70 Years WITT

www.wittgas.com

TECHNOLOGY FOR GASES

CATALOGUE

2015

valid from 01.01.2015

inter@ctive

“See our production site...

...and get to know WITT better than before:

See what WITT has achieved in its 70 year history.
See our production site in Witten, Germany and discover our large product range.

Download at ▸ www.wittgas.com or Youtube

For an overview of our support material see p. 74-75

Quality products from WITT

Benefits to you:

- 100 % quality inspection of all products leaving our factory
- Certificates: DIN EN ISO 9001, DIN EN 22000 as well as PED 97/23/EG, ATEX 94/9/EG, Directive 93/42/EWG and UL
- 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.

Please feel free to contact us.

Examples of individual specifications:

Gas mixers

- presetting of gas mixtures and other parameters
- volumetric consumption measurement
- data transmission via modem, WIFI , bus-coupling etc.
- alarm messaging via tel. / Fax / SMS /email
- any other unique requirements

Safety devices

- especially high or low pressures and/or flow rates
- special connections
- different types of gases
- unique requirements

Any other questions?

We provide you with expert answers!

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“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!

Contents:

Gas Control Equipment

Gas Safety Equipment

Miscellaneous

1. GAS MIXERS
for non-flammable gases

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)

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

1. GAS MIXERS
for non-flammable gases

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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

Picture shows optional equipment

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 NXT+

MG Flex

2 gases | medium to high flows

MG Flex

data sheet

Picture shows optional equipment

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 NXT+

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

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

contact

1. GAS MIXERS
for non-flammable gases

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 NXT+)

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 NXT+ (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 NXT+
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)
- 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:
coupling socket set

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
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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 food-grade gases, conforms to 1935/2004

KM-Flow for 2 gases

KM-Flow for flow-pack machines
KM-Flow for vacuum machines

KM-Flow for 3 gases

KM-Flow for flow-pack machines
KM-Flow for vacuum machines

MG-2ME

2 gases | low to very high flows

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 NXT+ (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:

alarm module NXT+
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

EN16/12/2014

“Please visit us at these Food industry exhibitions...

FRUIT LOGISTICA 4th to 6th February 2015 in Berlin

ANUGA FOOD TEC 24th to 27th March 2015 in Cologne

We look forward to seeing you!
For other WITT exhibition dates see ▸ www.wittgas.com

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
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1. GAS MIXERS
for non-flammable gases

MG-3ME

3 gases | low to very high flows

MG50-3ME

data sheet

alarm module NXT+

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 NXT+ (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 NXT+
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 NXT+)
- 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 of O_2 when going below the limit

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
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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), incl. software
- 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: 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: coupling socket set

EN16/12/2014

“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. 74-75

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

2. GASFLOW CONTROL SYSTEMS
for non-flammable gases

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)

EN16/12/2014

“Did you know that WITT attends more than 30 exhibitions every year worldwide?

WITT at ‚Interpack‘ Düsseldorf 2014

Whether at trade fairs for food or packaging technologies, chemistry or welding and cutting: WITT's versatile products are available for your inspection all around the world.

Please arrange an appointment in advance with your competent WITT-adviser on-site.

All current exhibition dates at: ▸ www.wittgas.com

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

3. GAS MIXERS for flammable gases

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

KM20-3

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 (2 gases flammable)

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

GC 50
(with integrated analysis)

alarm module NXT+

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 NXT+ (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 NXT+(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. 73. PG = Product Group
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3. GAS MIXERS
for flammable gases

MG-ME (Ex)

MG100-ME (Ex) data sheet
MG200-ME (Ex) data sheet

GC 50
(with integrated analysis)

alarm module NXT+

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 NXT+ (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.

2 or 3 gases | low to very high flows

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 NXT+ (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

EN16/12/2014

“MFC technology - interlockable.

There are processes which require an extremely high level of mixing accuracy, safety, long-term stability and simultaneously easy integration into the system, but also flexibility in the actual process as well as data logging for quality and cost control. For example, thermal processing.

WITT MDE-MFC technology offers all of these features, and is infinitely interlockable, too. All without installation costs, and with a remarkably small footprint.

We would be delighted, to advise you on a tailored solution.

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

4. GAS MIXERS
for medical applications

www.wittgas.com

MED-MG

for synthetic air

MG50-2ME GB A

data sheet

Worldwide and longterm proved 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)

EN16/12/2014

“Mobile gas analysis for medical applications:

OXYBABY® Med

data sheet

The OXYBABY® Med WITT is the ideal tool for the mobile, fast and accurate analysis of gas media prior to their use in hospitals - to protect the patient.
The OXYBABY® Med needs only to be docked to the gas outlet point - then the measurement starts and the illuminated display shows the result. The device not only checks the type of gas, but also concentration and pressure.

