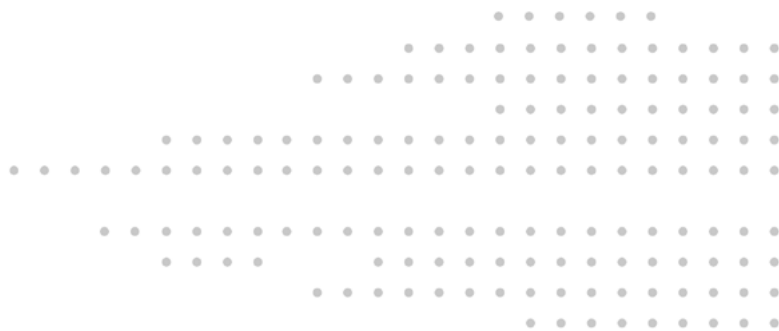


# CATALOGUE

# 2019

valid from 01.01.2019

inter@ctive



## “Come back to our website...

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

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

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

The screenshot displays the WITT website interface. At the top, there is a navigation menu with links for 'Products', 'Applications', 'Consulting & Service', 'Company', 'Downloads', 'News', and 'Contact'. The main content area is titled 'Dome Pressure Regulators for optimum emptying of gas tanks'. It features a photograph of a man, identified as Thomas Gustus, and a video player. The text on the page includes a quote from Mr. Gustus recommending WITT dome-loaded pressure regulators. Below the text, there is a diagram titled 'PRACTICAL EXAMPLE HELIUM SUPPLY' which illustrates the flow of helium gas through a pressure regulator and a valve, comparing the performance of a WITT regulator against a standard one. The diagram shows that the WITT regulator maintains a stable pressure even when the flow is extremely high or low, whereas a standard regulator would fail to maintain the required pressure.

# Quality products from WITT

## Benefits to you:

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



## Our product range

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

## “Engineering services included. Working closely with you.



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

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

## Any other questions?

## We provide you with expert answers!



Tel: +49 (0)2302 8901-0

Fax: +49 (0)2302 8901-3

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

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

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# 1. GAS MIXERS for non-flammable gases


KM20 ECO		2 gases   small flows
 <p>KM20 ECO</p>	<p><b>Small Gas mixer especially for dispensing equipment</b></p> <ul style="list-style-type: none"> <li>• variable mixture output</li> <li>• pre-set gas blends</li> <li>• various flow capacities</li> </ul>	<p><b>KM20 ECO</b></p> <p>KM 20-1 ECO with one outlet KM 20-2 ECO with two outlets</p>
MM		2 gases   small to medium flows
 <p>MM-2</p>	<p><b>Compact Gas mixer for different applications</b></p> <ul style="list-style-type: none"> <li>• adjustable mixing valve</li> <li>• mixed gas flow dependent on inlet pressures</li> <li>• various flow capacities</li> </ul>	<p><b>MM-2</b></p> <p>MM-2K MM-2G</p>
MM-Flex		2 gases   small to medium flows
 <p>MM-Flex</p>	<p><b>Ultra compact gas mixer for different applications, e.g. welding</b></p> <ul style="list-style-type: none"> <li>• adjustable mixing valve</li> <li>• adjustable metering valve</li> <li>• adjustable pressure</li> </ul>	<p><b>MM-Flex</b></p> <p>MM-Flex</p>
BM		2 gases   small flows
 <p>BM-2M</p>	<p><b>Gas mixer for direct cylinder connection (high pressure)</b></p> <ul style="list-style-type: none"> <li>• constant output</li> <li>• infinitely variable gas blending</li> <li>• infinitely variable metering</li> <li>• no additional pressure regulator required</li> <li>• various flow capacities</li> </ul>	<p><b>BM-2</b></p> <p>BM-2M (200 bar) BM-2M (300 bar)</p>


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# 1. GAS MIXERS for non-flammable gases

KM10-2 Flex		2 gases   small flows
 <p>KM10-2 Flex</p>	<p><b>Small gas mixer especially for low gas consumption, e.g. in laboratory applications</b></p> <ul style="list-style-type: none"> <li>variable mixture output</li> <li>variable gas blending</li> <li>various flow capacities</li> <li>new mixing technology, mixed gas receiver is not required</li> </ul>	<p><b>KM10-2 Flex</b> KM10-2 Flex</p>

MG Fix		2 or 3 gases   medium to high flows
 <p>MG Fix</p>	<p><b>Pre-set 2 or 3 components gas mixers</b></p> <ul style="list-style-type: none"> <li>variable mixture output</li> <li>mixing range dependent on type of gas</li> <li>new mixing technology, mixed gas receiver is not required</li> </ul>	<p><b>MG-2 Fix for 2 gases</b>            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</p> <p><b>MG-3 Fix for 3 gases</b>            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</p> <p><b>options:</b>            inlet pressure monitoring with alarm module NXT+</p>



MG Flex		2 gases   medium to high flows
 <p>MG Flex</p>	<p><b>Adjustable 2 components gas mixers for welding applications</b></p> <ul style="list-style-type: none"> <li>variable mixture output</li> <li>mixing range dependent on type of gas</li> <li>new mixing technology, mixed gas receiver is not required</li> </ul>	<p><b>MG-2 Flex</b>            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</p> <p><b>options:</b>            inlet pressure monitoring with alarm module NXT+</p>


KM		2 or 3 gases   small to medium flows
 <p>KM20-2</p>	<p><b>Mixing system for different technical applications</b></p> <ul style="list-style-type: none"> <li>constant output</li> <li>infinitely variable gas blending</li> <li>infinitely variable metering</li> <li>various flow capacities</li> </ul>	<p><b>KM-2 for 2 gases</b>            KM 20-2            KM 30-2            KM 60-2            KM 100-2</p> <p><b>KM-3 for 3 gases</b>            KM 20-3            KM 30-3            KM 60-3            KM 100-3</p>



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# 1. GAS MIXERS for non-flammable gases

KM - M		2 or 3 gases   medium to high flows
 <p>KM100-2M</p> <p>KM100/200-M KM300/600-M</p>	<p><b>Gas mixer especially for MAP-packaging and flow-pack machines</b></p> <p>Features - see model KM (above) plus:</p> <ul style="list-style-type: none"> <li>regulation of outlet pressure</li> <li>monitoring of gas supply</li> <li>integrated inlet pressure monitoring (alarm module NXT+)</li> </ul>	<p><b>KM-2M for 2 gases</b></p> <p>KM 100-2M KM 200-2M KM 300-2M KM 600-2M</p> <p><b>KM-3M for 3 gases</b></p> <p>KM 100-3M KM 200-3M KM 300-3M KM 600-3M</p> <p>optional: automatic shut-off of O<sub>2</sub> when going below the limit</p>
	 <p>for food-grade gases, conforms to 1935/2004</p>	

KM - ME		2 or 3 gases   low to very high flows
 <p>KM100-2ME on steel receiver</p> <p>Picture shows optional equipment</p>	<p><b>Powerful gas mixer especially for highly fluctuating mixing gas output quantities</b></p> <ul style="list-style-type: none"> <li>adjustable mixing valve</li> <li>with receiver pressure management for use with mixed gas receiver</li> <li>also for central gas supply installations</li> <li>various flow capacities</li> <li>alarm module NXT+ (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.</li> </ul>	<p><b>KM-2ME for 2 gases</b></p> <p>KM100-2ME KM100-2ME mounted on 20 l / 10 bar steel receiver KM100-2ME mounted on 20 l / 10 bar stainless steel receiver KM100-2ME mounted on 100 l / 10 bar steel receiver KM100-2ME mounted on 100 l / 10 bar stainless steel receiver</p> <p><b>KM-3ME for 3 gases</b></p> <p>KM100-3ME KM100-3ME mounted on 20 l / 10 bar steel receiver KM100-3ME mounted on 20 l / 10 bar stainless steel receiver KM100-3ME mounted on 100 l / 10 bar steel receiver KM100-3ME mounted on 100 l / 10 bar stainless steel receiver</p> <p><b>options:</b></p> <p>inlet pressure monitoring with alarm module NXT+ surcharge for analogue pressure transmitter for 2 inlet gases surcharge for analogue pressure transmitter for 3 inlet gases</p>



KM - M+		2 or 3 gases   medium to high flows
 <p>KM100-2M+</p>	<p><b>Gas mixer especially for MAP-packaging and flow-pack machine</b></p> <p>Features - see model KM-M (above) plus:</p> <ul style="list-style-type: none"> <li>communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V)</li> <li>incl. communication software via PC</li> </ul>	<p><b>KM-2M+ for 2 gases</b></p> <p>KM 100-2M+ KM 200-2M+</p> <p><b>KM-3M+ for 3 gases</b></p> <p>KM 100-3M+ KM 200-3M+</p> <p><b>option:</b></p> <p>operation via touch-screen display coupling socket set</p>
	 <p>for food-grade gases, conforms to 1935/2004</p>	


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# 1. GAS MIXERS for non-flammable gases

<b>KM-Flow</b>		2 or 3 gases   medium to high flows
 <p>KM-Flow with analyser</p>	<p><b>Gas mixer especially for MAP-packaging and flow-pack machines</b></p> <ul style="list-style-type: none"> <li>• electronic Mass Flow Controller (MFC)</li> <li>• touchscreen</li> <li>• measured data storage</li> <li>• may be combined with analysis MAPY LE</li> <li>• for up to 1000/1500 l/min</li> </ul>	<p><b>KM1000-2 Flow for 2 gases</b></p> <p>KM1000-2 Flow for flow-pack machines</p> <p>KM1000-2 Flow for vacuum machines</p>
		 <p>for food-grade gases, conforms to 1935/2004</p>

<b>MG-2ME</b>		2 gases   low to very high flows
 <p>MG50-2ME on steel receiver</p> <p>MG50/100-ME</p> <p>MG200-ME</p> <p>Picture shows optional equipment</p>	<p><b>MG-2ME</b></p> <p>MG50-2ME</p> <p>MG50-2ME mounted on 100 l / 10 bar steel receiver</p> <p>MG50-2ME mounted on 100 l / 10 bar stainless steel receiver</p> <p>MG100-2ME</p> <p>MG100-2ME mounted on 250 l / 11 bar steel receiver</p> <p>MG100-2ME mounted on 250 l / 11 bar stainless steel receiver</p> <p>MG200-2ME (see option "external filter")</p>	
	<p><b>Powerful gas mixer especially for high flows and highly fluctuating mixing gas output quantities</b></p> <ul style="list-style-type: none"> <li>• adjustable mixing valve</li> <li>• various flow capacities</li> <li>• with receiver pressure management for use with mixed gas receiver</li> <li>• also for central gas supply installations</li> <li>• alarm module NXT+ (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.</li> </ul>	<p><b>options:</b></p> <p>alarm module NXT+</p> <p>external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200</p> <p>surcharge for analogue pressure transmitter for 2 inlet gases</p>

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## “Did you know that WITT exhibits at more than 30 exhibitions every year worldwide?”



You'll find WITT at various international trade fairs for food and packaging technologies, process engineering and welding and cutting.

In 2018 for example, WITT presented the latestest gas mixers, gas analysers and leak detectors at the Anuga FoodTec in Cologne.

All current exhibition dates at:  
▶ [www.wittgas.com/news/exhibitions](http://www.wittgas.com/news/exhibitions)



# 1. GAS MIXERS for non-flammable gases

## MG-3ME

3 gases | low to very high flows



MG50-3ME



alarm module NXT+

### MG-3ME

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

### options:

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

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

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

## KM-MEM

2 or 3 gases | low to high flows



KM100-2MEM



KM100-3MEM

### KM-2MEM for 2 gases

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

### KM-3MEM for 3 gases

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

### option:

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

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

Features - see model ME (above) plus:

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





# 1. GAS MIXERS for non-flammable gases

## KM - MEM +

2 or 3 gases | low to high flows



KM100-2MEM+

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

Features - see model KM-MEM (above) plus:

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



### KM-2MEM+ for 2 gases

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

#### option:

- operation via touch-screen display
- coupling socket set

### KM-3MEM+ for 3 gases

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

#### option:

- operation via touch-screen display
- coupling socket set

product video: this is how our electronic gas mixer works



## MG - MEM +

2 or 3 gases | higher flows



MG50-2MEM+

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

Features - see model KM-MEM+ (above)



### MG-2MEM+ for 2 gases

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

#### option:

- operation via touch-screen display
- coupling socket set

### MG-3MEM+ for 3 gases



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



#### option:

- operation via touch-screen display
- coupling socket set



## 2. GASFLOW CONTROL SYSTEMS for non-flammable gases

KD		gas flow controller with O <sub>2</sub> -analysis
 <p>KD500-1A MAPY ZRL</p>	<p><b>Electronical flow control systems for modified atmospheres in the food industry</b></p> <ul style="list-style-type: none"> <li>with integrated zirconia cell for O<sub>2</sub>-measurement</li> <li>integrated PID control loop for automatic gas flow control</li> <li>potential free contacts for min./ max. alarms</li> </ul>	<p><b>KD</b> KD500-1A MAPY ZRL</p> <p><b>options:</b> sample testing via needle additional electrochemical sensor for sample testing heater and thermostat, only electro-chemical sensors</p>
	 <p>for food-grade gases, conforms to 1935/2004</p>	

KM-MAPY ZRL		gas mixer and meterer
 <p>KM100-2M MAPY ZRL</p>	<p><b>2-components gas mixers with integrated O<sub>2</sub> analysis</b></p> <p>Features - see model KD plus:</p> <ul style="list-style-type: none"> <li>MAPY-analysis (see p. 20)</li> <li>potential free contacts</li> </ul>	<p><b>KM-2M MAPY ZRL</b> KM100-2M MAPY ZRL KM200-2M MAPY ZRL KM300-2M MAPY ZRL KM600-2M MAPY ZRL</p> <p><b>options:</b> gas mixer with M+ (remote control)</p>
	 <p>for food-grade gases, conforms to 1935/2004</p>	

