G 1/4 RH	0 - 30 l/min	044525800

ADR 150

manifold pressure regulator for acetylene

data sheet

Powerful dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles

- optimal emptying of the bundle because of very low pressure difference
- extremly stable outlet pressure
- integrated blow-off valve
- flow capacity up to 150 m^3/h

connections	inlet pressure	outlet pressure	order no.
DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-002

special edition up to 2 bar outlet pressure available (on demand)

ADR 150F

manifold pressure regulator for acetylene

data sheet

Spring loaded dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles

Features - see ADR150, except: no pilot gas required

connections	inlet pressure	outlet pressure	order no.
DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-010

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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Dome Pressure Regulators


737LE


737LE-ES


737LE/S


737LE/S-ES

data sheet

series 737LE

	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	**model 737LE (brass), without pilot pressure regulator**			
	G 3/4" IG	60 bar	0.5-10 bar	278-091
	model 737LE/S (brass), set			
	G 3/4" IG	60 bar	0.5-10 bar	292-0006
	3/4" NPT IG	60 bar	0.5-10 bar	292-0072
STAINLESS STEEL	**model 737LE-ES (stainless steel), without pilot pressure regulator**			
	G 3/4" IG	60 bar	0.5-10 bar	278-108
	model 737LE/S-ES (stainless steel), set			
	G 3/4" IG	60 bar	0.5-10 bar	292-0046
	3/4" NPT IG	60 bar	0.5-10 bar	292-0096
	replacement filter Stainless steel (1.4301)100 µm			956.504300

series 737LE-HD (high pressure model)


737LE-HD


737LE-HD-ES


737LE-HD/S

data sheet


737LE-HD/S-ES

BRASS	**model 737LE-HD (brass), without pilot pressure regulator**			
	G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-116
	model 737LE-HD/S (brass), set			
	G 3/4" IG - 1" IG	300 bar	0.5-60 bar	292-0004
	3/4" NPT IG - 1" NPT IG	300 bar	0.5-60 bar	292-0069
	model 737LE-HD/S (brass), set - especially for CO_2			
	G 3/4" IG - 1" IG	100 bar	0.5-26 bar	292-0058
STAINLESS STEEL	**model 737LE-HD-ES (stainless steel), without pilot pressure regulator**			
	G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-117
	model 737LE-HD/S-ES (stainless steel), set (for O_2 max. up to Pv 30 bar)			
	G 3/4" IG - 1" IG	300 bar	0.5-60 bar	292-0056
	3/4" NPT IG - 1" NPT IG	300 bar	0.5-60 bar	292-0114
	replacement filter Bronze 100 µm			953.00030

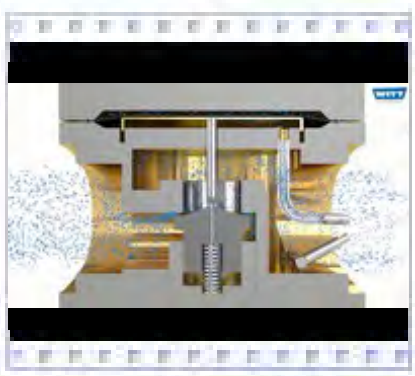
Pressure regulators for medium flows, with maximum pressure stability. Complete solution for installation in pipelines, universal model and high pressure model

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 62)
- easy to install and to be integrated into the process
- 1: 1 interchangeable with the previous version (please specify if desired)

*depending on type of gas

04/01/2022

“Maximum precision and unparalleled consistency: see how WITT Dome-loaded Pressure Regulators work



Whenever the highest pressure stability is required, even with fluctuating inlet pressures and flowrates, WITT dome pressure regulators are the best choice.
Watch our new video and learn why they show such a unique performance. Find out about highly diverse application and customization possibilities.

See also:

▸ www.domepressureregulators.com

WITT
www.wittgas.com

Dome Pressure Regulators

series 747LE


747LE


747LE-ES


747LE/S


747LE/S-ES

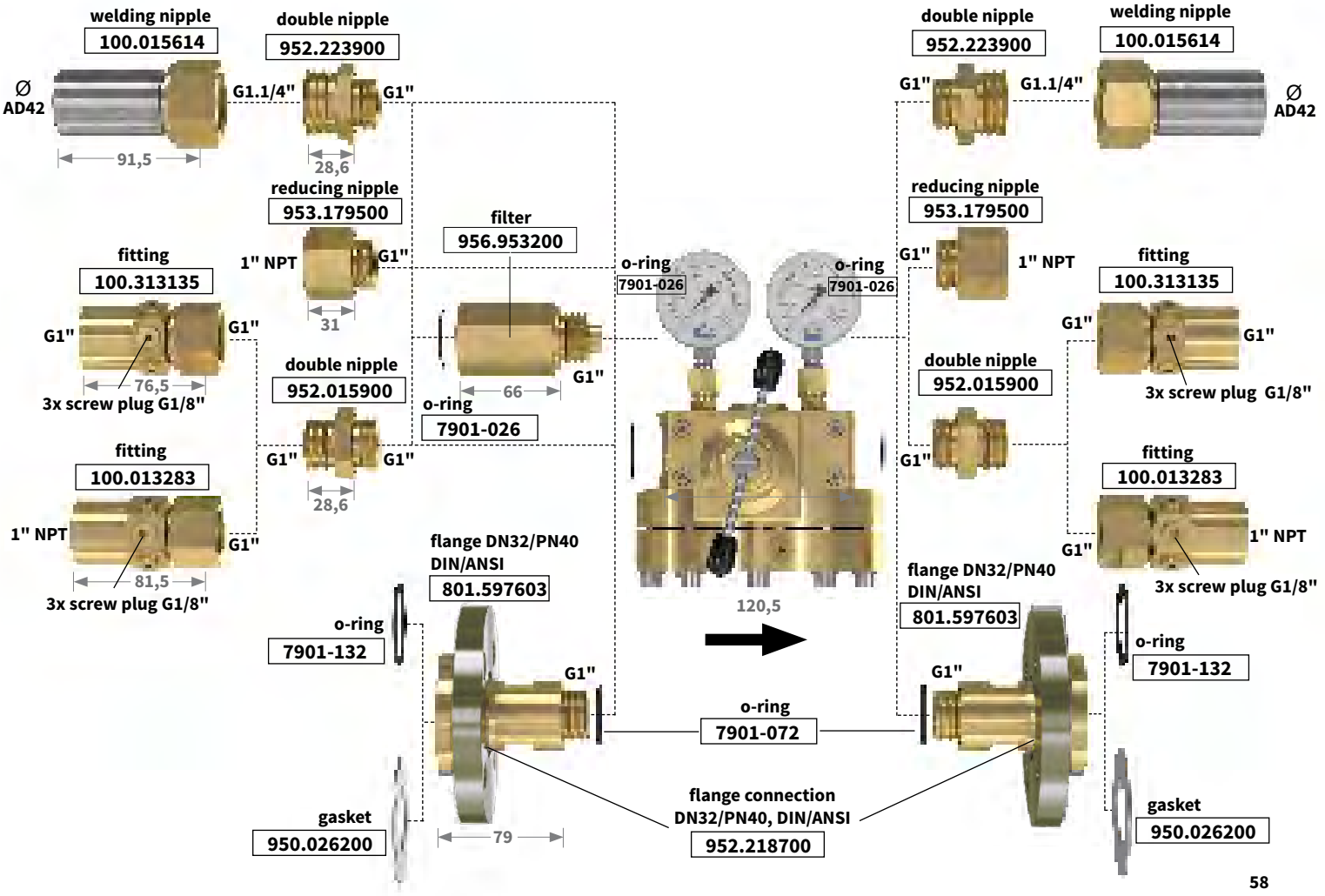
data sheet

Universal pressure regulators for high flows, with maximum pressure stability. Complete solution for installation in pipelines.