More information at ▸ www.oxybaby.com or ▸ www.wittgas.com

For an overview of our support material see p. 74-75

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

5. MIXED GAS RECEIVERS

Steel receivers

without safety devices and connections

steel receiver, vertical,
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

Receivers 20 - 250 l: ground coated, pickled, passivated
Receivers 500 - 2.000l: powder coated

- oil- and greasefree inside
- use of humid gases or oxygen may promote corrosion
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -15°C up to +50°C

Stainless steel receivers

without safety devices and connections

stainless steel receiver, horizontal,
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

Stainless steel, not coated

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

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

Steel receivers

steel receiver, vertical,
incl. safety devices and connections

data sheet

With ground coat, pickled, passivated

- oil- and greasefree inside
- use of humid gases or oxygen may promote 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 +50°C
- operation temperatures of safety relief valve -15°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 97/23/EG, Modul G

Stainless steel receivers

Stainless steel receiver, horizontal
incl. safety devices and connections

data sheet

Stainless steel, not coated

- oil- and greasefree inside
- 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 -15°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	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 different 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 97/23/EG, Modul G

EN16/12/2014

6. GAS ANALYSERS

OXYBABY® M+

portable O_2 / CO_2 gas analyser

data sheet

Compact handheld analyser e.g. for sample testing of MAP-packages

- 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

OXYBABY® M+ P for pressure lines

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

option:
connector tube with Luer-Lok-connection for the use as tabletop unit

further accessories: see p. 19 and 20

OXYBABY® 6.0

portable O_2 / CO_2 gas analyser

OXYBABY® 6.0

data sheet

OXYBABY® 6.0 P

data sheet

Compact handheld analyser e.g. for sample testing of MAP-packages - premium model

Features - see OXYBABY® M+ plus:

- minimum sample gas requirement (approx. 2ml)
- minimised response time
- measurement of pressure
- USB-interface for data transfer
- data-log of 500 results
- simplified menu navigation
- 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

OXYBABY® 6.0 P for pressure lines

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

options:
connector tube with Luer-Lok-connection for the use as tabletop unit
integrated barcode reader
bluetooth (e.g. for separate tabletop printer)

further accessories: see p. 19 and 20

product video and further information see
www.oxybaby.com

EN16/12/2014

“All OXYBABY® models come in a carrying case.

Handy, practical and attractive: key features of the case in which WITT OXYBABY®s are delivered.
Your OXYBABY® is stored firmly and well padded, and you will always have all components within reach: charger, data media with user manual, OBCC software as demo version, 2 spare needles, 2 spare filters and 100 self-adhesive sealing plates.

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

WITT
www.wittgas.com

Table-rack

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

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®
integrated barcode reader
tabletop bluetooth printer
OBCC software for the documentation of analysis results*
**further information see p. 20*

OXYBABY®-Accessories

for cans, bottles and mini packages

Canpiercer

Aquacheck

data sheet

Image examplary
Oxybaby® and bottle not included

Special packages are hardly controllable by standard analysis devices. Therefor 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

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	390000156
for cans and bottles with overpressure/gas, incl. bottle adapter*	
for max. piercing height of 270 mm, needle length 8,5 mm	390000165
for max. piercing height of 390 mm, needle length 8,5 mm	390000166
for max. piercing height of 390 mm, needle length 18,5 mm	390000325
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	390000239
for cans and bottles, pressure measurement only, incl. bottle adapter*	
for max. piercing height of 390 mm, needle length 5,5 mm	390000341
**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	

EN16/12/2014

“Have you visited www.oxybaby.com?

There is a lot to say about our top seller OXYBABY® - and finally it has the place it deserves.
Find out about the many applications, e.g. for checking modified atmosphere packaging, gas lines or medical applications. Get to know all the models and their benefits, and find the right accessories for your model and your application.

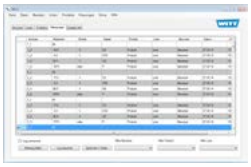
www.oxybaby.com

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

6. GAS ANALYSERS

OBCC

documentation software for OXYBABY® 6.0 and PA



data sheet

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

- Measurement data recording and storage for quality assurance with date and time

Software
OBCC full version incl. USB- connection cable

PA 7.0

tabletop O_2 / CO_2 gas analyser

PA 7.0

data sheet

Picture shows version S with handle

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

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)
analysis software OBCC
integration of the analysing system in the mixer housing
zirconia measuring cell for O_2
heating and thermostat, only electro-chemical sensors
paramagnetic sensor

EN16/12/2014

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

From the handy Oxybaby® via the compact PA through 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

For an overview of our support material see p. 74-75

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

WITT
www.wittgas.com

MAPY 4.0

tabletop O_2 / CO_2 gas analyser

MAPY 4.0
inclined display

data sheet

GASCONTROL CENTER

data sheet

MAPY LE
vertical display

data sheet

Premium tabletop 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)
- with zirconia measuring cell for O_2 for quicker measurements

for food-grade gases, conforms to 1935/2004

MAPY 4.0

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

options:

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

Gas analysis

integrated with gas mixer

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

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)
- 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

for WITT gas analysers

installation of error advice via e-mail

Additional functions for optimising the process

- data export and analysis
- automatic calibration
- alarm function
- error advice

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)

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

6. GAS ANALYSERS

MFA 9000

multigas-analyser

MFA 9000

data sheet

Portable multigas-analyser especially for maintanance and service

- for analysis of up to 13 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

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

RLA1 — ambient air monitor

RLA1

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

- 3 adjustable alarm limits within the measuring range
- 3-digit digital display for the visual control of the gas concentration
- easy wall-mounting

RLA1
1-channel gas monitor with alarm
1-channel gas monitor without alarm
4-channel gas monitor with alarm
4-channel gas monitor without alarm
sensor for O_2
sensor for CO_2 - not Ex
sensor for O_2 Zircox - not Ex
sensor for combustible gases H2, methane, ethylene, propane
(under explosion limit -0..50/100% UEG) - Atex: Zone 2, Cat. 3G
sensor for CO
flow adapter (recommended for calibration)
transmitter cable per meter and transmitter
option:
IP 65 version

