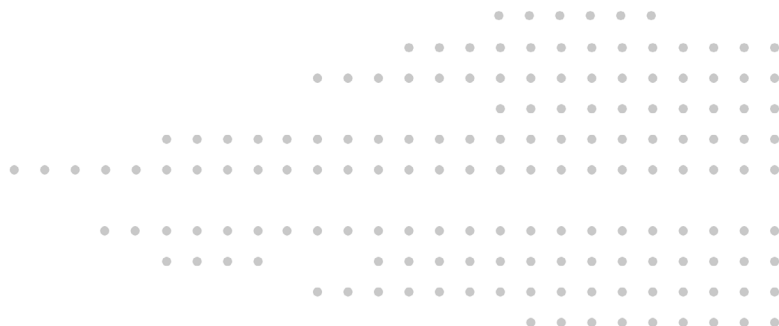


# CATALOGUE 2026



# Quality products from WITT

## Benefits to you:

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



## Our product range

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

### 🕒 **Engineering services included.** **Working closely with you.**



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

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

### **Any other questions?**

### **We provide you with expert answers.**

Our front desk will connect you directly to the right person.

Tel: +49 (0)2302 8901-0

[www.wittgas.com](http://www.wittgas.com)

[witt@wittgas.com](mailto:witt@wittgas.com)

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## KM 20 ECO

2 gases | small flows



### Small Gas mixer especially for dispensing equipment

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

#### model

##### **KM 20 ECO**

KM 20-1 ECO with one outlet

KM 20-2 ECO with two outlets

## MM

2 gases | small to medium flows



### Compact Gas mixer for different applications

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

#### model

##### **MM-2**

MM-2K

MM-2G

## MM FLEX

2 gases | small to medium flows



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

- adjustable mixing valve
- adjustable metering valve
- adjustable pressure

**model**

**MM FLEX**

## BM

2 gases | small flows



**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

**model**

**BM-2**

BM-2M (200 bar)

BM-2M (300 bar)

## KM10-2 FLEX

2 gases | small flows



**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

### model

**KM10-2 Flex**

## MG Fix

2 or 3 gases | medium to high flows



**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

### model

#### **MG-2 Fix for 2 gases**

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

#### **MG-3 Fix for 3 gases**

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

#### **options:**

Inlet pressure monitoring with alarm module AM3

## MG Flex

2 gases | medium to high flows



### 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

#### model

##### MG-2 Flex

MG 25-2 capacity range up to approx. 21 Nm<sup>3</sup>/h  
MG 45-2 capacity range up to approx. 48 Nm<sup>3</sup>/h  
MG 75-2 capacity range up to approx. 65 Nm<sup>3</sup>/h  
MG 95-2 capacity range up to approx. 96 Nm<sup>3</sup>/h  
MG 125-2 capacity range up to approx. 135 Nm<sup>3</sup>/h

#### options:

inlet pressure monitoring with  
alarm module AM3

## KM

2 or 3 gases | small to medium flows



### Mixing system for different technical applications

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

#### model

##### 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

## KM-M



2 or 3 gases | medium to high flows

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

- constant output
- infinitely variable gas blending
- infinitely variable metering
- various flow capacities
- regulation of outlet pressure
- monitoring of gas supply
- integrated inlet pressure monitoring (alarm module AM3)

### model

#### 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

#### option:

optional: automatic shut-off of O2 when going below the limit

## Do you require training on WITT products?

On our service page, we now offer an overview of all standard training modules and a corresponding enquiry form.

Can't find what you're looking for? Then get in touch with us. We will support you and your technical staff according to your needs.

See website ► [WITT trainings](#)

Training for service and maintenance for our customers and partners in 2025



Gas Mixers  
Modules 1 - 5

Gas Analysers  
Modules 6 - 10

Leak Detectors  
Modules 11 - 13

Safety Devices  
Modules 14 - 16



## KM-ME

## 2 or 3 gases | low to very high flows



KM100-2ME on steel receiver

### Powerful gas mixer especially for highly fluctuating mixing gas output quantities

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

#### model

##### KM-2ME for 2 gases

KM 100-2ME

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

mounted on 100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

##### KM-3ME for 3 gases

KM 100-3ME

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

mounted on 100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

#### options:

inlet pressure monitoring with alarm module AM3

surcharge analogue pressure transmitters 2 inlet gases

surcharge analogue pressure transmitters 3 inlet gases

gas analysis with AWS3 controller (only KM-2ME):

O<sub>2</sub> analysis

CO<sub>2</sub> analysis

O<sub>2</sub>/CO<sub>2</sub> analysis

## KM-M+



## 2 or 3 gases | medium to high flows

### Electronic gas mixer with motor-driven mixing valve especially for MAP-packaging and flow-pack machine

- constant output
- infinitely variable gas blending
- infinitely variable metering
- various flow capacities
- regulation of outlet pressure
- monitoring of gas supply
- communication via serial interface (e.g. PLC, PC or 4-20mA/0-10V)
- for operation with mixed gas receiver
- integrated inlet pressure monitoring (alarm module AM3)

#### model

##### **KM-2M+ for 2 gases**

KM 100-2M+  
KM 200-2M+

##### **KM-3M+ for 3 gases**

KM 100-3M+  
KM 200-3M+

#### options:

operation via touch-screen display  
coupling socket set

## KM-FLOW



KM-Flow with analysis

## 2 or 3 gases | medium to high flows

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

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

#### model

##### **KM1000-2 FLOW for 2 gases**

KM 1000-2 FLOW for flow-pack machines  
KM 1000-2 FLOW for vacuum machines

##### **KM1500-3 FLOW for 3 gases**

KM 1500-3 FLOW for flow-pack machines  
KM 1500-3 FLOW for vacuum machines

## MG-2ME

## 2 gases | low to very high flows



MG50-2ME auf steel receiver

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

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

#### model

MG 50-2ME  
mounted on 100 l / 10 bar steel receiver  
mounted on 100 l / 10 bar stainless steel receiver

MG 100-2ME  
mounted on 250 l / 11 bar steel receiver  
mounted on 250 l / 11 bar stainless steel receiver

MG 200-2ME (see option „external filter“)

#### options:

inlet pressure monitoring with alarm module AM3  
external filter as additional protection recommended for MG 50 and MG 100; mandatory for MG 200 (price per gas inlet)  
surcharge analogue pressure transmitters 2 inlet gases

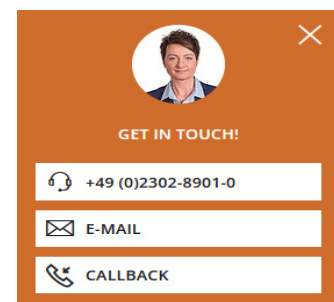
gas analysis with AWS3 controller:

- O2 analysis
- CO2 analysis
- O2/CO2 analysis

## 🎯 Do you need advice?

Our team of experts is there for you: Click on the contact banner on the WITT website and choose whether you want to call us directly, send us an e-mail or have us call you back.

This way you can quickly clarify your question - free of charge, of course.



## MG-3ME

## 3 Gase | low to very high flows



MG50-3ME

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

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

#### model

##### MG 50-3ME

- mounted on 100 l / 10 bar steel receiver
- mounted on 100 l / 10 bar stainless steel receiver

##### MG 100-3ME

- mounted on 250 l / 11 bar steel receiver
- mounted on 250 l / 11 bar stainless steel receiver

MG 200-3ME (see option „external filter“)

#### options:

- inlet pressure monitoring with alarm module AM3
- external filter as additional protection recommended for MG 50 and MG 100; mandatory for MG 200 (price per gas inlet)
- surcharge analogue pressure transmitters 3 inlet gases



alarm module AM3

## Do you already know the WITT YouTube channel?

Here you will find over 25 videos in 9 languages on the topics of mixing and analysing gases, leak testing and gas safety.

Subscribe to [our channel](#) and be among the first to be informed about new videos.

## KM-MEM



KM100-2MEM



KM100-3MEM

## 2 or 3 gases | low to high flows

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

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

### model

#### **KM-2MEM for 2 gases**

KM 100-2MEM

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

KM 200-2MEM

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

#### **KM-3MEM for 3 gases**

KM 100-3MEM

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

KM 200-3MEM

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

#### **options:**

automatic shut-off e.g. of O<sub>2</sub> when going below the limit

## KM-MEM+



## 2 or 3 gases | low to high flows

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

- adjustable mixing valve
- various flow capacities
- with receiver pressure management for use with mixed gas receiver
- also for central gas supply installations
- monitoring of gas supply
- communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V)
- to be used with mixed gas receiver, incl. inlet pressure monitoring

#### model

##### KM-2MEM+ for 2 gases

KM 100-2MEM+

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

KM 200-2MEM+

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

##### KM-3MEM+ for 3 gases

KM 100-3MEM+

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

KM 200-3MEM+

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

#### options:

coupling socket set

interface modules (hardware, assembly, testing)

module Profinet, surcharge

module Analogue 0-10V, surcharge

module RS232, surcharge

## MG-MEM+



## 2 or 3 gases | higher flows

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

- adjustable mixing valve
- various flow capacities
- with receiver pressure management for use with mixed gas receiver
- also for central gas supply installations
- monitoring of gas supply
- communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V)
- to be used with mixed gas receiver, incl. inlet pressure monitoring

#### model

##### MG-2MEM+ for 2 gases

###### MG 50-2MEM+

- mounted on 100 l / 10 bar steel receiver
- mounted on 100 l / 10 bar stainless steel receiver
- mounted on 250 l / 11 bar stainless steel receiver
- mounted on 250 l / 11 bar stainless steel receiver

##### MG-3MEM+ for 3 gases

###### MG 50-3MEM+

- mounted on 100 l / 10 bar steel receiver
- mounted on 100 l / 10 bar stainless steel receiver
- mounted on 250 l / 11 bar stainless steel receiver
- mounted on 250 l / 11 bar stainless steel receiver

#### options:

- coupling socket set
- interface modules (hardware, assembly, testing)
- module Profinet, surcharge
- module Analogue 0-10V, surcharge
- module RS232, surcharge

## 🎯 How do I get the perfect laser cut?

In our new video you can see how the right gas mixer contributes to the perfect result: using high-end technology from WITT.

You will receive a brief introduction to the topic as well as an overview of our special gas mixers.

Click here for the [▶ laser mixer video](#)

## KD



## gas flow controller with O<sub>2</sub> analysis

### Electronical flow control systems for modified atmospheres in the food industry

- with integrated zirconia cell for O<sub>2</sub>-measurement
- integrated PID control loop for automatic gas flow control
- potential free contacts for min./ max. alarms

#### model

KD 500-1A MAPY ZRL

#### options:

sample testing via needle  
additional electrochemical sensor for sample testing

## KM-MAPY ZRL



## gas mixer and meterer

### 2-components gas mixers with integrated O<sub>2</sub> analysis

- with integrated zirconia cell for O<sub>2</sub>-measurement
- integrated PID control loop for automatic gas flow control
- potential free contacts for min./ max. alarms
- MAPY-analysis

#### model

KM 100-2M MAPY ZRL  
KM 200-2M MAPY ZRL  
KM 300-2M MAPY ZRL  
KM 600-2M MAPY ZRL

#### options:

gas mixer M+ (remote control)

## KM10-2 FLEX



### 2 gases | small flows

**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

#### model

**KM10-2 FLEX**

## KM



### 2 or 3 gases | small to medium flows

**Mixing system for different technical applications, e.g. for welding applications**

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

#### model

##### **KM-2 for 2 gases (1 gas flammable)**

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

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

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

## KM-ME Ex

2 or 3 gases | low to very high flows



KM 100-3ME Ex on steel receiver

**Powerful gas mixers especially for highly fluctuating mixing gas output quantities**

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

### model

#### KM-2ME Ex for 2 gases

KM 100-2ME Ex

A, with integrated analysis

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

mounted on 100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

#### KM-3ME Ex for 3 gases

KM 100-3ME Ex

mounted on 20 l / 10 bar steel receiver

mounted on 20 l / 10 bar stainless steel receiver

mounted on 100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

### options:

inlet pressure monitoring with alarm module AM3 (for Ex)

surcharge analogue pressure transmitters 2 inlet gases

surcharge analogue pressure transmitters 3 inlet gases

## 🕒 Which are the advantages of gas mixtures compared to single gases?

Using laser cutting as an example, we explain the differences in this short brochure:

- cutting quality
- cutting speed
- oxidation and post-processing
- production costs

Download flyer ▶ [The perfect laser cut](#)

## MG-ME Ex

## 2 or 3 gases | low to very high flows

### Powerful gas mixers especially for highly fluctuating mixing gas output quantities



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



### model

#### MG-2ME Ex for 2 gases

MG 50-2ME Ex\*

A, with integrated analysis

mounted on 100 l / 10 bar steel receiver

A, with integrated analysis, mounted on

100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

A, with integrated analysis, mounted on

100 l / 10 bar stainless steel receiver

MG 100-2ME Ex\*

A, with integrated analysis

mounted on 250 l / 11 bar steel receiver

mounted on 250 l / 11 bar stainless steel receiver

MG 200-2ME Ex\*

A, with integrated analysis

#### MG-3ME Ex for 3 gases

MG 50-3ME Ex\*

mounted on 100 l / 10 bar steel receiver

mounted on 100 l / 10 bar stainless steel receiver

MG 100-3ME Ex\*

mounted on 250 l / 11 bar steel receiver

mounted on 250 l / 11 bar stainless steel receiver

MG 200-3ME Ex\*

#### options:

inlet pressure monitoring with alarm module AM3 (for Ex)

\*external filter as additional protection recommended for MG 50 and MG 100; mandatory for MG 200 (price per gas inlet)

surcharge analogue pressure transmitters 2 inlet gases

surcharge analogue pressure transmitters 3 inlet gases

## MED MG

## for synthetic air



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

- in accordance with DIN EN ISO 7396-1 section 3.27
- medical product class IIb, CE identification marking according 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

#### model

##### MED MG

MED-MG 50-2ME GB

MED-MG 100-2ME GB

MED-MG 200-2ME GB

MED-MG 500-2ME GB

each with 2 gas filters 077 and printed operation manual

#### options:

automatic calibration

heating (for low ambient temperatures)

#### MED-stainless steel receiver (coated) including solenoid valve, safety devices and connections:

volume	pressure	design	blow-off output SV*
100 litres	10 bar	vertical	382 Nm <sup>3</sup> /h
250 litres	11 bar	vertical	417 Nm <sup>3</sup> /h
500 litres	11 bar	vertical	795 Nm <sup>3</sup> /h
1000 litres	11 bar	vertical	795 Nm <sup>3</sup> /h
2000 litres	11 bar	vertical	2.234 Nm <sup>3</sup> /h
4000 litres	11 bar	vertical	2.234 Nm <sup>3</sup> /h

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

## ⊙ How does the synthetic air supply from WITT work?

You will find the answers in our [special brochure](#).  
Get to know our MED mixer and its safety elements.

Our installation example shows you how the supply systems are designed to ensure maximum safety.

## steel receiver



steel receiver, vertical,  
without safety devices and connections

## without safety devices and connections

**Receivers 20 - 250 l: ground coated and pickled**  
**Receivers 500 - 2000 l: powder coated**

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

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
1000 litres	11 bar	vertical
1000 litres	16 bar	vertical
2000 litres	11 bar	vertical
2000 litres	16 bar	vertical

## stainless steel



stainless steel receiver, horizontal,  
without safety devices and connections

## without safety devices and connections

**stainless steel receivers, not coated**

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

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
1000 litres	11 bar	vertical
1000 litres	16 bar	vertical
2000 litres	11 bar	vertical
2000 litres	16 bar	vertical

## steel receiver



steel receiver, vertical,  
incl. safety devices and connections

## incl. safety devices and connections

### Leak-tested mixed gas receiver made of steel, with ground coat, pickled, passivated

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

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm <sup>3</sup> /h
20 litres	16 bar	horizontal	181 Nm <sup>3</sup> /h
100 litres	10 bar	horizontal	117 Nm <sup>3</sup> /h
100 litres	21 bar	horizontal	181 Nm <sup>3</sup> /h
250 litres	11 bar	horizontal	523 Nm <sup>3</sup> /h
500 litres	11 bar	vertical	523 Nm <sup>3</sup> /h
1000 litres	11 bar	vertical	1880 Nm <sup>3</sup> /h
1000 litres	16 bar	vertical	1750 Nm <sup>3</sup> /h
2000 litres	11 bar	vertical	2490 Nm <sup>3</sup> /h
2000 litres	16 bar	vertical	3265 Nm <sup>3</sup> /h

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

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

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

## 🕒 Do you already know our whitepaper gas mixer?

Here you will find the most important information about the advantages, applications and basic technologies for mixing technical gases in a short, concise form.

You can find our white paper under the menu item „Consulting & Service“.

Download at ▶ [www.wittgas.com](http://www.wittgas.com)

stainless steel

incl. safety devices and connections



stainless steel receiver,  
horizontal,

**Leak-tested mixed gas receiver made of stainless steel, non coated**

- internally degreased and oil-free
- use of humid gases or oxygen may cause corrosion
- incl. safety relief valve
- up to 250l available as a unit with gas mixer
- certificate of CE-conformity conforms to PED for receivers
- operation temperatures -196°C up to +50°C
- operation temperatures of safety relief valve depend on model

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm <sup>3</sup> /h
20 litres	16 bar	horizontal	181 Nm <sup>3</sup> /h
100 litres	10 bar	horizontal	117 Nm <sup>3</sup> /h
100 litres	16 bar	horizontal	181 Nm <sup>3</sup> /h
100 litres	21 bar	horizontal	276 Nm <sup>3</sup> /h
100 litres	30 bar	horizontal	375 Nm <sup>3</sup> /h
100 litres	40 bar	horizontal	509 Nm <sup>3</sup> /h
250 litres	11 bar	horizontal	523 Nm <sup>3</sup> /h
250 litres	16 bar	horizontal	741 Nm <sup>3</sup> /h
250 litres	21 bar	horizontal	276 Nm <sup>3</sup> /h
500 litres	11 bar	vertical	523 Nm <sup>3</sup> /h
500 litres	16 bar	vertical	741 Nm <sup>3</sup> /h
1000 litres	11 bar	vertical	1880 Nm <sup>3</sup> /h
1000 litres	16 bar	vertical	1750 Nm <sup>3</sup> /h
2000 litres	11 bar	vertical	2490 Nm <sup>3</sup> /h
2000 litres	16 bar	vertical	3265 Nm <sup>3</sup> /h

\*blow-off output of the safety relief valve  
(other performances on demand, surcharge)

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

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

## OXYBABY® M+



### portable O2 / CO2 gas analyser - basic model

#### Compact handheld O2 / CO2 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

#### model

OXYBABY® M+ for O2  
OXYBABY® M+ for O2/CO2

#### option:

connector tube with Luer-Lok-connection

## OXYBABY® 6.0



### portable O2 / CO2 gas analyser - premium model

#### Compact handheld O2 / CO2 analyser e.g. for sample testing of MAP-packages (premium model)

- quick and precise
- data log of 500 measurements
- administration of product data and product names
- incl. carrying case, spare needles and filters
- minimum sample gas requirement (approx. 2 ml)
- minimised response time
- measurement of pressure
- USB-interface
- data-log of 500 results
- comfort operation
- integrated needle and filter checks

#### model

OXYBABY® 6.0 for O2  
OXYBABY® 6.0 for O2/CO2

#### option:

connector tube with Luer-Lok-connection  
bluetooth (e.g. for separate tabletop printer)  
further accessories: see page 27  
OBCC software see [page 33](#)

## OXYBABY® M+ P



### basic gas analyser for pressurised pipelines

**Mobile O2/ CO2 sample analysis in pressurised pipelines, mainly in welding technology (basic model)**

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

#### model

OXYBABY® M+ P for O2  
OXYBABY® M+ P for CO2  
OXYBABY® M+ P for O2/CO2

## OXYBABY® 6.0 P



### premium gas analyser for pressurised pipelines

**Mobile O2/ CO2 sample analysis in pressurised pipelines, mainly in welding technology (premium model)**

- fast and precise
- data-log of 500 results (analysis values, date, time of measurement)
- including carrying case and G 1/4 AG connection
- administration of up to 25 users
- comfort operation
- simplified menu navigation etc.