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 62)
- easy to install and to be integrated into the process

	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	**model 747LE (brass), without pilot pressure regulator**			
	G 1" IG	40 bar	0.5-30 bar	278-088
	model 747LE/S (brass), set			
	G 1" IG	40 bar	0.5-10 bar	292-0002
	G 1" IG	40 bar	0.5-30 bar	292-0009
	1" NPT IG	40 bar	0.5-10 bar	292-0102
	1" NPT IG	40 bar	0.5-30 bar	292-0031
	mounting parts (brass):			
	O-ring			7901-026
	gas filter			956.953200
	flange connection DIN DN32/PN40 (O-ring sealing)			952.218700
	flange DIN DN32/PN40			801.597603
	O-ring for flange DN32			7901-132
	O-ring for flange G1"			7901-072
	gasket for flange			950.026200
	double nipple G1" - G 1.1/4"			952.223900
	reducing nipple G1" - 1" NPT			953.179500
	double nipple G1" - G1"			952.015900
	welding nipple AD42 G 1.1/4"			100.015614
	fitting G1" - G1"			100.313135
	fitting G1" - 1" NPT			100.013283
STAINLESS STEEL	**model 747LE-ES (stainless steel), without pilot pressure regulator**			
	G 1" IG	40 bar	0.5-30 bar	278-099
	model 747LE/S-ES (stainless steel), set			
	G 1" IG	40 bar	0.5-10 bar	292-0027
	G 1" IG	40 bar	0.5-30 bar	292-0028
	1" NPT IG	40 bar	0.5-10 bar	292-_ _ _
	1" NPT IG	40 bar	0.5-30 bar	292-0109
	stainless steel mounting parts on demand			

*depending on type of gas



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Dome Pressure Regulators

series 757LE


757LE


757LE-ES


757LE/S


757LE/S-ES

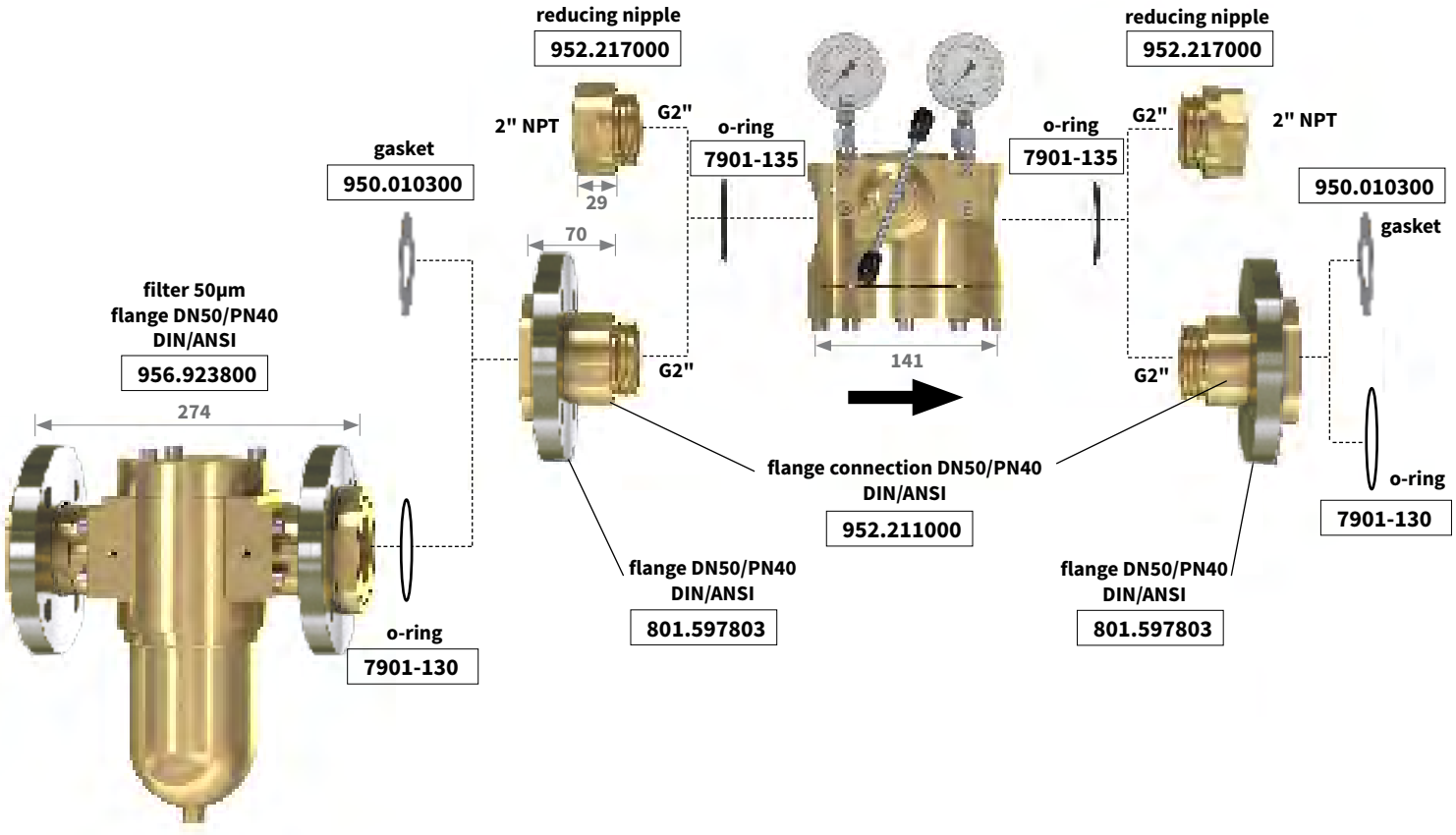
data sheet

High performance pressure regulators for high flows, with maximum pressure stability. Complete solution for installation in pipelines.

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit p.62)
- also available as „smart-model“ for the transmission of pressure, temperature and flow

	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	**model 757LE (brass), without pilot pressure regulator**			
	G 2" IG	40 bar	0.5-30 bar	278-089
	model 757LE/S (brass), set			
	flange DIN DN 50	40 bar	0.5-10 bar	292-0017
	flange DIN DN 50	40 bar	0.5-30 bar	292-0018
	G 2" IG	40 bar	0.5-10 bar	292-0003
	G 2" IG	40 bar	0.5-30 bar	292-0010
	2" NPT IG	40 bar	0.5-10 bar	292-0022
	2" NPT IG	40 bar	0.5-30 bar	292-0021
	mounting parts (brass):			
	O-ring for flange G2"			7901-135
	reducing nipple G2" - 2“ NPT			952.217000
	flange connection DIN DN50/PN40 (O-ring sealing)			952.211000
	flange DIN DN50/PN40			801.597803
	O-ring for flange DN50			7901-130
	gasket for flange			950.010300
	flange gas filter DIN DN50/PN40			956.923800
STAINLESS STEEL	**model 757LE-ES (stainless steel), without pilot pressure regulator**			
	G 2" IG	40 bar	0.5-30 bar	278-069
	model 757LE/S-ES (stainless steel), set			
	flange DIN DN 50	40 bar	0.5-10 bar	292-0037
	flange DIN DN 50	40 bar	0.5-30 bar	292-_ _ _
	G 2" IG	40 bar	0.5-10 bar	292-0019
	G 2" IG	40 bar	0.5-30 bar	292-_ _ _
	2" NPT IG	40 bar	0.5-10 bar	292-0061
	2" NPT IG	40 bar	0.5-30 bar	292-0026
	stainless steel mounting parts on demand			

* depending on type of gas



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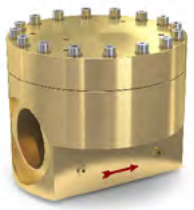
Dome Pressure Regulators