Inlet pressure monitoring — with alarm module NXT+

separate inlet pressure monitoring

data sheet

Example

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
LED warning light with signal-horn

EN16/12/2014

7. LEAK DETECTION EQUIPMENT

LEAK-MASTER® EASY

bubble-test

LEAK-MASTER® EASY 3
(without electrical control)

data sheet

LEAK-MASTER® EASY	chamber size in approx. mm (HxWxD)
EASY 1	165 x 305 x 195
EASY 2	205 x 505 x 310
EASY 35 x 525 x 360	
EASY 4	320 x 625 x 500
EASY 5	340 x 760 x 500

option:	order no.
vacuum-set	956.992700

electrical vacuum pump

electrical control
options with electrical control:
- barcode reader
- barcode reader IP 65
- analysis software GASCONTROL CENTER

further options on demand

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

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

LEAK-MASTER®

CO_2-based

LEAK-MASTER® 5.2.2

data sheet

LEAK-MASTER®	chamber size in approx. mm (HxWxD)
LM 4.4.1	90 x 345 x 280
LM 5.2.2	100 x 460 x 305
LM 12.2	165 x 680 x 500
LM 12.1	230 x 680 x 500

options:
WIFI
barcode reader
barcode reader IP 65
analysis software GASCONTROL CENTER

GASCONTROL CENTER

data sheet

barcode reader

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

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

- without using expensive helium or hydrogen
- data transfer via ethernet
- measuring range 0 ppm - 5.000 ppm
- suction capacity 50 mbar abs.
- various chamber sizes

EN16/12/2014

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

WITT
www.wittgas.com

LEAK-MASTER® MAPMAX

inline

LEAK-MASTER® MAPMAX

data sheet

barcode reader

WiFi

GASCONTROL CENTER

data sheet

LEAK-MASTER® MAPMAX	size in approx. mm (HxWxD)
MAPMAX Type 400	1800 x 2000 x 1300
for the control of packages directly from the packaging machine (for trays/ thermoform packaging) or secondary packages respectively boxes up to size 340 x 600 x 400 mm	
MAPMAX Type 700	1800 x 2000 x 1500
for the control of packages directly from the packaging machine (for trays/ thermoform packaging) or secondary packages respectively boxes up to size 220 x 600 x 680 mm	
options:	
WIFI	
barcode reader	
barcode reader IP 65	
analysis software GASCONTROL CENTER	
surface pressurization (incl. motorisation)	
e.g. to speed up and improve the measurements for packages with a low gas volume	

further designs, options and accessories on demand

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

Uniquely quick and precise inline-leak detection of packages containing CO_2

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

For the LEAK-MASTER® MAPMAX customised solutions and changes are to be projected. All sizes imply: H X W X D (the width „W“ refers to the moving direction of the conveyor-belt).

EN16/12/2014

“Only a leak-tight package is a good package.

Quality assurance is getting more and more important in food industry.

Get to know the different methods of leak detection for packages and find out the benefits of our different LEAK-MASTER® models at:

▸ www.leak-master.net

Special designs, higher flow rates or different pressures on demand. Conversion of units of measurement see p. 73. PG = Product Group
Operation manual on CD included. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 73

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

RF53N

data sheet

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

EN 730-1

FA | NV | TV

also available in stainless steel, see p. 46

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	145-115
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

EN 730-1

with pressure relief valve (RV)

FA | NV | TV | RV

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

EN 730-1

with integrated coupling body according EN 561

FA | NV | TV

suitable probes see p. 38f

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

EN16/12/2014

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

85-10

data sheet

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

EN 730-1

FA | NV | TV

also available in stainless steel, see p. 46

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	143-012
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

EN 730-1

FA | NV | TV

also available in stainless steel, see p. 47

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

EN 730-1

FA | NV | TV

also available in stainless steel, see p. 47

connection	inlet → outlet	order no.
for fuel gases:		
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 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	147-082

EN16/12/2014

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

Safety group 645

Parallel connection from 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

EN 730-1

FA | NV | TV

2- or 4-fold

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

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

Town gas / Natural gas max. 1010 m³/h

EN 730-1

FA | NV | TV

4- or 5-fold

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

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

EN 730-1

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

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

EN 730-1

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

EN16/12/2014

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

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

WITT
www.wittgas.com

Super 90

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

EN 730-1

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

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

EN 730-1

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

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

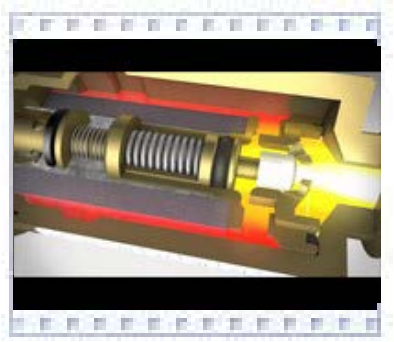
EN 730-1

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

EN16/12/2014



“Already a classic: our most seen video.

Get to know the function of flashback arrestors and learn everything about the relevant safety elements and their mode of action in an impressive 3D animation.
And see the dramatic consequences of cutting costs on safety technology.