#### model

OXYBABY® 6.0 P for O2  
OXYBABY® 6.0 P for CO2  
OXYBABY® 6.0 P for O2/CO2

## OXYBABY® MED

### portable O<sub>2</sub> / CO<sub>2</sub> gas analyser for medical applications

#### Compact handheld O<sub>2</sub> / CO<sub>2</sub> analyser for checking medical gases



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

#### model

OXYBABY® MED for O<sub>2</sub>  
 OXYBABY® MED for O<sub>2</sub>/CO<sub>2</sub>

#### options:

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

## OXYBABY® Accessories

### diverse

#### Accessories for using the OXYBABY® as a table stand and for premium functions

- for versatile use
- practical and smart



#### model

table stand for OXYBABY®  
 connector tube with Luer-Lok-connection

#### Only for series 6.0:

tabletop bluetooth printer  
 OBCC software see [page 33](#)

## OXYBABY® Accessories



Can-Piercer



Aquacheck

for cans, bottles and mini packages

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

- for head space analysis of cans and bottles ecc., with or without overpressure/gas
- max. height 405 mm
- for O<sub>2</sub> and CO<sub>2</sub> analysis of mini packages, e.g. capsules

### model

**CAN-PIERCER for mini packages, cans and bottles\***  
(with set for head space analysis):

**for mini packages and cans without overpressure/gas**  
(e.g. juice), needle length 5.5 mm  
order no. 590000936

**for cans and bottles with overpressure/gas**  
(e.g. beer, cola ecc.), needle length 8.5 mm  
order no. 590000935

**for canisters without overpressure/gas,**  
(e.g. oil), needle length 18.5 mm  
order no. on request

\*other models, retrofit parts and spare parts on request

**AQUACHECK**  
equipment for the gas analysis of mini packages

**AQUACHECK Plus**  
Aquacheck incl. water container

## 🎯 Compelling redesign: CAN-PIERCER for OXYBABY®

Headspace analysis of cans and bottles has got easier, safer and more comfortable.

The redesign of the CAN-PIERCER offers a secure locking mechanism and easy handling, making this device a perfect assistant in the quality control of canisters, bottles and cans with metal or plastic lids/closures.



## OXYPAD

 for food-grade gases, conforms to 1935/2004



### tabletop and mobile O<sub>2</sub> / CO<sub>2</sub> gas analyser

#### Mobile desktop O<sub>2</sub> / CO<sub>2</sub> analyser e.g. for sample testing of MAP-packages - innovative design

- fast, precise and reliable measurement results
- large 7" touch-screen with graphical user interface for intuitive operation
- needle casing keeps the needle clean and safe
- ergonomic needle pen for precise and safe handling
- low weight, ergonomic form and battery

#### model

- OXYPAD for O<sub>2</sub>
- OXYPAD for CO<sub>2</sub>
- OXYPAD for O<sub>2</sub> and CO<sub>2</sub>

## 🎯 Even more direct service: consulting, repairs, training, etc.

Our website section [Consulting & Service](#) is now even more comprehensive.

Whether you need product advice, a repair order, maintenance enquiry, online support or are interested in training – you will now find the right form for every service request on our website.

Your enquiry will be forwarded directly to the relevant department and processed quickly – real value added, for you.

#### Our service spectrum:

PLANNING & DEVELOPMENT	COMMISSIONING	TECHNICAL SERVICE	MAINTENANCE GAS ANALYSERS
OXYBABY REGISTRATION	OPERATING MANUALS	TAKE-BACK OF ELECTRICAL APPLIANCES \$19 ELEKTROG3	WITT TRAININGS
WHITE PAPERS			

## PA 7.0



## tabletop O<sub>2</sub> / CO<sub>2</sub> gas analyser

### 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<sub>2</sub> for
- quicker measurements

#### model

PA 7.0 for O <sub>2</sub>	Version P or L
PA 7.0 for CO <sub>2</sub>	Version P or L
PA 7.0 for O <sub>2</sub> /CO <sub>2</sub>	Version P or L
PA 7.0 for O <sub>2</sub>	Version S
PA 7.0 for O <sub>2</sub>	Version S and L
PA 7.0 for O <sub>2</sub> /CO <sub>2</sub>	Version S
PA 7.0 for O <sub>2</sub> /CO <sub>2</sub>	Version S and L

#### options:

- handle
- coupling socket set (output signals; alarm contacts)
- integration of the analysing system in the mixer housing
- zirconia measuring cell for O<sub>2</sub>
- O<sub>2</sub> measurement in ppm-range (surcharge calibration)
- heating and thermostat, only electro-chemical sensors
- paramagnetic sensor

OBCC software for the documentation of analysis results: see [page 33](#)

## FAQ

### Choose a product group

Gas Mixers

Gas Analysers

Package Leak Detectors

Flashback Arrestors

Non-Return Valves

Safety Relief Valves

## 🎯 Your questions - our answers

Brand new on our website: the FAQ section. Here you will find lots of questions about our products, technical details and maintenance from all product areas. We are continually filling up the sections and look forward to your feedback.

Feel free to browse through the sections and see what new information you find. Or search for your specific topic by entering your search term.

Do you have specific questions that you would like to see answered? Send us [your question](#) - we will be happy to take up your suggestion.

## MAPY 4.0 / MAPY



reddot design award



for food-grade gases, conforms to 1935/2004



MAPY 4.0 - inclined display for use in laboratory



MAPY LE - vertical display for use as inline analyser

## O<sub>2</sub> / CO<sub>2</sub> gas analyser, sample + inline

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

- for use in laboratory (housing with inclined display) and in production line (housing with vertical display)
- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- optional: zirconia measuring cell for O<sub>2</sub> for quicker measurements
- MAPY LE: ideal also for inline analysis of flow packaging machines; minimisation of gas consumption by combination with the gas mixer KM-FLOW or the KD gas meterer

#### model

MAPY 4.0 / MAPY LE	O <sub>2</sub>	Version P or L
MAPY 4.0 / MAPY LE	CO <sub>2</sub>	Version P or L
MAPY 4.0 / MAPY LE	O <sub>2</sub> /CO <sub>2</sub>	Version P or L
MAPY 4.0 / MAPY LE	O <sub>2</sub>	Version S
MAPY 4.0 / MAPY LE	O <sub>2</sub>	Version S and L
MAPY 4.0 / MAPY LE	O <sub>2</sub> /CO <sub>2</sub>	Version S
MAPY 4.0 / MAPY LE	O <sub>2</sub> /CO <sub>2</sub>	Version S and L

#### options:

zirconia measuring cell  
 paramagnetic measuring cell (incl. larger housing)  
 external barcode reader  
 coupling socket set  
 fully automatic calibration 1 channel  
 fully automatic calibration 2 channels  
 O<sub>2</sub> measurement in ppm-range (surcharge calibration)  
 heating and thermostat (only electro-chemical sensors)  
 different Ethernet cables (only for MAPY in vertical housing)

## MAPY AWS3

## O<sub>2</sub> / CO<sub>2</sub> gas analyser inline

### Basic gas analyser for continuous analysis of overpressure lines

- for use in production
- connector set (output and alarm signals)



#### model

MAPY AWS3	O <sub>2</sub>
MAPY AWS3	CO <sub>2</sub>
MAPY AWS3	O <sub>2</sub> /CO <sub>2</sub>

#### options (for MAPY only):

modbus TCP interface  
 notification via e-mail  
 data logging

## MAPY VAC

### O<sub>2</sub> / CO<sub>2</sub> gas analyser, for traysealers and thermoformers

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



MAPY VAC with touchscreen



MAPY VAC black box version

- measures the O<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub> concentration before sealing the package
- with touchscreen or as black box version (BB)
- option: analysis of buffer tank
- ideal in combination with a WITT gas mixer

#### model

MAPY VAC O<sub>2</sub> Zr  
 MAPY VAC O<sub>2</sub> Zr BB  
 MAPY VAC O<sub>2</sub>/CO<sub>2</sub> Zr  
 MAPY VAC O<sub>2</sub>/CO<sub>2</sub> Zr BB  
 MAPY VAC O<sub>2</sub> Zr, incl. buffer analysis  
 MAPY VAC O<sub>2</sub> Zr BB, incl. buffer analysis  
 MAPY VAC O<sub>2</sub>/CO<sub>2</sub> Zr, incl. buffer analysis  
 MAPY VAC O<sub>2</sub>/CO<sub>2</sub> Zr BB, incl. buffer analysis

#### option:

cover IP45

## Inline gas analysis

### integrated with gas mixer

#### Gas Analysers for H<sub>2</sub>, He, etc. to be combined with WITT gas mixers



GC 50

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

#### model

analyser system H<sub>2</sub> (Ex, Thermal Conductivity Sensors)  
 analyser system H<sub>2</sub> (Ex, Thermal Conductivity Sensors)  
 with additional cut-off valve for flammable gases  
 analyser system He (Thermal Conductivity Sensors)  
 analyser system O<sub>2</sub> (chemical)  
 zirconia measuring cell for analyser system O<sub>2</sub>  
 analyser system O<sub>2</sub> (paramagnetic)  
 analyser system CO<sub>2</sub> (infrared)  
 analyser system O<sub>2</sub> / CO<sub>2</sub> (chemical/infrared)  
 analyser system O<sub>2</sub> / CO<sub>2</sub> (paramagnetic/infrared)  
 integration of the analysing system in the mixer  
 housing (MG 200 without surcharge)



## Options



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

## for WITT gas analysers

### Additional functions for optimising the process (except for MAPY and MFA)

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

#### option

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

back-purging device for inline gas analysers

## OBCC



## documentation software for OXYBABY® 6.0 and PA

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

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

#### OBCC full version incl. updates

licence for 1 year  
 licence for 2 years



## MFA 10.0



### multi gas analyser

#### Portable multi gas analyser especially for maintenance and service

- for analysis of up to 15 different combinations of gases
- easy to use 7" colour touchscreen
- continuous analysis
- no calibration necessary after changing gas combination
- 4-20 mA output signal

#### model

MFA 10.0

## HYDROBABY



### mobile moisture measurement

#### 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

#### model

HYDROBABY

#### options:

pressure compensation  
4-20 mA outlet

## MFA H2O



### stationary moisture measurement

#### Table-top device for analysing moisture in gases

- Features - see HYDROBABY plus:
- overpressure design with metering valve and flow meter, USB interface

#### model

MFA H2O

#### options:

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

## RLA 100



### ambient air monitoring

#### Compact ambient air monitor for the detection of CO<sub>2</sub>

- 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

#### model

RLA 100

## RLA compact



### ambient air monitoring

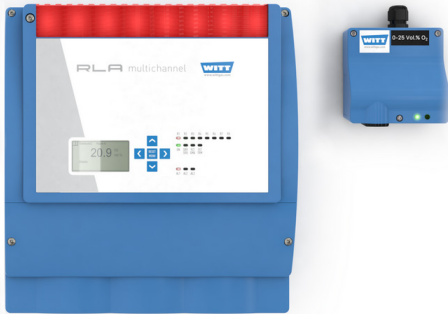
#### Compact ambient air monitoring system for the detection of O<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub> etc, incl. gas monitor, transmitter and transmitter cable

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

#### models / versions

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

## RLA multichannel



## ambient air monitoring

**Compact ambient air monitoring system for the detection of O<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub> etc, incl. gas monitor, transmitter and transmitter cable**

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

### models / versions

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

## Inlet pressure monitoring



separate inlet pressure monitoring

## with alarm module AM3

**For continuous inlet pressure monitoring for maximum process safety**

- simultaneous 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 analogue pressure transmitters, 2 inlet gases  
 surcharge analogue pressure transmitters, 3 inlet gases  
 surcharge analogue pressure transmitters Ex, 2 inlet gases  
 surcharge analogue pressure transmitters Ex, 3 inlet gases  
 LED warning light with signal-horn

## LEAK-MASTER® EASY

### bubble-test

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

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



LEAK-MASTER® EASY 3

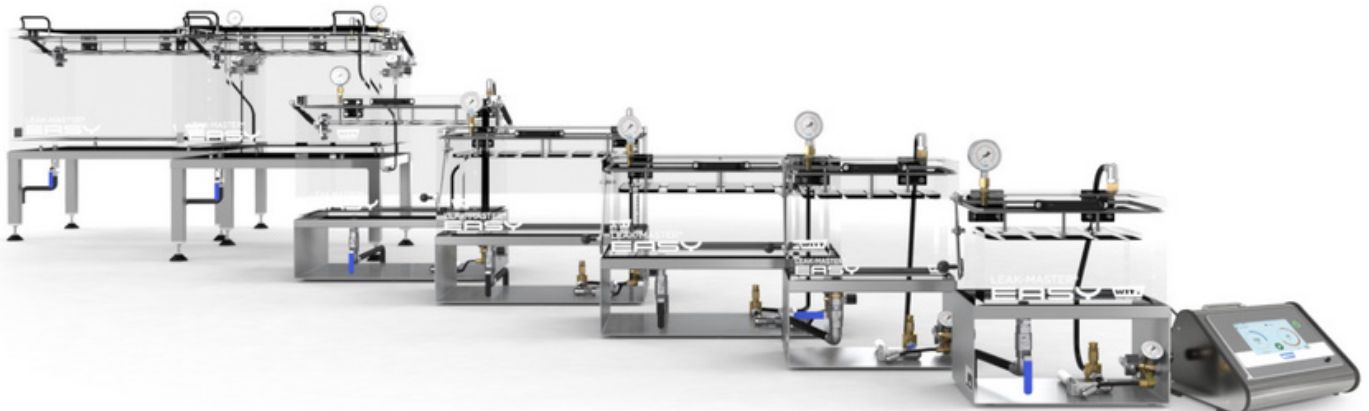


control unit PLUS (optional)

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

version with electric vacuum pump instead of compressed air (not retrofittable), surcharge

options:	order no.
vacuum-set	956.992700
vacuum holding valve	800961000
calibrated manometer	800942100
ASTM F2096 testing set	966129800
control unit PLUS	5901LME-Z-003
option for control unit: barcode reader IP 65	957099400

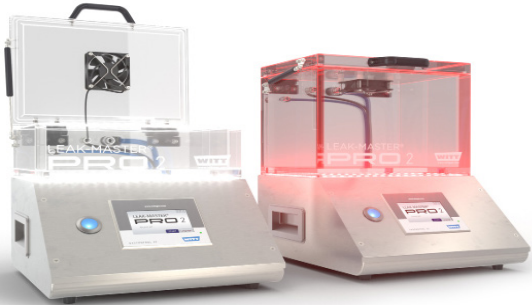


## LEAK-MASTER® PRO 2

### CO<sub>2</sub>-based

**Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO<sub>2</sub>-based**

- non-destructive sample leak testing at a strong price-performance ratio
- without using expensive helium or hydrogen
- detects even the smallest of leaks from 10 µm (depending on the product and the test conditions) with highly sensitive and ultra-fast CO<sub>2</sub> sensor
- housing made of acrylic glass
- visual indication of test results (LED lighting)
- 4 chamber sizes for single packages or small boxes
- measuring range 0 ppm - 5,000 ppm
- user and product administration and documentation
- data transfer via ethernet



LEAK-MASTER® PRO 2  
model 2.1

LEAK-MASTER® PRO 2  
model 2.2

models	chamber size in approx. mm (HxWxD)
LM 2.1	45 x 310 x 200
LM 2.2	175 x 310 x 200
LM 2.3	100 x 460 x 305
LM 2.4	100 x 380 x 380

options:	order no.:
barcode reader IP 65	957099400

leak simulation kit for testing and defining  
acceptable leak rates      966152700

version with electric vacuum pump instead of  
compressed air (not retrofittable), surcharge



## LEAK-MASTER® PRO



### CO<sub>2</sub>-based, for large packages

**Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO<sub>2</sub>-based**

- for large packages and E2-boxes
- detects even the smallest leaks
- measuring range 0 ppm - 5,000 ppm
- user and product administration and documentation
- data transfer via ethernet

models	chamber size in approx. mm (LxWxH)
LM 12.2	140 x 680 x 500
LM 12.1	100 x 680 x 500

options:	order no.:
barcode reader IP 65	957099400

leak simulation kit for testing and defining acceptable leak rates	966152700
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connection for rinsing air	966042500
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## ⊙ Packaging in a modified atmosphere: why and how?

Modified Atmosphere Packaging (MAP) ensures a longer shelf life and an improved impression of freshness in taste, colour and shape. Modified atmosphere counteracts the growth of microbiological organisms and biochemical reactions and thus the spoilage of the product.

Our videos tell you everything you need to know to get started. And, of course, how you can optimise your quality control.

**Part 1 - Basics**

**Part 2 - system components**

## LEAK-MASTER® MAPMAX



### CO<sub>2</sub>-based, 100% inline solution

#### Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO<sub>2</sub>-based

- for large packages and E2-boxes
- detects even the smallest leaks
- measuring range 0 ppm - 5,000 ppm
- user and product administration and documentation
- data transfer via ethernet
- integration in the packaging process
- automatic product positioning
- automatic product transport to the following process
- up to 15 cycles per minute

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

models	size in approx. mm (LxWxH)
MAPMAX Type 400	1700 x 1250 x 2200
Conveyor width	430 mm
	up to 15 cycles per minute
MAPMAX Type 700	1700 x 1250 x 2200
Conveyor width	700 mm
	up to 15 cycles per minute
<b>options:</b>	
	barcode reader IP 65
	MINK vacuum pump
	central vacuum layout (control valve central vacuum)
	surface pressurisation (incl. motorisation)
	e.g. to speed up and improve the measurements
	for packages with a low gas volume
	leak simulation kit for testing and defining
	acceptable leak rates 966152700

## PATBOX



### wireless

#### Compact logger for pressure and temperature

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

**model**  
PATBOX

## 🎯 Leak testing methods in comparison

Many industrial products have to be leak-tight. For example, food, cosmetics or pharmaceutical packaging, but also products such as lights in the automotive industry, electronics or plastic components.

But how can manufacturers test the leak-tightness of their products?

In this interview, Geert Elie from WITT gives an overview of the possibilities and explains the advantages and disadvantages in [this interview](#).

# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

## RF53N



connections 1/4", 3/8", 1/2"

**Universal flashback arrestors certified to DIN EN ISO 5175-1, our best-seller**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrestor 100% tested
- [IBExU](#) certified
- 25.5 X 82 mm, 191 g
- acetylene max. 13 m<sup>3</sup>/h
- fuel gases max. 68 m<sup>3</sup>/h
- oxygen max. 187 m<sup>3</sup>/h

Also available in [stainless steel](#)

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

## RF53DN



connections G 1/4", G 3/8", G 1/2"

**Universal flashback arrestors certified to DIN EN ISO 5175-1 with pressure relief valve [RV]**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrestor 100% tested
- [IBExU](#) certified
- 25.5 X 101 mm, 260 g
- acetylene max. 11.5 m<sup>3</sup>/h
- fuel gases max. 105 m<sup>3</sup>/h
- oxygen max. 56 m<sup>3</sup>/h

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

# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

**RF53NSK**

**connections 1/4", 3/8"**

**Flashback arrestors certified to DIN EN ISO 5175-1 with integrated coupling body**



- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- **IBExU** certified
- 25.5 X 110 mm, 248 g
- acetylene max. 13 m<sup>3</sup>/h
- fuel gases max. 68 m<sup>3</sup>/h
- oxygen max. 187 m<sup>3</sup>/h

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

## 🎯 Certified to the highest standards worldwide

The test certificate from the IBExU Institute confirms that WITT safety devices are manufactured and tested in accordance with the highest global standards, e.g.

- Safety devices in accordance with DIN EN ISO 5175-1 plus BAM StAA standards

- Hose couplings in accordance with DIN EN ISO 561 plus BAM StAA standards

You can't get any safer than that.

All WITT certificates can be found [here](#).



# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

## 85-10



### connections 1/4", 3/8", 1/2"

Standard flashback arrestor, certified to DIN EN ISO 5175-1 for higher flows

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrester 100% tested
- IBExU certified
- 34 X 106 mm, 434 g
- acetylene max. 22 m<sup>3</sup>/h
- fuel gases max. 235 m<sup>3</sup>/h
- oxygen max. 310 m<sup>3</sup>/h

Also available in [stainless steel](#)

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	MG → AGS	143-002
G 1/2 LH	MG → AGS	143-008
9/16" LH	MG → AGS	143-009
for oxygen:		
G 1/4 RH	MG → AGS	143-013
G 3/8 RH	MG → AGS	143-016
G 1/2 RH	MG → AGS	143-019
9/16" RH	MG → AGS	143-022
for fuel gases or oxygen:		
1/4" NPT	IG → IG	143-323
3/8" NPT	IG → IG	143-105
G 3/8 RH	IG → IG	143-227
1/2" NPT	IG → IG	143-377

## 85-20



### connections 3/4", 1/2", 1"

Standard flashback arrestor, certified to DIN EN ISO 5175-1 for higher flows

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrester 100% tested
- 62 X 131/137 mm, 1400-1500 g
- acetylene max. 45 m<sup>3</sup>/h
- fuel gases max. 324 m<sup>3</sup>/h
- oxygen max. 333 m<sup>3</sup>/h

Also available in [stainless steel](#)

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

# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

85-30

connections 3/4", 1", 1.1/2"

**Flashback arrestors certified to DIN EN ISO 5175-1, standard for maximum flows**

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- [IBExU](#) certified
- 84 X 162/188 mm, 4,580 g
- acetylene max. 70 m<sup>3</sup>/h
- fuel gases max. 675 m<sup>3</sup>/h
- oxygen max. 860 m<sup>3</sup>/h

Also available in [stainless steel](#)



connection	inlet → outlet	order no.
------------	----------------	-----------

for fuel gases (except acetylene):

G 3/4 LH	..... MG → AGS	..... 147-001
G 1 LH	..... MG → AGS	..... 147-003

for oxygen:

G 3/4 RH	..... MG → AGS	..... 147-065
G 1 RH	..... MG → AGS	..... 147-068

for fuel gases (except acetylene) or oxygen:

3/4" NPT	..... IG → IG	..... 147-081
1" NPT	..... IG → IG	..... 147-072
G 1.1/2 RH	..... IG → IG	..... 147-069
1/2" NPT	..... IG → IG	..... 147-083

for acetylene (EPDM sealing ring):

G 3/4 LH	..... MG → AGS	..... 147-117
G 1 LH	..... MG → AGS	..... 147-118
G 1 RH	..... IG → IG	..... 147-123
G 1.1/2 RH	..... IG → IG	..... 147-116

1/2" NPT	..... IG → IG	..... 147-119
3/4" NPT	..... IG → IG	..... 147-120
1" NPT	..... IG → IG	..... 147-121

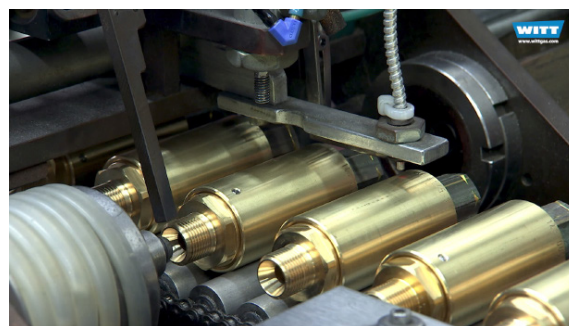
## 🕒 Every flashback arrestor 100% tested

WITT stands for the highest quality, made in Germany. In addition to setting engineering standards, we use the best materials, excellent workmanship and a seamless quality assurance system.

We developed our own testing equipment and procedures for testing every single flashback arrestor before delivery. Safe as it gets.

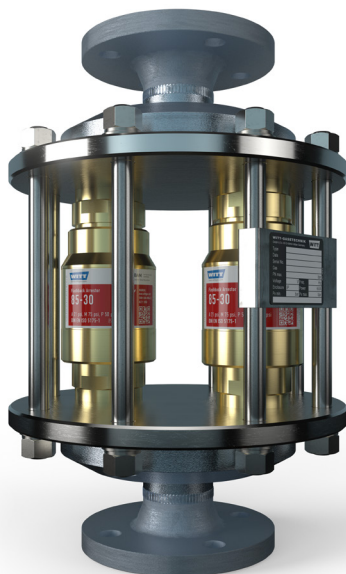
The WITT Company is certified for quality management system DIN EN ISO 9001:2008.

Information on our product certifications and testing can be found on the data sheet. You can also find a list of all WITT [certifications](#) at our website.



# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

## Safety group 645/85-30



### connections DN 50 (2- or 4-fold)

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

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrester 100% tested
- 285 X 430 mm, 44 kg (2-fold), 53 kg (4-fold)
- acetylene max. 392 m<sup>3</sup>/h
- fuel gases max. 2,740 m<sup>3</sup>/h
- oxygen max. 1.850 m<sup>3</sup>/h

This model (4-fold) is also available in stainless steel.

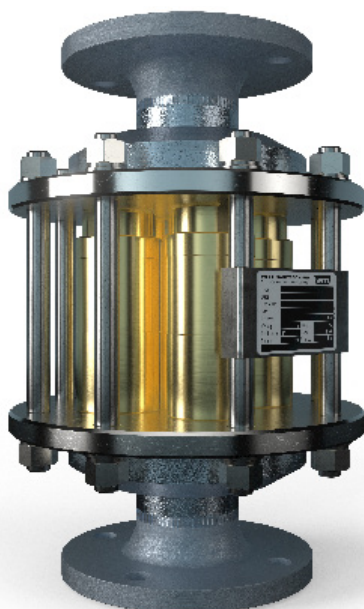
connection	inlet → outlet	order no.
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for acetylene:		
DN 50 (2-fold).....	flange DIN 2633 .....	182-055
DN 50 (4-fold).....	flange DIN 2633 .....	182-054
2" NPT (4-fold) .....	IG → IG .....	182-056

for oxygen and fuel gases (except acetylene):		
DN 50 (2-fold).....	flange DIN 2633 .....	182-023
DN 50 (4-fold).....	flange DIN 2633 .....	182-007

5-fold on demand

## Safety group 645/623N



### connections DN 65 (4- or 5-fold)

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

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrester 100% tested
- 260 X 384 mm, 44 kg (4-fold), 31/46 kg (5-fold)
- town gas / natural gas max. 1.010 m<sup>3</sup>/h

connection	inlet → outlet	order no.
------------	----------------	-----------

for town gas / natural gas:		
DN 65/PN16 (4-fold)	flange DIN 2633 .....	182-014
DN 65/PN16 (5-fold)	flange DIN 2633 .....	182-018



# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

## SUPER 55



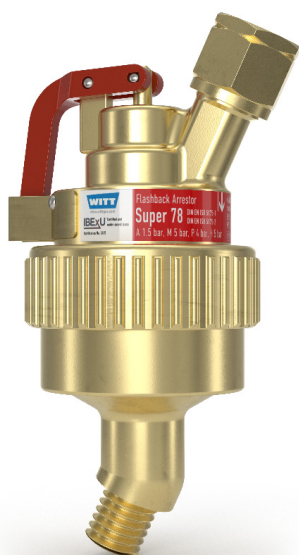
connections 3/8", 1/4"

**Resettable Flashback arrestor, certified to DIN EN ISO 5175-1 with pressure sensitive cut-off valve [PV] and visual warning**

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet and pressure sensitive cut-off valve [PV]
- stops supply of fuel gas in case of flashback and shows warning signal, easy recommissioning
- every arrestor 100% tested
- **IBExU** certified
- 27.5 X 124 mm
- acetylene max. 10 m<sup>3</sup>/h
- fuel gases max. 60 m<sup>3</sup>/h
- oxygen max. 95 m<sup>3</sup>/h

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 78



connections 3/8", 1/4"

**Resettable Flashback arrestor, certified to DIN EN ISO 5175, with pressure sensitive cut-off valve [PV] and visual warning, and maximum number of safety elements**

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet, pressure sensitive cut-off valve [PV]
- stops supply of fuel gas in case of flashback and shows visual warning that flashback has occurred, easy to reset
- every arrestor 100% tested
- **IBExU** certified
- 63 X 120 mm, 650g
- acetylene max. 11 m<sup>3</sup>/h
- fuel gases max. 128 m<sup>3</sup>/h
- oxygen max. 62 m<sup>3</sup>/h

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



# FLASHBACK ARRESTORS for pressure regulators, outlet points and pipelines

## SUPER 66



connections 3/8", 1/4"

**Resettable Flashback arrester, certified to DIN EN ISO 5175-1, with pressure sensitive cut-off valve [PV] and visual warning, and maximum number of safety elements**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet, pressure sensitive cut-off valve [PV]
- stops supply of fuel gas in case of flashback and shows visual warning that flashback has occurred, easy to reset
- every arrester 100% tested
- 63 X 160 mm, 1,104 g
- acetylene max. 20 m<sup>3</sup>/h
- fuel gases max. 225 m<sup>3</sup>/h
- oxygen max. 105 m<sup>3</sup>/h

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

## F53N/HHO



connections 1/4"

**Universal flashback arrester brass for hydrogen-oxygen-mixture, certified to DIN 32508 n° 5.8.2 and 5.8.3, suitable for chlorinators**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV]
- every arrester 100% tested
- 25 X 68 mm, 172 g
- up to max. 0.5 bar
- air max. 13 Nm<sup>3</sup>/h

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

## ⊙ Did you know? Most of our products are suitable for hydrogen

If you find the „H2 READY“ logo on a product page on our website, you can be sure: This product is suitable for your hydrogen application.

If you are not seeing it - just ask. Perhaps we can help you anyway. You can reach our specialists here: [witt@wittgas.com](mailto:witt@wittgas.com)



## E460-1



### connections 3/8"

#### Flashback arrestors certified to DIN EN ISO 5175-1 with nozzle connection

- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- **IBExU** certified
- 86 mm height, 99 g
- acetylene max. 9 m<sup>3</sup>/h
- fuel gases max. 82 m<sup>3</sup>/h
- oxygen max. 119 m<sup>3</sup>/h

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
9.0 mm - G 3/8 RH .... nozzle	→ MG	135-022

## E460-2



### connections 4 up to 9 mm

#### Flashback arrestors certified to DIN EN ISO 5175-1 for hose mounting

- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- **IBExU** certified
- 99 mm height, 93 g
- acetylene max. 9 m<sup>3</sup>/h
- fuel gases max. 82 m<sup>3</sup>/h
- oxygen max. 119 m<sup>3</sup>/h

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

connections 1/4", 3/8"

**Flashback arrestors certified to DIN EN ISO 5175-1 with thread connection for torch or cutting machine**



- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- [IBExU](#) certified
- 65 mm height, 107 g
- acetylene max. 9 m<sup>3</sup>/h
- fuel gases max. 82 m<sup>3</sup>/h
- oxygen max. 119 m<sup>3</sup>/h

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

## E460-SK

connections 1/4", 3/8"

**Flashback arrestors certified to DIN EN ISO 5175-1 with integrated coupling nipple**



- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- can be used in conjunction with WITT-coupling system SK100 for quick hose connection / disconnection
- 86 mm height, 112 g
- acetylene max. 9 m<sup>3</sup>/h
- fuel gases max. 82 m<sup>3</sup>/h
- oxygen max. 119 m<sup>3</sup>/h

related product: coupling body [SK100-9](#)

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

## E460-SKU



connections 6.3 and 8 mm, 3/8", 1/4"

**Flashback arrestors certified to DIN EN ISO 5175-1 with integrated coupling body**

- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- can be used in conjunction with WITT-coupling system SK100 for quick hose connection / disconnection
- 85 mm height, 145 g
- acetylene max. 13 m<sup>3</sup>/h
- fuel gases max. 68 m<sup>3</sup>/h
- oxygen max. 187 m<sup>3</sup>/h

related coupling probes: see [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



connections 6.3 and 8 mm, 3/8", 1/4"

**Coupling body without non-return valve and coupling probe, accessory for E460SK and E460SKU**

- for quick connection and disconnection of the hose
- coupling body for coupling to E460SK
- coupling probe SK100-1 for coupling to E460SKU
- in accordance with EN 561 / ISO 7289

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

## RF53NU

connections 1/4", 3/8", 1/2"

**Flashback arrestors certified to DIN EN ISO 5175-1 for high-performance torches**



- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- 25.5 X 82 mm, 191 g
- acetylene max. 13 m<sup>3</sup>/h
- fuel gases max. 68 m<sup>3</sup>/h
- oxygen max. 187 m<sup>3</sup>/h

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

connections 3/8", 1/2"

**Flashback arrestors certified to DIN EN ISO 5175-1 for high-performance torches**



- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- 34 X 106 mm, 434 g
- acetylene max. 22 m<sup>3</sup>/h
- fuel gases max. 235 m<sup>3</sup>/h
- oxygen max. 310 m<sup>3</sup>/h

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

## 85-10NU (eccentric)



connections 3/8", 1/4", 1/2"

**Flashback arrestors certified to DIN EN ISO 5175-1 for high-performance torches, off-centre connection**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrester 100% tested
- 34 X 99-118 mm, 417 g
- acetylene max. 22 m<sup>3</sup>/h
- fuel gases max. 235 m<sup>3</sup>/h
- oxygen max. 310 m<sup>3</sup>/h

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

## ⊙ Which safety device at which point? An overview.

Find the right products for your welding application.

## E460-3



### connections 1/4", 3/8"

#### Flashback arrestors certified to DIN EN ISO 5175-1 with thread connection for torch or cutting machine

- for individual cylinders
- safety elements: flame arrestor [FA], non-return valve [NV]
- every arrestor 100% tested
- [IBExU](#) certified
- 65 mm height, 107 g
- acetylene max. 9 m<sup>3</sup>/h
- fuel gases max. 82 m<sup>3</sup>/h
- oxygen max. 119 m<sup>3</sup>/h

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



### connections 1/4", 3/8", 1/2"

#### Flashback arrestors certified to DIN EN ISO 5175-1 for high-performance cutting machines - without temperature-sensitive cut-off valve [TV]

- safety elements: flame arrestor [FA], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- 25.5 X 82 mm, 191 g
- acetylene max. 13 m<sup>3</sup>/h
- fuel gases max. 68 m<sup>3</sup>/h
- oxygen max. 187 m<sup>3</sup>/h

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

connections 3/8", 1/2"



Flashback arrestors certified to DIN EN ISO 5175-1 afor high-performance cutting machines - without temperature-sensitive cut-off valve

- safety elements: flame arrestor [FA], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- 34 X 106 mm, 434 g
- acetylene max. 22 m<sup>3</sup>/h
- fuel gases max. 235 m<sup>3</sup>/h
- oxygen max. 310 m<sup>3</sup>/h

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

## Perfect for cutting machines: Dome pressure regulators from WITT

Correct gas dosing is of crucial importance for flame cutting machines.

Dome pressure regulators from WITT are predestined for this with their advanced technology: The constant working pressure ensures a consistent gas supply and thus the quality of the downstream processes.

Read the article „[The design makes the difference](#)“ from our news section.



## RF53N/30



### connections 3/8"

#### Flashback arrestors certified to DIN EN ISO 5175-1 for higher flows

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (for low pressure applications without non-return valve)
- every arrester 100% tested
- 25.5 X 82 mm, 191 g
- 65 mm height, 107 g
- fuel gases 16 m<sup>3</sup>/h
- air 12 m<sup>3</sup>/h

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

## 85-10/30



### connections 1/4", 3/8", 1/2"

#### Flashback arrestors certified to DIN EN ISO 5175-1 for higher flows

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (for low pressure applications without non-return valve)
- every arrester 100% tested
- 25.5 X 82 mm, 191 g
- 65 mm height, 107 g
- fuel gases 30 m<sup>3</sup>/h
- air 21 m<sup>3</sup>/h

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

# FLASHBACK ARRESTORS for high flows

270N/NU

connections 3/4" up to 1.1/2"

Flashback arrestors certified to DIN EN ISO 5175-1 for very high flows

- safety elements: flame arrestor [FA], non-return valve [NV] temperature-sensitive cut-off valve [TV]
- every arrestor 100% tested
- 62 X 131-160 mm, 1,400-1,700 g
- acetylene max. 22 m<sup>3</sup>/h
- fuel gases (without acetylene) max. 371 m<sup>3</sup>/h
- air max. 164 m<sup>3</sup>/h

Pipeline fittings see [page 59](#)



connection	inlet → outlet	order no.
<b>270N</b>		
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
<b>270N (reverse flow)</b>		
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



# FLASHBACK ARRESTORS for high flows

## 623N/NU

connections 3/4" up to 1.1/2"

Flashback arrestors certified to DIN EN ISO 5175-1 for maximum flows

- safety elements: flame arrestor [FA], non-return valve [NV] temperature-sensitive cut-off valve [TV]
- every arrestor 100% tested
- 62 X 184-195 mm, 1,800-2,001 g
- fuel gases max. 406 m<sup>3</sup>/h
- air max. 335 m<sup>3</sup>/h



connection	inlet → outlet	order no.
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### 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

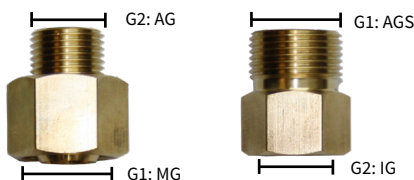
### 623N (reverse flow)

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

connections 3/4" up to 1.1/2"

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



# FLASHBACK ARRESTORS for central acetylene supply

## FN 12 / FN 40

### connections 1.1/2"

**Decomposition arrestor, stops dangerous decomposition of acetylene in low-pressure pipelines - up to 1.5 bar**

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV]
- stops the explosive decomposition of acetylene via pressure-controlled quick-acting piston valve
- every arrestor 100% tested
- **IBExU** certified
- constructed and tested in accordance with DIN EN ISO 5175-3
- 70 X 160/200 mm, 3,091-3,846 g
- FN12 Q= ca. 76 m<sup>3</sup>/h
- FN40 Q= ca. 140 m<sup>3</sup>/h



connection	inlet → outlet	order no.
<b>F12</b>		
G 1.1/2 RH	IG → IG	021-001
<b>F40 (double flow capacity)</b>		
G 1.1/2 RH	IG → IG	021-003

## Safety group 645 / FN 40

### connections DN 50 (2- or 4-fold)

**Parallel bundle of 2 or 4 decomposition arrestors FN4, to protect against dangerous decomposition of acetylene in low-pressure pipelines, for high flow rates - up to 1.5 bar**

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV]
- stops the explosive decomposition of acetylene
- every arrestor 100% tested
- DIN EN ISO 5175-1
- 470 X 260 mm, 46 kg
- Q= ca. 560 m<sup>3</sup>/h



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

## HDS17

### connections 3/4"



**Shut-off device stops dangerous decomposition of acetylene in the high-pressure pipelines - up to 25 bar**

- stops the explosive decomposition of acetylene via pressure-controlled quick-acting piston valve
- every arrester 100% tested
- [IBExU](#) certified
- TRAC 206
- DIN EN ISO 15615
- DIN EN ISO 14114
- 50 X 152 mm, 1,797 g
- up to 25 bar working pressure

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

## ⊙ Stops acetylene decay faster than the supersonic pressure wave

For systems with two or more acetylene cylinders, DIN EN ISO 14114 stipulates a quick-closing device.

The HDS17 from WITT closes the gas flow faster than the supersonic pressure wave – thus preventing serious consequences. You can see how this works in [this video](#).



## HRV 650

### connections 1.1/2"



**Bundle connection with non-return valve, for direct connection to a cylinder bundle**

- with non-return valve certified to EN ISO 14114
- tested in accordance with DIN EN ISO 15615
- every arrester 100% tested
- for a rapid, easy and thus safe replacement of the acetylene cylinder bundle
- no tools required
- dimensions: 172 mm, 865 g
- up to 25 bar working pressure

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

## MGN



connections 1/2", 1/4"

**Decomposition arrestor stops dangerous decomposition of acetylene in the high-pressure pipes of bottling plants - up to 25 bar**

- safety elements: flame arrestor [FA], optional: non-return valve [NV]
- opening pressure approx. 60 mbar
- every arrestor 100% tested
- DIN EN ISO 14114
- EIGA acetylene IGC DOC 123/4
- 29.5 X 88.5 mm, 385-412 g
- up to 25 bar

connection	inlet → outlet	order no.
G 1/2 RH - W 21.8x1/14 .....	AG → AG .....	022-014
G 1/4 RH - G 1/4 .....	AGS → IG .....	022-011

## HD-NV



connections 1/4"

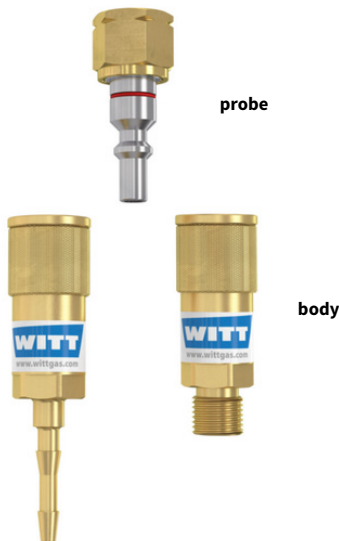
**High-pressure non-return valve to be screwed onto the gas cylinder by using a bow - up to 25 bar**

- for bows according to DIN 477, part 1, no. 3
- every arrestor 100% tested
- EN ISO 15615
- up to 25 bar

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

## SK100-1

### for torches



- rapid connection and disconnection of the hose
- simple and robust colour-coding of body and nipple
- nipple with non-return valve and self-acting gas lock
- coupling nipple made of durable stainless steel
- certified to DIN EN 561/ ISO 7289
- [IBExU](#) certified
- every hose coupling 100% tested

connection	inlet → outlet	order no.
<b>probe</b>		
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
<b>body (also for SK100-2)</b>		
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

## 🎯 Small differences with a big effect

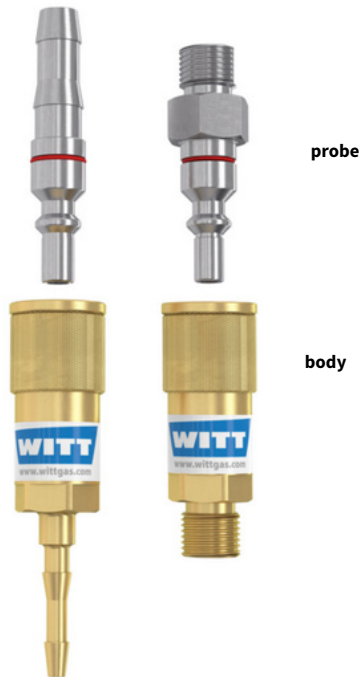
What makes WITT quick couplings so special?