series 767LE


767LE


767LE-ES

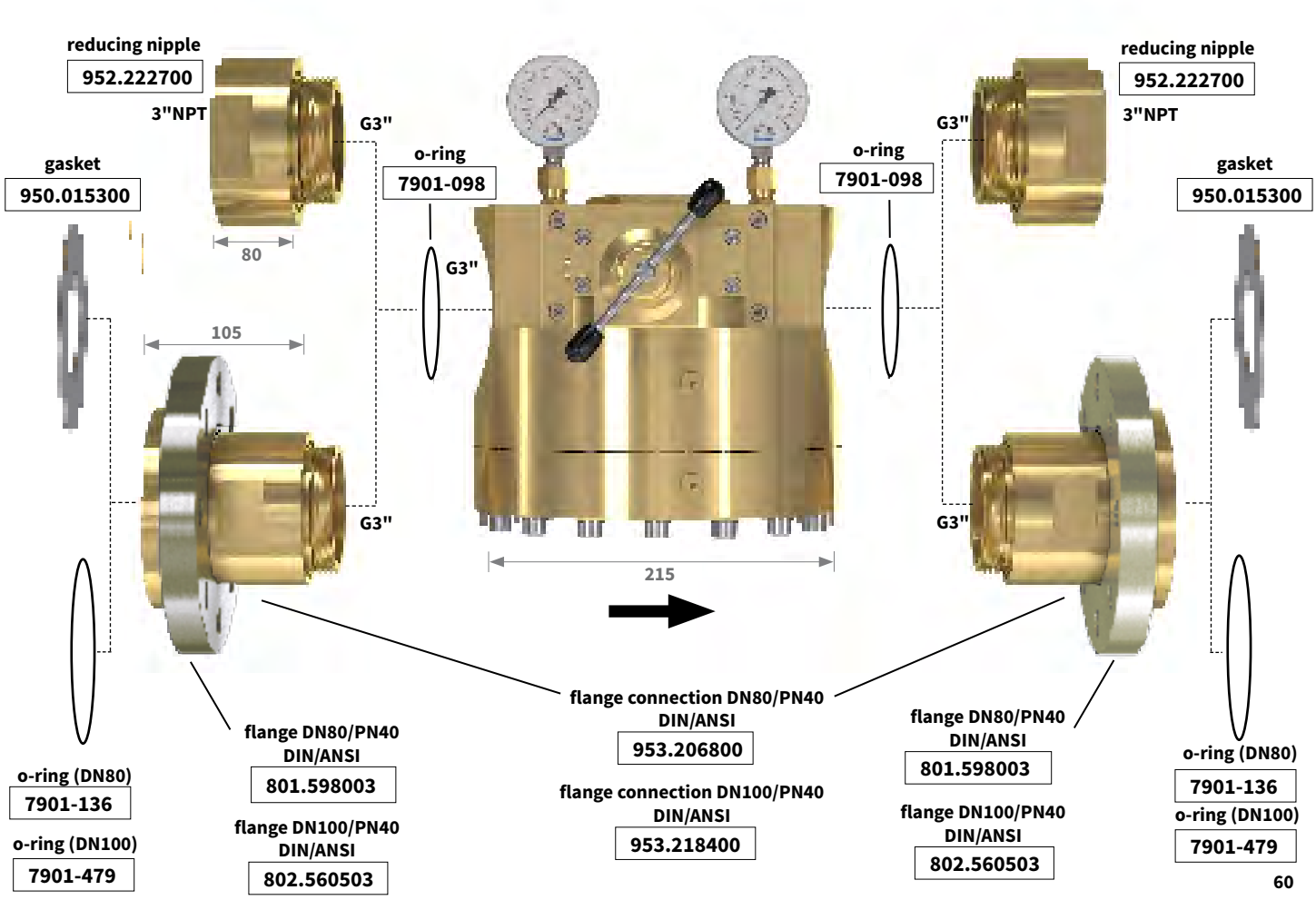
data sheet

High performance pressure regulators for very high flows, with maximum pressure stability. Complete solution for installation in pipelines.

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 62)
- easy to install and to be integrated into the process
- 1: 1 interchangeable with the previous version (please specify if desired)

	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	**model 767LE (brass), without pilot pressure regulator**			
	G 3" IG	40 bar	0.5-30 bar	278-090
	model 767LE/S (brass)			
	flange DIN DN 80	40 bar	0.5-10 bar	292-0008
	flange DIN DN 80	40 bar	0.5-30 bar	292-0005
	flange DIN DN 100	40 bar	0.5-10 bar	292-0013
	flange DIN DN 100	40 bar	0.5-30 bar	292-0066
	G 3" IG	40 bar	0.5-10 bar	292-0011
	G 3" IG	40 bar	0.5-30 bar	292-0012
	3" NPT IG	40 bar	0.5-10 bar	292-0108
	3" NPT IG	40 bar	0.5-30 bar	292-_ _ _
	mounting parts:			
	o-ring for flange G3"			7901-098
	reducing nipple G3" - 3"NPT			952.222700
	flange connection DIN DN80/PN40 (O-ring sealing)			953.206800
	flange DIN DN80/PN40			801.598003
	o-ring for flange DN100			7901-479
	flange connection DIN DN100/PN40 (O-ring sealing)			953.218400
	flange DIN DN100/PN40			802.560503
	o-ring for flange DN80			7901-136
	gasket for flange DN80			950.015300
STAINLESS STEEL	**model 767LE-ES (stainless steel), without pilot pressure regulator**			
	G 3" IG	40 bar	0.5-30 bar	278_ _ _
	model 767LE/S-ES (stainless steel)			
	flange DIN DN 80	40 bar	0.5-10 bar	292-_ _ _
	flange DIN DN 80	40 bar	0.5-30 bar	292-_ _ _
	flange DIN DN 100	40 bar	0.5-10 bar	292-_ _ _
	flange DIN DN 100	40 bar	0.5-30 bar	292-_ _ _
	G 3" IG	40 bar	0.5-10 bar	292-_ _ _
	3" IG	40 bar	0.5-30 bar	292-_ _ _
	3" NPT IG	40 bar	0.5-10 bar	292-_ _ _
	3" NPT IG	40 bar	0.5-30 bar	292-_ _ _

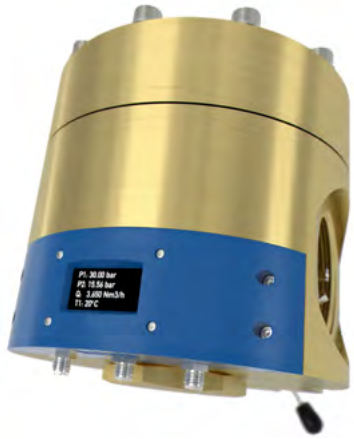
* depending on type of gas



Dome Pressure Regulators

747 LE/S Smart

data sheet



757 LE/S Smart

data sheet

767 LE/S Smart

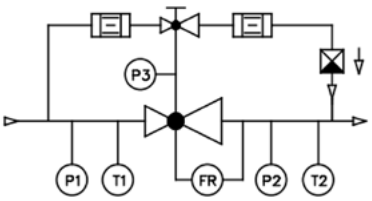
High performance dome-loaded pressure regulator set for inline installation, combined with high-tech sensor technology and electronic components.

- Signaling of inlet, outlet and pilot pressure
- Signaling of inlet and outlet temperature
- indication of the instantaneous gas flow rate
- digital display (optional)
- ideal for connected manufacturing

SMART models

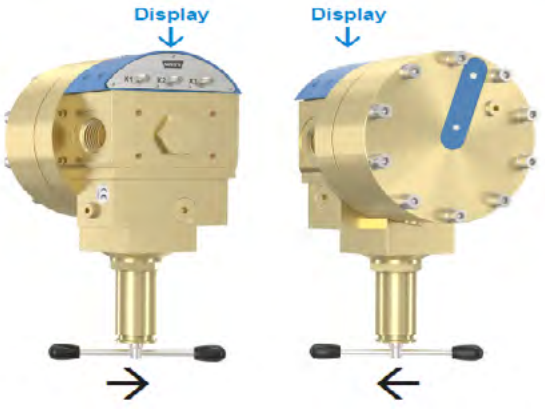
All brass models of the dome pressure regulators 747LE/S, 757LE/S and 767LE/S are available as Smart models.

Smart model variations	
„Standard“	
Display, indication of inlet pressure and temperature as well as outlet pressure and temperature	
„Standard + P3“	
„Standard“ features, plus indication of pilot pressure	
„Standard + Flow“	
„Standard“ features, plus indication of flow rate	
„Standard + P3 + Flow“	
"Standard" features, plus indication of pilot pressure and flow rate	
signal cable with angled plug (5 m) (3 cables are required to operate the device)	order no. 803097000
for mounting parts, options and maintenance kit see standard models	



P1 - inlet pressure
T1 - inlet temperature
P2 - outlet pressure
T2 - outlet temperature
P3 - pilot pressure
FR - flow rate

prescribed installation position
at selection of model variation with „Flow“



Dome Backpressure Regulator


BPR 2


BPR 2-ES

Backpressure regulators are used for process gas supply, in which the pressure must be kept or limited, e.g. for regulating the pressure of gas cushions in tanks

- integrated connections for pilot gas and manometer
- easy integration into the process

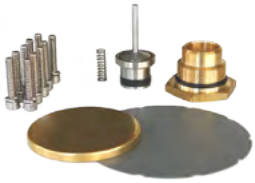
BPR 2

connections	adjustable upstream pressure	order no.
model BPR 2 (brass)		
G 2" IG	0.5-20 bar	276-001
model BPR 2 -ES (stainless steel)		
G 2" IG	0.5-20 bar	276-_ _ _

mounting parts see model 757LE (p. 54)

Accessories


lockable spindle cap


maintenance kit

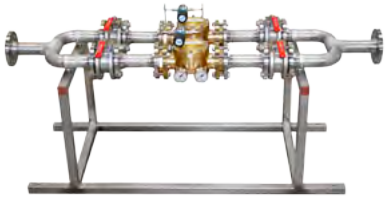
Accessories for WITT dome pressure regulators

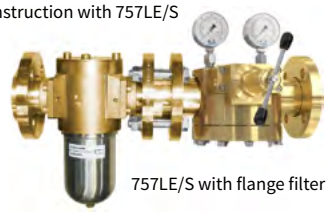
- lockable spindle cap prevents unwanted tempering of the pilot pressure
- maintenance kits**:** pre-mounted, for maintenance and servicing
- stainless steel wall mounting panels

for dome pressure regulators

	material	order no.
lockable spindle cap	stainless steel	966061400
maintenance kits:		
for model 737LE/S	brass	962.000085
for model 737LE-HD/S	brass	962.000084
for model 747LE/S	brass	962.000067
for model 757LE/S / 757LE/S Smart	brass	962.000065
for model 767LE/S	brass	962.000061
for model 737LE/S-ES	stainless steel	962.000087
for model 737LE-HD/S-ES	stainless steel	962.000088
for model 747LE/S-ES	stainless steel	962.000073
for model 757LE/S-ES	stainless steel	962.000086
for model 767LE/S-ES	stainless steel	962.000116
wall mounting panel for 737LE, 737LE-HD 747LE, 757LE	stainless steel	956.248100
wall mounting panel for 767LE	stainless steel	956.247700