Download at ▸ www.wittgas.com or Youtube

FA =flame arrestor NV =non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

9. FLASHBACK ARRESTORS for torches

E460-1

data sheet

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

EN 730-1

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

EN 730-1

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

EN 730-1

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

EN 730-1

FA | NV

suitable coupling body:
SK100-9, see p. 31

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

EN16/12/2014

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

contact

E460SKU

data sheet

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

EN 730-1

with integrated coupling body: EN 561

FA | NV

suitable coupling probes: see section 13 "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	150-067

RF53NU

data sheet

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

EN 730-1

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

EN 730-1

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

9. FLASHBACK ARRESTORS for torches

85-10NU (Ex)

data sheet

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

eccentric outlet

EN 730-1

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

EN16/12/2014

“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 46.
Further information on www.wittgas.com and in our "Stainless steel" brochure.

10. FLASHBACK ARRESTORS
for cutting machines

E460-3

data sheet

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

EN 730-1

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

EN 730-1

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

EN 730-1

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

For an overview of our support material see p. 74-75

EN16/12/2014

FA =flame arrestor NV =non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

11. FLASHBACK ARRESTORS for high flows

RF53N/30

Fuel gases 16 m³/h
Air 12 m³/h

EN 730-1

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

EN 730-1

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

EN 730-1

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

EN16/12/2014

623N/NU

data sheet

Fuel gases 406 m³/h
Air 335 m³/h

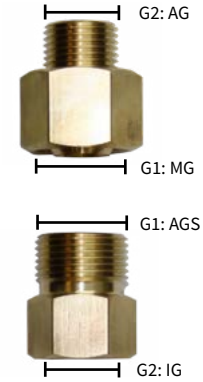
E730-1

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

EN16/12/2014

“WITT flashback arrestors also for propylene.

As with most WITT products, we also offer flashback arrestors not only in the standard versions. Thus, for instance, the five main sizes and capacities of WITT flashback arrestors are also available for propylene.

data sheet

FA =flame arrestor NV =non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

contact

12. FLASHBACK ARRESTORS
for central acetylene supply

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

TRAC 206

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

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
EN ISO 14114

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

Bundle connection

with non-return valve RV 650

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 - M 24x1,5	IG → MG	210000011
„Messer"		
M 28x1,5 - M 24x1,5	IG → MG	210000020

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 (with NV)		
G 1/2 RH - 1/4" NPT	IG → IG	022-010
MGN (without NV)		
G 1/4 RH	AGS → IG	022-011

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

WITT
www.wittgas.com

HD-NV

non-return valve for bows according DIN 477

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

EN16/12/2014

“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. 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

For an overview of our support material see p. 74-75

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		

EN16/12/2014

SK100-3

data sheet

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

EN 561 / ISO 7289

for outlet points

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

Keymark coupling

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

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

EN16/12/2014

735 / 736

Hose couplings for higher flows

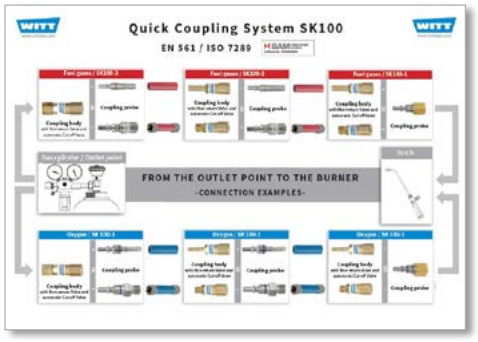
DIN 8544

connection	inlet ⇆ outlet	order no.
MODEL 735		
• coupling bodies		
for fuel gases:		
G 3/8 LH	MG ⇆ coupling body	041327500
for oxygen:		
G 3/8 RH	MG ⇆ coupling body	041227500
• probes		
for fuel gases:		
G 3/8 LH	probe ⇆ MG	041328700
for oxygen:		
G 3/8 RH	probe ⇆ MG	041228700
MODEL 736		
• coupling bodies		
for fuel gases:		
G 1/2 LH	MG ⇆ coupling body	041327200
for oxygen:		
G 1/2 RH	MG ⇆ coupling body	041227200
• probes		
for fuel gases:		
G 1/2 LH	probe ⇆ MG	041328200
for oxygen:		
G 1/2 RH	probe ⇆ MG	041228200

EN16/12/2014

“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
- all WITT order numbers
- 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. 74-75

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

NV 654

data sheet

Up to 60 bar
(O_2 up to 30 bar)

Air max. 130 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 47

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

NV 100

data sheet

Up to 25 bar

Air max. 130 m³/h

NV

DIN 8521-2

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 200

data sheet

Up to 16 bar

Air max. 1,900 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 48

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	200037008
G 3/4 RH	IG → IG	200037009
G 1 RH	IG → IG	200037010
1/2" NPT	IG → IG	200037069
3/4" NPT	IG → IG	200037075
1" NPT	IG → IG	200037068

NV 600H

data sheet

Up to 40 bar

NV

DIN 8521-2

also available in stainless steel, see p. 48

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

EN16/12/2014

14. NON-RETURN VALVES

NV 70 / 70U

data sheet

Up to 16 bar

Air max. 1,220 m³/h

NV

DIN 8521-2

pipeline fittings see p. 35

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

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. 48

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 8521-2

also available in stainless steel, see p. 48

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 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	800080001

EN16/12/2014

www.wittgas.com

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

EN16/12/2014

“Any system is only as good as its weakest part.