29/11/2018

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

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

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

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


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


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





### 3. GAS MIXERS for flammable gases

KM10-2 Flex		2 gases   small flows
 <p>KM10-2 Flex</p>	<p><b>Small gas mixer especially for little gas consumption, e.g. in laboratory applications</b></p> <ul style="list-style-type: none"> <li>• variable mixture output</li> <li>• variable gas blending</li> <li>• various flow capacities</li> <li>• new mixing technology, mixed gas receiver is not required</li> </ul>	<p><b>KM10-2 Flex</b></p> <p>KM10-2 Flex</p>

KM		2 or 3 gases   small to medium flows
 <p>KM100-3</p>	<p><b>Gas mixing systems for different applications, e.g. for welding applications</b></p> <ul style="list-style-type: none"> <li>• infinitely variable gas blending</li> <li>• variable mixture output</li> <li>• various flow capacities</li> <li>• certified in accordance to ATEX</li> </ul>	<p><b>KM-2 for 2 gases (1 gas flammable)</b></p> <p>KM 20-2 KM 30-2 KM 60-2 KM 100-2</p> <p><b>KM-3 for 3 gases (max. 2 flammable gases)</b></p> <p>KM 20-3 KM 30-3 KM 60-3 KM 100-3</p>

KM-ME Ex		2 or 3 gases   low to very high flows
 <p>KM100-3ME Ex</p>	<p><b>Powerful gas mixers especially for highly fluctuating mixing gas output quantities</b></p> <p>For features - see KM (above) plus:</p> <ul style="list-style-type: none"> <li>• separate electrical control panel</li> <li>• 5 m cable between control unit and mixing device</li> <li>• certified in accordance to ATEX</li> <li>• model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information in section 6 „Gas analysers“)</li> <li>• alarm module NXT+ (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.</li> </ul>	<p><b>KM-2ME Ex for 2 gases</b></p> <p>KM100-2ME Ex KM100-2ME Ex A, with integrated analysis (see section „Gas analysers“) KM100-2ME Ex mounted on 20 l / 10 bar steel receiver KM100-2ME Ex mounted on 20 l / 10 bar stainless steel receiver KM100-2ME Ex mounted on 100 l / 10 bar steel receiver KM100-2ME Ex mounted on 100 l / 10 bar stainless steel receiver</p> <p><b>KM-3ME Ex for 3 gases</b></p> <p>KM100-3ME Ex KM100-3ME Ex mounted on 20 l / 10 bar steel receiver KM100-3ME Ex mounted on 20 l / 10 bar stainless steel receiver KM100-3ME Ex mounted on 100 l / 10 bar steel receiver KM100-3ME Ex mounted on 100 l / 10 bar stainless steel receiver</p> <p><b>options:</b></p> <p>inlet pressure monitoring with alarm module NXT+(for Ex) surcharge for analogue pressure transmitters Ex, 2 inlet gases surcharge for analogue pressure transmitters Ex, 3 inlet gases</p>

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### 3. GAS MIXERS for flammable gases

#### MG - ME Ex | 2 or 3 gases | low to very high flows



MG100-ME Ex  
MG200-ME Ex

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

Features - see KM (above) plus:

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

**MG-2ME Ex for 2 gases**

- MG50-2ME Ex
- MG50-2ME Ex A, with integrated analysis (see section „Gas analysers“)
- MG50-2ME Ex mounted on 100 l / 10 bar steel receiver
- MG50-2ME Ex A, with integr. analysis, mounted on 100 l/10 bar steel receiver
- MG50-2ME Ex mounted on 100 l / 10 bar stainless steel receiver
- MG50-2ME Ex A, with integr. analysis, mounted on 100 l/10 bar stainl. steel rec.
- MG100-2ME Ex
- MG100-2ME Ex A, with integrated analysis
- MG100-2ME Ex mounted on 250 l / 11 bar steel receiver
- MG100-2ME Ex mounted on 250 l / 11 bar stainless steel receiver
- MG200-2ME Ex (see option „external filter“)
- MG200-2ME Ex A, with integrated analysis (see option „external filter“)

**MG-3ME Ex for 3 gases**

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

**options:**

- inlet pressure monitoring with alarm module NXT+ (for Ex)
- external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200
- surcharge for analogue pressure transmitters Ex, 2 inlet gases
- surcharge for analogue pressure transmitters Ex, 3 inlet gases

29/11/2018

“We can do big, too.”

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



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

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



## 4. GAS MIXERS for medical applications

### MED-MG

for synthetic air



MG50-2ME GB A

#### 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

29/11/2018

#### MED-MG

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

#### options:

automatic calibration  
heating (for low ambient temperatures)

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

volume	pressure	design	blow-off output SV*
100 litres	10 bar	vertical	382 Nm <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
1,000 litres	11 bar	vertical	795 Nm <sup>3</sup> /h
2,000 litres	11 bar	vertical	2,234 Nm <sup>3</sup> /h
4,000 litres	11 bar	vertical	2,234 Nm <sup>3</sup> /h

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

## “ Mobile gas analysis for medical applications:

### OXYBABY® med



The OXYBABY® med WITT is the ideal tool for the mobile, fast and accurate analysis of gas media prior to their use in hospitals - to protect the patient.

The OXYBABY® med needs only to be docked to the gas outlet point - then the measurement starts and the illuminated display shows the result. The device not only checks the type of gas, but also concentration and pressure.

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

For an overview of our support material see p. 76-77



## 5. MIXED GAS RECEIVERS

### Steel receivers without safety devices and connections



steel receiver, vertical,  
without safety devices and connections

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

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

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

### Stainless steel receivers without safety devices and connections



stainless steel receiver, horizontal,  
without safety devices and connections

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

**Stainless steel, not coated**

- 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

29/11/2018



## Steel receivers



steel receiver, vertical,  
incl. safety devices and connections

### With ground coat, pickled, passivated

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

incl. safety devices and connections

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm <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
1,000 litres	11 bar	vertical	1,880 Nm <sup>3</sup> /h
1,000 litres	16 bar	vertical	1,750 Nm <sup>3</sup> /h
2,000 litres	11 bar	vertical	2,490 Nm <sup>3</sup> /h
2,000 litres	16 bar	vertical	3,265 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

## Stainless steel receivers



Stainless steel receiver, horizontal  
incl. safety devices and connections

### Stainless steel, not coated

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

incl. safety devices and connections

volume	pressure	design	blow-off output SV*
20 litres	10 bar	horizontal	117 Nm <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	6 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	6 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
1,000 litres	11 bar	vertical	1,880 Nm <sup>3</sup> /h
1,000 litres	16 bar	vertical	1,750 Nm <sup>3</sup> /h
2,000 litres	11 bar	vertical	2,490 Nm <sup>3</sup> /h
2,000 litres	16 bar	vertical	3,265 Nm <sup>3</sup> /h

\* blow-off output of the safety relief valve

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

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

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

## 6. GAS ANALYSERS

## OXYBABY® M+

portable O<sub>2</sub>/CO<sub>2</sub> gas analyser - basic model

**Compact handheld O<sub>2</sub>/CO<sub>2</sub> analyser e.g. for sample testing of MAP-packages (basic model)**

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



## OXYBABY® M+

OXYBABY® M+	for O <sub>2</sub>
OXYBABY® M+	for O <sub>2</sub> /CO <sub>2</sub>

## options:

connector tube with Luer-Lok-connection

## OXYBABY® 6.0

portable O<sub>2</sub>/CO<sub>2</sub> gas analyser - premium model

**Compact handheld O<sub>2</sub>/CO<sub>2</sub> analyser e.g. for sample testing of MAP-packages (premium model)**

features see above, plus:

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



## OXYBABY® 6.0

OXYBABY® 6.0	for O <sub>2</sub>
OXYBABY® 6.0	for O <sub>2</sub> /CO <sub>2</sub>

## options:

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



product video and further information see  
▶ [www.oxybaby.com](http://www.oxybaby.com)

## OXYBABY® M+P

basic gas analyser for pressurised pipelines



**Mobile O<sub>2</sub>/CO<sub>2</sub> sample analysis in pressurised pipelines, mainly in welding technology (basic model)**

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

## OXYBABY® M+P

OXYBABY® M+P	for O <sub>2</sub>
OXYBABY® M+P	for CO <sub>2</sub>
OXYBABY® M+P	for O <sub>2</sub> /CO <sub>2</sub>

## OXYBABY® 6.0 P

premium gas analyser for pressurised pipelines




**Mobile O<sub>2</sub>/CO<sub>2</sub> sample analysis in pressurised pipelines, mainly in welding technology (premium model)**


features see above, plus:


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

## OXYBABY® 6.0 P

OXYBABY® 6.0 P	for O <sub>2</sub>
OXYBABY® 6.0 P	for CO <sub>2</sub>
OXYBABY® 6.0 P	for O <sub>2</sub> /CO <sub>2</sub>

OXYBABY® MED		portable O <sub>2</sub> / CO <sub>2</sub> gas analyser for medical applications
	<b>Compact handheld O<sub>2</sub>/ CO<sub>2</sub> analyser for checking medical gases</b> <ul style="list-style-type: none"> <li>• quick and precise</li> <li>• data log of last 500 measurements</li> <li>• administration of users applications and allocations</li> <li>• hygienic and low maintenance</li> </ul>	<b>OXYBABY® MED</b> 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		
	<b>Accessory for all OXYBABY® models:</b> <ul style="list-style-type: none"> <li>• table rack</li> </ul>	<b>OXYBABY®-Accessories</b> Table rack for OXYBABY® connector tube with Luer-Lok-connection integrated barcode reader tabletop bluetooth printer
	<b>Accessories for the OXYBABY® 6.0 premium models:</b> <ul style="list-style-type: none"> <li>• documentation software OBCC</li> <li>• integrated barcode reader</li> <li>• bluetooth printer</li> </ul>	OBCC software for the documentation of analysis results* <i>*further information see p. 21</i>
e.g. for the use of the OXYBABY® as a tabletop unit		

OXYBABY® -Accessories		for cans, bottles and mini packages																								
		<table border="1"> <thead> <tr> <th>OXYBABY®-Accessories</th> <th>Order no.</th> </tr> </thead> <tbody> <tr> <td><b>Canpiercer</b> for cans and bottles (with set for head space analysis)</td> <td></td> </tr> <tr> <td><b>for cans without overpressure/gas</b> (e.g. juice)* for max. piercing height of 270 mm, needle length 5,5 mm</td> <td>590000156</td> </tr> <tr> <td><b>for cans and bottles with overpressure/gas, incl. bottle adapter*</b> for max. piercing height of 270 mm, needle length 8,5 mm</td> <td>590000165</td> </tr> <tr> <td>for max. piercing height of 390 mm, needle length 8,5 mm</td> <td>590000166</td> </tr> <tr> <td>for max. piercing height of 390 mm, needle length 18,5 mm</td> <td>590000325</td> </tr> <tr> <td><b>for cans with high overpressure/gas</b> (strongly sparkling drinks) incl. calibration module and flow control* for max. piercing height of 270 mm, needle length 5,5 mm</td> <td>590000239</td> </tr> <tr> <td><b>for cans and bottles, pressure measurement only, incl. bottle adapter*</b> for max. piercing height of 390 mm, needle length 5,5 mm</td> <td>590000341</td> </tr> <tr> <td colspan="2"><i>*other versions on request</i></td> </tr> <tr> <td colspan="2">Canpiercer-module (for refitting): bottle adapter</td> </tr> <tr> <td colspan="2"><b>Aquacheck</b> equipment for the gas analysis of mini packages</td> </tr> <tr> <td colspan="2"><b>Aquacheck Plus</b> Aquacheck incl. water container</td> </tr> </tbody> </table>	OXYBABY®-Accessories	Order no.	<b>Canpiercer</b> for cans and bottles (with set for head space analysis)		<b>for cans without overpressure/gas</b> (e.g. juice)* for max. piercing height of 270 mm, needle length 5,5 mm	590000156	<b>for cans and bottles with overpressure/gas, incl. bottle adapter*</b> for max. piercing height of 270 mm, needle length 8,5 mm	590000165	for max. piercing height of 390 mm, needle length 8,5 mm	590000166	for max. piercing height of 390 mm, needle length 18,5 mm	590000325	<b>for cans with high overpressure/gas</b> (strongly sparkling drinks) incl. calibration module and flow control* for max. piercing height of 270 mm, needle length 5,5 mm	590000239	<b>for cans and bottles, pressure measurement only, incl. bottle adapter*</b> for max. piercing height of 390 mm, needle length 5,5 mm	590000341	<i>*other versions on request</i>		Canpiercer-module (for refitting): bottle adapter		<b>Aquacheck</b> equipment for the gas analysis of mini packages		<b>Aquacheck Plus</b> Aquacheck incl. water container	
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Image exemplary Oxybaby® and bottle not included																										
<b>Special packages are hardly controllable by standard analysis devices. Therefore WITT offers a special construction which is suitable for all OXYBABY® models</b> <ul style="list-style-type: none"> <li>• for head space analysis of cans and bottles, with or without overpressure/gas</li> <li>• for O<sub>2</sub> and CO<sub>2</sub> analysis of mini packages, e.g. capsules</li> </ul>																										

## OXYBEAM


**O<sub>2</sub> laser gas analyser for non-destructive sample testing of packages**

- state-of-the-art laser technology for determining O<sub>2</sub> content
- avoids waste costs
- for packaging with transparent film area

non-destructive O<sub>2</sub> sample gas analyser**OXYBEAM**OXYBEAM for O<sub>2</sub>