Dome Pressure Regulators


parallel construction with 757LE/S


757LE/S with flange filter

engineering - planning and installation

Individual parallel construction

Example I:
4 ball valves stainless steel DN50/PN40
2 dome pressure regulators 757LE/S
manifold DN50, counter-flange, TÜV-testing, CE labeling
installation on welded mounting frame
Example II:
dome pressure regulator 757LE/S
with flange filter 50 µm filter fineness, for oxygen up to 30 bar
with dirt catcher
delivery completely assembled and tested

More customisations possible, for example central filter, safety valve, other connection sizes, etc.
Suitable for oxygen, tested and ready for use, short delivery time

04/01/2022

642 — pressure regulating station

data sheet

Mobile pressure regulating station, completely mounted and tested, ready-to-use

- for bundles
- with pressure regulator and safety devices

	order no.
oxygen (300 bar/ 0-20 bar)	190211111
acetylene (25 bar/ 0-1.5 bar)	183112120

643 — pressure regulating station

data sheet

Mobile pressure regulating station, completely mounted and tested, ready-to-use

- for bundles with 4-6 integrated outlet points
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

	order no.
4-outlets oxygen (300 bar/ 0-10 bar)	183000044
6-outlets oxygen (300 bar/ 0-10 bar)	183000049
4-outlets acetylene (25 bar/ 0-1.5 bar)	183000045
6-outlets acetylene (25 bar/ 0-1.5 bar)	183000050

Universal 704 — distribution station

704 - special edition

data sheet

Mobile pressure regulating station, completely mounted and tested, ready-to-use

- for pipelines or connected to model 642
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

	order no.
4-outlets oxygen (40 bar/ 0-10 bar) and acetylene (1.5 bar)	183000030
6-outlets oxygen (40 bar/ 0-10 bar) and acetylene (1.5 bar)	183000031

Universal V6 — distribution station

data sheet

Mobile pressure regulating station, completely mounted and tested, ready-to-use

- for pipelines or connected to model 642
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

	order no.
6-outlets oxygen (40 bar/ 0-10 bar)	183000153
6-outlets acetylene (1.5 bar)	183000154

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Pressure regulation station

684NG, single left

data sheet

150NF, switch-over

data sheet

DRS 150NAFT

data sheet

examples

For ensuring continuous acetylene supply into a ring pipe-line

DIN EN ISO 14114, acetylene regulation (TRAC)
Pressure regulators in accordance with ISO 7291

- completely mounted and tested, easy wall-mounting
- option: automatic switch-over (WITT-SWITCH)

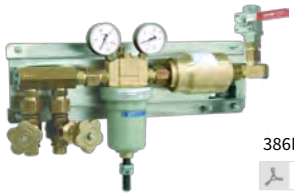
acetylene (25 bar)

model	connection	flow	order no.
DRS 684NG	single left, +HDS17* (VI)	10 Nm³/h	193-015-001
DRS 684NG	single left, +HDS17* (HI)	10 Nm³/h	193-016-001
DRS 684NG	single left, no HDS17 (VI)	10 Nm³/h	193-001-001
DRS 684NG	single left, no HDS17 (HI)	10 Nm³/h	193-006-001
DRS 386NPL	single left (VI)	30 Nm³/h	195-001-001
DRS 150NF	single left (VI)	150 Nm³/h	190_____
DRS 684NG	both-sided, +HDS17* (VI)	10 Nm³/h	193-003-001
DRS 684NG	both-sided, +HDS17* (HI)	10 Nm³/h	193-008-001
DRS 684NG	both-sided, no HDS17 (VI)	10 Nm³/h	193-002-001
DRS 684NG	both-sided, no HDS17 (HI)	10 Nm³/h	193-007-001
DRS 386NPL	both-sided (VI)	30 Nm³/h	195-002-001
DRS 150NF	both-sided (VI)	150 Nm³/h	190_____
DRS 684NGA (compatible with WITT-Switch)			
autom. switch-over, both-sided (VI)		10 Nm³/h	193-005-001
autom. switch-over, both-sided (HI)		10 Nm³/h	193-010-001
DRS 386NGA (compatible with WITT-Switch)			
autom. switch-over, both-sided (VI)		30 Nm³/h	193-012-001
autom. switch-over, both-sided (HI)		30 Nm³/h	193-014-001
ZDA, autom. switch-over, both-sided (HI)		30 Nm³/h	193-014-003
DRS 150NAFT (including WITT-Switch-Tronic)			
autom. switch-over, both-sided (HI)		150 Nm³/h	190-_____

**shut-off device, see p. 37* (VI) - *vertical inlet* (HI) - *horizontal inlet*

options: see below

Pressure regulation station



386NPL

data sheet

684NGA
automatic
switch-over

data sheet

WITT-Switch

data sheet

examples

For safeguarding the continuous central gas supply in a ring pipeline

Pressure regulators in accordance with ISO 7291

- completely mounted and tested, easy wall-mounting
- option: automatic switch-over (WITT-SWITCH)

oxygen / other technical gases (300 bar)

model	connection	flow	order no.
DRS 684NG	single left (VI)	75 Nm³/h	193-001-_ _ _
DRS 684NG	single left (HI)	75 Nm³/h	193-006-_ _ _
DRS 386NPL	single left (VI)	200 Nm³/h	195-001-_ _ _
DRS 684NG	both-sided (VI)	75 Nm³/h	193-002-_ _ _
DRS 684NG	both-sided (HI)	75 Nm³/h	193-007-_ _ _
DRS 386NPL	both-sided (VI)	200 Nm³/h	195-002-_ _ _
DRS 684NGA			
autom. switch-over	both-sided (VI)	75 Nm³/h	193-004-_ _ _
autom. switch-over	both-sided (HI)	75 Nm³/h	193-009-_ _ _
DRS 386NGA			
autom. switch-over	both-sided (VI)	200 Nm³/h	193-011-_ _ _
autom. switch-over	both-sided (HI)	200 Nm³/h	193-011-_ _ _

(VI) - *vertical inlet* (HI) - *horizontal inlet*

options (valid for acetylene, oxygen and other technical gases):

WITT Switch:	
control Unit for automatic switch over stations 684NGA and 386NGA	
menu language German	194-019
menu language English	194-019-01
menu language French	194-019-02
mandatory sign, conforms to type of gas	194-_ _ _
instruction plate, conforms to type of gas	194-_ _ _

Further accessories for higher pressures upstream, e.g.
hoses for bundle- and bottle-connections etc. on demand.

When ordering, please advise which gas.

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Series 610

610 - example

data sheet

Outlet point for the supply of technical gases from a ring pipe-line, to be mounted at the wall

- maximum 3 gases
- to be combied individually
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

		order no.
mounting plate (completely mounted and tested)		
610-1 one gas		290-_ _ _
610-2 two gases		290-_ _ _
610-3 three gases		290-_ _ _
ball valves	male thread	
fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078
outlet point pressure regulators		
acetylene max. 1.5 bar		044112900
oxygen max. 10 bar		044226300
shielding gas with manometer (0-30 l/min)		044524100
shielding gas with variable area flow meter (0-30 l/min)		044524000

For optional flashback arrestors and quick couplings see section 9-14

Series 603

603 - example

data sheet

Outlet point for the supply of technical gases from a ring pipe-line, to be mounted at the wall, modular and extendable

- extendable as required
- anti-swiveling fixed pressure regulator/flashback arrestors
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

		order no.
mounting plate (completely mounted and tested)		
603-1 one gas		280-_ _ _
603-2 two gases		280-_ _ _
603-3 three gases		280-_ _ _
603-X extendable at will		on demand
ball valves	male thread	
fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078
outlet points-pressure regulators		
acetylene max. 1.5 bar		044112900
oxygen max. 10 bar		044226300
shielding gas with manometer (0-30 l/min)		044524100
shielding gas with variable area flow meter (0-30 l/min)		044524000

For optional flashback arrestors and quick couplings see section 9-14

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Series 503

for cutting machines

503 - example

data sheet

Outlet point with integrated gas filters for the supply of cutting machines, for fuel gas, heating- and cutting-oxygen