WITT-Gasetechnik is synonymous with excellent technology and superior quality. And WITT offers everything under one roof. So you can ensure maximum safety on every part of your system and exclude weak points.
Our brochure explains all of the important safety components of the central gas supply, and gives further information about the WITT product groups, e.g.:

- flashback arrestors
- non-return valves
- safety relief valves
- quick COUPLINGS
- gas filters
- gas mixers
- pressure regulating stations
- outlet points
- etc.

Download brochure „Central gas supply" at ▸ www.wittgas.com

For an overview of our support material see p. 74-75

FA =flame arrestor NV =non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

15. SAFETY RELIEF VALVES

SV 805 / SV 805A

data sheet

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

up to 45 bar

with or without venting tool

CE 0045

also available in stainless steel, see p. 49

pressure settings	order no.
SV 805	
> 0,5 ≤ 45 bar	200-_ _ _
diff. connections	(in accordance with pressure-setting)
SV 805A	
with venting tool, outlet: 1/2 NPT IG	
> 0,5 ≤ 45 bar	200A-_ _ _
diff. connections	(in accordance with pressure-setting)
special sealing compound, surcharge	

Adapter for SV 805

Adapter for venting pipes and safety relief valve SV 805

also available in stainless steel, see p. 49

connections	order no.
M 24x1 AG ⟶ 1/2" NPT IG	801413600K
M 24x1 AG ⟶ G 1/2" AGS	802069800K
M 24x1 AG ⟶ 3/4" NPT IG	802124900K

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

AV 319

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

brass

also available in stainless steel, see p. 50

pressure settings	order no.
10 - 80 mbar	400-_ _ _ (according to pressure-setting)

connections:
G 1/8 RH IG

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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. 50

pressure settings	order no.
5 - 500 mbar	300-_ _ _ (in accordance with pressure-setting)
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

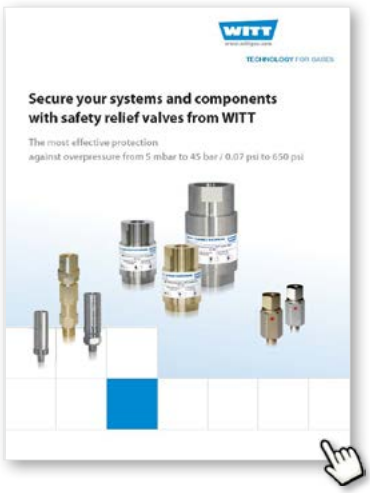
aluminum anodised

also available in stainless steel, see p. 50

pressure settings	order no.
5 - 500 mbar	400-_ _ _ (in accordance with pressure-setting)
connections:	
G2 RH IG	
NPT 2", 1.1/2" IG	

EN16/12/2014

“NEW: Everything about WITT safety relief valves.



To protect your pipes, pressure vessels and systems effectively against overpressure, WITT offers proven and individually tested safety relief valves for venting vapors and gases.
The spring-loaded and direct-acting relief valves allow individual opening pressures of 5 mbar up to 45 bar. Their compactness and engineering excellence allow for a variety of applications.

Read our new brochure and find out which model is best for your application.

Download at ▸ www.wittgas.com

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

Series RF53N-ES

flashback arrestor

data sheet

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
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

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

EN 730-1

Series RF85-10N-ES

flashback arrestor

data sheet

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
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

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

EN 730-1

FA = flame arrestor NV = non-return valve TV =temperature controlled cut-off valve PV =pressure controlled cut-off valve; PG =Product Group
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

RF85-20N-ES

flashback arrestor

data sheet

Air max. 360 m³/h

FA | NV | TV

EN 730-1

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

Series RF85-30N-ES

flashback arrestor

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

EN 730-1

connection	inlet → outlet	order no.
RF85-30N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
3/4" NPT	IG → IG	147-071
1" NPT	IG → IG	147-092
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

F100N-ES

flashback arrestor

data sheet

Air max. 32 m³/h

FA | TV

EN 730-1

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

654-ES

non-return valve

Up to 60 bar
(O_2 up to 30 bar)

Air max. 130 m³/h

NV

DIN 8521-2

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

EN16/12/2014

NV 600-ES

non-return valve

data sheet

Up to 16 bar

Air max. 1,900 m³/h

NV

DIN 8521-2

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	037-017
G 3/4 RH	IG → IG	037-033
G 1 RH	IG → IG	037-018
3/4" NPT	IG → IG	037-074

NV 600H-ES

non-return valve

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 338-ES

non-return valve

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

NV 339-ES

non-return valve

data sheet

Up to 16 bar

Air max. 8.100 m³/h

NV

DIN 8521-2

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	038-014
G 2 RH	IG → IG	038-022

EN16/12/2014

NV 800-ES

non-return valve

data sheet

Up to 300 bar

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

SV 805-ES / SV 805A-ES

safety relief valve

data sheet

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

up to 45 bar

with or without venting tool

CE0045

pressure settings	order no.
SV 805-ES	
> 0,5 ≤ 45 bar diff. connections	200-_ _ _ (in accordance with pressure-setting)
SV 805A-ES	
with venting tool, outlet: 1/2 NPT IG	
> 0,5 ≤ 45 bar diff. connections	200A-_ _ _ (in accordance with pressure-setting)
special sealing compound, surcharge	

Adapter for SV 805-ES

Adapter for venting pipes and safety relief valve SV 805-ES

connections	order no.
M 24x1 AG → 1/2" NPT IG	801727800K

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)
diff. connections	

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Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.