## PA 7.0


**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

tabletop O<sub>2</sub>/CO<sub>2</sub> gas analyser**PA 7.0**

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)  
 analysis software OBCC  
 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

## MAPY 4.0 / MAPY LE


 MAPY 4.0 - inclined display  
for use in laboratory

 MAPY LE - vertical display  
for use as inline analyser

**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)
- with 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

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

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  
 analysis software GASCONTROL CENTER  
 fully automatic calibration 1 channel  
 fully automatic calibration 2 channels  
 heating and thermostat, only electro-chemical sensors  
 different Ethernet cables (only for MAPY in vertical housing)

## 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**

- 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

**MAPY VAC**

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

## Inline gas analysis

## integrated with gas mixer



GC 50

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

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

**gas analysis for gas mixers**

analyser system H<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> (chemical)  
 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

## for WITT gas analysers



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

**Additional functions for optimising the process**

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

**options for WITT gas analysers (except MAPY and MFA)**

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

back-purging device for inline gas analysers

## OBCC

## documentation software for OXYBABY® 6.0 and PA


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

- Measurement data recording and storage for quality assurance with

**Software**

OBCC full version  
 incl. USB-connection cable

## MFA 9000

## multigas-analyser



MFA 9000

**Portable multigas-analyser especially for maintenance and service**

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

MFA 9000

MFA 9000

## HYDROBABY

## mobile moisture measurement



HYDROBABY

**Mobile device for analysing moisture in gases**

- short response times
- dewpoint from  $-110^{\circ}$  up to  $20^{\circ}\text{C}$
- latest sensor technology
- easy navigation
- large display
- USB interface for data export

HYDROBABY

HYDROBABY

**options:**

- pressure compensation
- 4-20 mA outlet

MFA H<sub>2</sub>O

## stationary moisture measurement

MFA H<sub>2</sub>O

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

Features - see HYDROBABY plus:

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

MFA H<sub>2</sub>OMFA H<sub>2</sub>O**options:**

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

## RLA100

## ambient air monitoring



RLA100

**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

RLA100

RLA100

## RLA compact



**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

## ambient air monitor

**RLA compact**

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> Zircos - 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



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

## ambient air monitor

**RLA multichannel**

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> Zircos - 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

**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

## with alarm module NXT+

**Inlet pressure monitoring**

separate  
 for flammable gases as Ex-version with separate control housing

options:  
 data cable  
 ALARM CONTROL software  
 surcharge for analogue pressure transmitters, 2 inlet gases  
 surcharge for analogue pressure transmitters, 3 inlet gases  
 surcharge for analogue pressure transmitters Ex, 2 inlet gases  
 surcharge for analogue pressure transmitters Ex, 3 inlet gases  
 LED warning light with signal-horn

29/11/2018



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

From the handy Oxybaby® via the compact PA up to the award-winning MAPY: In our special brochure you will find detailed information about our O<sub>2</sub>/ CO<sub>2</sub> gas analysers.

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



## 7. LEAK DETECTION EQUIPMENT

### LEAK-MASTER® EASY

#### bubble-test



LEAK-MASTER® EASY 3



control unit PLUS (optional)

**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	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 35 x 525 x 360	
EASY 4	320 x 625 x 500
EASY 5	340 x 760 x 500

option:	order no.
vacuum-set	956.992700
electrical vacuum pump	
vacuum holding valve	800961000
calibrated manometer	800942100
control unit PLUS	5901LME-Z-001
options for control unit:	
barcode reader IP 65	957099400
analysis software GASCONTROL CENTER	



product video and further information see  
▶ [www.leak-master.net](http://www.leak-master.net)

### LEAK-MASTER® PRO

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



LEAK-MASTER® PRO	chamber size in approx. mm (HxWxD)
LM 4.4.1	90 x 345 x 280
LM 5.2.2	100 x 460 x 305
LM 12.2	140 x 680 x 500
LM 12.1	230 x 680 x 500

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



product video and further information see  
▶ [www.leak-master.net](http://www.leak-master.net)

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

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





## 7. LEAK DETECTION EQUIPMENT

### LEAK-MASTER® MAPMAX

inline



**Uniquely quick and precise inline-leak detection of packages containing CO<sub>2</sub> directly from the packaging machine** for trays/thermoform packaging or secondary packages respectively boxes (vacuum layout optionally)

features see LEAK-MASTER® PRO, plus:

- integration in the packaging process
- automatic product positioning
- automatic product transport to the following process
- up to 15 cycles per minute

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

#### LEAK-MASTER® MAPMAX                      size in approx. mm (WxDxH)

MAPMAX Type 400 compact                      1167 x 1408 x 2200  
max. product dimensions 600 x 400 x 380 mm  
up to 14 cycles per minute

MAPMAX Type 400                                      1840 x 1130 x 2200  
max. product dimensions 600 x 400 x 380 mm  
up to 15 cycles per minute

MAPMAX Type 700 compact                      1167 x 1408 x 2200  
max. product dimensions 600 x 680 x 220 mm  
up to 14 cycles per minute

MAPMAX Type 700                                      1840 x 1130 x 2200  
max. product dimensions 600 x 680 x 220 mm  
up to 15 cycles per minute

options:

WIFI

barcode reader IP 65

analysis software GASCONTROL CENTER

MINK vacuum pump

central vacuum layout (control valve central vacuum)

surface pressurisation (incl. motorisation)

e.g. to speed up and improve the measurements for packages with a low gas volume

product video and further information see  
▶ [www.leak-master.net](http://www.leak-master.net)



### Accessories

for WITT leak detectors

Wi-Fi



barcode reader



GASCONTROL CENTER

**For process optimisation with models EASY PLUS, PRO and MAPMAX**

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

WIFI (not for Control Unit PLUS)

barcode reader IP 65

analysis software GASCONTROL CENTER

Test-Leak (60µ) for the inspection of measuring and testing equipment (only for LEAK-MASTER® MAPMAX and PRO)

## 8. DATA LOGGER

### PATBOX

data logger



**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

PATBOX

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

### RF53N



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 46

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

### RF53DN



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

DIN EN ISO 5175-1

with pressure relief valve

FA NV TV

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

### RF53NSK



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

DIN EN ISO 5175-1

with integrated coupling  
body according EN 561

FA NV TV

suitable probes see p. 38f

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

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

### 85-10



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

DIN EN ISO 5175-1

FA  NV  TV

also available in stainless steel, see p. 46

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

### 85-20



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

DIN EN ISO 5175-1

FA  NV  TV

also available in stainless steel, see p. 47

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

### 85-30



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


DIN EN ISO 5175-1


FA  NV  TV


also available in stainless steel, see p. 47


connection	inlet → outlet	order no.
for fuel gases:		
G 3/4 LH	MG → AGS	147-001
G 1 LH	MG → AGS	147-003
for oxygen:		
G 3/4 RH	MG → AGS	147-065
G 1 RH	MG → AGS	147-068
for fuel gases or oxygen:		
3/4" NPT	IG → IG	147-081
G 1 1/2 RH	IG → IG	147-069
1" NPT	IG → IG	147-072
1/2" NPT	IG → IG	147-083

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

Safety group 645/85-30		2- or 4-fold		
 <p><b>Parallel connection of 2 or 4 flashback arrestors model 85-30, ideal for high consumption and high flows</b></p> <p><b>Acetylene max. 392 m<sup>3</sup>/h</b> <b>Fuel gases max. 2740 m<sup>3</sup>/h</b> <b>Oxygen max. 1850 m<sup>3</sup>/h</b></p> <p>DIN EN ISO 5175-1</p> <p>FA NV TV</p> <p>also available in stainless steel, see p. 47</p>	<b>connection</b>	<b>inlet → outlet</b>	<b>order no.</b>	
	for fuel gases:			
	DN 50 (2fold)	flange DIN 2633	182-023	
	DN 50 (4fold)	flange DIN 2633	182-007	
	2" NPT (4fold)	IG → IG	182-030	
	for oxygen:			
	DN 50 (2fold)	flange DIN 2633	182-027	
	DN 50 (4fold)	flange DIN 2633	182-008	

Safety group 645/623N		4- or 5-fold		
 <p><b>Parallel connection of 4 or 5 flashback arrestors model 623N, ideal for high consumption and high flows</b></p> <p><b>Town gas / Natural gas max. 1010 m<sup>3</sup>/h</b></p> <p>DIN EN ISO 5175-1</p> <p>FA NV TV</p>	<b>connection</b>	<b>inlet → outlet</b>	<b>order no.</b>	
	for town gas/natural gas:			
	DN 65/PN16 (4fold)	flange DIN 2633	182-014	
	DN 65 /PN16 (5fold)	flange DIN 2633	182-018	

Super 55				
 <p><b>Acetylene max. 10 m<sup>3</sup>/h</b> <b>Fuel gases max. 60 m<sup>3</sup>/h</b> <b>Oxygen max. 95 m<sup>3</sup>/h</b></p> <p>DIN EN ISO 5175-1</p> <p>with pressure controlled cut-off valve</p> <p>FA NV TV PV</p>	<b>connection</b>	<b>inlet → outlet</b>	<b>order no.</b>	
	for fuel gases:			
	G 3/8 LH	MG → AGS	146-025	
	9/16" LH	MG → AGS	146-029	
	for oxygen:			
	G 1/4 RH	MG → AGS	146-027	
	G 3/8 RH	MG → AGS	146-026	
	9/16" RH	MG → AGS	146-030	

Super 85				
 <p><b>Acetylene max. 19 m<sup>3</sup>/h</b> <b>Fuel gases max. 169 m<sup>3</sup>/h</b> <b>Oxygen max. 119 m<sup>3</sup>/h</b></p> <p>DIN EN ISO 5175-1</p> <p>with pressure controlled cut-off valve</p> <p>FA NV TV PV</p>	<b>connection</b>	<b>inlet → outlet</b>	<b>order no.</b>	
	for fuel gases:			
	G 3/8 LH	MG → AGS	148-002	
	9/16" LH	MG → AGS	148-009	
	for oxygen:			
	G 1/4 RH	MG → AGS	148-013	
	G 3/8 RH	MG → AGS	148-016	
	9/16" RH	MG → AGS	148-022	

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

## Super 90



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

DIN EN ISO 5175-1

with pressure controlled cut-off valve

FA NV TV PV

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

## Super 78



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

DIN EN ISO 5175-1

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

FA NV TV PV RV

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

## Super 66



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

DIN EN ISO 5175-1

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

FA NV TV PV RV

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

## F53N/HHO



Air max. 20 m<sup>3</sup>/h


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


for electrolysis devices


FA TV


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

# 10. FLASHBACK ARRESTORS for torches

E 460 - 1		connection	inlet → outlet	order no.
 <p>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</p> <p>DIN EN ISO 5175-1</p> <p><input type="checkbox"/> FA <input type="checkbox"/> NV</p>		for fuel gases:		
		4,0 mm - G 3/8 LH	nozzle → MG	135-002
		6,3 mm - G 3/8 LH	nozzle → MG	135-005
		8,0 mm - G 3/8 LH	nozzle → MG	135-009
		9,0 mm - G 3/8 LH	nozzle → MG	135-013
		for oxygen:		
		4,0 mm - G 1/4 RH	nozzle → MG	135-014
		6,3 mm - G 1/4 RH	nozzle → MG	135-017
		6,3 mm - G 3/8 RH	nozzle → MG	135-018
		8,0 mm - G 3/8 RH	nozzle → MG	135-022

E 460 - 2		connection	inlet → outlet	order no.
 <p>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</p> <p>DIN EN ISO 5175-1</p> <p><input type="checkbox"/> FA <input type="checkbox"/> NV</p>		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


E 460 - 3		connection	inlet → outlet	order no.
 <p>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</p> <p>DIN EN ISO 5175-1</p> <p><input type="checkbox"/> FA <input type="checkbox"/> NV</p>		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

E 460 SK		connection	inlet → outlet	order no.
 <p>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</p> <p>DIN EN ISO 5175-1</p> <p><input type="checkbox"/> FA <input type="checkbox"/> NV</p> <p>suitable coupling body: SK100-9, see p. 31</p>		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

29/11/2018

# 10. FLASHBACK ARRESTORS for torches

**E460SKU**



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

DIN EN ISO 5175-1

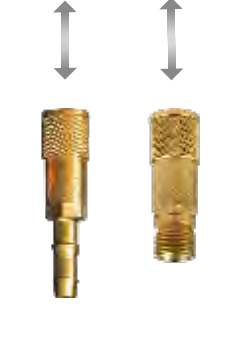
with integrated coupling body: EN 561

FA  NV

suitable coupling probes: see section 14 "Quick couplings"

connection	inlet → outlet	order no.
for fuel gases:		
6,3 mm	nozzle → coupling body	135SK-001
8,0 mm	nozzle → coupling body	135SK-004
G 3/8 LH	AGS → coupling body	135SK-128
for oxygen:		
6,3 mm	nozzle → coupling body	135SK-002
G 1/4 RH	AGS → coupling body	135SK-127

**SK100-9**




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

EN 561 / ISO 7289

connection	inlet ↔ outlet	order no.
for fuel gases:		
6,3 mm	nozzle ↔ coupling body	150-021
8,0 mm	nozzle ↔ coupling body	150-039
9,0 mm	nozzle ↔ coupling body	150-023
G 3/8 LH	AGS ↔ coupling body	150-081
for oxygen:		
6,3 mm	nozzle ↔ coupling body	150-024
8,0 mm	nozzle ↔ coupling body	150-040
G 1/4 RH	AGS ↔ coupling body	150-080
G 3/8 RH	AGS ↔ coupling body	150-079
other gases:		
6,3 mm	nozzle ↔ coupling body	150-077

**RF53NU**




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

DIN EN ISO 5175-1

FA  NV  TV

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

**85-10NU**



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

DIN EN ISO 5175-1

FA  NV  TV

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


29/11/2018

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

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 75/76.