- nickel-plated tube with nickel-plated wall screens
- inlet with fittings and ball valves, incl. gas filter 622, flashback arrestor 85-10
- DIN EN ISO 5175 preventing counter flow and flashback
- completely mounted and tested
- compact design

	order no.
outlet point 503 3-fold	280030091
1x acetylene, P inlet max. 1.5 bar, max 4.5 m³/h (inlet welding nipple OD 21.3mm, ball valve DN 10, gas filter 622, pressure regulator, flashback arrestor 85-10, outlet G 3/4 LH male with cone)	
1x oxygen for heating, P inlet max. 16 bar, max 45 m³/h (inlet pipe coupler for pipe 15x1, ball valve DN 10, gas filter 622, pressure regulator, flashback arrestor 85-10, outlet G 3/4 RH male with cone)	
1x oxygen for cutting, P inlet max. 16 bar, max 68 m³/h (inlet pipe coupler for pipe 15x1, ball valve DN 10, gas filter 622, pressure regulator, flashback arrestor 85-10, outlet G 3/4 RH male with cone)	

19/01/2022

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Series 722

test rig 722 + clamp 743

data sheet

	order no.
test set (test rig 722 + clamp 743)	101000013
test rig 722	101000010
clamp 743	101000012
inspection plates	801412700
measurement liquid 50 ml (U-tube)	956904000
adapters for other connections on demand	

product video and further information on
www.wittgas.com

Test rig for the annual testing of flashback arrestors and non-return valves up to DN 50, testing:

- leak-tightness to atmosphere
- non-return valve against low and high back pressure
- operating pressure of pressure sensitive gas cut off valve
- measuring of flow capacities of flashback arrestors

04/01/2022

“WITT - for your safety and peace of mind.

Ever increasing legal requirements plus the moral and financial costs of accidents place an even higher onus on safety.

Therefore, each company dealing with technical gases is well advised to make a realistic risk assessment and be sure to be following best practices.
Flashback arrestors and most other components of gas supply (acetylene, O_2, other fuel gases, inert gas) should be checked for safety at least annually.

WITT can support you: by providing advice and service as well as suitable test equipment - for your operating and legal certainty.

Talk to us: witt@wittgas.com or tel. 0049-(0)2302-89010

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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LK

lance holders

data sheet

Lance holders for oxygen

- for safe and confortable holding of lance
- for quick and safe changeover

model	inlet → outlet (Ø pipe in mm)	order no.
LK-3	G 3/4 AGS → 1/8" (9.1 - 10.2)	040996500
LK-4	G 3/4 AGS → 1/4" (12.0 - 13.7)	040996200
LK-5	G 3/4 AGS → 3/8" (16.0 - 17.2)	040996100
LK-6	G 3/4 AGS → 1/2" (20.0 - 21.5)	040996300
LK-7	G 1 AGS → 3/4" (26.0 - 27.3)	040687000
	inlet reducer:	
	G3/8 AGS → G3/4 IG	802339600K
	G1/2 AGS → G3/4 IG	802339700K
	G3/4 AGS → G 1 IG	802418700K

SRV

backfire stop

data sheet

Backfire stop with temperature controlled cut-off valve

- protects against gas return and flashback
- combinable with WITT oxygen lancing equipment
- with copper sealing

model	inlet → outlet	order no.
SRV-2.1	3/4“ AGS → 3/4“ IG (up to LK 4)	040996400
SRV-2.2	3/4“ AGS → 3/4“ IG (from LK 5)	040686100
SRV-3	1“ AGS → 1“ IG (from LK 7)	040686200
	inlet reducer:	
	G3/8 AGS → G3/4 IG	802339600K
	G1/2 AGS → G3/4 IG	802339700K
	G3/4 AGS → G 1 IG	802418700K

GHV

safety lancing valve

data sheet

Safety lancing valve with lever operation

- lever valve for an immediate interruption of gas supply when let go
- combinable with WITT oxygen lancing equipment

model	inlet → outlet	order no.
GHV	G 3/4 AGS → G 3/4 MG	040210200

KLK

lance holder compact

data sheet

Compact lance holder, with integrated lever valve, non-return valve and temperature controlled cut-off valve

- combination of several safety elements in one device
- compact and ergonomic

model	inlet → outlet (Ø pipe in mm)	order no.
KLK-4	G 3/4 AGS → 1/4" (12.0 - 13.7)	040210400
KLK-5	G 3/4 AGS → 3/8" (16.0 - 17.2)	040210500
KLK-6	G 3/4 AGS → 1/2" (20.0 - 21.5)	040210600

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Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Shut-off valve

data sheet

Shut-off valve for oxygen

- for the manual interruption of gas supply

model	connection	order no.
cut-off valve	G 3/4 IG	800721400
working-overpressure max. 25 bar		
adapter	G 3/4 AGS → G 3/4 AGS	952023700
adapter	G 3/4 AG → G 3/4 MG	100011116

04/01/2022

“From the outlet point to the lance...

In this overview you will find the whole WITT portfolio of oxygen-lancing equipment, clearly laid out by module.

Download at ▸ www.wittgas.com

For an overview of our support material see p. 82-83

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

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622

Modell C

Modell D

Modell A

data sheet

For reliable protection against contamination by ultrafine filtering of particulates (approx. 40 µm)

- broad range of uses
- change of filter possible while installed
- high flowrate
- easy mounting
- increases service life of downstream fittings and equipment

model	connections	order no.
622 A	G3/8 IG - G3/8 RH AGS	186-001
622 A	G3/8 IG - G3/8 LH AGS	186-003
622 C	G1/2 IG - G3/8 LH AGS	186-004
622 D	G1/2 IG - G3/8 LH AGS	186-005
replacement filter		955003000

77

data sheet

For reliable protection against contamination by ultrafine filtering of particulates and moisture

- with condensate drain
- increases service life of downstream fittings and equipment
- change of filter possible while installed
- high flowrate

model	connections	order no.
77 (approx. 40 µm)	G 3/4 IG	077-001
replacement filter 3-part		FI-077
77 (approx. 10 µm)	G 3/4 IG	077-004
replacement filter 3-part		FI-078
77 (approx. 50 µm)	G 3/4 IG	077-010
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B
77 (approx. 5 µm)	G 3/4 IG	077-012
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B8
installation kit enabling active monitoring of filter contamination by means of differential pressure		966.0313

625

data sheet

For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 40 µm)

- with condensate drain
- increases service life of downstream fittings and equipment
- change of filter possible while installed
- high flowrate

model	connections	order no.
625	G 1.1/4 AG	042-001
625	flange DN 25	042-007
625	flange DN 32	042-006
625	flange DN 40	042-015
625	flange DN 50	042-016
625	flange DN 80	042-009
replacement filter 4-part		FI-625

57

pure filter

data sheet

For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (~3 µm)

- resistant to corrosion by stainless steel filter inserts
- high flowrate
- increases service life of downstream fittings

model	connections	order no.
57	G 3/8 IG - G 3/8 AGS	184007070
replacement filter		FI-057

04/01/2022

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

24. GAS FILTERS

807

data sheet

For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (approx. 5 µm)

- resistant to corrosion by stainless steel filter inserts
- high flowrate
- increases service life of downstream fittings and equipment

pure filter

model	connections	order no.
807 (approx. 5 µm)	1/4" NPT IG	185-002
replacement filter		956333400

HD

data sheet

For reliable protection against micro-contamination of gases, for installation in gas pipelines

- filter inserts in chromium-nickel-steel
- high flowrate
- increases service life of downstream fittings and equipment

stainless steel filter

model	connections	order no.
HD (approx. 30 µm)	G 3/4 IG	187-005
HD (approx. 80 µm)	G 3/4 IG	187-004
replacement filter 30 µm		FI-187-30
replacement filter 80 µm		FI-187

25. METERING VALVES

PMV

data sheet

For precise setting of gas volumes, e.g. in laboratory or for burner supply

- for very small gas flow rates
- resistant to dirt compared to needle valves
- available with three different degrees of fineness
- available as mounted block or just as valve cartridge

precision metering valve

model
PMV with digital knob and locking ring
PMV with standard knob
metering valve cartridge

“The best precision metering valve for very low flow rates

Available as single valve cartridge or in a block with different knobs:
– standard knob with 14 turn spindle
– digital knob with 1499 divisions and locking ring

Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Ball valves

for acetylene

example

data sheet

PN25
up to max. 1.5 bar working pressure

DIN ISO 228/1

- housing: steel
- female connections

DN / connection	length	order no.
6 / G 1/4	50 mm	198105050
8 / G 3/8	55 mm	198107071
12 / G 1/2	75 mm	198109091
20 / G 3/4	80 mm	198111110
25 / G 1	90 mm	198113130
32 / G 1.1/4	110 mm	198115152
40 / G 1.1/2	120 mm	198117172