contact

AV 319-ES

safety relief valve

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

pressure settings	order no.
10 - 80 mbar	400-_ _ _ (depending on pressure-setting)

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)

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)

connections:
G2 RH IG
NPT 2", 1.1/2" IG

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Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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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

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

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

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

17. PRESSURE REGULATORS

Dome pressure regulators

767 LE
data sheet

757 LE
data sheet

747 LE
data sheet

737 LE
data sheet

737 LE-HD
data sheet

Powerful pressure regulators with maximum pressure stability. Ideal for central gas supply pipelines

- pilot gas controlled
- low pressure differences even with very high flows
- inlet pressures up to 300 bar
- compact design, optimised mounting dimensions

brass

connections	max. inlet pressure*	outlet pressure	order no.
model 767 LE			
(high performance dome pressure regulator, for very high flows)			
G 3" IG	40 bar	0,5-30 bar	278-073
model 757 LE			
(high performance dome pressure regulator, for very high flows)			
G 2" IG	40 bar	0,5-30 bar	278-061
model 747 LE			
(universal dome pressure regulator, for high flows)			
G 1" IG	40 bar	0,5-30 bar	278-059
model 737 LE			
(universal dome pressure regulator, for medium flows)			
G 3/4" IG	60 bar	0,5-9 bar	278-051
model 737 LE-HD			
(high pressure dome pressure regulator, for high inlet and outlet pressures)			
G 3/4" IG	300 bar	2-50 bar	278-055

dependent on type of gas

Dome pressure regulator sets

767 LE/S
data sheet

757 LE/S
data sheet

747 LE/S
data sheet

737 LE/S
data sheet

737 LE-HD/S
data sheet

Powerful pressure regulators with maximum pressure stability. Complete solution for pipelines

Features - see „dome pressure regulators brass" plus
- pilot gas pressure regulator, inlet and outlet pressure manometer and connections included
- all components fit perfectly
- completely mounted and tested, process-ready

brass

connections	max. inlet pressure*	outlet pressure	order no.
model 767 LE/S			
(high performance dome pressure regulator set, for very high flows)			
flange DN 80 DIN or ANSI	40 bar	0,5-30 bar	192-_ _ _
flange DN 100 DIN or ANSI	40 bar	0,5-30 bar	192-_ _ _
G 3" IG	40 bar	0,5-30 bar	192-_ _ _
model 757 LE/S			
(high performance dome pressure regulator set, for very high flows)			
flange DN 50 DIN or ANSI	40 bar	0,5-30 bar	192-_ _ _
G 2" IG	40 bar	0,5-30 bar	192-_ _ _
2" NPT IG	40 bar	0,5-30 bar	192-_ _ _
model 747 LE/S			
(universal dome pressure regulator set, for high flows)			
G 1" IG	40 bar	0,5-30 bar	192-_ _ _
1" NPT IG	40 bar	0,5-30 bar	192-_ _ _
model 737 LE/S			
(universal dome pressure regulator set, for medium flows)			
G 3/4" IG	60 bar	1-9 bar	192-_ _ _
3/4" NPT IG	60 bar	1-9 bar	192-_ _ _
model 737 LE-HD/S			
(high pressure-dome pressure regulators, for high inlet and outlet pressures)			
G 3/4" IG	300 bar	2-50 bar	192-_ _ _
3/4" NPT IG	300 bar	2-50 bar	192-_ _ _

dependent on type of gas

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

WITT
www.wittgas.com

Dome pressure regulators

757 LE-ES
data sheet

747 LE-ES
data sheet

737 LE-ES
data sheet

737 LE-HD
data sheet

Powerful stainless steel pressure regulators with maximum pressure stability. For almost all gases, including corrosive and aggressive gases

- pilot gas controlled
- low pressure differences even with very high flows
- inlet pressures up to 300 bar
- compact design, optimised mounting dimensions

316L stainless steel

connections	max. inlet pressure*	outlet pressure	order no.
model 757 LE-ES			
(high performance dome pressure regulators, for very high flows)			
G 2" IG	40 bar	0,5-30 bar	278-066
model 747 LE-ES			
(universal dome pressure regulators, for high flows)			
G 1" IG	40 bar	0,5-30 bar	278-063
model 737 LE-ES			
(universal dome pressure regulators, for medium flows)			
G 3/4" IG	60 bar	0,5-9 bar	278-064
model 737 LE-HD-ES			
(high pressure dome pressure regulator, for high inlet and outlet pressures)			
G 3/4" IG	300 bar	2-50 bar	278-068

*dependent on type of gas

Dome pressure regulator sets

757 LE/S-ES
data sheet

747 LE/S-ES
data sheet

737 LE/S-ES
data sheet

737 LE-HD/S-ES
data sheet

Powerful stainless steel pressure regulators with maximum pressure stability. Complete solution for pipelines.For almost all gases, including corrosives