Watch our video to find out what features our quick couplings have and how they benefit you as a customer.



## SK100-2

### for hoses



- rapid connection and disconnection of the hose
- simple and robust colour-coding of body and nipple
- flexible extension of hose if required
- nipple with non-return valve and self-acting gas lock
- coupling nipple made of durable stainless steel
- certified to DIN EN 561/ ISO 7289
- [IBExU](#) certified
- every hose coupling 100% tested

connection	inlet → outlet	order no.
<b>probe</b> (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
<b>body</b>		
see SK100-1		

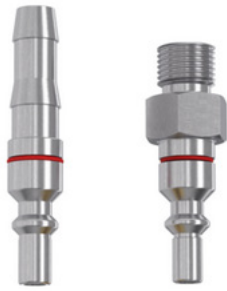
## ☉ Which coupling for which position? An overview.

Use our practical [overview of the WITT SK100](#) coupling system.

Here you will find:

- all modules from the tapping point up to the handle
- all connections at a glance
- all WITT article numbers for fuel gases and for oxygen

## SK100-3



probe



body

### for outlet points

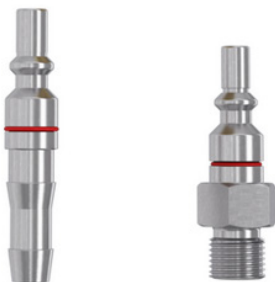
- rapid connection and disconnection of the hose
- simple and robust colour-coding of body and nipple
- nipple with self-acting gas lock
- coupling nipple made of durable stainless steel
- certified to DIN EN 561 / ISO 7289
- **IBEXU** certified
- every hose coupling 100% tested

connection	inlet ⇄ outlet	order no.
<b>probe</b> see SK100-2		
<b>body</b>		
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

## Key Mark Coupling



body



probe

### for the protection of outlet points

- rapid connection and disconnection of the hose
- simple and robust colour-coding of body and nipple
- coupling nipple made of durable stainless steel
- only the owner of the designated key mark can extract gas
- certified to DIN EN 561 / ISO 7289
- every hose coupling 100% tested

connection	inlet ⇄ outlet	order no.
<b>body</b>		
for fuel gases:		
G 3/8 LH .....	MG ⇄ coupling body .....	150-115
for other gases:		
G 1/4 RH .....	MG ⇄ coupling body .....	150-033
<b>keymark</b> .....		801836700
<b>probe</b>		
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

## ULTRA 10



### connections 1/2"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 35 X 60 mm, 221 g
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- up to 16 bar

Also available in stainless steel

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

**design (standard):**

filter: yes    seal o-ring: NBR    seal valve: CR    housing: brass

## ULTRA 12



### connections 1/2"

**Based on ULTRA 10 – your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 11 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 35 X 60 mm, 221 g
- minimal noise emissions
- up to 16 bar

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

**design (modular system):**

(filter/seal o-ring/seal valve/housing)

no/NBR/CR/brass	.....	034-001
yes/NBR/CR/aluminum	.....	034-005
yes/FPM/FKM/brass	.....	034-006



## ULTRA 20



connections 1/2", 3/4", 1"

**Ultra-performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 52 X 67.5 mm, 510 g
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used e.g. thermal processing, biogas etc.
- up to 16 bar

Also available in [stainless steel](#)

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

**design (standard):**

filter: yes    seal o-ring: NBR    seal valve: CR    housing: brass

## Why ULTRA?

WITT has achieved a leap in performance in non-return valves. Read all about our latest successful model in this [brochure](#).

### ULTRA performance

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

### ULTRA low opening pressure

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

### ULTRA compact

Small and lightweight  
Perfect for compact plant designs

### ULTRA silent

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

### ULTRA flexible

Free combination of materials on request  
Exactly suited to your requirements

### ULTRA safe

Reliably stops gas backflow and flashback

## ULTRA 22

connections 1/2", 3/4", 1"

**Based on ULTRA 20 – your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FFKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, lightweight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 20 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 52 X 67.5 mm, 510 g
- minimal noise emissions
- up to 16 bar



connection	inlet → outlet	order no.
G 1 RH	..... IG → IG	
<b>design (modular system):</b> (filter/seal o-ring/seal valve/housing)		
	no/EPDM/EPDM/brass	..... 036-001
	no/NBR/CR/brass	..... 036-003
	yes/NBR/CR/aluminum	..... 036-008
	yes/ISOLAST/ISOLAST/aluminum	..... 036-009
G 1/2 RH	..... IG → IG	
<b>design (modular system):</b> (filter/seal o-ring/seal valve/housing)		
	yes/FPM/FPM/brass	..... 036-013

## ⊙ What are the typical areas of application?

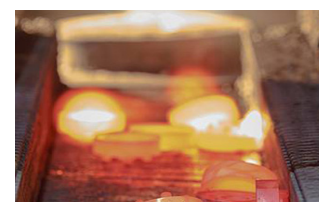
Would you like to know whether ULTRA non-return valves are suitable for your application? suitable for your application?

Ask our specialists and let them advise you.

Request a [callback](#) here.



Low pressure pipelines



Thermal processing plants



Hydrogen applications



Biogas plants



## ULTRA 30



### connections 1.1/2"

**Ultra-performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (5 mbar), ultra-low pressure drop
- compact and light: 73.5 X 111 mm, 1.8 kg
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used
- up to 20 bar

Also available in [stainless steel](#)

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

**design (standard):**

filter: yes    seal o-ring: NBR    seal valve: CR    housing: brass

## ULTRA 32



### connections 1.1/2"

**Based on ULTRA 30 – your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 30 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (5 mbar), ultra-low pressure drop
- compact and light: 73.5 X 110 mm, 1.8 kg
- minimal noise emissions
- up to 20 bar

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	

**design (modular system):**

(filter/seal o-ring/seal valve/housing)

yes/EPDM/EPDM/brass ..... 033-009

yes/NBR/CR/stainless steel ..... 033-010

## ULTRA 35



connections 1.1/2", 2", DN 40, DN 50

**Ultra-performance protection against gas return: compact, quiet, ideal for low pressure applications for use in thermal processing plants, certified to EN 746-2**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ideal for biogas desulphurisation systems
- ultra-low opening pressures (approx. 3 mbar), ultra-low pressure drop
- 90 X 145 mm, 2,789 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 8,100 m<sup>3</sup>/h

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 + o-ring	400038A005
DN 50 / PN 40	loose flange + o-ring	400038A006

## ULTRA 37



connections 1.1/2"

**Based on ULTRA 35 – your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 35 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (3 mbar), ultra-low pressure drop
- compact and light: 90 X 145 mm, 2,789 g
- minimal noise emissions
- up to 16 bar

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	
<b>design (modular system):</b> (filter/seal o-ring/seal valve/housing)		
yes/EPDM/EPDM/brass		038-XXX
yes/NBR/CR/stainless steel		038-XXX

## ULTRA 40



### connections 2.1/2"

**Ultra-performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (5 mbar), ultra-low pressure drop
- compact and light: 114 X 146 mm, 7.1 kg
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used
- up to 20 bar

Also available in stainless steel

connection	inlet → outlet	order no.
------------	----------------	-----------

G 2.1/2 RH	IG → IG	035-001
2.1/2" NPT	IG → IG	035-004

**design (standard):**

filter: yes    seal o-ring: NBR    seal valve: CR    housing: brass

## ULTRA 42



### connections 2.1/2"

**Based on ULTRA 40 – your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 40 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-2
- use is possible for applications according to EN 746-2
- ultra-low opening pressures (5 mbar), ultra-low pressure drop
- compact and light: 114 X 146 mm, 7.1 kg
- minimal noise emissions
- up to 20 bar

connection	inlet → outlet	order no.
------------	----------------	-----------

G 2.1/2 RH	IG → IG	
------------	---------	--

**design (modular system):**

(filter/seal o-ring/seal valve/housing)  
yes/FPM/FKM/stainless steel

..... 035-007

## NV 654



### connections 1/8"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- small and light: 14 X 42 mm, 39 g
- up to 60 bar working pressure (O<sub>2</sub>: up to 30 bar)
- air max. 130 m<sup>3</sup>/h

Also available in [stainless steel](#)

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

## NV100



### connections 1/8" up to 3/8"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- compact and light: 25 X 71-78 mm, 39 g
- up to 25 bar working pressure
- air max. 130 m<sup>3</sup>/h

Also available in [stainless steel](#)

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

# NON-RETURN VALVES standard

## NV 600H



### connections 1/2" up to 1"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2
- ultra-low opening pressures (approx. 250 mbar)
- 52 X 65 mm, 589-745 g
- up to 40 bar working pressure
- air max. 1900 m<sup>3</sup>/h

Also available in [stainless steel](#)

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

## NV 70 / 70U



### connections 1/2" up to 1.1/2"

#### Non-return valve for the prevention of unintended gas mixtures, up to 16 bar for use in thermal processing plants, certified to EN 746-2

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2, DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- 62 X 137 X 160 mm, 1,255-1,679 g
- up to 16 bar working pressure
- air max. 1120 m<sup>3</sup>/h

See also „pipeline fittings“ on [page 59](#)

connection	inlet → outlet	order no.
<b>70</b>		
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
<b>70U (reverse flow)</b>		
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

# NON-RETURN VALVES standard

## NV 300



### connections 1" up to DN 32

**Non-return valve for the prevention of unintended gas mixtures, up to 16 bar for use in thermal processing plants, certified to EN 746-2**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 3.5 mbar), ultra-low pressure drop
- 65 X 115-130 mm, 1,568 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 3,260 m<sup>3</sup>/h

Also available in stainless steel

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*	300038A009

\*with o-ring

## Do you already know our examples from practice?

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

Perhaps your topic is also included?

Read for example:

[ULTRA non-return valve at Sorbonne  
Cost Reduction through Increased Helium Recovery Rate](#)



ULTRA NON-RETURN VALVE AT SORBONNE

## NV800

### connections DN 80



**Non-return valve for the prevention of unintended gas mixtures, up to 16 bar for use in thermal processing plants, certified to EN 746-2**

- with welding neck flanges for simple installing and removing
- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2
- ultra-low opening pressures (approx. 6-8 mbar), ultra-low pressure drop
- dirt filter (100 µm) on gas inlet
- up to 10 bar
- air max. 14,000 m<sup>3</sup>/h

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

## ⊙ Does the product fit into your plant?

You can now find out very easily.

Request a STEP file via the [website](#).

In a short time you will receive it in your e-mail box and can comfortably check the installation possibilities in your CAD program.

## ULTRAVENT 6

connections 1/8"



ULTRAVENT 6  
without strainer

ULTRAVENT 6  
with strainer

**for precise control of under or over pressure between 5 and 500 mbar: can be used as a back pressure regulator, pressure control valve, vacuum breaker or classic safety relief valve**

- flow-optimised valve system for maximum blow-off performance
- every millibar safety valve 100% tested
- makes the smallest pressure ranges manageable and reliably protects sensitive processes and systems
- unique: TÜV component mark as a safety valve in accordance with DIN EN 4126-1 (100-500 mbar)
- lowest leakage rates thanks to high-quality elastomer seals
- optional: FDA-approved elastomers and components
- individual TÜV certification of the set opening pressure
- dimensions: 36 x 19 mm
- 5 up to 500 mbar

This model is the successor to the AV 319.

Also available in stainless steel 1.4404.

### ULTRAVENT 6

### order no.

pressure settings:  
5 - 500 mbar

..... 231-\_\_  
(depending on  
pressure-setting)

### options:

strainer at outlet  
100 µm (1.4301)

.....966.172500

100 µm filter at gas inlet (1.4301)

connections:  
G 1/8 RH IG  
1/8" NPT IG

seals:  
NBR and CR. Other seals on request, with surcharge

## 🎯 The ULTRAVENT revolution

With ULTRAVENT, WITT offers a groundbreaking series of mechanical millibar valves for gases.

Designed for pressure ranges from 5 to 500 mbar, these precision-engineered devices deliver maximum control and reliability – whether for protecting systems, ensuring stable processes, or integrating into OEM equipment.

[MORE ABOUT MILLIBAR VALVES](#)



## ULTRAVENT 15

connections 1/2"

**for precise control of under or over pressure between 5 and 500 mbar: can be used as a back pressure regulator, pressure control valve, vacuum breaker or classic safety relief valve**

- flow-optimised valve system for maximum blow-off performance
- every millibar safety valve 100% tested
- makes the smallest pressure ranges manageable and reliably protects sensitive processes and systems
- unique: TÜV component mark as a safety valve in accordance with DIN EN 4126-1 (100-500 mbar)
- lowest leakage rates thanks to high-quality elastomer seals
- optional: FDA-approved elastomers and components
- individual TÜV certification of the set opening pressure
- dimensions: 65.5 x 34 mm
- 5 up to 500 mbar

Also available in stainless steel 1.4404.



ULTRAVENT 15  
without strainer

ULTRAVENT 15  
with strainer

ULTRAVENT 15	order no.
pressure settings: 5 - 500 mbar	230-__-__ (depending on pressure-setting)
<b>options:</b>	
strainer at outlet 100 µm (1.4301)	966.182900
100 µm filter at gas inlet (1.4301)	
connections: G 1/2 RH IG 1/2" NPT IG	
seals: NBR and CR. Other seals on request, with surcharge	

## ⊙ ULTRAVENT - the all-rounder in the millibar range

The ULTRAVENT series from WITT offers maximum functionality, quality and adaptability for modern industrial processes.

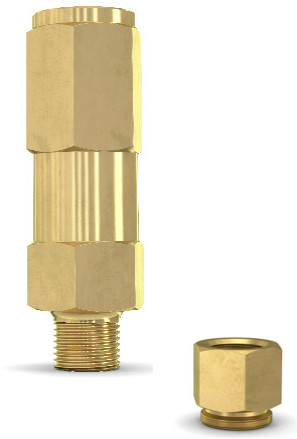
They can be used for a wide variety of functions, e.g. as:

- Safety valve: Protection against overpressure
- Pressure Control Valves: Consistent Process Conditions
- Vacuum Breakers: Effective Protection from Undepressure
- Back Pressure Regulators: Maintaining Pressure Flow
- Blow-off valve: Targeted Component Protection
- Pressure relief valve: Protection of Components and Process Safety
- Breather Valves: Inlet and Outlet Venting for System Stability
- Bursting Disc Alternative: Reusable and Accurate

[Read more on our ULTRAVENT website](#)



## SV 805



Option: adapter for ventilation pipe

### different connections

#### Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- with or without venting adapter
- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU
- certified to PED 2014/68/EC Module H
- individual TÜV certification for the set opening pressure
- dimensions: 90-148 mm, 260/660 g
- up to 45 bar
- also available as „smart-option“ to enable real-time signaling of status

Also available in stainless steel

SV 805	order no.
pressure settings:	
> 0.5 ≤ 45 bar	..... 200-__-__
various connections (depending on pressure-setting)	
special sealing compound, surcharge	
connections:	
M 24x1 AG → 1/2" NPT IG	..... 801413600K
M 24x1 AG → G 1/2 AGS	..... 802069800K
M 24x1 AG → 3/4" NPT IG	..... 802124900K

## SV 805A



with venting tool

### different connections

#### Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- with venting tool for manual ventilation
- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU
- certified to PED 2014/68/EC Module H
- individual TÜV certification for the set opening pressure
- dimensions: 90-148 mm, 260/660 g
- up to 45 bar

Also available in stainless steel

pressure settings	order no.
with venting tool, outlet: 1/2 NPT IG	
> 0.5 ≤ 45 bar	..... 200A-__-__
various connections (depending on pressure-setting)	
special sealing compound, surcharge	

## SV 805 SMART



### different connections

#### Smart Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- optical signal (red/green diode) directly on the valve, indicates the open or closed condition
- digital signal through an NPN / PNP open collector signal
- every safety relief valve 100% tested
- CE-marked according to PED 2014/68/EU
- individual TÜV certification for the set opening pressure
- dimensions: 90/95 mm
- up to 45 bar

Also available in stainless steel

#### SV 805 SMART

#### order no.

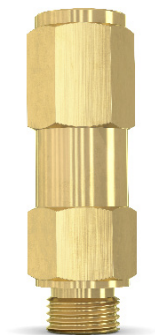
pressure settings:

> 0.5 ≤ 45 bar ..... 200SMART-\_\_--  
various connections (depending on pressure-setting)

signal cable with angled plug (2 m) .....850022900

special sealing compound, surcharge

## AV 815



### connections 1/2"

#### Safety Relief Valve for venting of acetylene-application only in conjunction with manifold pressure regulators

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- 7 different opening pressures and nominal flows available
- protective dust cap
- adapter for connection to ventilation pipe
- dimensions: 91 mm, 260 g

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

connections:

G 1/2 AG → M24 x 1 IG

## AV 619



### connections 1/2" up to 1"

#### Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV certification for the set opening pressure
- dimensions: 70.5 - 83.5 mm
- 5 up to 500 mbar

Also available in stainless steel

#### pressure settings

5 - 500 mbar

#### order no.

300-\_\_-\_\_  
(depending on  
pressure-setting)

#### connections:

G3/4, G1 RH IG, NPT 3/4, 1 IG  
flange DN 25 according to DIN 28403

#### option:

individual TÜV certification for the set opening pressure

## AV 919



### connections 2", DN 40

#### Safety Relief Valve, aluminium, for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV certification for the set opening pressure
- set to exactly the opening pressure you specify (in factory)
- dimensions: 89.5 X 144-170 mm, 1,500 g
- 5 up to 500 mbar

Also available in stainless steel

#### pressure settings

5 - 500 mbar

#### order no.

400-\_\_-\_\_  
(depending on  
pressure-setting)

#### connections:

G 2 RH IG, 2" NPT IG  
flange DN 40 according to DIN 28403

#### option:

individual TÜV certification for the set opening pressure

# STAINLESS STEEL DEVICES: FLASHBACK ARRESTORS

## series RF53N-ES

connections 1/4", 3/8", 7/8"

### Universal-Flashback arrestors certified to DIN EN ISO 5175-1

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (except bei F53N-ES)
- every arrester 100% tested
- 25.5 X 82 mm, 191 g
- F53N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 225 m<sup>3</sup>/h
- RF53N-ES: air max. 180 m<sup>3</sup>/h
- RF53N/H-ES: air max. 46 m<sup>3</sup>/h



connection	inlet → outlet	order no.
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#### F53N-ES

for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:  
 1/4" NPT ..... IG → IG ..... 145-227

#### F53N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):  
 1/4" NPT .....IG → IG .....145-106

#### RF53N-ES

for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:  
 1/4" NPT ..... IG → IG ..... 145-262  
 3/8" NPT ..... IG → IG ..... 145-024  
 3/8 LH ..... MG → AGS ..... 145-246  
 7/8" -14 UNF VCR . AG → AG ..... 145-142

#### RF53N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):  
 1/4" NPT ..... IG → IG ..... 145-107  
 3/8" NPT ..... IG → IG ..... 145-121  
 3/8 LH ..... MG → AGS ..... 145-232

# STAINLESS STEEL DEVICES: FLASHBACK ARRESTORS

## series RF85-10N-ES

connections 1/4", 3/8", 9/16", 7/8"

**Stainless steel flashback arrestor, certified to DIN EN ISO 5175-1, for higher flows**



- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (except bei F85-10N-ES), filter on the gas inlet
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 34 X 97 mm, 385 g
- F85-10N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 390 m<sup>3</sup>/h
- RF85-10N-ES: air max. 315 m<sup>3</sup>/h
- RF85-10N/H-ES: air max. 82 m<sup>3</sup>/h

connection	inlet → outlet	order no.
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### F85-10N-ES

for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:  
1/4" NPT ..... IG → IG..... 143-149

### F85-10N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):  
1/4" NPT ..... IG → IG..... 143-100

### RF85-10N-ES

for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:  
1/4" NPT ..... IG → IG..... 143-061  
3/8" NPT ..... IG → IG..... 143-119  
9/16" - 18 UNF VCR . AG → AG ..... 143-163  
7/8" - 14 UNF VCR ... AG → AG ..... 143-134  
3/8 LH ..... MG → AGS ..... 143-054

### RF85-10N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):  
1/4" NPT ..... IG → IG..... 143-077  
3/8" NPT ..... IG → IG..... 143-087  
7/8" - 14 UNF VCR ... AG → AG ..... 143-076  
3/8 LH ..... MG → AGS ..... 143-078

## series RF85-20N-ES

connections 1/2", 3/4", 1"

**Stainless steel flashback arrestor, certified to DIN EN ISO 5175-1, for higher flows**



- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 62 X 131/137 mm, 1,400-1,500 g
- air max. 360 m<sup>3</sup>/h

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

# STAINLESS STEEL DEVICES: FLASHBACK ARRESTORS

## series 85-30-ES



connections 3/4", 1", 1.1/2"

**Universal-Flashback arrestors certified to DIN EN ISO 5175-1 for maximum flows**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrester 100% tested
- also ideal for use with corrosive gases
- 84 X 162/188 mm, 4,455 g
- 85-30-ES: air max. 1,150 m<sup>3</sup>/h
- RF85-30N/H-ES: air max. 310 m<sup>3</sup>/h

connection	inlet → outlet	order no.
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### 85-30-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

for acetylene (sealing TV in EPDM):

3/4" NPT	IG → IG	147-122
1" NPT	IG → IG	147-125
G 1.1/2 RH	IG → IG	147-124

### RF85-30N/H-ES

for fuel gases (e.g. hydrogen up to 11 bar):

1" NPT	IG → IG	147-047
3/4" NPT	IG → IG	147-039

## Safety group 645 /85-30



connections DN 50 (2- or 4-fold)

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

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrester 100% tested
- also ideal for use with corrosive gases
- 285 X 430 mm, 44 kg (2-fold), 53 kg (4-fold)
- acetylene max. 392 m<sup>3</sup>/h (free flow-off)
- fuel gases max. 2,740 m<sup>3</sup>/h (free flow-off)
- oxygen max. 1,850 m<sup>3</sup>/h (free flow-off)

connection	inlet → outlet	order no.
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for acetylene:

DN 50 (4-fold)	flange DIN 2633	182-xxx
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for fuel gases and oxygen (except acetylene):

DN 50 (2-fold)	flange DIN 2633	182-045
DN 50 (4-fold)	flange DIN 2633	182-042

## F100N-ES



connections 1/2", 7/8"

**Flashback arrestors certified to DIN EN ISO 5175-1, for hydrogen up to 17 bar**

- safety elements: flame arrester [FA], temperature-sensitive cut-off valve [TV]
- every arrester 100% tested
- for highest working pressures, e.g. with flame spraying
- 48 X 103 mm, 1,236 g
- air max. 32 m<sup>3</sup>/h

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

## 🎯 Safe and efficient - WITT products for hydrogen applications

„Green hydrogen“ will play an increasing role in the future, and with WITT you are H2-READY. Hydrogen (H<sub>2</sub>) is already widely used as a raw material or process gas in many industries, in a wide variety of applications.