# 10. FLASHBACK ARRESTORS for torches

85-10NU (Exzenter)		connection	inlet → outlet	order no.
 <p>Acetylene max. 22 m³/h Fuel gases max. 235 m³/h Oxygen max. 310 m³/h</p> <p>eccentric outlet</p> <p>DIN EN ISO 5175-1</p> <p><input type="checkbox"/> FA <input type="checkbox"/> NV</p>	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	

29/11/2018

## “Connected manufacturing ready for gas technology: WITT devices now available with „smart-option“

The concept is part of the vision "Industry 4.0": The individual elements of a process communicate their parameter to a control unit. In this way, functions can be remotely monitored and errors can be detected and corrected at an early stage.

WITT has adopted this groundbreaking technology and offers the "smart option" for various devices. The relevant data are transmitted electronically, e.g.:

- pressures
- temperature
- open/closed status for safety relief valves




Are you also focusing on the digital future? We can assist.  
Please contact our technical advisors: 0049-2302-89010



# 11. FLASHBACK ARRESTORS for cutting machines

**E 460 - 3**




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

DIN EN ISO 5175-1

FA  NV

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

**RF 53 U**




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

DIN EN ISO 5175-1

FA  NV

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

**85 - 10 U**



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

DIN EN ISO 5175-1

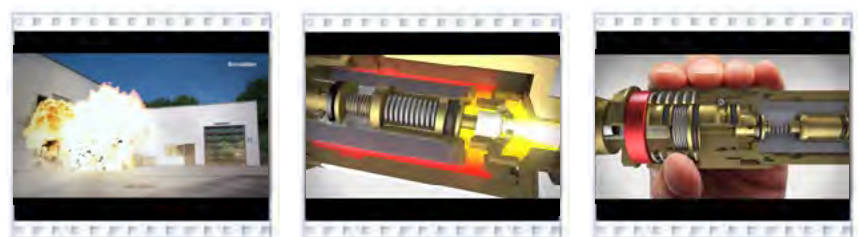
FA  NV

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

29/11/2018

“Already a classic: our most seen video.


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



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

## 12. FLASHBACK ARRESTORS for high flows

### RF53N/30



**Fuel gases 16 m<sup>3</sup>/h  
Air 12 m<sup>3</sup>/h**

DIN EN ISO 5175-1


FA  NV  TV

for very low pressures without non-return valve:

FA  TV  
(order no. 145-136)

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

### 85-10/30



**Fuel gases 30 m<sup>3</sup>/h  
Air 21 m<sup>3</sup>/h**

DIN EN ISO 5175-1


FA  NV  TV

for very low pressures without non-return valve:

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

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

### 270N/NU



**Fuel gases (without acetylene): max. 371 m<sup>3</sup>/h  
Air 164 m<sup>3</sup>/h**

DIN EN ISO 5175-1

FA  NV  TV



pipeline fittings see next page




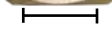
connection	inlet → outlet	order no.
<b>270N</b>		
G 3/4 RH	AGS → MG	123-038
G 1 RH	AGS → MG	123-041
G 1.1/4 RH	AGS → MG	123-039
G 1.1/2 RH	AGS → MG	123-040
G 1/2 RH	IG → IG	123-054
G 1 RH	IG → IG	123-057
<b>270NU (reverse flow)</b>		
G 3/4 RH	MG → AGS	123-046
G 3/4 LH	MG → AGS	123-050
G 1 RH	MG → AGS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

29/11/2018



## 12. FLASHBACK ARRESTORS for high flows

623N/NU		connection	inlet → outlet	order no.
 623N ↓	 623N ↑	623NU	<b>Fuel gases 406 m³/h</b> <b>Air 335 m³/h</b>	
			E730-1 <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV	
pipeline fittings see below				
		<b>623N</b>		
		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
		<b>623NU (reverse flow)</b>		
		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		connection G1	connection G2	order no.
 G2: AG	<b>For flashback arrestors models 70, 270N/NU and 623N/NU</b>	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
 G1: MG				
 G1: AGS				
 G2: IG				

29/11/2018

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

Anyone working with hydrogen, corrosive gases or pure gas requires a material that is especially designed for these conditions: stainless steel. Therefore WITT offers a wide range of stainless steel safety devices.

The latest production technologies, high-quality stainless steel (e.g. 1.4305/AISI 303, 1.4404/AISI 316L, 1.4541/AISI 321) and elastomers as well as a sophisticated quality management system guarantee highest quality. As a matter of course, WITT products fulfill all relevant international standards and norms. For your safety.



You can find our stainless steel products starting on page 46.  
 Further information on [www.wittgas.com](http://www.wittgas.com) and in our "Stainless steel" brochure.

# 13. FLASHBACK ARRESTORS for central acetylene supply

## FN12 / FN40

## decomposition arrestor



**Stops dangerous decomposition of acetylene in low pressure pipelines**

**Up to 1.5 bar**

FN12 Q= ca. 76 m<sup>3</sup>/h  
FN40 Q= ca. 140 m<sup>3</sup>/h

TRAC 206

FA TV

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

## Safety group 645/FN40

## 4- or 5-fold



**Stops dangerous decomposition of acetylene in low pressure pipelines**

**Up to 1.5 bar**

FN40 Q= ca. 140 m<sup>3</sup>/h

TRAC 206

FA TV

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

## HDS17

## shut-off device



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

**Up to 25 bar**

TRAC 206

DIN EN ISO 15615  
DIN EN ISO 14114

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

## Bundle connection

## with non-return valve RV 650



**For the direct connection to a bundle**

**Up to 25 bar**

DIN EN ISO 15615  
DIN EN ISO 14114

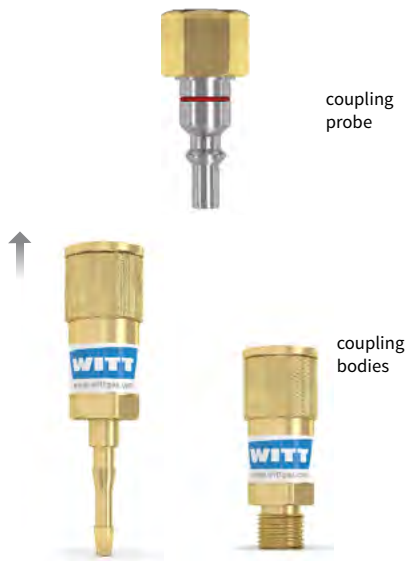
connection	inlet → outlet	order no.
<b>„Linde“</b> M 28x1,5 LH - M 24x1,5 RH	IG → MG	210000011
<b>„Messer“</b> M 28x1,5 LH - M 24x1,5 RH	IG → MG	210000020



# 14. QUICK COUPLINGS

## SK100-1

### for torches



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

EN 561 / ISO 7289

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

• **coupling probes**

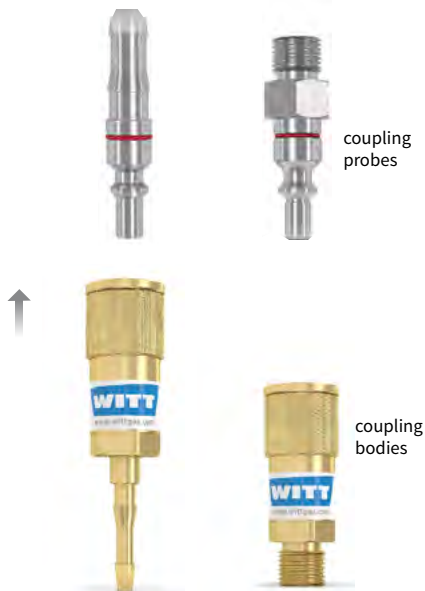
for fuel gases:		
G 3/8 LH	probe → MG	151-001
for oxygen:		
G 1/4 RH	probe → MG	151-003
G 3/8 RH	probe → MG	151-004
for other gases:		
G 1/4 RH	probe → MG	151-005

• **coupling bodies** (also for SK100-2)

for fuel gases:		
4,0 mm	nozzle → coupling body	150-001
6,3 mm	nozzle → coupling body	150-003
8,0 mm	nozzle → coupling body	150-004
9,0 mm	nozzle → coupling body	150-005
G 3/8 LH	AGS → coupling body	150-064
for oxygen:		
4,0 mm	nozzle → coupling body	150-007
6,3 mm	nozzle → coupling body	150-009
8,0 mm	nozzle → coupling body	150-010
G 1/4 RH	AGS → coupling body	150-061
G 3/8 RH	AGS → coupling body	150-060
for other gases:		
6,3 mm	nozzle → coupling body	150-013
G 1/4 RH	AGS → coupling body	150-063
G 3/8 RH	AGS → coupling body	150-062

## SK100-2

### for hoses



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

EN 561 / ISO 7289

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

• **coupling probes** (also for SK100-3)

for fuel gases:		
4,0 mm	probe → nozzle	151-007
6,3 mm	probe → nozzle	151-009
8,0 mm	probe → nozzle	151-010
9,0 mm	probe → nozzle	151-011
G 3/8 LH	probe → AGS	151-048
for oxygen:		
4,0 mm	probe → nozzle	151-013
6,3 mm	probe → nozzle	151-015
8,0 mm	probe → nozzle	151-016
G 1/4 RH	probe → AGS	151-045
G 3/8 RH	probe → AGS	151-044
for other gases:		
6,3 mm	probe → nozzle	151-021
G 1/4 RH	probe → AGS	151-047
G 3/8 RH	probe → AGS	151-046

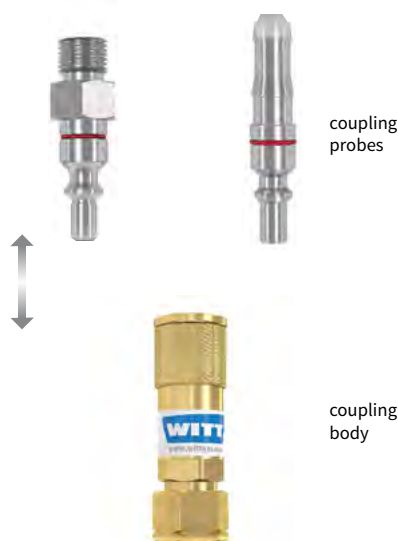
• **coupling bodies**

see SK100-1

# 14. QUICK COUPLINGS

**SK100-3**

for outlet points



coupling probes

coupling body

connection	inlet ⇄ outlet	order no.
<b>• probes</b>		
see SK100-2		
<b>• coupling bodies</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

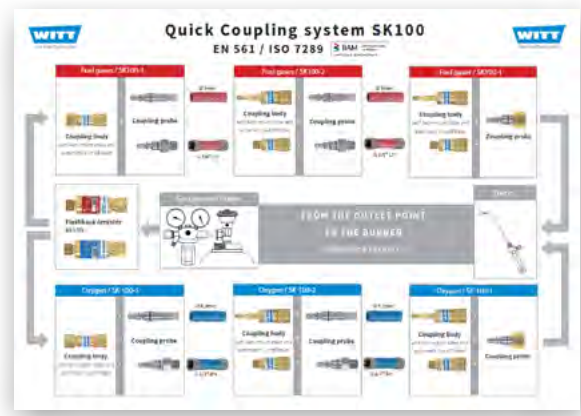
**Coupling bodies with automatic gas cut-off valve**

EN 561 / ISO 7289

10/01/2019

## “Which coupling at which point? An overview.

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




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

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

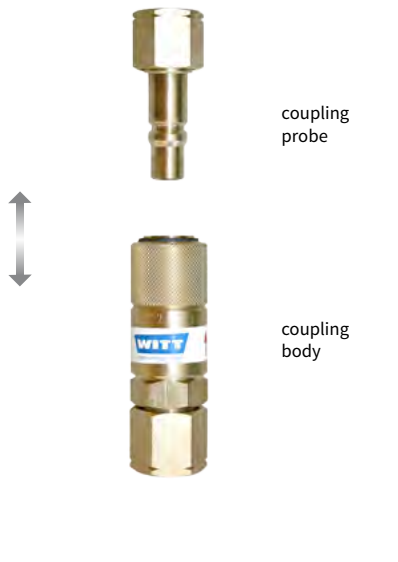
For an overview of our support material see p. 76-77

# 14. QUICK COUPLINGS

Keymark coupling		for outlet points	
 <p>coupling body</p> <p>keymark</p> <p>coupling probes</p>	<b>connection</b>	<b>inlet ⇄ outlet</b>	<b>order no.</b>
	<b>• coupling bodies</b>		
	for fuel gases: G 3/8 LH	MG ⇄ coupling body	150-029
	for other gases: G 1/4 RH	MG ⇄ coupling body	150-033
	<b>• keymark</b>		801836700
	<b>• coupling probes</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	

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

EN 561 / ISO 7289

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


**Hose couplings for higher flows**


DIN 8544


29/11/2018




# 15. NON-RETURN VALVES

NV 654		connection	inlet → outlet	order no.
 <p>Up to 60 bar (O<sub>2</sub> up to 30 bar)</p> <p>Air max. 130 m<sup>3</sup>/h</p> <p><b>NV</b></p> <p>DIN EN ISO 5175-2</p> <p>also available in stainless steel, see p. 48</p>		G 1/8 RH	IG → AGS	120003037


NV 100		connection	inlet → outlet	order no.
 <p>Up to 25 bar</p> <p>Air max. 130 m<sup>3</sup>/h</p> <p><b>NV</b></p> <p>DIN EN ISO 5175-2</p>		G 1/8 RH	IG → IG	100145001
		G 1/4 RH	IG → IG	100145002
		G 3/8 RH	IG → IG	100145003
		1/4" NPT	IG → IG	100145005
		3/8" NPT	IG → IG	100145007


NV 150		connection	inlet → outlet	order no.
<p><b>NEW</b></p>  <p>Flow-optimised valve system causes very low pressure drop at minimal noise emission</p> <p>Up to 16 bar</p> <p>Air max. 800 m<sup>3</sup>/h</p> <p><b>NV</b></p> <p>DIN EN ISO 5175-2</p> <p>also available in stainless steel, see p. 48</p>		G 1/2 RH	IG → IG	034-003


NV 200		connection	inlet → outlet	order no.	
 <p>Up to 16 bar</p> <p>Air max. 1,900 m<sup>3</sup>/h</p> <p><b>NV</b></p> <p>DIN EN ISO 5175-2</p> <p>also available with „smart-option“ for connected manufacturing</p> <p>also available in stainless steel, see p. 48</p>		G 1/2 RH	IG → IG	200037008	
		G 3/4 RH	IG → IG	200037009	
		G 1 RH	IG → IG	200037010	
		1/2" NPT	IG → IG	200037069	
		3/4" NPT	IG → IG	200037075	
		1" NPT	IG → IG	200037068	


[FA] = flame arrester [NV] = non-return valve [TV] = temperature controlled cut-off valve [PV] = pressure controlled cut-off valve  
 Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 75/76.