Features - see „dome pressure regulator sets brass", p. 52

316L stainless steel

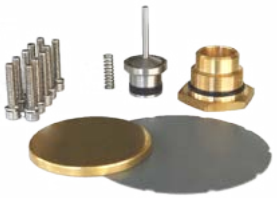
connections	max. inlet pressure*	outlet pressure	order no.
model 757 LE/S-ES			
(high performance dome pressure regulator set, for very high flows)			
flange DN 50 DIN or ANSI	40 bar	0,5-30 bar	192-_ _ _
G 2" IG	40 bar	0,5-30 bar	192-_ _ _
2" NPT IG	40 bar	0,5-30 bar	192-_ _ _
model 747 LE/S-ES			
(universal dome pressure regulator set, for high flows)			
G 1" IG/1" NPT IG	40 bar	0,5-30 bar	192-_ _ _
1" NPT IG	40 bar	0,5-30 bar	192-_ _ _
model 737 LE/S-ES			
(universal dome pressure regulator set, for medium flows)			
G 3/4" IG	60 bar	1-9 bar	192-_ _ _
3/4" NPT IG	60 bar	1-9 bar	192-_ _ _
model 737 LE-HD/S-ES			
(high pressure-dome pressure regulators, for high inlet and outlet pressures)			
G 3/4" IG	300 bar	2-50 bar	192-_ _ _
3/4" NPT IG	300 bar	2-50 bar	192-_ _ _

*dependent on type of gas

EN16/12/2014

17. PRESSURE REGULATORS

Accessories

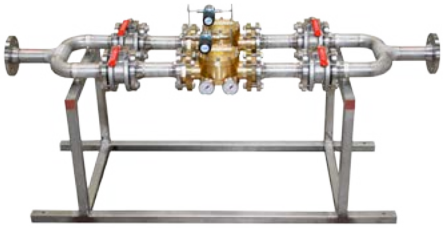


Accessories for WITT dome pressure regulators

- for continuity of process components
- for maintenance and servicing
- for wall mounting

accessories	description
precise pressure regulator	for working pressures from 0.1 bar
filter (integrated)	up to max. 1", brass
filter (flange)	50 µm filter fineness, suitable for oxygen, connection DN50/PN40
HD-filter (integrated)	up to 250 bar
flange	ANSI 300 lbs., 3/4" / 1" / 2" / 1½"
flange	DIN 2566, DN 20, 25, 40, 50, PN 40
maintenance kits	pre-mounted, for maintenance and servicing:
for models 737 to 757	brass
for models 737 to 757	stainless steel (316L)
for model 767	brass

Dome pressure regulator-plant engineering



parallel construction with 757LE/S

757LE/S with flange filter

Costumised design and engineering of dome pressure regulator systems

- planning and installation by a specialist
- oil- and grease free
- suitable for oxygen
- tested and ready for use
- short delivery time

Individual parallel construction

Example I:
4 ball valves stainless steel DN50/PN40
2 dome pressure regulator 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 customizations possible, for example central filter, safety valve,
other connection sizes, etc.

EN16/12/2014

For an overview of our support material see p. 74-75

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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642 — pressure regulating station

data sheet

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

- for bundles

	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

	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
- 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

	order no.
6-outlets oxygen (40 bar/ 0-10 bar)	183000153
6-outlets acetylene (1,5 bar) 183000154	183000154

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

Pressure regulation station

NG, single left

data sheet

150NF, switch-ov

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
DRS 150NAFT (including WITT-Switch-Tronic)			
autom. switch-over	both-sided (HI)	150 Nm³/h	193-012-001

**shut-off device, see p. 36* (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	194-019
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.

EN16/12/2014

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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. 40 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 8-13

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 at will
- 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		
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. 40 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 8-13

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

contact

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
- EN 730 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)	

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For an overview of our support material see p. 74-75

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

Series 722

data sheet

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

	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*

EN16/12/2014

“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 on the state of the art. Flashback arrestors and most other components of gas supply (acetylene, O_2, other fuel gases, inert gas) should also 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. 0049-2302-8901-0

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

22. EQUIPMENT FOR OXYGEN LANCING

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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Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

contact

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

EN16/12/2014

“From the outlet point to the lance...

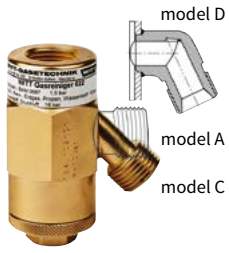
In this overview you will find the whole WITT portfolio of oxygen-lancing equipment, clearly laid out by module.

Download at ▸ www.wittgas.com

For an overview of our support material see p. 74-75

23. GAS FILTERS

622



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

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 (approx. 3 µm)

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

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

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Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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807

pure filter

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

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

EN16/12/2014

“Quality management takes top priority for WITT.

Where safety is of utmost importance, quality control is indispensable. WITT collaborates with a host of institutions to ensure compliance to norms and safety standards. And to guarantee quality via 100% testing of safety-related products.

The information on product certifications and testing can be found on the relevant data sheet. For a list of our corporate certifications see:

▸ www.wittgas.com

For an overview of our support material see p. 74-75

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

24. BALL VALVES

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

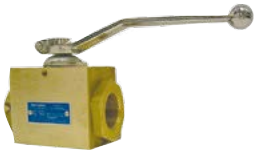
PN10
up to max. 10 bar working pressure

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

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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. 40 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

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

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

24. 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

25. 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

EN16/12/2014

“More than standard connections, pressures and performance.

When we say, "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.

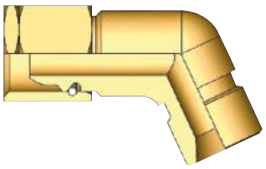
For most models we offer many more options than the standard versions.

So don't hesitate to ask - we can help you, for sure!