However, hydrogen is highly flammable, reactive and explosive when mixed with oxygen. The requirements for the necessary equipment and gas safety technology are correspondingly high.

WITT specialises in hydrogen applications and offers you the right gas technology at the highest quality level.

In this [video](#) Andrew Smart shows you which products WITT offers to support your hydrogen application to the maximum.

## F53deto



connections 1/4"

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

Suitable as a detonation flame arrester ideal for mounting in small pipelines and to protect appliances, for example gas analysers.

- safety elements: flame arrester [FA]
- every device 100% tested
- PTB certified
- DIN EN ISO 16852
- 25 X 68 mm, 207 g
- inlet and outlet screw connection, housing: stainless steel 1.4305 / AISI 303
- flame arrester: stainless steel 1.4404 / AISI 316L

connection	inlet → outlet	order no.
detonation and deflagration flame arrester F53deto: G 1/4" (o-ring NBR).....	IG → IG	.....145-258
detonation and deflagration flame arrester F53deto: G 1/4" - M12 (o-ring NBR)....	IG → AG	.....145-250

## F53Ndeto



connections 1/4" - with cut-off valve

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

Suitable as a detonation flame arrester ideal for mounting in small pipelines and to protect appliances, for example gas analysers.

- safety elements: flame arrester [FA], temperature sensitive cut-off valve [TV]
- every device 100% tested
- PTB certified
- DIN EN ISO 16852 / II G IIC
- designed for short burning with a burning time tBT=4 min
- 25 X 68 mm, 207 g
- inlet and outlet screw connection, housing: stainless steel 1.4305 / AISI 303
- flame arrester: stainless steel 1.4404 / AISI 316L

connection	inlet → outlet	order no.
detonation and deflagration flame arrester F53Ndeto: G 1/4" (o-ring FKM).....	IG → IG	.....145-337
detonation and deflagration flame arrester F53Ndeto: G 1/4" (o-ring FFKM).....	IG → IG	.....145-336

## ULTRA 10



### connections 1/2"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-1 / DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 35 X 60 mm, 221 g
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- up to 16 bar

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

**design stainless steel 1.4305 (standard):**  
filter: yes seal o-ring: NBR seal valve: CR

## ULTRA 12



### connections 1/2"

**Based on ULTRA 11 - your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and sealing (NBR/CR, FPM/FFKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, lightweight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 11 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 35 X 60 mm, 221 g
- minimal noise emissions
- up to 16 bar

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	034-013

**design stainless steel 1.4305 (modular system):**  
filter: yes seal o-ring: FFKM seal valve: FFKM

other models see [page 65](#)

# STAINLESS STEEL DEVICES: NON-RETURN VALVES

## ULTRA 20



connections 1/2", 3/4", 1"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-1 / DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 52 X 67.5 mm, 510 g
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used e.g. thermal processing, biogas etc.
- up to 16 bar

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

**design stainless steel 1.4305 (standard):**  
filter: yes seal o-ring: NBR seal valve: CR

## ULTRA 22



connections 1/2"

**Based on ULTRA 20 - your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and sealing (NBR/CR, FPM/FFKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 20 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- compact and light: 52 X 67.5 mm, 510 g
- minimal noise emissions
- up to 16 bar

connection	inlet → outlet	order no.
G 1/2 RH	IG → IG	036-007

**design stainless steel 1.4305 (modular system):**  
filter: no seal o-ring: EPDM seal valve: EPDM

other models see [page 67](#)

# STAINLESS STEEL DEVICES: NON-RETURN VALVES

## ULTRA 30



### connections 1.1/2"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-1 / DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 5 mbar), ultra-low pressure drop
- compact and light: 73.5 X 111 mm, 1.8 kg
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used
- up to 20 bar

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

**design stainless steel 1.4305 (standard):**  
 filter: yes seal o-ring: NBR seal valve: CR

## ULTRA 32



### connections 1.1/2"

**Based on ULTRA 30 - your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and sealing (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 31 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 5 mbar), ultra-low pressure drop
- compact and light: 73.5 X 110 mm, 1.8 kg
- minimal noise emissions
- up to 20 bar

connection	inlet → outlet	order no.
------------	----------------	-----------

G 1.1/2 RH	IG → IG	033-010
------------	---------	---------

**design stainless steel 1.4305 (modular system):**  
 filter: yes seal o-ring: NBR seal valve: CR

other models see [page 68](#)

# STAINLESS STEEL DEVICES: NON-RETURN VALVES

## ULTRA 35



connections 1.1/2" and 2"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications, for use in thermal processing plants, certified to EN 746-2**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 3 mbar), ultra-low pressure drop
- 90 X 145 mm, 2.789 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 8,100 m<sup>3</sup>/h

connection	inlet → outlet	order no.
------------	----------------	-----------

G 1.1/2 RH	IG → IG	400038-014
G 2 RH	IG → IG	400038-022

**design stainless steel 1.4305 (standard):**  
filter: yes seal o-ring: NBR seal valve: CR

## ULTRA 37



connections 1.1/2"

**Based on ULTRA 35 - your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and sealing (NBR/CR, FPM/FFKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 35 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (3 mbar), ultra-low pressure drop
- compact and light: 90 X 145 mm, 2.789 g
- minimal noise emissions
- up to 16 bar

connection	inlet → outlet	order no.
------------	----------------	-----------

G 1. 1/2 RH	IG → IG	038-XXX
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**design stainless steel 1.4305 (modular system):**  
filter: no seal o-ring: EPDM seal valve: EPDM

other models see [page 67](#)

# STAINLESS STEEL DEVICES: NON-RETURN VALVES

## ULTRA 40



### connections 2.1/2"

**Ultra performance protection against gas return: compact, quiet, ideal for low pressure applications**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- according to DIN EN ISO 5175-1 / DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 5 mbar), ultra-low pressure drop
- compact and light: 114 X 146 mm, 7.1 kg
- minimal noise emissions
- dirt filter (100 µm) on gas inlet
- ideal for applications where low pressures are used
- up to 20 bar

connection	inlet → outlet	order no.
------------	----------------	-----------

G 2.1/2 RH	IG → IG	035-006
2.1/2" NPT	IG → IG	035-005

**design stainless steel 1.4305 (standard):**  
 filter: yes seal o-ring: NBR seal valve: CR

## ULTRA 42



### connections 2.1/2"

**Based on ULTRA 40 - your customised design: multiple combinations of housing and seal materials, with or without filter**

- free combination of material for housing (brass, stainless steel, aluminum) and sealing (NBR/CR, FPM/FKM, EPDM/FFKM), with or without filter
- for special requirements e.g. corrosive environments, acetylene, light-weight construction, temperatures above 70 °C/ 158 °F

based on ULTRA 41 including:

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 5 mbar), ultra-low pressure drop
- compact and light: 114 X 146 mm, 7.1 kg
- minimal noise emissions
- up to 20 bar

connection	inlet → outlet	order no.
------------	----------------	-----------

G 2.1/2 RH	IG → IG	035-007
------------	---------	---------

**design stainless steel 1.4305 (modular system):**  
 filter: yes seal o-ring: FPM seal valve: FKM

other models see [page 70](#)

# STAINLESS STEEL DEVICES: NON-RETURN VALVES

## 654-ES



### connections 1/8"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- small and light: 14 X 42 mm, 39 g
- up to 60 bar working pressure (O<sub>2</sub>: up to 30 bar)
- air max. 130 m<sup>3</sup>/h

connection	inlet → outlet	order no.
G 1/8 RH	IG → AG	120403033

## NV 100



### connections 1/8" up to 3/8"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- compact and light: 25 X 71-78 mm, 39 g
- up to 25 bar working pressure
- air max. 130 m<sup>3</sup>/h

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

## NV 600H



### connections 1/2" up to 1"

#### Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2
- ultra-low opening pressures (approx. 250 mbar)
- 52 X 65 mm, 589-745 g
- up to 40 bar working pressure
- air max. 1,900 m<sup>3</sup>/h

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



## NV 300



connections 1" up to 1.1/4"

**Non-return valve for the prevention of unintended gas mixtures, up to 16 bar for use in thermal processing plants, certified to EN 746-2**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 3.5 mbar), ultra-low pressure drop
- 65 X 115 mm, 1,500 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 3,260 m<sup>3</sup>/h

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

## 800-ES



connections 1/4" NPT

**Non-return valve for the prevention of unintended gas mixtures**

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- also ideal for use with corrosive gases
- small and light: 17.5 X 70 mm, 730 g
- up to 300 bar

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

## 🕒 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.

Further information on [www.wittgas.com](http://www.wittgas.com) and in our „[Stainless steel](#)“ brochure.



## ULTRAVENT 6-ES

connections 1/8"

**for precise control of under or over pressure between 5 and 500 mbar: can be used as a back pressure regulator, pressure control valve, vacuum breaker or classic safety relief valve**

- flow-optimised valve system for maximum blow-off performance
- every millibar safety valve 100% tested
- makes the smallest pressure ranges manageable and reliably protects sensitive processes and systems
- unique: TÜV component mark as a safety valve in accordance with DIN EN 4126-1 (100-500 mbar)
- lowest leakage rates thanks to high-quality elastomer seals
- optional: FDA-approved elastomers and components
- individual TÜV certification of the set opening pressure
- dimensions: 36 x 19 mm
- 5 up to 500 mbar



ULTRAVENT 6  
without strainer

ULTRAVENT 6  
with strainer

This model is the successor to the AV 319-ES.

### ULTRAVENT 6

### order no.

pressure settings:

5 - 500 mbar ..... 231-\_\_-\_\_  
(depending on pressure-setting)

### options:

strainer at outlet

100 µm (1.4301) ..... 966.172600

100 µm filter at gas inlet (1.4301)

connections:

G 1/8 RH IG

1/8" NPT IG

seals:

NBR and CR. Other seals on request, with surcharge

## ULTRAVENT 15-ES

connections 1/2"

**for precise control of under or over pressure between 5 and 500 mbar: can be used as a back pressure regulator, pressure control valve, vacuum breaker or classic safety relief valve**



ULTRAVENT 15  
without strainer

ULTRAVENT 15  
with strainer

- flow-optimised valve system for maximum blow-off performance
- every millibar safety valve 100% tested
- makes the smallest pressure ranges manageable and reliably protects sensitive processes and systems
- unique: TÜV component mark as a safety valve in accordance with DIN EN 4126-1 (100-500 mbar)
- lowest leakage rates thanks to high-quality elastomer seals
- optional: FDA-approved elastomers and components
- individual TÜV certification of the set opening pressure
- dimensions: 65.5 x 34 mm
- 5 up to 500 mbar

### ULTRAVENT 15

### order no.

pressure settings:  
5 - 500 mbar

..... 230-\_\_  
(depending on  
pressure-setting)

### options:

strainer at outlet  
100 µm (1.4301)

.....966.183000

100 µm filter at gas inlet (1.4301)

connections:  
G 1/2 RH IG  
1/2" NPT IG

seals:  
NBR and CR. Other seals on request, with surcharge

## Unique: with TÜV certificate

With unique opening and closing behaviour in accordance with DIN EN ISO 4126-1 and TÜV component testing in the 100-500 mbar range, ULTRAVENT meets the highest safety requirements. Whether safety function, pressure relief or controlled venting: ULTRAVENT is the right valve for numerous tasks in gas technology.

More information at: [www.wittgas.com](http://www.wittgas.com)



## SV 805-ES



option: adapter for ventilation pipe

### different connections

#### Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- with or without venting adapter
- CE 0045
- certified to PED 2014/68/EC Module H
- individual TÜV certification for the set opening pressure
- dimensions: 90-148 mm, 260/660 g
- up to 45 bar
- also available as „smart-option“ to enable real-time signaling of status

#### SV 805-ES

#### order no.

pressure settings:

> 0.5 ≤ 45 bar ..... 200-\_\_ \_

with standard connection, stainless steel 1.4541  
 with standard connection, stainless steel 316L/1.4404  
 with VCR connection, stainless steel 1.4541  
 with VCR connection, stainless steel 316L/1.4404

special sealing compound, surcharge

#### Adapter to connect venting pipes to SV805-ES

connections M 24x1 AG → 1/2" NPT IG,  
 stainless steel 1.4541 ..... 801727800K  
 connections M 24x1 AG → 1/2" NPT IG,  
 stainless steel 1.4404 ..... 802753700K  
 connections M 24x1 AG → 1/2" VCR AG,  
 stainless steel 1.4404 ..... 801693000K

## SV 805A-ES



with ventilation tool

### different connections

#### Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- with venting tool
- CE 0045
- certified to PED 2014/68/EC Module H
- individual TÜV certification for the set opening pressure
- dimensions: 90-148 mm, 260/660 g
- up to 45 bar

#### SV 805A-ES

#### order no.

with venting tool, outlet: 1/2 NPT IG

pressure settings:

> 0.5 ≤ 45 bar ..... 200A-\_\_ \_

with standard connection, stainless steel 1.4541  
 with VCR connection, stainless steel 1.4541

special sealing compound, surcharge

## SV 805-ES SMART



### different connections

#### Smarte Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment

- spring- loaded, direct-acting safety relief valve
- optical signal (red/green diode) directly on the valve, indicates the open or closed condition
- digital signal through an NPN / PNP open collector signal
- every safety relief valve 100% tested
- CE-marked according to PED 2014/68/EU
- individual TÜV certification for the set opening pressure
- dimensions: 90/95 mm
- up to 45 bar

#### SV 805-ES SMART

#### order no.

pressure settings:  
> 0.5 ≤ 45 bar ..... 200SMART-\_\_ \_

with standard connection, stainless steel 316L/1.4404  
with VCR connection, stainless steel 316L/1.4404

signal cable with angled plug (2 m) ..... 850022900

special sealing compound, surcharge

**Adapter to connect venting pipes to SV805-ES**  
connections M 24x1 AG → 1/2" VCR AG,  
stainless steel 1.4404 ..... 801693000K

## 🕒 Do you already know our practical example on leakage monitoring with the SV 805-ES SMART?

Read the report from InVerTec e.V., which uses the SV 805 SMART safety valve from WITT for automatic leakage monitoring in its district heating networks.

Helium detection is used to detect leaks at an early stage, while the valve reliably regulates the pressure and provides real-time data for efficient accident prevention.

Read the full article:

[SMART safety relief valve for leak monitoring for district heating networks](#)

## SV 811L



### different connections

#### Pressure Relief Valve for hydrogen-powered motor vehicles in accordance with European regulations

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- set to exactly the opening pressure you specify (in factory) from 4.5 to 45.0 bar
- in stainless steel 1.4404
- adapter for the connection to ventilation pipe
- option: heavy design (model SV811) up to 1,600 bar (burst pressure of housing)
- dimensions: 91 mm, 260 g
- up to 45 bar

#### SV 811L

#### order no.

pressure settings:  
 > 4.5 ≤ 45 bar  
 div. connections

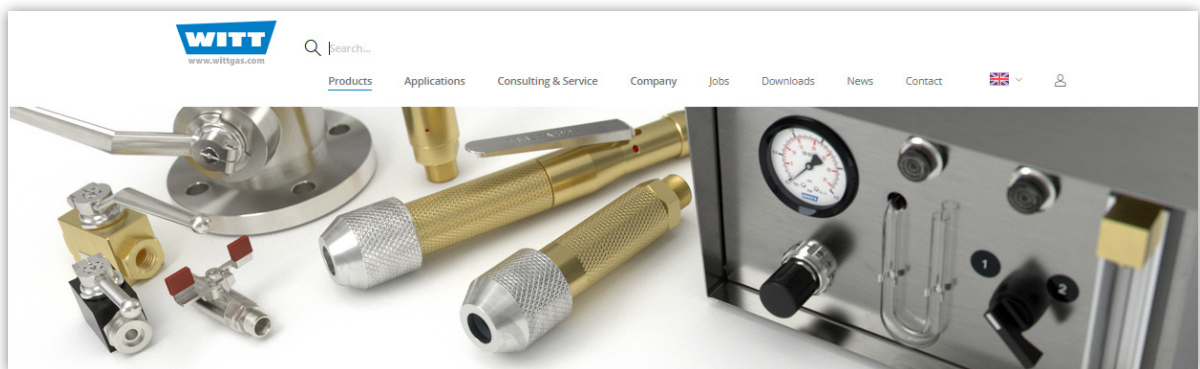
..... 200AU-L\_ \_ \_  
 (depending on  
 pressure-setting)

adapter for the connection to ventilation pipe at the outlet on demand

## 🌐 The whole world of WITT products and services can be found on our website

In addition to our numerous products, we offer you lots of information on applications, practical examples, advice & service, news, an extensive download area, etc.

Register [here](#) for our newsletter so that you don't miss anything.