Ball valves

for methane, LPG, shielding gas, air

example

data sheet

PN25
up to max. 25 bar working pressure

DIN ISO 228/1

- housing: steel
- female connections

DN / connection	length	order no.
6 / G 1/4	50 mm	198305050
8 / G 3/8	55 mm	198307070
12 / G 1/2	75 mm	198309090
20 / G 3/4	80 mm	198311110
25 / G 1	90 mm	198313130
32 / G 1.1/4	110 mm	198315150
40 / G 1.1/2	120 mm	198317170

Ball valves

for oxygen

example

data sheet

PN10
up to max. 10 bar working pressure

DIN ISO 228/1

- housing: steel
- female connections

DN / connection	length	order no.
6 / G 1/4	50 mm	198205050
8 / G 3/8	55 mm	198207070
12 / G 1/2	75 mm	198209090
20 / G 3/4	80 mm	198211110
25 / G 1	90 mm	198213130
32 / G 1.1/4	110 mm	198215151
40 / G 1.1/2	120 mm	198217170

Ball valves

for oxygen

example

data sheet

PN40
burn out safe
up to max. 40 bar working pressure

DIN ISO 228/1

- housing: brass
- female connections

DN / connection	length	order no.
6 / G 1/4	50 mm	198205052
8 / G 3/8	55 mm	198207075
12 / G 1/2	75 mm	198209092
20 / G 3/4	80 mm	198211112
25 / G 1	90 mm	198213131
32 / G 1.1/4	110 mm	198215150
40 / G 1.1/2	120 mm	198217172

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Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

Ball valves

data sheet

PN40

EN 560

- housing: nickel-plated brass
- male connections

DN / connection	length	order no.
for acetylene (max. 1.5 bar):		
10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
for fuel gases (max. 40 bar):		
10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
for oxygen (max. 30 bar):		
10 / G 3/8 RH AGS - two-sided	89 mm	198207072
for shielding gas (max. 40 bar):		
10 / G 3/8 RH AGS - two-sided	89 mm	198307078

Flange ball valve

example

data sheet

PN25 / PN40

EN 558-1 (DIN 3202)

- housing: steel

DN	length	order no.
for acetylene (max. 1.5 bar):		
20	150 mm	198150500
25	160 mm	198147470
32	130 mm	198152521
40	140 mm	198153531
50	150 mm	198154542
65	170 mm	198155551
80	180 mm	198156560
100	190 mm	198157570
for air and shielding gas (max. 40 bar):		
20	150 mm	198350502
25	160 mm	198351515
32	130 mm	198252525
40	140 mm	198353533
50	150 mm	198354543
for air and shielding gas (max. 25 bar):		
65	170 mm	198355553
80	180 mm	198356561
100	190 mm	198357571
for oxygen (max. 10 bar):		
20	150 mm	198250500
25	160 mm	198247470
32	130 mm	198252521
40	140 mm	198253532
50	150 mm	198254540
65	170 mm	198255551
80	180 mm	198256561
100	190 mm	198257570

Flange ball valves

for oxygen

example

data sheet

PN40
up to max. 40 bar working pressure

- housing: stainless steel
- burn-out safe

DN	length	order no.
20	150 mm	198250502
25	160 mm	198251510
32	130 mm	198252523
40	140 mm	198253534
50	150 mm	198254543
65	170 mm	198255552
80	180 mm	198256562
100	190 mm	198257571

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Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 81.

26. BALL VALVES

High pressure ball valves

for acetylene

PN320

max. 25 bar

DIN ISO 228/1

- housing: steel
- female connections

DN / connection	length	order no.
6 / G 1/4	50 mm	198105055
6 / G 3/8	72 mm	198107077
10 / G 3/8	55 mm	198107078
10 / G 1/2	72 mm	198109099
10 / G 3/4 LH AG flat	82 mm	198112120
12 / G 1/2	75 mm	198909090
20 / G 3/4	80 mm	198111116

27. SAFETY HOSE REELS

DS Automatic

for fuel gases and oxygen

data sheet

Safety hose reel with twin hoses DN 9/6,3

- drum breaking mechanism prevents strain on hose
- guide rails on both sides ensure neat and strain-free rolling
- various mounting options
- ball-bearing mounted drum

model	length of hose	order no.
DS-08	8 m	060120800
DS-10	10 m	060121000
DS-15	15 m	060121500
DS-20	20 m	060122000
DS-25	25 m	060122500
DS-30	30 m	060123000

04/01/2022

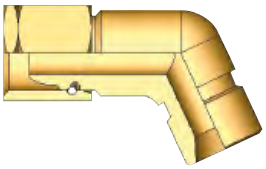
“More than standard connections, pressures and performance.

When we say, "Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand" this is not just a standard text on our data sheets and catalogues, it's our daily work.

For most models we offer many more options than the standard versions.

Angle adapters

connection A



connection B

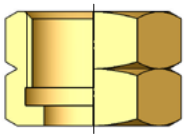
PN10

EN 560

- A=MG
- angle: 115°
- B=AGS

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005059
G 3/8 RH	G 1/4 RH	100107051
G 3/8 RH	G 3/8 RH	100107079
G 3/8 LH	G 3/8 LH	100008089
G 3/8 LH	M 14x1.5 RH	100008651

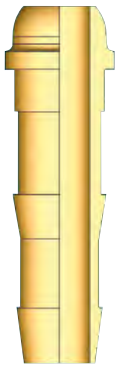
Nuts



EN 560

connection	order no.
G 1/4 LH	951001000
G 1/4 RH	951000900
G 3/8 LH	951000800
G 3/8 RH	951000700
G 1/2 LH	951000600
G 1/2 RH	951000500
G 3/4 LH	951001600
G 3/4 RH	951001500
G 1 LH	951001400
G 1 RH	951001300
for nozzle Ø ≥12.5 mm:	
G 1/2 RH	951019900
G 1/2 LH	951020000

Nipples



DN

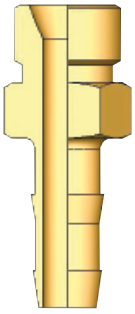
EN 560

female connection

for nuts	for hose DN	order no.
G 1/4	4.0	952057900
G 1/4	6.3	952022100
G 3/8	4.0	952058000
G 3/8	6.3	952022200
G 3/8	8.0	952028600
G 3/8	9.0	952022300
G 1/2	6.3	952030800
G 1/2	9.0	952035200
G 1/2	11.0	952022400
G 1/2	12.5	952035300
G 3/4	11.0	952022500
G 3/4	16.0	952022600

Nipples

connection A



DN

EN 560

- A=AGS

male connection

connection A	for hose DN	order no.
G 1/4 RH	4.0	952031000
G 1/4 RH	6.3	952027400
G 3/8 RH	6.3	952031400
G 3/8 RH	9.0	952031600
G 3/8 LH	9.0	952027200
G 1/2 RH	9.0	952031800
G 1/2 LH	9.0	952031700
G 1/2 RH	11.0	952031900
G 1/2 LH	11.0	952027000

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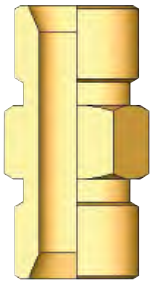
WITT
www.wittgas.com

Screwed couplings

male connections

connection A



connection B

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	952006000
G 3/8 RH	G 1/4 RH	952007200
G 3/8 LH	G 1/4 RH	952007100
G 3/8 RH	G 3/8 RH	952007000
G 3/8 RH	G 3/8 LH	952007300
G 3/8 LH	G 3/8 LH	952007400
G 3/8 RH	G 1/2 RH	952015800
G 3/8 LH	G 1/2 RH	952006900
G 1/2 RH	G 1/4 RH	952014200
G 1/2 RH	G 1/2 RH	952016700
G 1/2 LH	G 1/2 RH	952016800
G 3/4 RH	G 3/8 RH	952030300
G 3/4 RH	G 3/8 LH	952042800
G 3/4 RH	G 1/2 RH	952035700
G 3/4 RH	G 1/2 LH	952042700
G 3/4 RH	G 3/4 RH	952023700
G 3/4 RH	G 3/4 LH	952023600
G 3/4 LH	G 3/4 LH	952023500
G 1 LH	G 1 RH	952073600
G 1 LH	G 1 LH	952071400
G 1 RH	G 1 RH	952030200

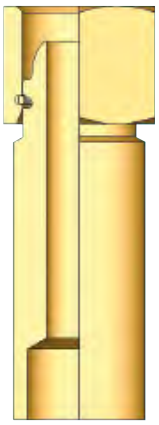
Male threads on both sides

EN 560

- A=AGS
- B=AGS

Soldering nipple

connection B



connection A

connection A	connection B	order no.
12 mm	G 3/8 RH	100007760
12 mm	G 3/8 LH	100008760
15 mm	G 1/2 RH	100009613
15 mm	G 1/2 LH	100010613
16 mm	G 1/2 RH	100009617
18 mm	G 1/2 RH	100009612
18 mm	G 1/2 LH	100010612
22 mm	G 1/2 RH	100009820
22 mm	G 1/2 LH	100010820
22 mm	G 3/4 RH	100011612
22 mm	G 3/4 LH	100012611
28 mm	G 3/4 RH	100011610
28 mm	G 3/4 LH	100012612
28 mm	G 1 RH	100013611
28 mm	G 1 LH	100014615
35 mm	G 1 RH	100013616
35 mm	G 1 LH	100014614
42 mm	G 1.1/4 RH	100015611
42 mm	G 1.1/4 LH	100016612