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

Angle adapters

connection A



connection B

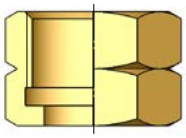
PN10

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

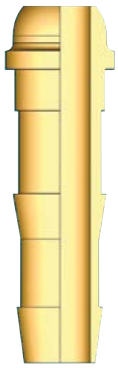
Nuts



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

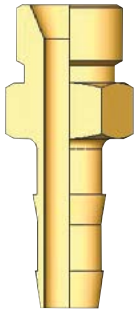
EN 560

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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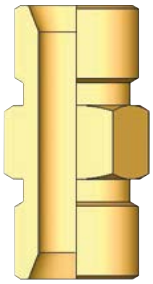
Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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

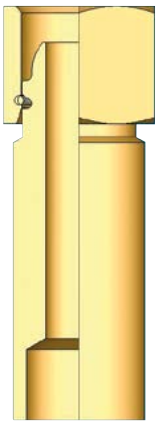
Male threads on both sides

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

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

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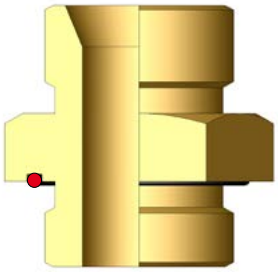
Screwed couplings

connection B



connection A

Male thread, O-ring

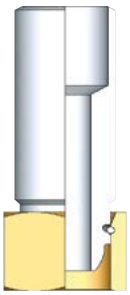
EN 560

- 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	952049200K
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

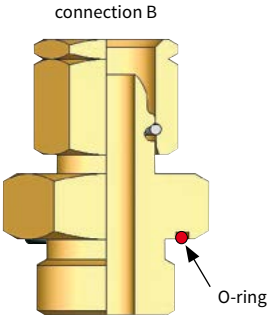
- A=pipe Ø
- B=MG

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

EN16/12/2014

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 72/73.
PG =Product Group

Male / female couplings



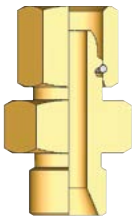
Male thread, O-ring and nut

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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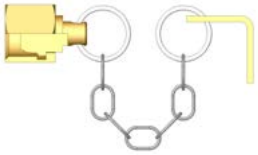
Cap with chain

connection A



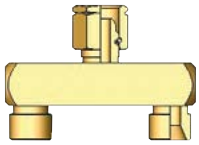
EN 560

- 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

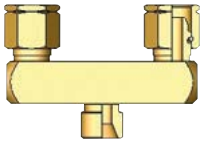
Distribution block

connection A



connection B

connection A



connection B

EN 560

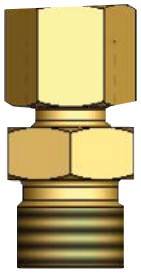
top:
- A=MG
- B=AGS

lower part:
- A=MG
- B=AGS

connection A	connection B	order no.
top:		
G 1/4 RH	G 1/4 RH AGS	788-003
G 3/8 LH	G 3/8 LH AGS	788-001
G 1/2 LH	G 3/8 LH AGS	788-005
G 1/2 LH	G 1/2 LH AGS	788-007
lower part:		
G 1/4 RH	G 1/4 RH AGS	788-004
G 3/8 LH	G 3/8 LH AGS	788-002
G 1/2 LH	G 3/8 LH AGS	788-006
G 1/2 LH	G 1/2 LH AGS	788-008

WITTFIX-pipe couplings

pipe



WITTFIX

nut

connection A

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

EN16/12/2014

WITTFIX-pipe couplings

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

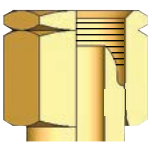
pipe Ø mm	connection A	connection B	order no.
6 x 1,0	G 1/4 RH		956725400
6 x 1,0	G 3/8 LH		956659700
6 x 1,0	G 3/8 RH		956725500
6 x 1,0		G 1/4 RH	956745700
6 x 1,0		G 3/8 LH	956659600
6 x 1,0		G 3/8 RH	956741800
8 x 1,0	G 1/4 RH		956753600
8 x 1,0	G 3/8 LH		956723700
8 x 1,0	G 3/8 RH		956746300
8 x 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

EN16/12/2014

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.

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

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This catalogue supersedes all previous catalogues.
All information given in this catalogue is subject to change, errors cannot be excluded.

When ordering please specify order numbers.

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:

A lot of our information material is available in several languages, please see website.

For US-versions of brochures and data sheets see English website.

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Leak detection

MAP for fruit and vegetables

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- Planning aid for gas mixing plants
- Overview of central gas supply product range
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- Instructional chart Flashback Arrestors
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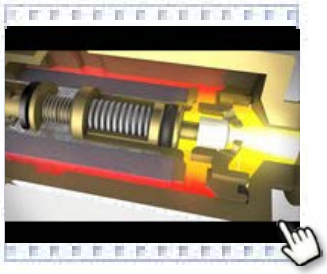
- OXYBABY® leaflet
- WITT company certifications
- News archive
  etc.

Download at ▸ www.wittgas.com

Videos

WITT company video

Flashback arrestors



Leak detection

OXYBABY 6.0

Calibration of OXYBABY®

Download at ▸ www.wittgas.com or Youtube

Special interest 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®

▸

WITT-App

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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
- dialog tool, giving direct access to WITT specialists
- flow calculation

iGases for Apple

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- Gas mixing systems
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- Gas pressure vessels
- Engineering of customised systems

Gas safety equipment

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