# STAINLESS STEEL DEVICES: SAFETY RELIEF VALVES

## AV 619-ES



connections 1/2" up to 1"

**Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment**

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV certification for the set opening pressure
- also available with FDA-approved elastomers (USP class VI)
- also ideal for use with corrosive gases
- 52 X 70.5-83.5 mm, 790 g
- 5 up to 500 mbar

**pressure settings**

5 - 500 mbar

**order no.**

300-\_\_-\_\_  
(depending on pressure-setting)

stainless steel 1.4305:  
connections G3/4, G1 RH IG, NPT 3/4, 1 IG  
flange DN 25 according to DIN 28403

stainless steel 1.4404:  
connections G3/4, G1 RH IG, NPT 3/4, 1 IG

**option:**  
individual TÜV certification for the set opening pressure

## AV 919-ES



connections 2", DN 40

**Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment**

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV certification for the set opening pressure
- set to exactly the opening pressure you specify (in factory)
- dimensions: 89.5 X 144-170 mm, 1,500 g
- 5 up to 500 mbar

**pressure settings**

5 - 500 mbar

**order no.**

400-\_\_-\_\_  
(depending on pressure-setting)

stainless steel 1.4571:  
connections G 2 RH IG, 2" NPT IG  
flange DN 40 according to DIN 28403

**option:**  
individual TÜV certification for the set opening pressure

## Pressure Regulator MINI



### for precise control of low flow rates

- particularly compact and reliable
- highest safety level for oxygen applications according to EIGA, CGA and AIGA
- ideally suited for analysis technology, small burner systems, sampling, etc.
- for installation in pipelines and panel mounting
- lockable adjustment knob
- design in „relieving“ or „non-relieving“

model	outlet pressure	order no.
<b>MINI-3</b>		
relieving	0.5-3 bar .....	277-003G
non-relieving	0.5-3 bar .....	277-006G
<b>MINI-10</b>		
relieving	0.5-10 bar .....	277-002G
non-relieving	0.5-10 bar .....	277-005G
<b>MINI-16</b>		
relieving	0.5-16 bar .....	277-001G
non-relieving	0.5-16 bar .....	277-004G

## Pressure regulator

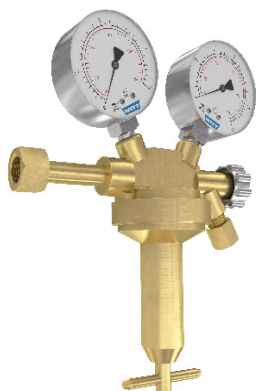


### for outlet points

- for a stable working pressure and a safe workplace
- displays pressure via manometer or flow via manometer or float
- 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
<b>flow display (manometer) argon, mixed gases and CO2</b>		
G 3/8 RH → G 1/4 RH	0 - 30 l/min .....	044524100
<b>flow display (float) argon, mixed gases and CO2</b>		
G 3/8 RH → G 1/4 RH	0 - 30 l/min .....	044524000

## Pressure Regulator

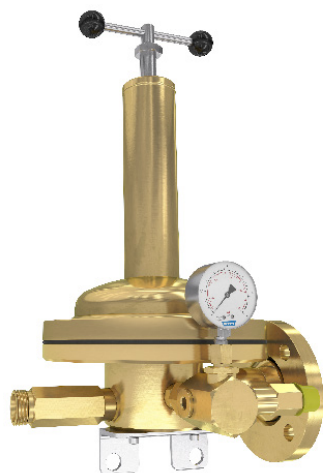


### for direct connection to the gas cylinder (200 bar), single-level

- for a stable working pressure and a safe workplace
- displays pressure via manometer or flow via manometer or float
- 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 CO2 0-10 bar .....	044525600
<b>flow display (manometer) argon, mixed gases and CO2</b>		
DIN 477 → G 1/4 RH	0 - 30 l/min.....	044525700
<b>flow display (float) argon, mixed gases and CO2</b>		
DIN 477 → G 1/4 RH	0 - 30 l/min.....	044525800

## ADR 150F



### manifold pressure regulator for acetylene up to 150 m<sup>3</sup>/h

#### Manifold pressure regulator for the regulation of high flows from cylinder batteries / bundles

- for a stable working pressure and a safe workplace
- setting of required pipeline pressure is adjusted by the spindle valve
- requires no additional pilot gas

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
special version up to 2 bar outlet pressure (on demand)			

# DOME PRESSURE REGULATORS - manifold acetylene

## ADR 75



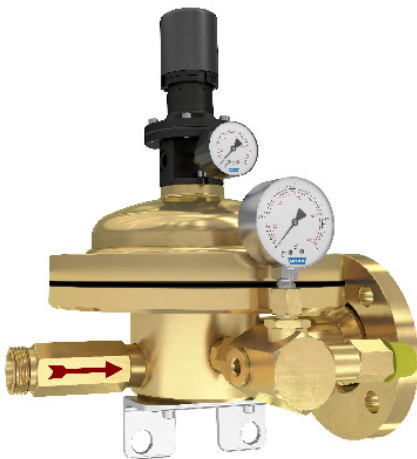
up to max. 75 m<sup>3</sup>/h

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

- extremely stable outlet pressure independent of inlet pressure and flow rate
- ideal control of medium flow rates at cylinder batteries or bundle systems
- due to ultra-low pressure loss, the dynamic pressure of the ADR 75 is as close as possible to 1.5 bar
- for optimum emptying of bundle and trailer systems
- BAM type-approval testing according to DIN EN ISO 7291:2021-03 No. 9.4.6
- complies with the requirements of German TRGS 407 Annex 4 Acetylene

connections	inlet pressure	outlet pressure	order no.
G 3/4 IG → G 1 IG	25 bar .....	1.5 bar .....	210-018
special version up to 2 bar outlet pressure (on demand)			

## ADR 150



up to max. 150 m<sup>3</sup>/h

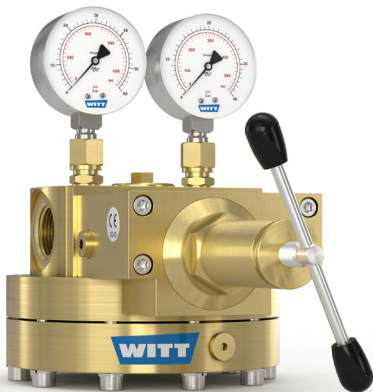
**Powerful dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles**

- for a stable working pressure and a safe workplace
- for optimum emptying of bundles
- extremely stable outlet pressure
- integrated blow-off valve

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 version up to 2 bar outlet pressure (on demand)			

## series 737LE

connections 3/4" / Kv value 2.4



**High-performance dome-loaded pressure regulators. For high and varying flows requiring maximum pressure stability. A complete solution, applicable as a manifold pressure regulator per DIN EN ISO 7291.**

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-10(30) bar
- suitable for various technical gases
- ready-to-use
- different mounting parts available (maintenance kit see [page 108](#))
- option: lockable spindle hood against unauthorized adjustment

connections	max. inlet pressure*	outlet pressure	order no.
-------------	----------------------	-----------------	-----------

**model 737 LE (brass), without pilot pressure regulator**

G 3/4" IG	40 bar	0.5-30 bar	278-168
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**model 737 LE/S (brass), set**

G 3/4" IG	40 bar	0.5-10 bar	292-0170
G 3/4" IG	40 bar	0.5-30 bar	292-0171
3/4" NPT IG	40 bar	0.5-10 bar	292-0176
3/4" NPT IG	40 bar	0.5-30 bar	292-0177

**model 737 LE (stainless steel), without pilot pressure regulator**

G 3/4" IG	60 bar	0.5-10 bar	278-108
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**model 737 LE/S (stainless steel), set**

G 3/4" IG	60 bar	0.5-10 bar	292-0046
3/4" NPT IG	60 bar	0.5-10 bar	292-0096

replacement filter stainless steel 100 µm ..... 956.504300

use for EX zone (ATEX), surcharge

plus surcharge declaration of conformity ATEX (s. p. 137)

\*depending on gas type

## ⦿ With proportional valve for external control

Our dome pressure regulators in the 737, 747, 757 and 767 series are also available with a digitally actuated pressure regulator valve instead of a mechanical pilot pressure regulator.

This makes them ideal for external control and very economical compared to a fully electronic control system.

More information at [www.wittgas.com](http://www.wittgas.com)

## series 737LE-HD

connections 3/4", 1" / Kv value 1.65 - high pressure model



**High-performance dome-loaded pressure regulators for installation in pipelines or as manifold pressure regulator per DIN EN ISO 7291. For high and varying flows requiring maximum pressure stability.**

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-60 bar
- suitable for high pressures at inlet, up to 300 barg
- burn-out safety for O<sub>2</sub> up to 200 bar (BAM report AZ 17055507)
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- ready-to-use
- inlet: G 3/4", outlet: G 1" IG
- option: lockable spindle hood against unauthorized adjustment
- different mounting parts available (maintenance kit see [page 106](#))
- easy to install and to integrate directly into the process
- 1: 1 interchangeable with the previous version (please specify if desired)



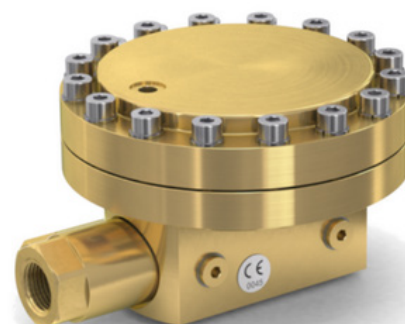
connections	max. inlet pressure*	outlet pressure	order no.
<b>model 737 LE-HD (brass), without pilot pressure regulator</b>			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-116
<b>model 737 LE-HD/S (brass), set</b>			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	292-0004
3/4" NPT IG - 1" NPT IG	300 bar	0.5-60 bar	292-0069
<b>model 737 LE-HD/S (brass), set - especially for CO<sub>2</sub></b>			
G 3/4" IG - 1" IG	100 bar	0.5-26 bar	292-0058
<b>model 737 LE-HD-ES (stainless steel), without pilot pressure regulator</b>			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-117
<b>model 737 LE-HD/S-ES (stainless steel), set (for O<sub>2</sub> up to P<sub>v</sub> max. 30 bar)</b>			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	292-0056
3/4" NPT IG - 1" NPT IG	300 bar	0.5-60 bar	292-0114
replacement filter bronze 100 µm	.....	953.000300	
use for EX zone (ATEX), surcharge			
plus surcharge declaration of conformity ATEX (s. p. 137)			

\*depending on gas type

## 🕒 Your choice: as complete set or without pilot pressure regulator

WITT dome pressure regulators are available in different versions to meet a wide range of requirements. On our website and in the data sheets you will find a range of information on the variants we have on offer.

If you have any further questions, please do not hesitate to contact us.



## series 747LE

connections 1" / Kv value 3.6



overview mounting parts:

**High-performance dome-loaded pressure regulators for installation in pipelines or as manifold pressure regulator per DIN EN ISO 7291. For high and varying flows requiring maximum pressure stability.**

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see [page 108](#))
- also as a SMART model for connected manufacturing

connections	max. inlet pressure*	outlet pressure	order no.
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**model 747 LE (brass), without pilot pressure regulator**

G 1" IG	40 bar	0.5-30 bar	278-088
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**model 747 LE/S (brass), set**

G 1" IG	40 bar	0.5-10 bar	292-0002
G 1" IG	40 bar	0.5-30 bar	292-0009
1" NPT IG	40 bar	0.5-10 bar	292-0102
1" NPT IG	40 bar	0.5-30 bar	292-0031

**mounting parts (brass):**

O-ring	7901-026
gas filter	956.953200
flange connection DIN DN32/PN40 (O-ring seal)	952.218700
flange DIN DN32/PN40	801.597603
O-ring for flange DN32	7901-132
O-ring for flange G1"	7901-072
gasket for flange	950.026200
double nipple G1" - G 1.1/4"	952.223900
reducing nipple G1" - 1" NPT	953.179500
double nipple G1" - G1"	952.015900
welding nipple AD42 G 1.1/4"0.015614	
fitting G1" - G1" 0.313135	
fitting G1" - 1" NPT0.013283	

**model 747 LE-ES (stainless steel), without pilot pressure regulator**

G 1" IG	40 bar	0.5-30 bar	278-099
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**model 747 LE/S-ES (stainless steel), set**

G 1" IG	40 bar	0.5-10 bar	292-0027
G 1" IG	40 bar	0.5-30 bar	292-0028
1" NPT IG	40 bar	0.5-10 bar	292-0068
1" NPT IG	40 bar	0.5-30 bar	292-0109

stainless steel mounting parts on demand

use for EX zone (ATEX), surcharge

plus surcharge declaration of conformity ATEX (s. p. 137)

\*depending on gas type

## 747LE/S SMART



connections 1" / Kv value 3.6

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

- signaling of inlet, outlet and pilot pressure
- signaling of inlet and outlet temperature
- indication of the instantaneous gas flow rate
- digital display (optional)
- enables real-time transmission of operating conditions via tank telemetry or distributed control system
- all models of the 747LE/S dome regulator available as Smart models

The following surcharges are added to the price of the desired model:

### Smart model variations

#### „Standard“

Display, indication of inlet pressure and temperature as well as outlet pressure and temperature

#### „Standard + P3“

„Standard“ features, plus indication of pilot pressure

#### „Standard + Flow“

„Standard“ features, plus indication of flow rate

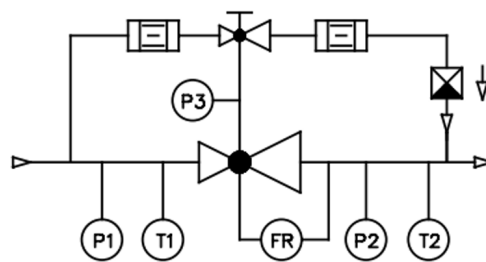
#### „Standard + P3 + Flow“

„Standard“ features, plus indication of pilot pressure and flow rate

signal cable (5 m) order no. 803.172800  
(3 cables are required to operate the device)

for mounting parts, options and maintenance kit see model 747LE/S Brass

overview mounting parts:



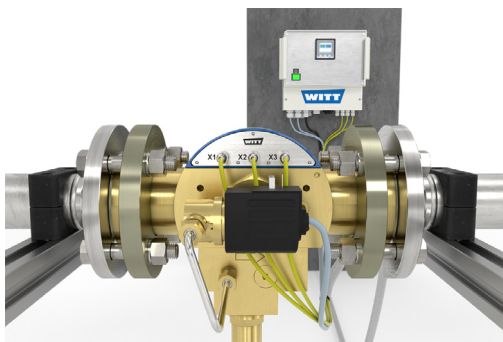
P1 - inlet pressure  
T1 - inlet temperature  
P2 - outlet pressure  
T2 - outlet temperature  
P3 - pilot pressure  
FR - flow rate

**COLDSTOP SMART detects critically low gas temperatures and automatically stops the gas flow. Systems and pipelines are protected against brittle fractures, downtime and damage are avoided, and operational safety is increased.**

**Dome pressure regulator 747 LE/S SMART incl. „Standard + Flow“ functions, plus control unit and solenoid valves**

**747 LE/S COLDSTOP SMART Brass**

**747 LE/S COLDSTOP SMART Stainless Steel**



## series 757LE

connections 2", flange DN50 / Kv value 15



overview mounting parts:

**High-performance dome-loaded pressure regulators for installation in pipelines or as manifold pressure regulator per DIN EN ISO 7291. For high and varying flows requiring maximum pressure stability.**

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see [page 108](#))
- also as a SMART model for connected manufacturing

connections	max. inlet pressure*	outlet pressure	order no.
-------------	----------------------	-----------------	-----------

**model 757 LE (brass), without pilot pressure regulator**

G 2" IG	40 bar	0.5-30 bar	278-089
---------	--------	------------	---------

**model 757 LE/S (brass), set**

flange DIN DN 50	40 bar	0.5-10 bar	292-0017
flange DIN DN 50	40 bar	0.5-30 bar	292-0018
G 2" IG	40 bar	0.5-10 bar	292-0003
G 2" IG	40 bar	0.5-30 bar	292-0010
2" NPT IG	40 bar	0.5-10 bar	292-0022
2" NPT IG	40 bar	0.5-30 bar	292-0021

**mounting parts (brass):**

O-ring for flange G2"	7901-135
reducing nipple G2" - 2" NPT	952.217000
flange connection DIN DN50/PN40 (O-ring seal)	952.211000
flange DIN DN50/PN40	950.019400
O-ring for flange DN50	7901-130
gasket for flange	950.010300
flange gas filter DIN DN50/PN40	956.923800

**model 757 LE-ES (stainless steel), without pilot pressure regulator**

G 2" IG	40 bar	0.5-30 bar	278-097
---------	--------	------------	---------

**model 757 LE/S-ES (stainless steel), set**

flange DIN DN 50	40 bar	0.5-10 bar	292-0037
flange DIN DN 50	40 bar	0.5-30 bar	292-_____
G 2" IG	40 bar	0.5-10 bar	292-0019
G 2" IG	40 bar	0.5-30 bar	292-0122
2" NPT IG	40 bar	0.5-10 bar	292-0061
2" NPT IG	40 bar	0.5-30 bar	292-0026

stainless steel mounting parts on demand

use for EX zone (ATEX), surcharge

plus surcharge declaration of conformity ATEX (s. p. 137)

\*depending on gas type

## 757LE/S SMART



overview mounting parts:

connections 2", flange DN50 / Kv value 15

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

- signaling of inlet, outlet and pilot pressure
- signaling of inlet and outlet temperature
- indication of the instantaneous gas flow rate
- digital display (optional)
- enables real-time transmission of operating conditions via tank telemetry or distributed control system
- all models of the 757LE/S dome regulator available as Smart models

The following surcharges are added to the price of the desired model:

### Smart model variations

#### „Standard“

Display, indication of inlet pressure and temperature as well as outlet pressure and temperature

#### „Standard + P3“

„Standard“ features, plus indication of pilot pressure

#### „Standard + Flow“

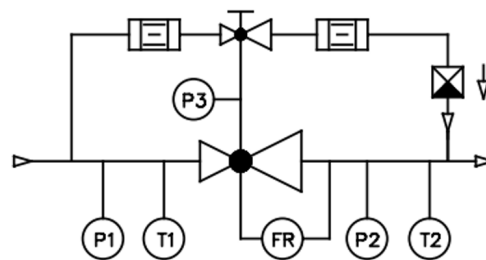
„Standard“ features, plus indication of flow rate

#### „Standard + P3 + Flow“

„Standard“ features, plus indication of pilot pressure and flow rate

signal cable (5 m) order no. 803.172800  
(3 cables are required to operate the device)

for mounting parts, options and maintenance kit see model 757LE/S Brass



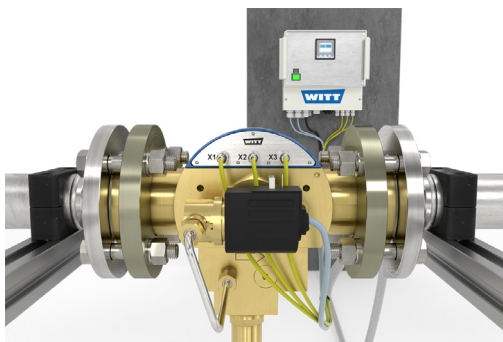
P1 - inlet pressure  
T1 - inlet temperature  
P2 - outlet pressure  
T2 - outlet temperature  
P3 - pilot pressure  
FR - flow rate

**COLDSTOP SMART detects critically low gas temperatures and automatically stops the gas flow. Systems and pipelines are protected against brittle fractures, downtime and damage are avoided, and operational safety is increased.**

**Dome pressure regulator 757 LE/S SMART incl. „Standard + Flow“ functions, plus control unit and solenoid valves**

**757 LE/S COLDSTOP SMART Brass**

**757 LE/S COLDSTOP SMART Stainless Steel**

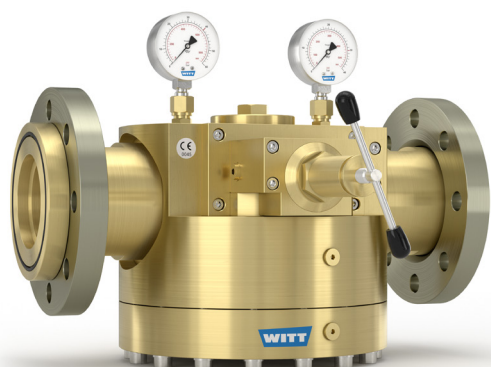


## series 767LE

connections 3", flange DN80/100 / Kv value 30

**High-performance dome-loaded pressure regulators for installation in pipelines or as manifold pressure regulator per DIN EN ISO 7291. For high and varying flows requiring maximum pressure stability.**

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see [page 108](#))
- also as a SMART model for connected manufacturing



overview mounting parts:

connections	max. inlet pressure*	outlet pressure	order no.
<b>model 767 LE (brass), without pilot pressure regulator</b>			
G 3" IG	40 bar	0.5-30 bar	278-090
<b>model 767 LE/S (brass), set</b>			
flange DIN DN 80	40 bar	0.5-10 bar	292-0008
flange DIN DN 80	40 bar	0.5-30 bar	292-0005
flange DIN DN 100	40 bar	0.5-10 bar	292-0013
flange DIN DN 100	40 bar	0.5-30 bar	292-0066
G 3" IG	40 bar	0.5-10 bar	292-0011
G 3" IG	40 bar	0.5-30 bar	292-0012
3" NPT IG	40 bar	0.5-10 bar	292-0108
3" NPT IG	40 bar	0.5-30 bar	292-0302

### mounting parts:

o-ring for flange G3"	7901-098
reducing nipple G3" - 3"NPT	952.222700
flange connection DIN DN80/PN40 (O-ring seal)	953.206800
flange DIN DN80/PN40	801.598003
o-ring for flange DN100	7901-479
flange connection DIN DN100/PN40 (O-ring seal)	953.218400
flange DIN DN100/PN40	802.560503
o-ring for flange DN80	7901-136
gasket for flange DN80	950.032900

### model 767 LE-ES (stainless steel), without pilot pressure regulator

G 3" IG	40 bar	0.5-30 bar	278-___
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### model 767 LE/S-ES (stainless steel), set

flange DIN DN 80	40 bar	0.5-10 bar	292-___
flange DIN DN 80	40 bar	0.5-30 bar	292-___
flange DIN DN 100	40 bar	0.5-10 bar	292-___
flange DIN DN 100	40 bar	0.5-30 bar	292-___
G 3" IG	40 bar	0.5-10 bar	292-___
G 3" IG	40 bar	0.5-30 bar	292-___
3" NPT IG	40 bar	0.5-10 bar	292-___
3" NPT IG	40 bar	0.5-30 bar	292-___

use for EX zone (ATEX), surcharge .....