# 15. NON-RETURN VALVES

NV 600 H		connection	inlet → outlet	order no.
 <p>Up to 40 bar</p> <p><input type="checkbox"/> NV</p> <p>DIN 8521-2</p> <p>also available in stainless steel, see p. 49</p>		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		connection	inlet → outlet	order no.
 <p>Up to 16 bar</p> <p>Air max. 1,220 m<sup>3</sup>/h</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p> <p>pipeline fittings see p. 35</p>		<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

NV 300		connection	inlet → outlet	order no.
 <p>Up to 16 bar</p> <p>Air max. 3,260 m<sup>3</sup>/h</p> <p><input type="checkbox"/> NV</p> <p>DIN 8521-2</p> <p>also available in stainless steel, see p. 49</p>		G 1 RH	IG → IG	300038002
		G 1.1/4 RH	IG → IG	300038031
		1" NPT	IG → IG	300038058
		1.1/4" NPT	IG → IG	300038065
		DN 32 / PN 40	loose flange (with O-ring)	300038A009

NV 400		connection	inlet → outlet	order no.
 <p>Up to 16 bar</p> <p>Air max. 8,100 m<sup>3</sup>/h</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p> <p>also available in stainless steel, see p. 49</p>		G 1.1/2 RH	IG → IG	400038024
		G 2 RH	IG → IG	400038008
		1.1/2" NPT	IG → IG	400038062
		2" NPT	IG → IG	400038045
		DN 40 / PN 40	loose flange (with O-ring)	400038A005
		DN 50 / PN 40	loose flange (with O-ring)	400038A006
		DN 65 / PN 40	loose flange (with O-ring)	400038A007
		DN 80 / PN 40	loose flange (with O-ring)	400038A008

29/11/2018

# 15. NON-RETURN VALVES

## NV 400

intermediate flange version



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

**Air max. 8,100 m³/h**

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 49

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

## NV 800



**Up to 10 bar**

**Air max. 14,000 m³/h**

NV

DIN 8521-2

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

## NV 2000



**Up to 10 bar**

**Air max. 26,800 m³/h**

NV

DIN 8521-2

to be mounted vertically in bottom-up flow direction

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


29/11/2018


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


Our brochure explains all of the important safety components of the central gas supply, and gives further information about the WITT product groups, e.g.:


Download brochure „Central gas supply“ at [www.wittgas.com](http://www.wittgas.com)



SV 805								
 <p>Option: adapter for ventilation pipe</p>	<p><b>For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units up to 45 bar</b></p> <ul style="list-style-type: none"> <li>- CE 0045</li> <li>- certified by TÜV as Category IV (Modules B &amp; D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU</li> <li>- also available: „smart-option“ for connected manufacturing</li> <li>- also available in stainless steel, see p. 50</li> </ul>	<p><b>SV 805</b></p> <p>pressure settings:                      &gt; 0,5 ≤ 45 bar                      various connections available</p>	<p><b>order no.</b></p> <p>200-___                      (in accordance with pressure-setting)</p>					
		<p>special sealing compound, surcharge</p> <p>„smart-option“, surcharge transmitting, if valve is open or closed</p> <p><b>Adapter to connect venting pipes and safety relief valve SV 805, including o-ring</b></p> <table border="1"> <tr> <td>M 24x1 AG → 1/2" NPT IG</td> <td>801413600K</td> </tr> <tr> <td>M 24x1 AG → G 1/2 AGS</td> <td>802069800K</td> </tr> <tr> <td>M 24x1 AG → 3/4" NPT IG</td> <td>802124900K</td> </tr> </table>	M 24x1 AG → 1/2" NPT IG	801413600K	M 24x1 AG → G 1/2 AGS	802069800K	M 24x1 AG → 3/4" NPT IG	802124900K
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			
	<p><b>For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units - manual ventilation- up to 45 bar</b></p> <ul style="list-style-type: none"> <li>- CE 0045</li> <li>- certified by TÜV as Category IV (Modules B &amp; D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU</li> <li>- also available in stainless steel, see p. 50</li> </ul>	<p><b>SV 805A</b></p> <p>with venting tool for manual ventilation, outlet: 1/2 NPT IG</p>	<p><b>order no.</b></p> <p>200A-___                      (in accordance with pressure-setting)</p>
		<p>pressure settings:                      &gt; 0,5 ≤ 45 bar                      various connections available</p> <p>special sealing compound, surcharge</p>	


AV 815																															
	<p><b>Safety relief valve for acetylene - only to be used in connection with manifold pressure regulators conform to DIN EN ISO 7291</b></p>	<p><b>outlet pressure</b></p>	<p><b>blow-off flow</b></p>	<p><b>opening pressure</b></p>	<p><b>order no.</b></p>																										
		<table border="1"> <tr> <td>0.6 bar</td> <td>50 m<sup>3</sup>/h</td> <td>0,75 bar</td> <td>200-277</td> </tr> <tr> <td>0.7 bar</td> <td>60 m<sup>3</sup>/h</td> <td>0,95 bar</td> <td>200-353</td> </tr> <tr> <td>0.8 bar</td> <td>65 m<sup>3</sup>/h</td> <td>1,25 bar</td> <td>200-354</td> </tr> <tr> <td>0.9 bar</td> <td>70 m<sup>3</sup>/h</td> <td>1,25 bar</td> <td>200-355</td> </tr> <tr> <td>1.1 bar</td> <td>72 m<sup>3</sup>/h</td> <td>1,55 bar</td> <td>200-356</td> </tr> <tr> <td>1.5 bar</td> <td>75 m<sup>3</sup>/h</td> <td>1,90 bar</td> <td>200-278</td> </tr> <tr> <td>2.0 bar</td> <td>90 m<sup>3</sup>/h</td> <td>2,50 bar</td> <td>200-279</td> </tr> </table>	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	
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																												
		<p>connections:                      G 1/2 AG → M24 x 1 IG</p>																													

AV 319			
	<p><b>For blowing-off gases and vapours from receivers, pipelines and other parts of the installation</b></p> <p>brass</p> <p>also available in stainless steel, see p. 50</p>	<p><b>pressure settings</b></p> <p>10 - 80 mbar</p>	<p><b>order no.</b></p> <p>120-___                      (according to pressure-setting)</p>
		<p>individual TÜV approval for the set opening pressure</p> <p>connections:                      G 1/8 RH AG-IG</p>	

29/11/2018

# 16. SAFETY RELIEF VALVES

AV 619								
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>also available in stainless steel, see p. 50</p>							
	<table border="0"> <tr> <td><b>pressure settings</b></td> <td><b>order no.</b></td> </tr> <tr> <td>5 - 500 mbar</td> <td>300-___ (in accordance with pressure-setting)</td> </tr> <tr> <td>individual TÜV approval for the set opening pressure</td> <td></td> </tr> <tr> <td>connections: G1/2, G3/4, G1 RH IG NPT 1/2", 3/4", 1" IG</td> <td></td> </tr> </table>	<b>pressure settings</b>	<b>order no.</b>	5 - 500 mbar	300-___ (in accordance with pressure-setting)	individual TÜV approval for the set opening pressure		connections: G1/2, G3/4, G1 RH IG NPT 1/2", 3/4", 1" IG
<b>pressure settings</b>	<b>order no.</b>							
5 - 500 mbar	300-___ (in accordance with pressure-setting)							
individual TÜV approval for the set opening pressure								
connections: G1/2, G3/4, G1 RH IG NPT 1/2", 3/4", 1" IG								



AV 919								
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>aluminum anodised</p> <p>also available in stainless steel, see p. 50</p>							
	<table border="0"> <tr> <td><b>pressure settings</b></td> <td><b>order no.</b></td> </tr> <tr> <td>5 - 500 mbar</td> <td>400-___ (in accordance with pressure-setting)</td> </tr> <tr> <td>individual TÜV approval for the set opening pressure</td> <td></td> </tr> <tr> <td>connections: G2 RH IG NPT 2", 1.1/2" IG</td> <td></td> </tr> </table>	<b>pressure settings</b>	<b>order no.</b>	5 - 500 mbar	400-___ (in accordance with pressure-setting)	individual TÜV approval for the set opening pressure		connections: G2 RH IG NPT 2", 1.1/2" IG
<b>pressure settings</b>	<b>order no.</b>							
5 - 500 mbar	400-___ (in accordance with pressure-setting)							
individual TÜV approval for the set opening pressure								
connections: G2 RH IG NPT 2", 1.1/2" IG								

29/11/2018

## “Our Safety Relief Valves with „smart-option“: remote monitoring means complete visibility and improved safety

The concept is part of the vision "Industry 4.0": The individual elements of a process communicate their parameter values to a control unit. In this way, functions can be remotely monitored and errors can be detected and corrected at an early stage.

With the "smart-option" on your safety relief valves you are always aware of any safety issues.

<p>28 September 2017 10:15</p> <p>Safety Relief Valve SV805_digi</p> <p>Position: 23F plant overview ▶</p>	<p>28 September 2017 10:15</p> <p>Safety Relief Valve SV805_digi</p> <p>Position: 23F plant overview ▶</p>
 <p><b>state:</b></p> <p><b>closed</b></p> <p>opening pressure 20 bar</p>	 <p><b>state:</b></p> <p><b>open</b></p> <p>opening pressure 20 bar</p>
<p><b>last opening:</b></p> <p><b>08/18/2017 18:20</b></p> <p>Data log opening events:</p> <ul style="list-style-type: none"> <li>18.8.2017 07:56 open</li> <li>11.8.2017 05:33 open</li> <li>03.8.2017 11:40 open</li> <li>28.7.2017 02:08 open</li> <li>17.7.2017 14:15 open</li> <li>11.7.2017 06:22 open</li> <li>10.7.2017 18:40 open</li> <li>24.6.2017 10:30 open</li> </ul>	<p><b>last opening:</b></p> <p><b>08/18/2017 18:20</b></p> <p>Data log opening events:</p> <ul style="list-style-type: none"> <li>18.8.2017 07:56 open</li> <li>11.8.2017 05:33 open</li> <li>03.8.2017 11:40 open</li> <li>28.7.2017 02:08 open</li> <li>17.7.2017 14:15 open</li> <li>11.7.2017 06:22 open</li> <li>10.7.2017 18:40 open</li> <li>24.6.2017 10:30 open</li> </ul>

# 17. STAINLESS STEEL DEVICES

## Series RF53N-ES



**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

DIN EN ISO 5175-1

## flashback arrestor

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

### F53N-ES

for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:

1/4" NPT	IG → IG	145-227
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### F53N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):

1/4" NPT	IG → IG	145-106
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### RF53N-ES

for fuel gases (e.g. hydrogen up to 3 bar) or oxygen:

1/4" NPT	IG → IG	145-262
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3/8" NPT	IG → IG	145-024
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3/8 LH	MG → AGS	145-246
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7/8" - 14 UNF VCR	AG → AG	145-142
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### RF53N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):

1/4" NPT	IG → IG	145-107
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3/8" NPT	IG → IG	145-121
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3/8 LH	MG → AGS	145-232
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## Series RF85-10N-ES



**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

DIN EN ISO 5175-1

## flashback arrestor

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

### F85-10N-ES

for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:

1/4" NPT	IG → IG	143-149
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### 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
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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
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3/8 LH	MG → AGS	143-054
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### RF85-10N/H-ES

for fuel gases (e.g. hydrogen up to 10 bar):

1/4" NPT	IG → IG	143-077
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3/8" NPT	IG → IG	143-087
----------	---------	---------

7/8" - 14 UNF VCR	AG → AG	143-076
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3/8 LH	MG → AGS	143-078
--------	----------	---------

## RF85-20N-ES



Air max. 360 m<sup>3</sup>/h

FA NV TV


DIN EN ISO 5175-1


## flashback arrestor


connection	inlet → outlet	order no.
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for fuel gases (e.g. acetylene up to 2 bar) or oxygen:

1/2" NPT	IG → IG	149-009
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Series RF85-30N-ES		flashback arrestor																											
	<b>RF85-30N-ES:</b> Air max. 1,150 m <sup>3</sup> /h <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV	<table border="1"> <thead> <tr> <th>connection</th> <th>inlet → outlet</th> <th>order no.</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>RF85-30N-ES</b></td> </tr> <tr> <td colspan="3">for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:</td> </tr> <tr> <td>3/4" NPT</td> <td>IG → IG</td> <td>147-071</td> </tr> <tr> <td>1" NPT</td> <td>IG → IG</td> <td>147-092</td> </tr> <tr> <td colspan="3"><b>RF85-30N/H-ES</b></td> </tr> <tr> <td colspan="3">for fuel gases (e.g. hydrogen up to 11 bar):</td> </tr> <tr> <td>1 NPT</td> <td>IG → IG</td> <td>147-047</td> </tr> <tr> <td>3/4" NPT</td> <td>IG → IG</td> <td>147-039</td> </tr> </tbody> </table>	connection	inlet → outlet	order no.	<b>RF85-30N-ES</b>			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	<b>RF85-30N/H-ES</b>			for fuel gases (e.g. hydrogen up to 11 bar):			1 NPT	IG → IG	147-047	3/4" NPT	IG → IG	147-039
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1 NPT	IG → IG	147-047																											
3/4" NPT	IG → IG	147-039																											
<b>RF85-30N/H-ES:</b> Air max. 310 m <sup>3</sup> /h <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV  DIN EN ISO 5175-1																													

Safety Group 645		RF85-30N-ES (2- or 4-fold)																								
	<b>Parallel connection from 2 or 4 flashback arrestors model RF85-30-ES, ideal for high consumption and high flows</b>  Acetylene max. 392 m <sup>3</sup> /h Fuel gases max. 2740 m <sup>3</sup> /h Oxygen max. 1850 m <sup>3</sup> /h  DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV	<table border="1"> <thead> <tr> <th>connection</th> <th>inlet → outlet</th> <th>order no.</th> </tr> </thead> <tbody> <tr> <td colspan="3">for fuel gases:</td> </tr> <tr> <td>DN 50 (2fold)</td> <td>flange DIN 2633</td> <td>182-045B</td> </tr> <tr> <td>DN 50 (4fold)</td> <td>flange DIN 2633</td> <td>182-042B</td> </tr> <tr> <td>2" NPT (4fold)</td> <td>IG → IG</td> <td>182-030B</td> </tr> <tr> <td colspan="3">for oxygen:</td> </tr> <tr> <td>DN 50 (2fold)</td> <td>flange DIN 2633</td> <td>182-045O</td> </tr> <tr> <td>DN 50 (4fold)</td> <td>flange DIN 2633</td> <td>182-042O</td> </tr> </tbody> </table>	connection	inlet → outlet	order no.	for fuel gases:			DN 50 (2fold)	flange DIN 2633	182-045B	DN 50 (4fold)	flange DIN 2633	182-042B	2" NPT (4fold)	IG → IG	182-030B	for oxygen:			DN 50 (2fold)	flange DIN 2633	182-045O	DN 50 (4fold)	flange DIN 2633	182-042O
	connection	inlet → outlet	order no.																							
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DN 50 (2fold)	flange DIN 2633	182-045O																								
DN 50 (4fold)	flange DIN 2633	182-042O																								

F100N-ES		flashback arrestor												
	Air max. 32 m <sup>3</sup> /h <input type="checkbox"/> FA <input type="checkbox"/> TV  DIN EN ISO 5175-1	<table border="1"> <thead> <tr> <th>connection</th> <th>inlet → outlet</th> <th>order no.</th> </tr> </thead> <tbody> <tr> <td colspan="3">for hydrogen (up to 17 bar):</td> </tr> <tr> <td>1/2" NPT</td> <td>IG → IG</td> <td>210000012</td> </tr> <tr> <td>7/8" - 14 UNF VCR</td> <td>AG → AG</td> <td>210000019</td> </tr> </tbody> </table>	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
	connection	inlet → outlet	order no.											
for hydrogen (up to 17 bar):														
1/2" NPT	IG → IG	210000012												
7/8" - 14 UNF VCR	AG → AG	210000019												

F53		detonation/deflagration flame arrestor and volume protection															
	<b>As flame arrestor ideal for mounting in pipelines up to DN 10 and to protect appliances, e.g. gas analysers.</b>  <b>The volume protection device is ideal for protection of plants and equipment with a volume of max. 4.6 l.</b>  <input type="checkbox"/> FA  DIN EN ISO 16852	<table border="1"> <thead> <tr> <th>connection</th> <th>inlet → outlet</th> <th>order no.</th> </tr> </thead> <tbody> <tr> <td colspan="3">detonation and deflagration flame arrestor F53:</td> </tr> <tr> <td>G 1/4"</td> <td>IG → IG</td> <td>145-258</td> </tr> <tr> <td colspan="3">detonation and deflagration volume protection device F53:</td> </tr> <tr> <td>G 1/4" - M12</td> <td>IG → AG</td> <td>145-250</td> </tr> </tbody> </table>	connection	inlet → outlet	order no.	detonation and deflagration flame arrestor F53:			G 1/4"	IG → IG	145-258	detonation and deflagration volume protection device F53:			G 1/4" - M12	IG → AG	145-250
	connection	inlet → outlet	order no.														
detonation and deflagration flame arrestor F53:																	
G 1/4"	IG → IG	145-258															
detonation and deflagration volume protection device F53:																	
G 1/4" - M12	IG → AG	145-250															

29/11/2018

# 17. STAINLESS STEEL DEVICES

## 654-ES

### non-return valve



Up to 60 bar  
(O<sub>2</sub> up to 30 bar)

Air max. 130 m<sup>3</sup>/h

NV

DIN EN ISO 5175-2

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

## R53-ES

### non-return valve



Up to 25 bar

Air max. 130 m<sup>3</sup>/h

NV

DIN EN ISO 5175-2

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

## NV 150-ES

### non-return valve

**NEW**



Flow-optimised valve system causes very low pressure drop at minimal noise emission

Up to 16 bar

Air max. 800 m<sup>3</sup>/h

NV

DIN EN ISO 5175-2

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

## NV 600-ES

### non-return valve



Up to 16 bar

Air max. 1,900 m<sup>3</sup>/h

NV

DIN EN ISO 5175-2

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



# 17. STAINLESS STEEL DEVICES

## NV 600H-ES

non-return valve



Up to 40 bar

DIN 8521-2

NV

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

## NV 338-ES

non-return valve



Up to 16 bar

Air max. 3.260 m<sup>3</sup>/h

NV

DIN 8521-2

connection	inlet → outlet	order no.
G 1 RH	IG → IG	038-064

## NV 339-ES

non-return valve



Up to 16 bar

Air max. 8.100 m<sup>3</sup>/h

NV

DIN EN ISO 5175-2

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

339-ES  
Intermediate flange version

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

## NV 800-ES


non-return valve





Up to 300 bar


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


## 17. STAINLESS STEEL DEVICES


SV 805-ES		safety relief valve	
 <p>Option: adapter for ventilation pipe</p>	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>up to 45 bar</p> <p>optional: adapter for ventilation pipe</p> <p><b>CE0045</b></p>	<p><b>SV 805-ES</b></p> <p>pressure settings:</p> <p>&gt; 0,5 ≤ 45 bar</p> <p>with standard connection, stainless steel 1.4541</p> <p>with standard connection, stainless steel 316L/1.4404</p> <p>with VCR connection, stainless steel 1.4541</p> <p>with VCR connection, stainless steel 316L/1.4404</p> <p>special sealing compound, surcharge</p>	<p><b>order no.</b></p> <p>200-__ _</p>
		<p><b>Adapter to connect venting pipes to SV 805-ES</b></p> <p>connections M 24x1 AG → 1/2" NPT IG, st. steel 1.4541</p> <p>connections M 24x1 AG → 1/2" NPT VCR AG, st. steel 1.4404</p>	<p>801727800K</p> <p>801693000K</p>

SV 805A-ES		safety relief valve	
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>- manual ventilation -</p> <p>up to 45 bar</p> <p><b>CE0045</b></p>	<p><b>SV 805A-ES</b></p> <p>with venting tool for manual ventilation, outlet: 1/2 NPT IG</p> <p>pressure settings:</p> <p>&gt; 0,5 ≤ 45 bar</p> <p>with standard connection, stainless steel 1.4541</p> <p>with VCR connection, stainless steel 1.4541</p> <p>special sealing compound, surcharge</p>	<p><b>order no.</b></p> <p>200A-__ _</p>

SV 811L		safety relief valve	
	<p><b>Spring loaded, direct acting pressure relief valve for hydrogen-powered motor vehicles in accordance with the European regulation (EC) No. 79/2009, as implemented by regulation (EC) No. 406/2010</b></p> <p>up to 45 bar</p>	<p><b>pressure settings</b></p> <p>&gt; 4,5 - 45 bar</p> <p>diff. connections</p>	<p><b>order no.</b></p> <p>200AU-L__ _</p> <p>(in accordance with pressure-setting)</p>

AV 319-ES		safety relief valve	
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p>	<p><b>pressure settings</b></p> <p>10 - 80 mbar</p> <p>individual TÜV approval for the set opening pressure</p> <p>connections:</p> <p>G 1/8 RH IG</p>	<p><b>order no.</b></p> <p>120-__ _</p> <p>(depending on pressure-setting)</p>

AV 619-ES		safety relief valve	
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>up to 500 mbar</p>	<b>pressure settings</b> 5 - 500 mbar	<b>order no.</b> 300-___ (depending on pressure-setting)
		individual TÜV approval for the set opening pressure	
		<b>connections:</b> G1/2, G3/4, G1 RH IG      IG → IG 1/2", 3/4", 1" NPT        IG → IG	

AV 919-ES		safety relief valve	
	<p><b>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</b></p> <p>up to 500 mbar</p>	<b>pressure settings</b> 5 - 500 mbar	<b>order no.</b> 400-___ (depending on pressure-setting)
		individual TÜV approval for the set opening pressure	
		<b>connections:</b> G2 RH IG NPT 2", 1.1/2" IG	

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


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


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


Read about all of our models, their functions and benefits in our brochure.


Download brochure „Safety Relief Valves“ at ► [www.wittgas.com](http://www.wittgas.com)

# 18. PRESSURE REGULATORS

Pressure regulator		for outlet points		
 <p><b>To be connected directly to the outlet point</b></p> <ul style="list-style-type: none"> <li>displays pressure and flow via manometer and/or variable area flow meter</li> <li>inlet MG, outlet AGS</li> </ul>	<b>connections</b>	<b>manometer display</b>	<b>order no.</b>	
	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)</b>		
	<b>argon, mixed gases and CO<sub>2</sub></b>			
	G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524100	
	<b>flow display (variable area flow meter)</b>			
	<b>argon, mixed gases and CO<sub>2</sub></b>			
	G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524000	

Pressure regulator		for cylinders		
 <p><b>To be connected directly to the cylinder (200 bar), single-level</b></p> <ul style="list-style-type: none"> <li>displays pressure and flow via manometer and/or variable area flow meter</li> <li>inlet DIN 477, outlet AGS</li> </ul>	<b>connections</b>	<b>manometer display</b>	<b>order no.</b>	
	clamp → G 3/8 LH	acetylene 0-1.5 bar	044113400	
	DIN 477 → G 1/4 RH	oxygen 0-10 bar	044227500	
	DIN 477 → G 1/4 RH	nitrogen 0-10 bar	044525500	
	DIN 477 → G 1/4 RH	argon or CO <sub>2</sub> 0-10 bar	044525600	
		<b>flow display (manometer)</b>		
	<b>argon, mixed gases and CO<sub>2</sub></b>			
	DIN 477 → G 1/4 RH	0 - 30 l/min	044525700	
	<b>flow display (variable area flow meter)</b>			
	<b>argon, mixed gases and CO<sub>2</sub></b>			
	DIN 477 → G 1/4 RH	0 - 30 l/min	044525800	

ADR 150		manifold pressure regulator for acetylene		
 <p><b>Powerful dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles</b></p> <ul style="list-style-type: none"> <li>optimal emptying of the bundle because of very low pressure difference</li> <li>extremely stable outlet pressure</li> <li>integrated blow-off valve</li> <li>flow capacity up to 150 m<sup>3</sup>/h</li> </ul>	<b>connections</b>	<b>inlet pressure</b>	<b>outlet pressure</b>	<b>order no.</b>
	DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-002
	special edition up to 2 bar outlet pressure available (on demand)			

ADR 150 F		manifold pressure regulator for acetylene		
 <p><b>Spring loaded dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles</b></p> <p>Features - see ADR150, except: no pilot gas required</p>	<b>connections</b>	<b>inlet pressure</b>	<b>outlet pressure</b>	<b>order no.</b>
	DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-010

29/11/2018

## Dome Pressure Regulators

### series 737LE



737LE



737LE-ES



737LE/S



737LE/S-ES

BRASS

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

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

G 3/4" IG    60 bar    0,5-10 bar    278-091

**model 737LE/S (brass), set**

G 3/4" IG    60 bar    0,5-10 bar    292-0006  
 3/4" NPT IG    60 bar    0,5-10 bar    292-0072

STAINLESS STEEL

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

G 3/4" IG    60 bar    0,5-10 bar8-108

**model 737LE/S-ES (stainless steel), set**

G 3/4" IG    60 bar    0,5-10 bar    292-0046  
 3/4" NPT IG    60 bar    0,5-10 bar    292-0096

„smart-option“, surcharge  
 for the transmission of pressure and temperature data as well as the calculated flow

### series 737LE-HD (high pressure model)



737LE-HD



737LE-HD-ES



737LE-HD/S



737LE-HD/S-ES

BRASS

**model 737LE-HD (brass), without pilot pressure regulator**    **order no.**

G 3/4" IG - 1" IG    300 bar    0,5-60 bar    278-116

**model 737LE-HD/S (brass), set**

G 3/4" IG - 1" IG    300 bar    0,5-60 bar    292-0004  
 3/4" NPT IG - 1" NPT IG    300 bar    0,5-60 bar    292-0069

**model 737LE-HD/S (brass), set - especially for CO<sub>2</sub>**

G 3/4" IG - 1" IG0 bar    0,5-26 bar    292-0058

STAINLESS STEEL

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

G 3/4" IG - 1" IG    300 bar    0,5-60 bar    278-117

**model 737LE-HD/S-ES (stainless steel), set**

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

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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 57)
- easy to install and to be integrated into the process
- 1: 1 interchangeable with the previous version (please specify if desired)

\*depending on type of gas

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



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

Watch our new video and learn why they show such a unique performance. Find out about highly diverse application and customization possibilities.