For pipes, with nut

EN 560

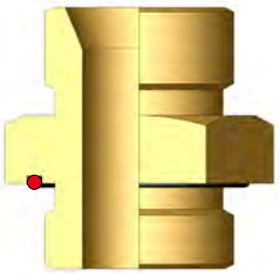
- A=pipe Ø
- B=MG

04/01/2022

WITT
www.wittgas.com

Screwed couplings

connection B



connection A

Male thread, O-ring

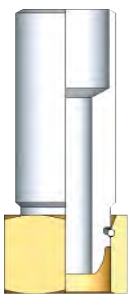
EN 560

- A=AG / O-ring
- B=AGS

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	952095700K
G 1/4 RH	G 1/4 LH	952095800K
G 1/4 RH	G 3/8 RH	952122400K
G 1/4 RH	G 3/8 LH	952068600K
G 3/8 RH	G 1/4 RH	952059600K
G 3/8 RH	G 3/8 RH	953138500K
G 3/8 RH	G 3/8 LH	952133500K
G 3/8 RH	G 1/2 RH	952103600K
G 3/8 RH	G 1/2 LH	952046500K
G 3/8 RH	G 3/4 LH	952106800K
G 3/8 RH	G 3/4 RH	952130000K
G 1/2 RH	G 1/4 RH	952014000K
G 1/2 RH	G 3/8 RH	952014100K
G 1/2 RH	G 3/8 LH	952013700K
G 1/2 RH	G 1/2 RH	952013800K
G 1/2 RH	G 1/2 LH	952013900K
G 1/2 RH	G 3/4 RH	952017800K
G 1/2 RH	G 3/4 LH	952017700K
G 1/2 RH	G 1 RH	952017500K
G 1/2 RH	G 1 LH	952017600K
G 3/4 RH	G 3/8 RH	952050400K
G 3/4 RH	G 3/8 LH	952064900K
G 3/4 RH	G 1/2 RH	952067600K
G 3/4 RH	G 1/2 LH	952026900K
G 3/4 RH	G 3/4 RH	952015000K
G 3/4 RH	G 3/4 LH	952014300K
G 3/4 RH	G 1 RH	952015100K
G 3/4 RH	G 1 LH	952020300K
G 1 RH	G 3/8 RH	952049700K
G 1 RH	G 3/8 LH	952049800K
G 1 RH	G 1/2 RH	952049600K
G 1 RH	G 1/2 LH	952016200K
G 1 RH	G 3/4 RH	952016100K
G 1 RH	G 3/4 LH	952016000K
G 1 RH	G 1 RH	952015900K
G 1 RH	G 1 LH	952036000K
G 1 RH	G 11/4 RH	952048200K
G 1 RH	G 11/4 LH	952048300K
G 11/4 RH	G 1 RH	952073500K
G 11/4 RH	G 1 LH	952093100K
G 1.1/4 RH	G 1.1/4 RH	952073400K
G 1.1/4 RH	G 1.1/4 LH	952070100K
G 1.1/4 RH	G 1.1/2 RH	952101100K
G 1.1/2 RH	G 1/2 RH	952102800K
G 1.1/2 RH	G 3/4 LH	952046300K
G 1.1/2 RH	G 1 RH	952038700K
G 1.1/2 RH	G 1 LH	952036100K
G 1.1/2 RH	G 1.1/4 RH	952028200K
G 1.1/2 RH	G 1.1/4 LH	952023000K
G 1.1/2 RH	G 1.1/2 RH	952060100K

Welding nipples

connection A



connection B

For pipes, with nut

EN 560

- A=pipe Ø
- B=MG

connection A	connection B	order no.
21.3 mm	G 3/8 LH	100008810
21.3 mm	G 3/8 RH	100007611
21.3 mm	G 1/2 LH	100010610
21.3 mm	G 1/2 RH	100009610
26.9 mm	G 1/2 LH	100010611
26.9 mm	G 3/4 LH	100012610
26.9 mm	G 3/4 RH	100011611
26.9 mm	G 1 LH	100014610
26.9 mm	G 1 RH	100013610
33.7 mm	G 1 LH	100014612
33.7 mm	G 1 RH	100013614
42.0 mm	G 1.1/4 LH	100016610
42.0 mm	G 1.1/4 RH	100015610

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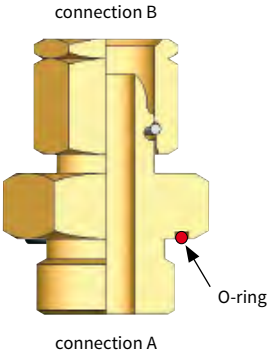
Male / female couplings



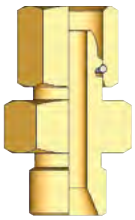
Male thread, O-ring and nut

EN 560

- A=AG / O-ring
- B=MG

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005055K
G 1/4 RH	G 1/4 LH	100005060K
G 1/4 RH	G 3/8 RH	100107054K
G 1/4 RH	G 3/8 LH	100008051K
G 3/8 RH	G 3/8 LH	100008073K
G 3/8 RH	G 1/2 LH	100010070K
G 3/8 RH	G 1/2 RH	100009073K
G 3/8 RH	G 3/8 RH	100207071K
G 1/2 RH	G 3/8 RH	100007092K
G 1/2 RH	G 3/8 LH	100008092K
G 1/2 RH	G 1/2 RH	100009094K
G 1/2 RH	G 1/2 LH	100010091K
G 1/2 RH	G 3/4 RH	100111090K
G 1/2 RH	G 3/4 LH	100012090K
G 1/2 RH	G 1 RH	100013096K
G 3/4 RH	G 1/2 RH	100009115K
G 3/4 RH	G 1/2 LH	100010110K
G 3/4 RH	G 3/4 RH	100011116K
G 3/4 RH	G 3/4 LH	100012110K
G 3/4 RH	G 1 RH	100013114K
G 3/4 RH	G 1 LH	100014110K
G 1 RH	G 1/2 LH	100010130K
G 1 RH	G 3/4 RH	100011130K
G 1 RH	G 3/4 LH	100012130K
G 1 RH	G 1 RH	100013135K
G 1 RH	G 1 LH	100014131K
G 1 RH	G 1.1/4 RH	100015130K
G 1 RH	G 1.1/4 LH	100016130K
G 1.1/4 RH	G 1.1/4 RH	100015155K

Male / female couplings



Male thread, nut

EN 560

- A=MG
- B=AGS

connection A	connection B	order no.
G 1/4 RH	G 3/8 RH	100005072
G 1/4 RH	G 3/8 LH	100005081
G 3/8 RH	G 1/4 RH	100107053
G 3/8 RH	G 3/8 LH	100007086
G 3/8 LH	G 3/8 LH	100108081
G 3/8 RH	G 3/8 RH	100107072
G 3/8 LH	G 3/8 RH	100008077
G 3/8 RH	G 1/2 RH	100007095
G 3/8 RH	G 1/2 LH	100007101
G 3/8 LH	G 1/2 RH	100008093
G 3/8 LH	G 1/2 LH	100008106
G 1/2 RH	G 1/2 LH	100009103
G 1/2 RH	G 1/4 RH	100009055
G 1/2 RH	G 3/8 LH	100009080
G 3/4 RH	G1/2 RH	100011092
G 1 RH	G 3/4 RH	100013116
G 1 RH	G 3/4 LH	100013121
G 1 RH	G 1 LH	100013140

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Cap with chain

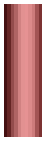
connection A

EN 560

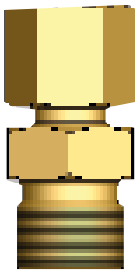
- A=MG

connection A	order no.
G 1/4 RH	100005000
G 3/8 RH	100007000
G 3/8 LH	100008000
G 1/2 RH	100009000
G 1/2 LH	100010000
G 3/4 RH	100011000
G 3/4 LH	100012000
G 1 RH	100013000
G 1 LH	100014000