plus surcharge declaration of conformity ATEX (s. p. 137)

\*depending on gas type

## 767LE/S SMART

connections 3", flange DN80/100 / Kv value 30

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

- signaling of inlet, outlet and pilot pressure
- signaling of inlet and outlet temperature
- indication of the instantaneous gas flow rate
- digital display (optional)
- enables real-time transmission of operating conditions via tank telemetry or distributed control system
- all models of the 767LE/S dome regulator available as Smart models

The following surcharges are added to the price of the desired model:

### Smart model variations

#### „Standard“

Display, indication of inlet pressure and temperature as well as outlet pressure and temperature

#### „Standard + P3“

„Standard“ features, plus indication of pilot pressure

#### „Standard + Flow“

„Standard“ features, plus indication of flow rate

#### „Standard + P3 + Flow“

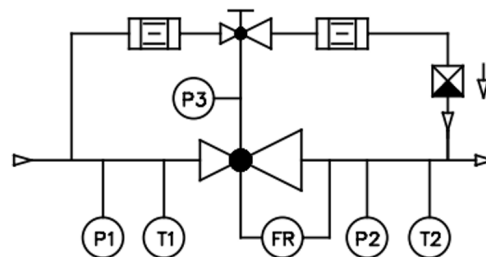
„Standard“ features, plus indication of pilot pressure and flow rate

signal cable (5 m) order no. 803.172800  
(3 cables are required to operate the device)

for mounting parts, options and maintenance kit see model 767LE/S Brass



overview mounting parts:



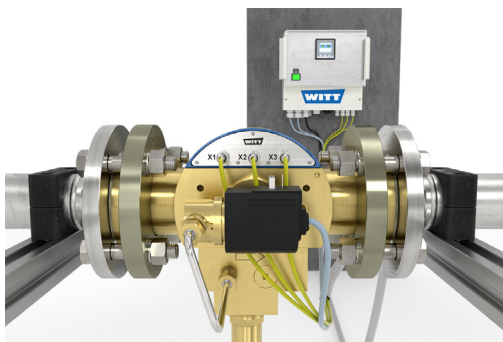
P1 - inlet pressure  
T1 - inlet temperature  
P2 - outlet pressure  
T2 - outlet temperature  
P3 - pilot pressure  
FR - flow rate

**COLDSTOP SMART detects critically low gas temperatures and automatically stops the gas flow. Systems and pipelines are protected against brittle fractures, downtime and damage are avoided, and operational safety is increased.**

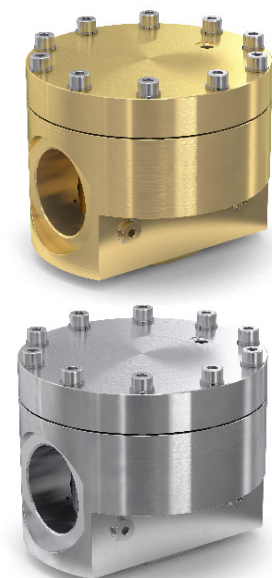
**Dome pressure regulator 767 LE/S SMART incl. „Standard + Flow“ functions, plus control unit and solenoid valves**

**767 LE/S COLDSTOP SMART Brass**

**767 LE/S COLDSTOP SMART Stainless Steel**



## Backpressure Regulator BPR 2



### connections 2"

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

- rapid and accurate monitoring of inlet pressure provides process reliability
- ideal e.g. for pressure regulation from gas cushions in tanks
- operating pressure 0,5 - 20 bar
- available in brass or stainless steel
- ATEX 2014/34/EU with ignition hazard analysis according to EN 1127-1, DIN EN 13463-1 and ZH1/200
- fulfills the requirements of EU Regulations (EC) 1935/2004, and (EC) 2023/2006
- fulfills the requirements of German Food and Feed (LFGB) Law, and is suitable for contact with food gases
- integrated connections for pilot gas and manometer

### connections adjustable upstream pressure order no.

#### model BPR 2 (brass)

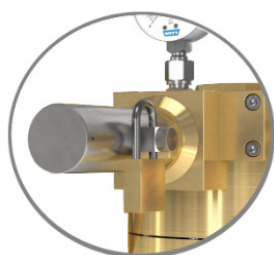
G 2" IG 0.5-20 bar 276-001

#### model BPR 2 -ES (stainless steel)

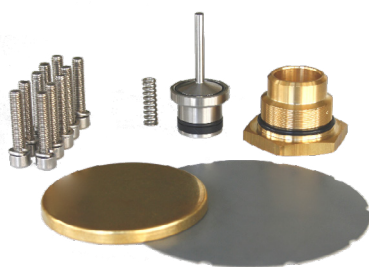
G 2" IG 0.5-20 bar 276-002

mounting parts see model 757LE (page 105)

## Accessories



lockable spindle cap



maintenance kit

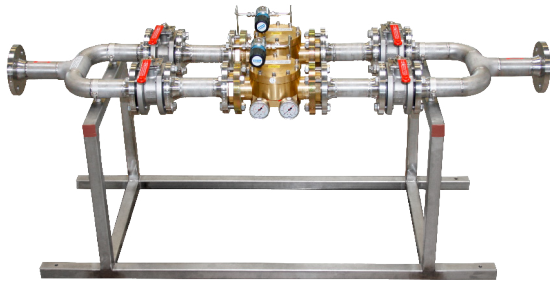
### for models 737LE, 747LE, 757LE, 767LE

- lockable spindle cap prevents unwanted tempering of the pilot pressure
- maintenance kits: pre-mounted, for maintenance and servicing
- stainless steel wall mounting panels - also suitable for the 757LE/S Smart dome pressure regulator

	material	order no.
<b>lockable spindle cap</b>	stainless steel	966061400
<b>maintenance kits:</b>		
for model 737 LE/S	brass	962.000085
for model 737LE-HD/S	brass	962.000084
for model 747 LE/S	brass	962.000067
for model 757 LE/S and 757LE/S Smart	brass	962.000065
for model 767 LE/S	brass	962.000061
for model 737 LE/S-ES	stainless steel*	962.000087
for model 737 LE-HD/S-ES	stainless steel*	962.000088
for model 747 LE/S-ES	stainless steel*	962.000073
for model 757 LE/S-ES	stainless steel*	962.000086
for model 767 LE/S-ES	stainless steel*	962.000116
	* (1.4404)	
<b>wall mounting panels:</b>		
for 737LE, 737LE-HD, 747LE and 757LE	stainless steel	956.248100
for 767LE	stainless steel	956.247700

## Plant engineering

## planning and installation



parallel construction with 757LE/S



757LE/S with flange filter

### Individual construction and mounting according to customer requirements

- planning and installation by a WITT specialist
- free of oil and grease
- suitable for oxygen
- tested and ready to use

### Individual parallel construction

Example I:  
4 ball valves stainless steel DN50/PN40  
2 dome pressure regulators 757LE/S  
manifold DN50, counter-flange, TÜV-testing, CE marking  
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 particle sieve  
delivery completely assembled and tested

More customisations possible, for example central filter, safety valve, other connection sizes, etc.

Suitable for oxygen, tested and ready for use, short lead time

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

Whenever the highest pressure stability is required, even with fluctuating inlet pressures and flowrates, WITT dome pressure regulators are the best choice.

Watch [our video](#) and learn why they show such a unique performance. Find out about highly diverse application and customization possibilities.

## Pressure regulating station



### 1-fold

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

- for bundles
- with pressure regulator and safety devices
- for a stable working pressure and a safe workplace
- for temporary high gas requirement on construction sites
- for fuel gases, oxygen and shielding gas
- robust design with shelter and handle
- with HD ball valve in the inlet

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

## Pressure regulating station



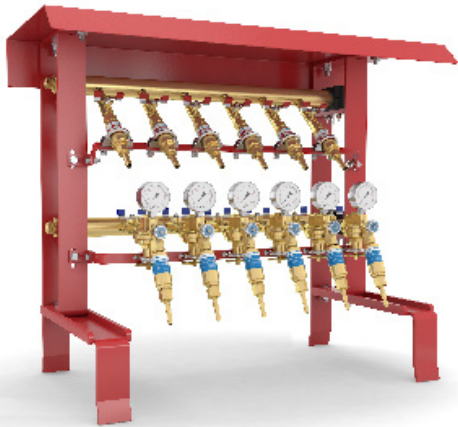
### 4- or 6-fold

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

- at temporary high gas requirement on construction sites
- for fuel gases, oxygen and shielding gas
- robust design with shelter and handle
- with HD ball valve in the inlet
- for bundles with 4-6 integrated outlet points
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

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

## Universal 704



### distribution station 4- or 6-fold

#### Portable outlet point unit with robust framework

- for a stable working pressure and a safe workplace
- with outlet point ball valves, outlet point pressure regulator, flashback arrestors
- for 4 or 6 outlet points and up to 5 types of gases
- option: stackable design
- for pipelines or connected to model 642
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

#### order no.

4-fold oxygen (40 bar/ 0-10 bar) und acetylene (1.5 bar)	183000030
6-fold oxygen (40 bar/ 0-10 bar) und acetylene (1.5 bar)	183000031

## Universal V6



### distribution station 4- or 6-fold

#### Portable outlet point unit with V-frame

- for a stable working pressure and a safe workplace
- with outlet point ball valves, outlet point pressure regulator, flashback arrestors
- for 4 or 6 outlet points
- for pipelines or connected to model 642
- including flashback arrestors 85-10
- for oxygen with pressure regulator
- customisations available

#### order no.

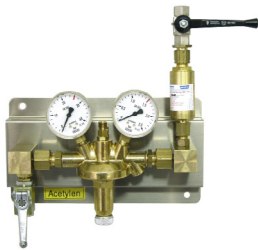
6-fold oxygen (40 bar/ 0-10 bar)	183000153
6-fold acetylene (1.5 bar)	183000154

## Pressure regulation station

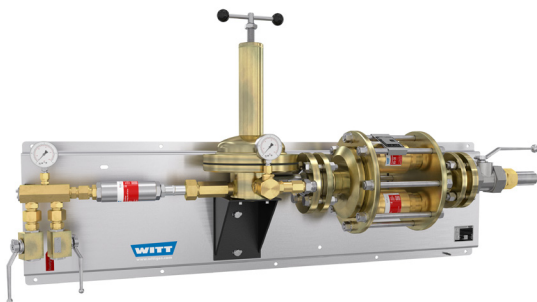
## acetylene (25 bar)

### For ensuring continuous acetylene supply into a ring pipeline

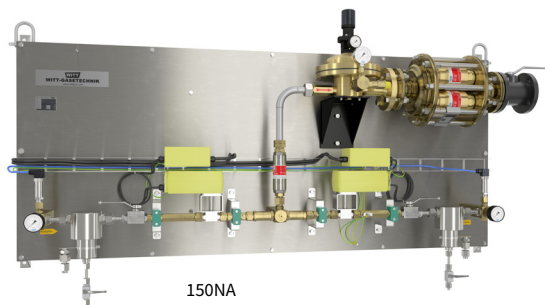
- DIN EN ISO 14114, acetylene regulation (TRAC)
- pressure regulators in accordance with ISO 7291
- completely mounted and tested, easy wall-mounting
- option: automatic switch-over (WITT-SWITCH)



684NG, single left



150NF, switch-over



150NA

model/connection	flow	order no.
<b>DRS 684NG</b>		
single left*	vertical 10 Nm <sup>3</sup> /h	193-015-001
single left*	horizontal 10 Nm <sup>3</sup> /h	193-016-001
<b>DRS 386NPL</b>		
single left	vertical 30 Nm <sup>3</sup> /h	195-001-001
<b>DRS 150NF</b>		
single left	vertical 150 Nm <sup>3</sup> /h	190-_____
<b>DRS 684NG</b>		
both-sided*	vertical 10 Nm <sup>3</sup> /h	193-003-001
both-sided*	horizontal 10 Nm <sup>3</sup> /h	193-008-001
<b>DRS 386NPL</b>		
both-sided	vertical 30 Nm <sup>3</sup> /h	195-002-001
<b>DRS 150NF</b>		
both-sided	vertical 150 Nm <sup>3</sup> /h	190-_____
*with shut-off device HDS17 (see page 60)		
<b>DRS 684NGA</b> (compatible with WITT-Switch)		
autom. switch-over		
both-sided vertical	Nm <sup>3</sup> /h	193-005-001
both-sided horizontal	10 Nm <sup>3</sup> /h	193-010-001
<b>DRS 386NGA</b> (compatible with WITT-Switch)		
autom. switch-over,		
both-sided vertical	30 Nm <sup>3</sup> /h	193-012-001
both-sided horizontal	30 Nm <sup>3</sup> /h	193-014-001
<b>ZDA</b> , autom. switch-over,		
both-sided horizontal	30 Nm <sup>3</sup> /h	193-014-003
<b>DRS 150NAFT</b> (including WITT-Switch-Tronic)		
autom. switch-over,		
both-sided horizontal	150 Nm <sup>3</sup> /h	190-_____

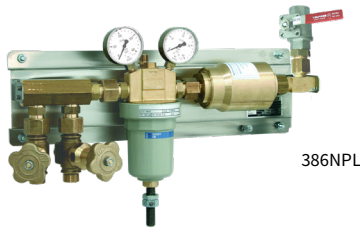
options: see next page

Illustrations exemplary



Prices assume standard seals. Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Explanations of thread types: p.136

## Pressure regulation station

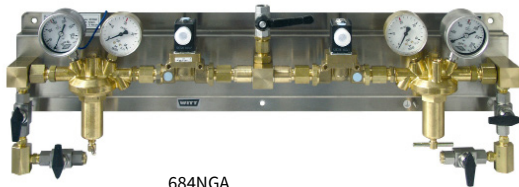


386NPL

## oxygen / other technical gases (300 bar)

### For ensuring continuous acetylene supply into a ring pipeline

- pressure regulators in accordance with ISO 7291
- completely mounted and tested, easy wall-mounting
- option: automatic switch-over (WITT-SWITCH)



684NGA  
automatic switch-over

model/connection		flow	order no.
<b>DRS 684NG</b> single left	vertical	75 Nm <sup>3</sup> /h	193-001-___
	horizontal	75 Nm <sup>3</sup> /h	193-006-___
<b>DRS 386NPL</b> single left	vertical	200 Nm <sup>3</sup> /h	195-001-___
<b>DRS 684NG</b> both-sided	vertical	75 Nm <sup>3</sup> /h	193-002-___
	horizontal	75 Nm <sup>3</sup> /h	193-007-___
<b>DRS 386NPL</b> both-sided	vertical	200 Nm <sup>3</sup> /h	195-002-___
<b>DRS 684NGA</b> (autom. switch-over) both-sided	vertical	75 Nm <sup>3</sup> /h	193-004-___
	horizontal	75 Nm <sup>3</sup> /h	193-009-___
<b>DRS 386NGA</b> (autom. switch-over) both-sided	vertical	200 Nm <sup>3</sup> /h	193-011-___
	horizontal	200 Nm <sup>3</sup> /h	193-011-___

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

WITT-Switch (control Unit for automatic switch over stations 684NGA and 386NGA)

menu language German	194-019
menu language English	194-019-01
menu language French	194-019-02

mandatory sign, conforms to type of gas 194-\_\_\_

instruction plate, conforms to type of gas 194-\_\_\_

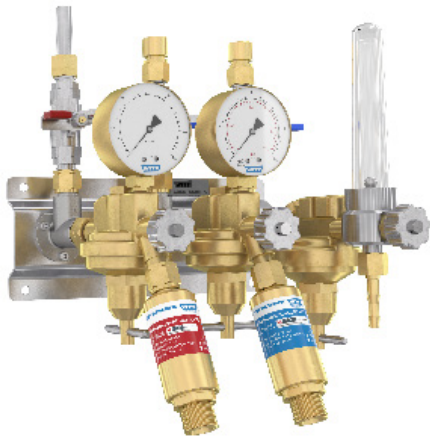
Further accessories for higher pressures upstream, e.g. hoses for bundle- and bottle-connections etc. on demand.

When ordering, please advise which gas.



WITT-Switch

## Series 610



### 1 up to 3 gases

**Outlet point for the supply of technical gases from a ring pipeline, to be mounted at the wall**

- for acetylene, fuel gas, oxygen and shielding gas
- stainless steel plate
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

#### order no.

#### mounting plate (completely mounted and tested)

610-1 one gas	290-__
610-2 two gases	290-__
610-3 three gases	290-__

#### ball valves

#### male thread

fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078

#### outlet point pressure regulators

acetylene max. 1.5 bar	044112900
oxygen max. 10 bar	044226300
shielding gas with manometer (0-30 l/min)	044524100
shielding gas with variable area flow meter (0-30 l/min)	044524000

For optional flashback arrestors and quick couplings see [page 42](#).

## Series 603



### for any number of gases

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

- for acetylene, fuel gas, oxygen and shielding gas
- anti-swiveling fixed pressure regulator/flashback arrestors
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

#### order no.

#### mounting plate (completely mounted and tested)

603-1 one gas	280-__
603-2 two gases	280-__
603-3 three gases	280-__
603-X extendable at will	on demand

#### ball valves

#### male thread

fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078

#### outlet points-pressure regulators

acetylene max. 1.5 bar	044112900
oxygen max. 10 bar	044226300
shielding gas with manometer (0-30 l/min)	044524100
shielding gas with variable area flow meter (0-30 l/min)	044524000

For optional flashback arrestors and quick couplings see [page 42](#).

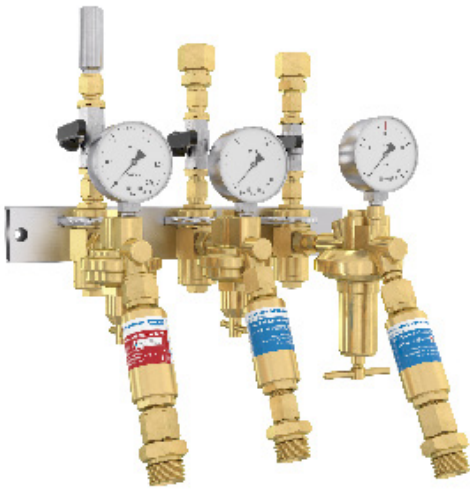
Illustrations exemplary



Prices assume standard seals. Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Explanations of thread types: p.136

## Series 503

### 3-fold, for cutting machines



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

- with gas filter 622 for increased service life of downstream fittings and equipment
- with flashback arrestor 85-10 against reverse gas flow and flashbacks
- nickel-plated tube with nickel-plated wall screens
- inlet with fittings and ball valves, incl. gas filter 622, flashback arrestor 85-10
- DIN EN ISO 5175 preventing counter flow and flashback
- completely mounted and tested

#### order no.

**outlet point 503** 3-fold

280030091

1x acetylene, P inlet max. 1.5 bar, max 4.5 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/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)

## Quality and safety since 80 years

Read on our website what WITT has achieved in 80 years of company history.

Find out about facts and figures, our quality standards, and marvel at our long history of innovation.

[www.wittgas.com](http://www.wittgas.com)

Illustrations exemplary



Prices assume standard seals. Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Explanations of thread types: p.136

## series 722

### for flashback arrestors and non-return valves

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



- 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	

## ⊙ WITT - for your safety and peace of mind

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

Therefore, each company dealing with technical gases is well advised to make a realistic risk assessment and be sure to be following best practices. Flashback arrestors and most other components of gas supply (acetylene, O<sub>2</sub>, other fuel gases, inert gas) should be checked for safety at least annually.