See also:

▶ [www.domepressureregulators.com](http://www.domepressureregulators.com)

## Dome Pressure Regulators

### series 747LE



747LE



747LE-ES



747LE/S



747LE/S-ES

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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 57)
- easy to install and to be integrated into the process
- also available with „smart-option“ for the transmission of pressure, temperature and flow

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

**model 747LE (brass), without pilot pressure regulator**

G 1" IG	40 bar	0,5-30 bar	278-088
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**model 747LE/S (brass), set**

G 1" IG	40 bar	0,5-10 bar	292-0002
G 1" IG	40 bar	0,5-30 bar	292-0009
1" NPT IG	40 bar	0,5-10 bar	292-0102
1" NPT IG	40 bar	0,5-30 bar	292-0031

BRASS

**mounting parts (brass):**

O-ring	7901-026
gas filter	956.953200
flange connection DIN DN32/PN40 (O-ring sealing)	952.218700
flange DIN DN32/PN40	801.597603
O-ring for flange DN32	7901-132
O-ring for flange G1"	7901-072
gasket for flange	950.026200
double nipple G1" - G 1.1/4"	952.223900
reducing nipple G1" - 1" NPT	953.179500
double nipple G1" - G1"	952.015900
welding nipple AD42 G 1.1/4"	100.015614
fitting G1" - G1"	100.313135
fitting G1" - 1" NPT	100.013283

STAINLESS STEEL

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

G 1" IG	40 bar	0,5-30 bar	278-099
---------	--------	------------	---------

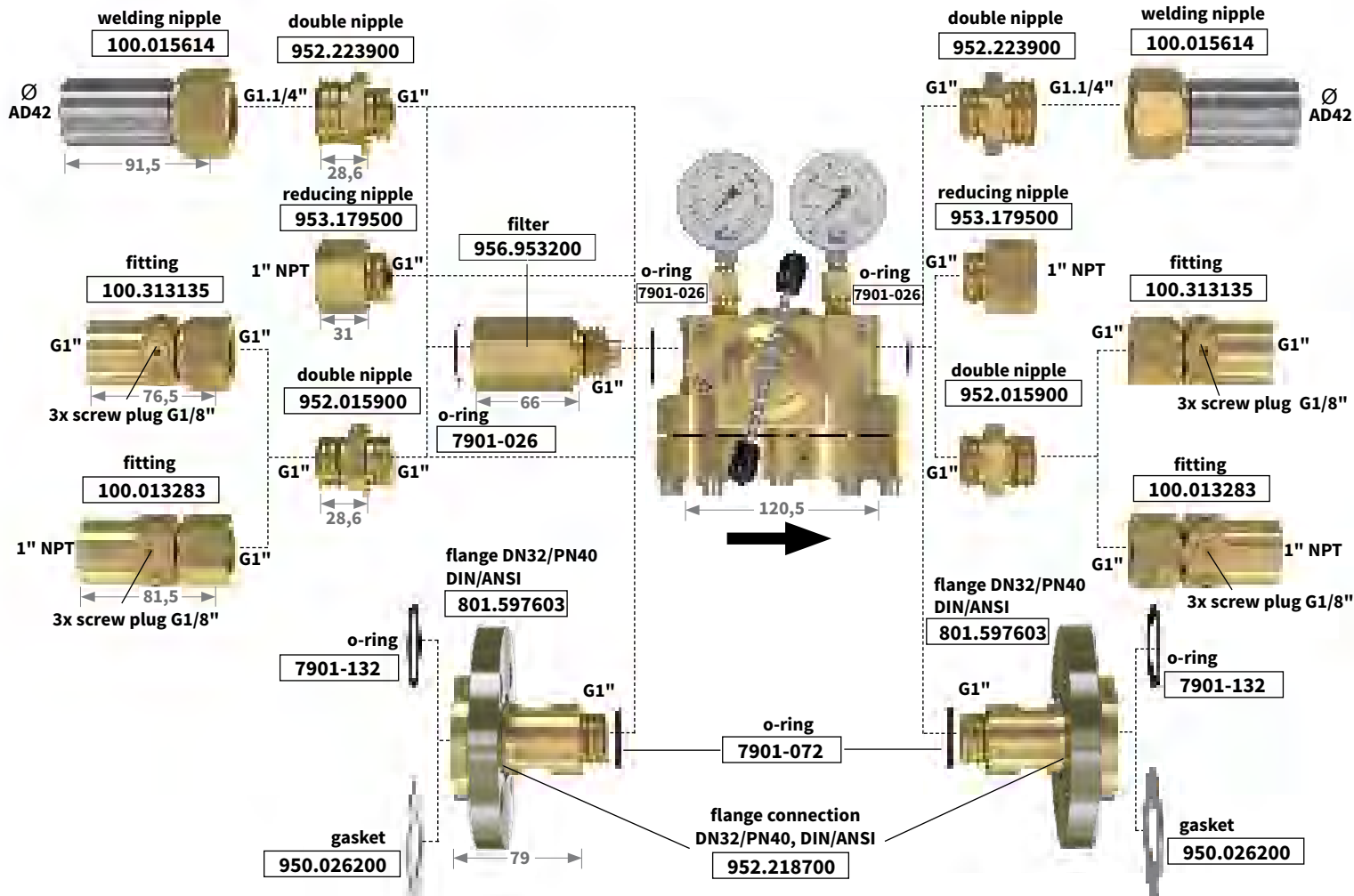
**model 747LE/S-ES (stainless steel), set**

G 1" IG	40 bar	0,5-10 bar	292-0027
G 1" IG	40 bar	0,5-30 bar	292-0028
1" NPT IG	40 bar	0,5-10 bar	292-0109
1" NPT IG	40 bar	0,5-30 bar	292-0109

stainless steel mounting parts on demand

"smart-option", surcharge

\*depending on type of gas



## Dome Pressure Regulators

### series 757LE



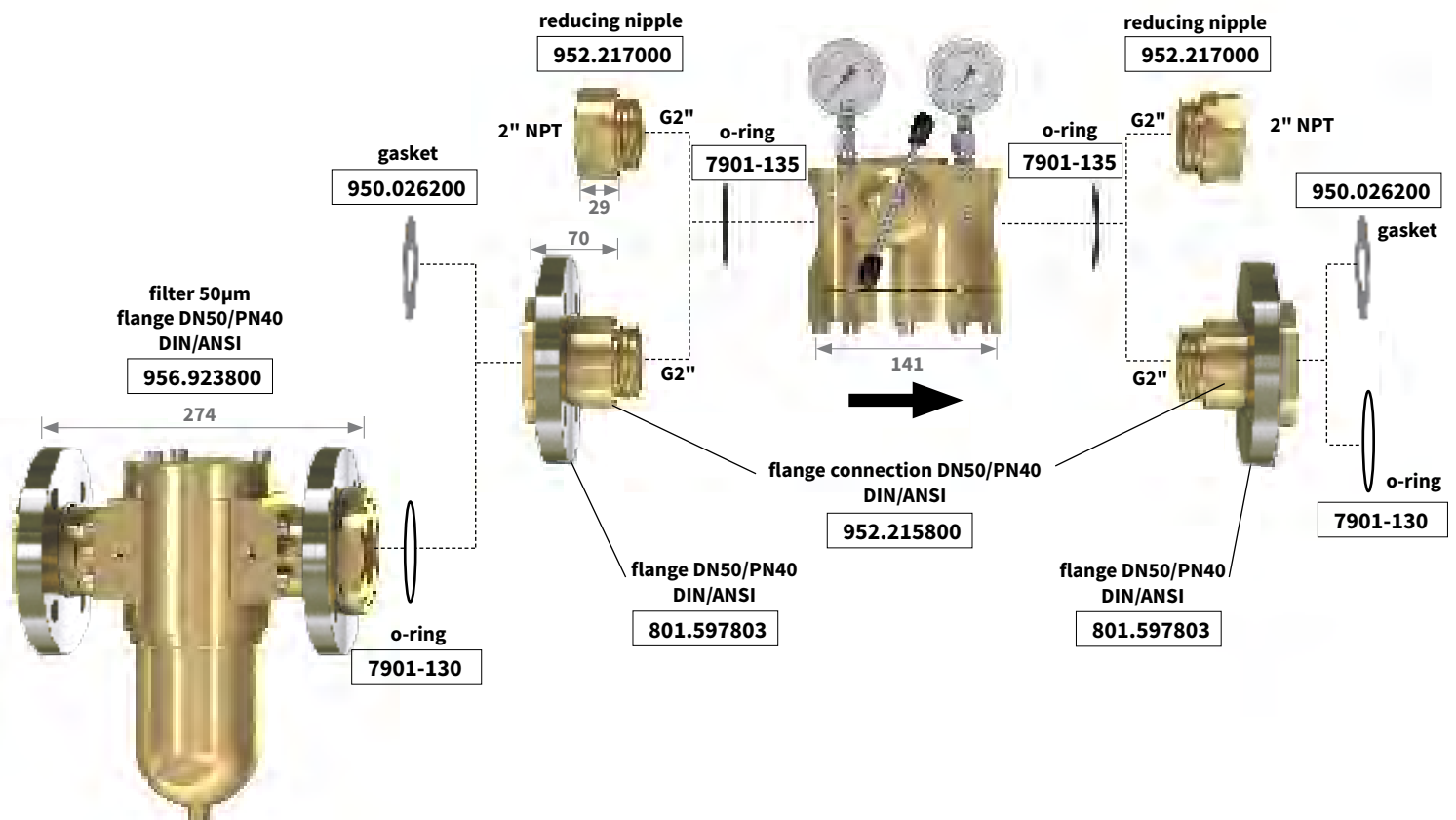
High performance pressure regulators for high flows, with maximum pressure stability. Complete solution for installation in pipelines.

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit p.56)
- also available with „smart-option“ for the transmission of pressure, temperature and flow

	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	<b>model 757LE (brass), without pilot pressure regulator</b>			
	G2" IG	40 bar	0,5-30 bar	278-089
	<b>model 757LE/S (brass), set</b>			
	flange DIN DN 50	40 bar	0,5-10 bar	292-0017
	flange DIN DN 50	40 bar	0,5-30 bar	292-0018
	G2" IG	40 bar	0,5-10 bar	292-0003
	G2" 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
	<b>mounting parts (brass):</b>			
	O-ring for flange G2"			7901-135
	reducing nipple G2" - 2" NPT			952.217000
	flange connection DIN DN50/PN40 (O-ring sealing)			952.215800
	flange DIN DN50/PN40			801.597803
	O-ring for flange DN50			7901-130
	gasket for flange			950.026200
	flange gas filter DIN DN50/PN40			956.923800
STAINLESS STEEL	<b>model 757LE-ES (stainless steel), without pilot pressure regulator</b>			
	G2" IG	40 bar	0,5-30 bar	278-066
	<b>model 757LE/S-ES (stainless steel), set</b>			
	flange DIN DN 50	40 bar	0,5-10 bar	292-0037
	flange DIN DN 50	40 bar	0,5-30 bar	292-___
	G2" IG	40 bar	0,5-10 bar	292-0019
	G2" IG	40 bar	0,5-30 bar	292-___
	2" NPT IG	40 bar	0,5-10 bar	292-0061
	2" NPT IG	40 bar	0,5-30 bar	292-0026
		stainless steel mounting parts on demand		

"smart-option", surcharge

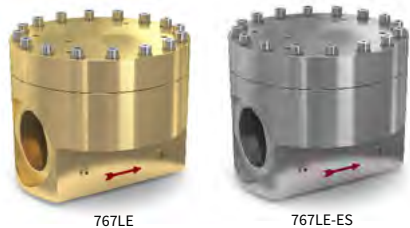
\* depending on type of gas



# 18. PRESSURE REGULATORS

## Dome Pressure Regulators

### series 767LE



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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 57)
- easy to install and to be integrated into the process
- 1: 1 interchangeable with the previous version (please specify if desired)
- "smart-option" - on demand

BRASS

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

**model 767LE (brass), without pilot pressure regulator**

G 3" IG	40 bar	0,5-30 bar	278-090
---------	--------	------------	---------

**model 767LE/S (brass)**

flange DIN DN 80	40 bar	0,5-10 bar	292-0008
flange DIN DN 80	40 bar	0,5-30 bar	292-0005
flange DIN DN 100	40 bar	0,5-10 bar	292-0013
flange DIN DN 100	40 bar	0,5-30 bar	292-0066
G 3" IG	40 bar	0,5-10 bar	292-0011
G 3" IG	40 bar	0,5-30 bar	292-0012
3" NPT IG	40 bar	0,5-10 bar	292-0108
3" NPT IG	40 bar	0,5-30 bar	292-___

**mounting parts:**

o-ring for flange G3"	7901-098
reducing nipple G3" - 3"NPT	952.222700
flange connection DIN DN80/PN40 (O-ring sealing)	953.206800
flange DIN DN80/PN40	801.598003
o-ring for flange DN100	7901-479
flange connection DIN DN100/PN40 (O-ring sealing)	953.209500
flange DIN DN100/PN40	802.560503
o-ring for flange DN80	7901-136
gasket for flange DN80	950.010300