WITTFIX-pipe couplings



pipe



WITTFIX

nut

connection A

data sheet

For copper- or stainless steel pipes
max. 25 bar working pressure

EN 560

- A=AG
- containing: nut, O-ring, pressure ring, screwed coupler, cap nut

pipe Ø mm	connection A	order no.
6 x 1.0	G 1/8 RH	956608900
6 x 1.0	1/4" NPT	956705200
6 x 1.0	G 1/4 RH	956580300
6 x 1.0	G 3/8 RH	956544100
8 x 1.0	G 1/8 RH	956567300
8 x 1.0	1/4" NPT	956739900
8 x 1.0	G 1/4 RH	956543900
8 x 1.0	G 3/8 RH	956739800
8 x 1.0	G 1/2 RH	956740000
10 x 1.0	1/4" NPT	956683200
10 x 1.0	G 1/4 RH	956940200
10 x 1.0	3/8" NPT	956673500
10 x 1.0	G 3/8 RH	956532000
10 x 1.0	G 1/2 RH	956794700
12 x 1.0	1/4" NPT	956680700
12 x 1.0	G 1/4 RH	956551900
12 x 1.0	G 3/8 RH	956743700
12 x 1.0	1/2" NPT	956553200
12 x 1.0	G 1/2 RH	956668700
15 x 1.0	3/8" NPT	956678400
15 x 1.0	1/2" NPT	956678200
15 x 1.0	G 1/2 RH	956657700
22 x 1.0	G 1 RH	956657800

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WITTFIX-pipe couplings

data sheet

For the integration of a safety device into copper or stainless steel pipelines

max. 25 bar working pressure

thread-connection: EN 560

- A=AGS
- B=MG

pipe Ø mm	connection A	connection B	order no.
6 x 1.0	G 1/4 RH		956725400
6 x 1.0	G 3/8 LH		956659700
6 x 1.0	G 3/8 RH		956725500
6 x 1.0		G 1/4 RH	956745700
6 x 1.0		G 3/8 LH	956659600
6 x 1.0		G 3/8 RH	956741800
8 x 1.0	G 1/4 RH		956753600
8 x 1.0	G 3/8 LH		956723700
8 x 1.0	G 3/8 RH		956746300
8 x 1.0	G 1/2 LH		956725700
8 x 1.0	G 1/2 RH		956725600
8 x 1.0		G 1/4 RH	956746200
8 x 1.0		G 3/8 LH	956740100
8 x 1.0		G 3/8 RH	956623000
8 x 1.0		G 1/2 LH	956753900
8 x 1.0		G 1/2 RH	956754000
10 x 1.0	G 1/4 RH		956753700
10 x 1.0	G 3/8 LH		956725800
10 x 1.0	G 3/8 RH		956725900
10 x 1.0	G 1/2 LH		956726100
10 x 1.0	G 1/2 RH		956726000
10 x 1.0		G 1/4 RH	956648100
10 x 1.0		G 3/8 LH	956753400
10 x 1.0		G 3/8 RH	956718100
10 x 1.0		G 1/2 LH	956754900
10 x 1.0		G 1/2 RH	956755000
12 x 1.0	G 1/4 RH		956755100
12 x 1.0	G 3/8 LH		956677400
12 x 1.0	G 3/8 RH		956717900
12 x 1.0	G 1/2 LH		956726400
12 x 1.0	G 1/2 RH		956726300
12 x 1.0		G 1/4 RH	956754800
12 x 1.0		G 3/8 LH	956668600
12 x 1.0		G 3/8 RH	956717100
12 x 1.0		G 1/2 LH	956697500
12 x 1.0		G 1/2 RH	956697600
15 x 1.0	G 3/8 LH		956678900
15 x 1.0	G 3/8 RH		956678500
15 x 1.0	G 1/2 LH		956679100
15 x 1.0	G 1/2 RH		956678700
15 x 1.0		G 3/8 LH	956679000
15 x 1.0		G 3/8 RH	956678600
15 x 1.0		G 1/2 LH	956679200
15 x 1.0		G 1/2 RH	956678800

04/01/2022

Types of threads:

IG -
simple
female thread

AG -
simple
male thread

MG -
female thread with ball head,
metallic self-sealing

AGS -
male thread with
counterbore

Turning of threads:

RH right-handed
LH left-handed

Training

Topics:
- Gas safety equipment
- Gas mixing systems
- Gas analysis systems
- Leak detection systems

The training will be tailored to the knowledge of the attendees, with theory and practical elements as required.
By request a test can be held at the end of the training.

Daily rate (per person): Including lunch, excluding hotel accommodation
Location: WITT headquarter in Witten
Minimum attendance: 4 persons
Maximum attendance: 8 persons

Documentation, Certification and Instruction manuals

	order no.
Material Certificate in accordance with DIN EN 10204 - 3.1	998.180000
Manufacturer´s Certificate in accordance with DIN EN 10204	998.190000
Declaration of Conformity to ATEX	998.440003
Declaration of Conformity to EMV / Low Voltage Directive	998.440004
Declaration of Conformity ‚Pressure Devices' (PED)	998.440002
Printed Operation Manual	998.300011
Declaration of Conformity ‚Pressure Devices' (PED) Module G by German TÜV	998.260001
Manufacturer´s Certificate in accordance with DIN EN ISO 22000	998.440005

General Terms and Conditions

The entire text of our General Terms and Conditions may be downloaded at www.wittgas.com

Conversion of units of measurement:

Pressure	all pressure specifications are in barg 10 bar = 145 psi
Flow	10 m^3/h = 353 scfh
Temperature	°C * 1.8 + 32 = °F
Volume	10 litres = 21 pints / 2.2 gallons
Length	10 mm = 0.3937 inches 1 m = 393.7 inches

Please note:

Most of our technical and marketing documents are available in multiple languages, please see www.wittgas.com.

Brochures

Central gas supply

Stainless steel devices

Dome pressure regulators

Safety relief valves

Overview MAP-portfolio

Gas analysis

Leak detection

MAP for fruit and vegetables

Overview gas mixers

Synthetic-air gas mixer

You can find our brochures and a lot of other information material in the download area of our website, e.g.:

- Overview of accessories for oxygen lancing product range
- Overview Coupling system SK100
- Instructional chart Flashback Arrestors
- WITT company certifications
- White papers

etc.

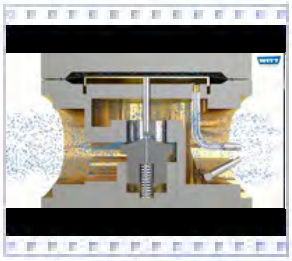
Download at ▸ www.wittgas.com

WITT SUPPORT MATERIAL - OVERVIEW

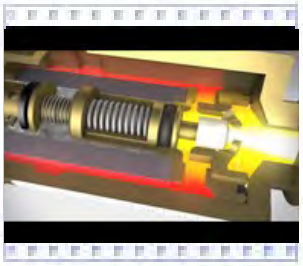
www.wittgas.com

Product videos

Dome Pressure Regulators



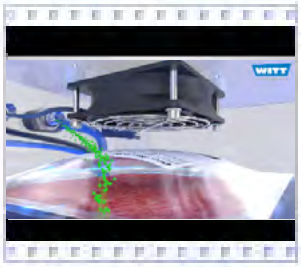
Flashback arrestors



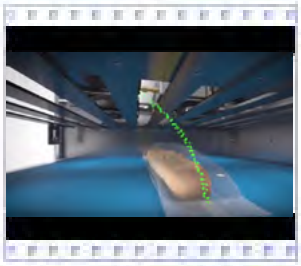
Gas mixer KM-MEM+

OXYBABY 6.0

CO_2 Leak detection PRO 2



Inline leak detection



Download at ▸ www.wittgas.com or Youtube

Product specific websites by WITT

Everything about
WITT leak detection

▸ www.leak-master.net

Everything about
WITT dome pressure regulators

▸ www.domepressureregulators.com

Everything about
WITT OXYBABY®

▸ www.oxybaby.com

WITT-App

iGases - Interactive lexicon for technical gases

Features:

- important physio-chemical characteristics (density, steam pressure, ignition range, thermal conductivity, safety information)
- unit converter for important values such as pressure, volume (flow), temperature, mass into international units
- direct access to the WITT data sheets
- dialogue tool, giving direct access to WITT specialists
- flow calculation
- gas advisor
- in four languages: English, Spanish, French, German

iGases for Apple

iGases for Android

Download at google play or at the apple app store

www.wittgas.com

/ TECHNOLOGY FOR GASES /

OUR PRODUCT RANGE

GAS CONTROL EQUIPMENT

Gas mixing systems
Gas metering systems
Gas analysers
Leak detection systems
Gas pressure vessels
Engineering of customised systems

GAS SAFETY EQUIPMENT

Flashback arrestors
Non-return valves
Quick couplings
Safety valves
Stainless steel devices
Gas filters
Pressure regulators
Lance holders
Ball valves
Automatic hose reels
Test equipment
Accessories
Customised safety devices

Please contact us for partners in your country.

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