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

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



## LK

### lance holder



#### Lance holders for oxygen lances 6 mm – 1.1/4"

- for safe and comfortable holding of lance
- for quick and safe changeover
- dimensions: 135, 205, 215 mm
- weights: 600 / 1,900 g

model	inlet → outlet (Ø pipe)	order no.
LK-3	G 3/4 AGS → 1/8" (9.1 - 10.2 mm)	040996500
LK-4	G 3/4 AGS → 1/4" (12.0 - 13.7 mm)	040996200
LK-5	G 3/4 AGS → 3/8" (16.0 - 17.2 mm)	040996100
LK-6	G 3/4 AGS → 1/2" (20.0 - 21.5 mm)	040996300
LK-7	G 1 AGS → 3/4" (26.0 - 27.3 mm)	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

#### Backfire stop with temperature controlled cut-off valve

- safety elements: temperature-sensitive cut-off valve [TV] and non-return valve [NV]
- combinable with WITT oxygen lancing equipment
- with copper sealing
- optional: inlet-reducer with copper-ring
- dimensions: 90-215 mm
- weights: 390-2,670 g



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

## SVC



### safety lancing valve

#### Safety lancing valve with lever operation

- combinable with WITT oxygen lancing equipment
- dimensions: 265 mm
- weight: 1,045 g

model	inlet → outlet	order no.
SVCG 3/4	AGS → G 3/4 MG	040213000

## KLK



### lance holder compact

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

- combination of several safety elements in one device
- for oxygen lances 1/4" - 3/4"
- maximum safety in compact design
- dimensions: 265 - 365 mm
- weights: 1,500 - 2,700 g

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

## Shut-off valve



### for oxygen

#### for the manual interruption of gas supply

- working overpressure max. 25 bar
- stainless steel
- lengths: 65, 120 mm
- weights: 1,030 / 1,800 g

model	inlet → outlet	order no.
cut-off valve	G 3/4 IG → G 3/4 IG	800721400
adapter	G 3/4 AGS → G 3/4 AGS	952023700
adapter	G 3/4 AG → G 3/4 MG	100011116

622



## for outlet points

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

- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of stainless steel
- change of filter elements possible while installed
- every gas filter 100% tested
- 36 X 71 mm, ca. 40 g

model	connections	order no.
622	G3/8 RH IG - G3/8 LH MG .....	186-012
622	G3/8 RH IG - G3/8 RH MG .....	186-011
	replacement filter .....	955003000

77



## inline

**For reliable protection against contamination by ultrafine filtering of particulates and moisture (from 0.5 µm)**

- increases service life of downstream fittings and equipment
- complies with EIGA, AIGA and CGA standards for Oxygen
- high flowrate - for flow optimised design
- filter inserts in bronze (5/50 µm) especially for O2 or in stainless steel (0,5/7/40 µm)
- with condensate drain
- change of filter elements possible while installed
- every gas filter 100% tested
- 72 X 205 mm, ca. 2.8 kg

model	connections	order no.
77 (ca. 40 µm).....	G 3/4 IG.....	077-100
replacement filter 3-part.....		FI-077
77 (ca. 10 µm).....	G 3/4 IG.....	077-101
replacement filter 3-part.....		FI-078
77 (ca. 50 µm).....	G 3/4 IG.....	077-102
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part .....		FI-077B
77 (ca. 5 µm).....	G 3/4 IG.....	077-103
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part .....		FI-077B8
77 (ca. 0.5 µm).....	G 3/4 IG.....	077-106
with stainless steel filter		
replacement filter stainless steel 3-part .....		FI-079
installation kit .....		966031300
enabling active monitoring of filter contamination		
by means of differential pressure		



## 625

### for very high flow rates

#### Gas filter for filtering out mechanical impurities and condensate in pipelines



- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of stainless steel (ca. 40 µm)
- with condensate drain
- change of filter elements possible while installed
- every gas filter 100% tested
- 190 X 385 mm, ca. 12.2/16.7 kg

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
replacement filter 4-part.....		FI-625

## HD

### stainless steel filter

#### HD Gas Filter stainless steel up to 300 bar - for filtering out impurities (30-80 µm), ideal for hydrogen



- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of chromium-nickel steel
- ideal for hydrogen and many other technical gases
- change of filter elements possible while installed
- every gas filter 100% tested
- 79 X 175 mm, ca. 2.7 kg

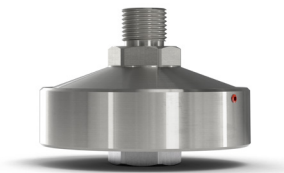
model	connections	order no.
HD (ca. 30 µm)	G 3/4 IG.....	187-005
HD (ca. 30 µm)	3/4" NPT IG.....	187-006
HD (ca. 80 µm)	G 3/4 IG.....	187-004
replacement filter 30 µm.....		FI-187-30
replacement filter 80 µm.....		FI-187

57

## pure filter 3 µm

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

- increases service life of downstream fittings and equipment
- finest filtering performance eliminates end product rejects
- high flowrate - for flow optimised design
- corrosion resistant filter insert (approx. 3 µm) stainless steel fibre fleece
- every gas filter 100% tested
- 77 X 60 mm, ca. 678 g



model	connections	order no.
57 - brass, nickel plated	G 3/8 IG - G 3/8 AGS .....	184007070
57 - stainless steel 1.4404	3/8" NPT IG - 3/8" NPT AG .....	184025250
replacement filter	.....	FI-057

807

## pure filter 5 µm

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

- increases service life of downstream fittings and equipment
- finest filtering performance eliminates end product rejects
- high flowrate - for flow optimised design
- corrosion resistant filter insert (approx. 5 µm) stainless steel fibre fleece
- every gas filter 100% tested
- 21 X 58 mm, ca. 120 g



model	connection	order no.
807 - brass, nickel plated	1/4" NPT IG .....	185-002
807 - stainless steel 1.4404	1/4" NPT IG .....	185-006
replacement filter	.....	956333400

## LE6

very high flow rates, DN100 / PN 40

**For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 15 µm), heavy unit for very high flow rates**

- complies with EIGA, AIGA and CGA standards for Oxygen
- downstream equipment performance improvement
- can extend service life and reduce maintenance requirements of downstream equipment
- in-line maintenance, saves time and money
- very high flow rates, with low pressure drop
- ideal in combination with dome pressure regulator 767LE (including with smart-option)
- certainty of safety and functionality - every filter is 100% tested



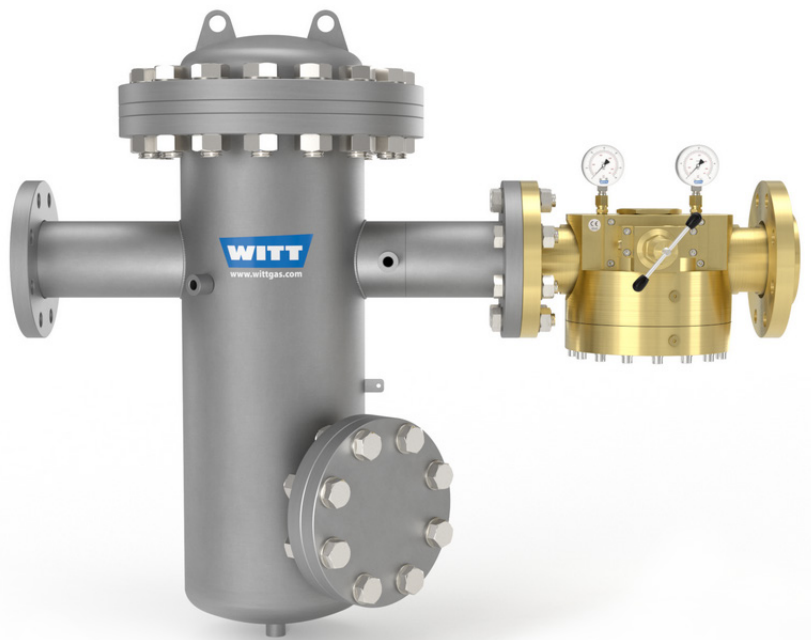
model	connections	order no.
LE6	flange DN 100/PN40 ..... pressure monitoring: G 3/8 IG	078-001
replacement filter	.....	FI-LE6

## Our gas filter in a new dimension

Our new gas filter LE6 is the perfect complement to the dome pressure regulator 767LE/S and 767LE/S SMART.

With its 3" connection and a 15 µm filter fineness, it is suitable for up to 40 bar max. operating overpressure (oxygen 30 bar, CO2 25 bar).

The flow-optimised design enables a high flow rate and thus ensures the process quality of even the largest systems.



## Ball Valve with Female Thread



### for acetylene

According to DIN ISO 228/1, PN25

- up to max. 1.5 bar working pressure
- housing: steel
- different connections and length

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 Valve with Female Thread



### for methane, LPG, shielding gas, air

According to DIN ISO 228/1, PN25

- up to max. 25 bar working pressure
- housing: steel
- may be provided with DVGW reg. numbers on request, however this will limit the pressure to PN 16
- different connections and length

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 Valve with Female Thread



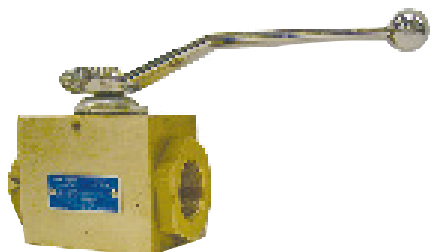
### for oxygen

According to DIN ISO 228/1, PN10

- up to max. 10 bar working pressure
- housing: steel
- different connections and length

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 Valve with Female Thread



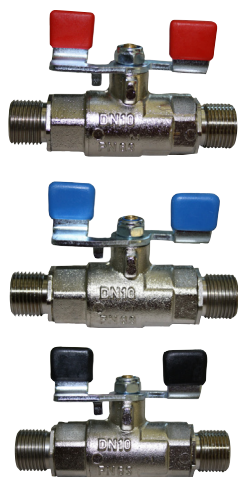
### for oxygen

#### According to DIN ISO 228/1, PN40

- up to max. 40 bar working pressure
- housing brass
- reliable protection against burnout
- different connections and length

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

## Ball Valve with Male Thread



### for fuel gases, oxygen, shielding gas

#### With threaded connectors, EN 560, PN40

- up to max. 40 bar working pressure, acetylene max. 1.5 bar
- housing nickel-plated brass
- reliable protection against burnout
- connections G 3/8, length 89 mm
- suitability and usability of the pressure PN 40 is proved by BAM reports

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

## Ball Valve with Flanged Connection



## for fuel gases, oxygen, shielding gas

According to EN 558-1 (DIN 3202), PN25 / PN40

- up to max. 25 bar / 40 bar working pressure, acetylene max. 1.5 bar
- oxygen PN 10
- housing: steel
- reliable protection against burnout
- connections DN20-DN100, length 150-190 mm
- up to DN 25 FTF-1 according to EN 558-1 (DIN 3202)
- from DN 32 FTF-27 according to EN 558-1 (DIN 3202)

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.....	198257572

## Ball Valve with Flanged Connection



### for oxygen

#### PN40

- up to max. 40 bar working pressure
- suitability and usability at pressure PN 40 is stated in BAM report
- housing stainless steel
- reliable protection against burnout
- connections DN20-DN100, length 150-190 mm
- up to DN 25 FTF-1 according to EN 558-1 (DIN 3202)
- ab DN 32 FTF-27 according to EN 558-1 (DIN 3202)

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

## High pressure Ball Valves



### for acetylene

#### According to DIN ISO 228/1, PN320, female thread

- housing: steel
- suitability and usability at pressure PN 40 is stated in BAM report
- different connections and lengths

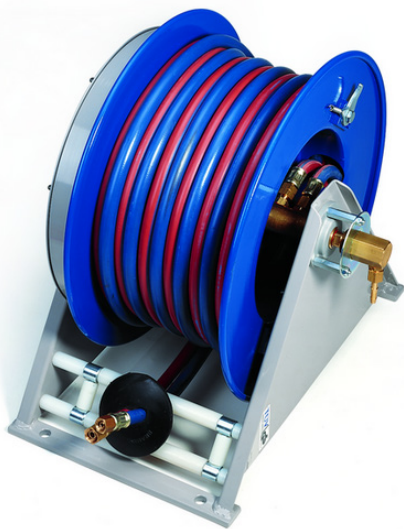
DN	length	order no.
6 /G 1/4	50 mm	198105055
6 /G 3/8	72 mm	198107077
10 /G 3/8	55 mm	198107078
10 /G 1/2	72 mm	198109099
10 /G 3/4 LH AG flat	82 mm	198112120
12 /G 1/2	75 mm	198909090
20 /G 3/4	80 mm	198111116

## DS Automatic

### for fuel gases and oxygen

#### Hose reel with twin hose DN 9/6.3 for a safe and orderly workplace gas supply

- for a safe and orderly workplace gas supply
- secure locking of the retraction mechanism helps reduce tension exerted on hose
- easy, orderly and wear-reducing retraction of the hose using guide rollers
- various mounting options
- increases service life of the hose



DN	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

## 🌀 Everything from a single source

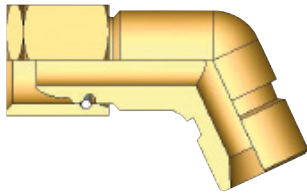
At WITT-Gasetechnik you will find a uniquely wide-ranging portfolio of products for various areas of gas technology.

No matter whether you need gas mixers, gas analysers, leak testers, safety fittings for welding and cutting, gas non-return devices for biogas plants or automatic pressure control stations for a central gas supply, whether you are looking for large systems or small components: In most cases, we can help. To make things easier for you.

If you are missing something or have special requirements, please contact us. We will develop solutions together.

## Angle adapters

connection A (MG)



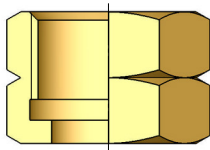
connection B

## PN 10

- ANGLE: 115°

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

## Nuts



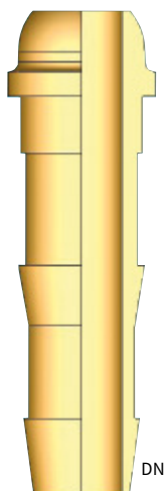
## according to EN 560

connection A	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  $\varnothing \geq 12.5$  mm:

G 1/2 RH .....	951019900
G 1/2 LH .....	951020000

## Nipples - female connection



## according to EN 560

for nuts	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 - male connection



connection A (AGS)

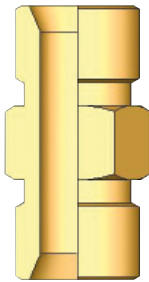
DN

## according to EN 560

connection A	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

## Screwed couplings - male connection

connection A (AGS)



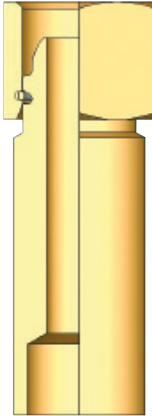
connection B (AGS)

## according to EN 560 - male threads on both sides

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

## Soldering nipple

connection B (MG)



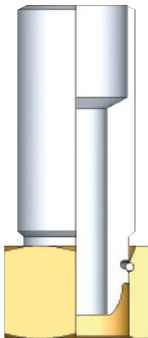
connection A (pipe Ø)

## according to EN 560

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

## Welding nipple

connection A (pipe Ø)



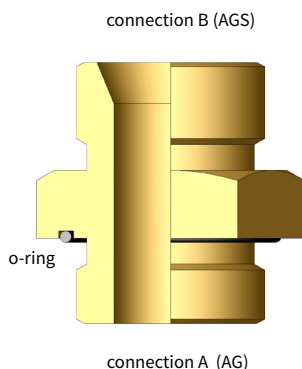
connection B (MG)

## according to EN 560, for pipes, with nut

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

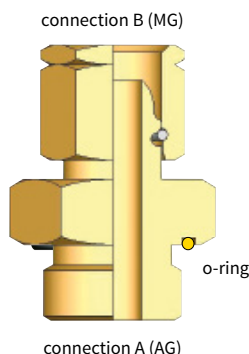
## Screwed couplings

with o-ring, according to EN 560



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

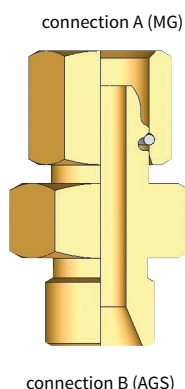
## Male / female couplings



with male thread, O-ring and nut, according to EN 560

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

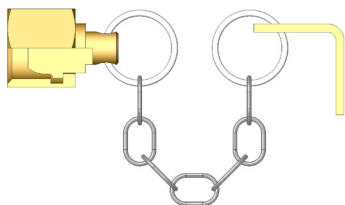


with male thread, according to EN 560

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	G 1/2 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

## Cap with chain

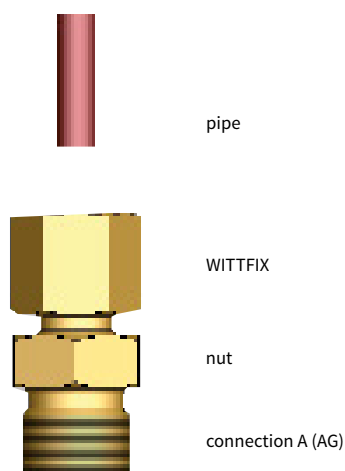
connection A (MG)



## according to EN 560

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

## WITTFIX-pipe couplings

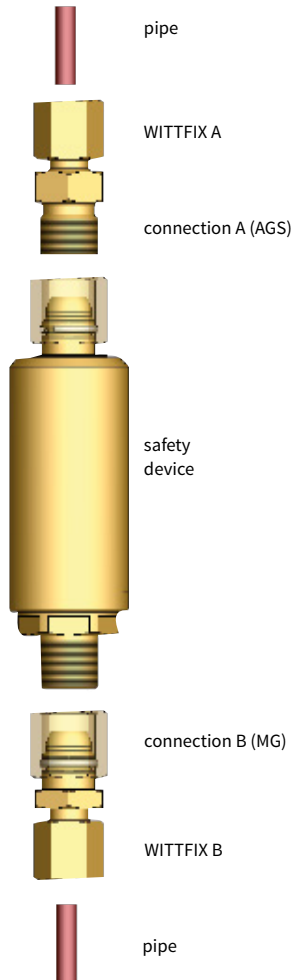


## for copper- or stainless steel pipes, according to EN 560

- max. 25 bar working pressure
- 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

## WITTFIX-pipe couplings



## mit thread-connection, according to EN 560

- for the integration of a safety device into copper or stainless steel pipelines
- max. 25 bar working pressure

pipe Ø	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

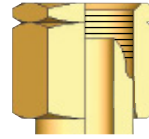
## Types of threads



**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. Upon request, a test can be included at the end of the training.

Here you will find our modules and enquiry options: [WITT Trainings](#)

Location: WITT headquarter in Witten  
Minimum attendance: 4 persons  
Maximum attendance: 8 persons

## Documentation, Certification and Instruction manuals

	<b>order no.</b>
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
Declaration of Conformity 1935/2004 (food suitability)	998.440006
Printed Operation Manual	998.300011
Declaration of Conformity 'Pressure Devices' (PED) Module G by German TÜV	998.260001
Manufacturer's Certificate in accordance with DIN EN ISO 22000	998.440005

## General Terms and Conditions

The entire text of our General Terms and Conditions may be downloaded at [www.wittgas.com](http://www.wittgas.com)

Status: 29/12/2025

# WITT SUPPORT MATERIAL - OVERVIEW

## Brochures

Central gas supply



Stainless steel devices

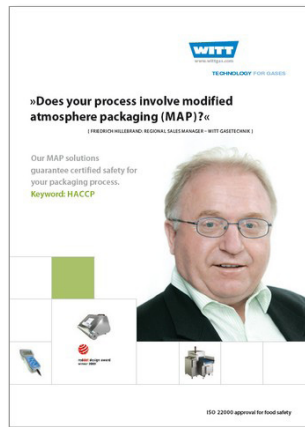


Dome pressure regulators

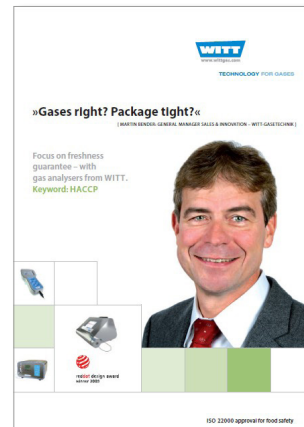


Safety relief valves

Overview MAP-portfolio



Gas analysis



Leak detection



MAP for fruit and vegetables

Overview gas mixers

Synthetic-air gas mixer

You can find our brochures and a lot of other information material in the [download area](#) of our website.

## Videos Gas Control Equipment

Gas Mixers BM-2M

Gas Mixers MM-Flex

Gas Mixers MG FIX / FLEX

Gas mixers series KM- and MG-ME

Gas mixers KM-MEM

Gas mixers KM-MEM+

Gas Mixers KM-M

The perfect laser cut

Gas Mixers MG-ME ERC+

CO<sub>2</sub> Leak detection  
LEAK-MASTER® PRO2

Inline leak detection  
LEAK-MASTER® MAPMAX

Leak detection based on water  
LEAK-MASTER® EASY

Gas analyser OXYBABY® 6.0

Gas analyser OXYPAD

Gas analyser MFA 10.0

# WITT SUPPORT MATERIAL - OVERVIEW

## Videos Gas Safety Devices

Quick couplings

Dome Pressure Regulators

Test rig for valves

Non-return valves ULTRA

ULTRAVENT millibar Valves

## Other Videos

Modified Atmosphere Packaging  
Part 1 - basics

Modified Atmosphere Packaging  
Part 2 - system components

## Social Media

Follow us on our social media channels to be the first to hear our latest news:



## OUR PRODUCT RANGE

### **GAS CONTROL EQUIPMENT**

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

### **GAS SAFETY EQUIPMENT**

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

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