STAINLESS STEEL

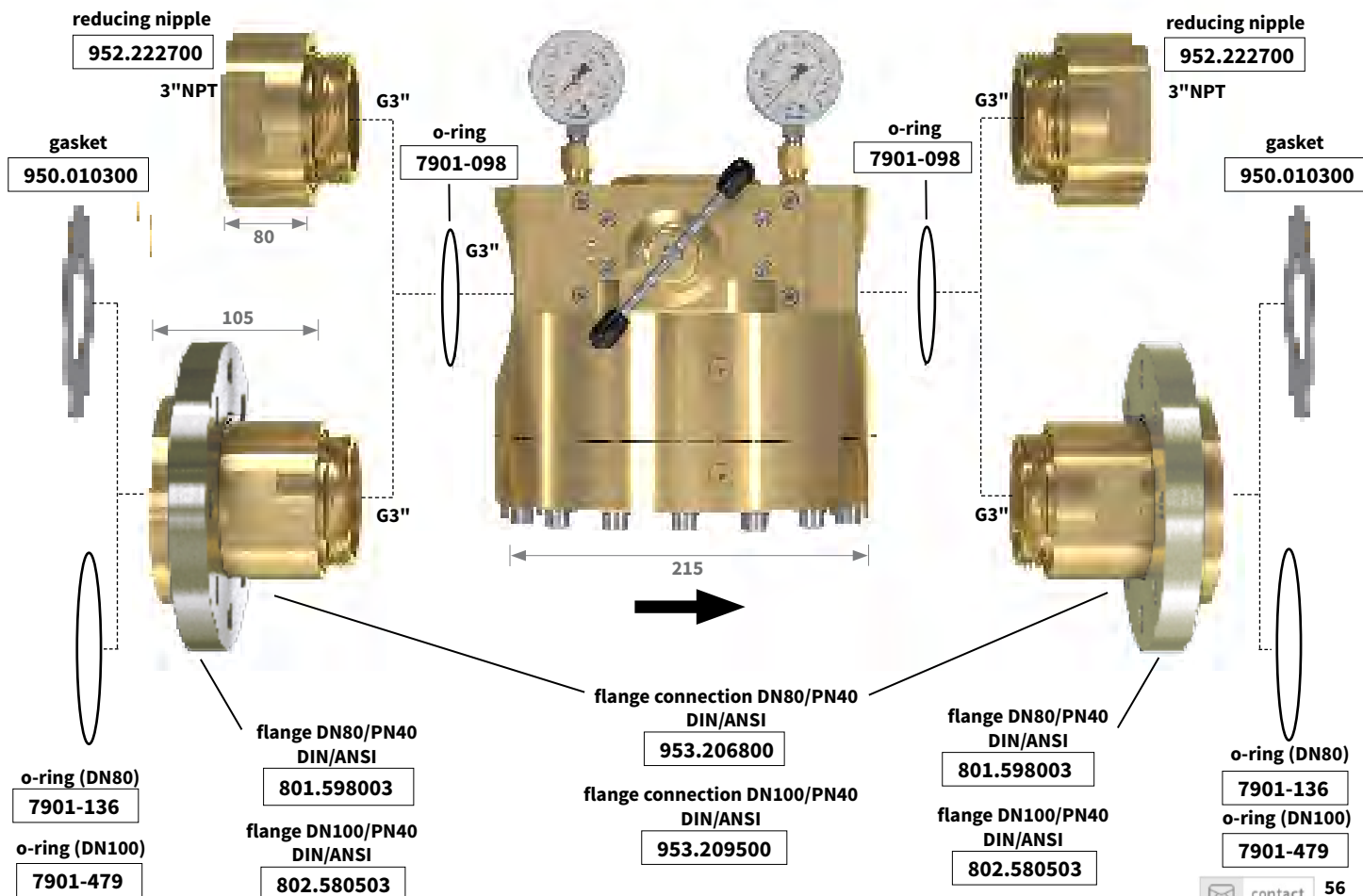
**model 767LE-ES (stainless steel), without pilot pressure regulator**

G 3" IG	40 bar	0,5-30 bar	278-___
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**model 767LE/S-ES (stainless steel)**

flange DIN DN 80	40 bar	0,5-10 bar	292-___
flange DIN DN 80	40 bar	0,5-30 bar	292-___
flange DIN DN 100	40 bar	0,5-10 bar	292-___
flange DIN DN 100	40 bar	0,5-30 bar	292-___
G 3" IG	40 bar	0,5-10 bar	292-___
3" IG	40 bar	0,5-30 bar	292-___
3" NPT IG	40 bar	0,5-10 bar	292-___
3" NPT IG	40 bar	0,5-30 bar	292-___

\* depending on type of gas







# 18. PRESSURE REGULATORS

## Dome Backpressure Regulator



BPR 2



BPR 2-ES

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

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

### BPR 2

connections	adjustable upstream pressure	order no.
-------------	------------------------------	-----------

<b>model BPR 2 (brass)</b> G 2" IG	0,5-20 bar	276-001
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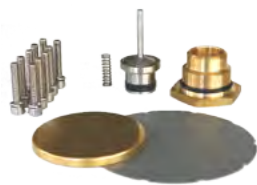
<b>model BPR 2 -ES (stainless steel)</b> G 2" IG	0,5-20 bar	276-__ _
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**mounting parts** see model 757LE (p. 54)

## Accessories



lockable spindle cap



maintenance kit

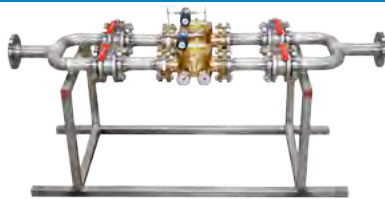
**Accessories for WITT dome pressure regulators**

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

### for dome pressure regulators

	material	order no.
lockable spindle cap	stainless steel	966061400
maintenance kits:		
for model 737LE/S	brass	962.000085
for model 737LE-HD/S	brass	962.000084
for model 747LE/S	brass	962.000067
for model 757LE/S	brass	962.000065
for model 767LE/S	brass	962.000061
for model 737LE/S-ES	stainless steel	962.000087
for model 737LE-HD/S-ES	stainless steel	962.000088
for model 747LE/S-ES	stainless steel	962.000073
for model 757LE/S-ES	stainless steel	962.000086
for model 767LE/S-ES	stainless steel	962.0000__
wall mounting panel for 737LE, 747LE, 757LE	stainless steel	956.248100
wall mounting panel for 767LE	stainless steel	956.247700

## Dome Pressure Regulators



parallel construction with 757LE/S



757LE/S with flange filter

### engineering - planning and installation

#### Individual parallel construction

Example I:

4 ball valves stainless steel DN50/PN40

2 dome pressure regulators 757LE/S

manifold DN50, counter-flange, TÜV-testing, CE labeling

installation on welded mounting frame

Example II:

dome pressure regulator 757LE/S

with flange filter 50 µm filter fineness, for oxygen up to 30 bar

with dirt catcher

delivery completely assembled and tested

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





“For cost-effectiveness, process reliability and real-time monitoring: the smart WITT dome pressure regulator


WITT's dome pressure regulators offer incomparably precise control data. With the smart-option, WITT is now offering electronic transfer of pressure, temperature and flow data in real-time, enabling remote monitoring of the processes - so you can act quickly in the event of a fault.




# 19. MOBILE PRESSURE REGULATING STATIONS

642		pressure regulating station	order no.
	<b>Mobile pressure regulating station, completely mounted and tested, ready-to-use</b> <ul style="list-style-type: none"> <li>for bundles</li> </ul>	oxygen (300 bar/ 0-20 bar)	190211111
		acetylene (25 bar/ 0-1.5 bar)	183112120

643		pressure regulating station	order no.
	<b>Mobile pressure regulating station, completely mounted and tested, ready-to-use</b> <ul style="list-style-type: none"> <li>for bundles with 4-6 integrated outlet points</li> <li>customisations available</li> </ul>	4-outlets oxygen (300 bar/ 0-10 bar)	183000044
		6-outlets oxygen (300 bar/ 0-10 bar)	183000049
		4-outlets acetylene (25 bar/ 0-1.5 bar)	183000045
		6-outlets acetylene (25 bar/ 0-1.5 bar)	183000050

Universal 704		distribution station	order no.
	<b>Mobile pressure regulating station, completely mounted and tested, ready-to-use</b> <ul style="list-style-type: none"> <li>for pipelines or connected to model 642</li> <li>customisations available</li> </ul>	4-outlets oxygen (40 bar/ 0-10 bar) and acetylene (1.5 bar)	183000030
		6-outlets oxygen (40 bar/ 0-10 bar) and acetylene (1.5 bar)	183000031

704 - special edition

Universal V6		distribution station	order no.
	<b>Mobile pressure regulating station, completely mounted and tested, ready-to-use</b> <ul style="list-style-type: none"> <li>for pipelines or connected to model 642</li> <li>customisations available</li> </ul>	6-outlets oxygen (40 bar/ 0-10 bar)	183000153
		6-outlets acetylene (1.5 bar)	183000154

Special designs, higher flow capacities or different pressures on demand. Explanations of thread types, conversion of units of measurement see p. 75/76.

## 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)

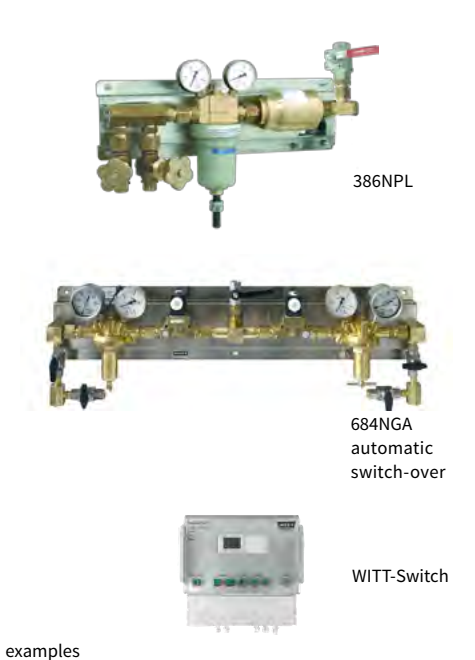
model	connection	flow	order no.
DRS 684NG	single left, +HDS17* (VI)	10 Nm <sup>3</sup> /h	193-015-001
DRS 684NG	single left, +HDS17* (HI)	10 Nm <sup>3</sup> /h	193-016-001
DRS 684NG	single left, no HDS17 (VI)	10 Nm <sup>3</sup> /h	193-001-001
DRS 684NG	single left, no HDS17 (HI)	10 Nm <sup>3</sup> /h	193-006-001
DRS 386NPL	single left (VI)	30 Nm <sup>3</sup> /h	195-001-001
DRS 150NF	single left (VI)	150 Nm <sup>3</sup> /h	190-_____
DRS 684NG	both-sided, +HDS17* (VI)	10 Nm <sup>3</sup> /h	193-003-001
DRS 684NG	both-sided, +HDS17* (HI)	10 Nm <sup>3</sup> /h	193-008-001
DRS 684NG	both-sided, no HDS17 (VI)	10 Nm <sup>3</sup> /h	193-002-001
DRS 684NG	both-sided, no HDS17 (HI)	10 Nm <sup>3</sup> /h	193-007-001
DRS 386NPL	both-sided (VI)	30 Nm <sup>3</sup> /h	195-002-001
DRS 150NF	both-sided (VI)	150 Nm <sup>3</sup> /h	190-_____
DRS 684NGA (compatible with WITT-Switch)			
autom. switch-over, both-sided (VI)		10 Nm <sup>3</sup> /h	193-005-001
autom. switch-over, both-sided (HI)		10 Nm <sup>3</sup> /h	193-010-001
DRS 386NGA (compatible with WITT-Switch)			
autom. switch-over, both-sided (VI)		30 Nm <sup>3</sup> /h	193-012-001
autom. switch-over, both-sided (HI)		30 Nm <sup>3</sup> /h	193-014-001
ZDA, autom. switch-over, both-sided (HI)		30 Nm <sup>3</sup> /h	193-014-003
DRS 150NAFT (including WITT-Switch-Tronic)			
autom. switch-over, both-sided (HI)		150 Nm <sup>3</sup> /h	190-_____

\* shut-off device, see p. 36 (VI) - vertical inlet (HI) - horizontal inlet

options: see below

## Pressure regulation station

### oxygen / other technical gases (300 bar)



#### For safeguarding the continuous central gas supply in a ring pipeline

Pressure regulators in accordance with ISO 7291

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

model	connection	flow	order no.
DRS 684NG	single left (VI)	75 Nm <sup>3</sup> /h	193-001-___
DRS 684NG	single left (HI)	75 Nm <sup>3</sup> /h	193-006-___
DRS 386NPL	single left (VI)	200 Nm <sup>3</sup> /h	195-001-___
DRS 684NG	both-sided (VI)	75 Nm <sup>3</sup> /h	193-002-___
DRS 684NG	both-sided (HI)	75 Nm <sup>3</sup> /h	193-007-___
DRS 386NPL	both-sided (VI)	200 Nm <sup>3</sup> /h	195-002-___
DRS 684NGA			
autom. switch-over both-sided (VI)		75 Nm <sup>3</sup> /h	193-004-___
autom. switch-over both-sided (HI)		75 Nm <sup>3</sup> /h	193-009-___
DRS 386NGA			
autom. switch-over both-sided (VI)		200 Nm <sup>3</sup> /h	193-011-___
autom. switch-over both-sided (HI)		200 Nm <sup>3</sup> /h	193-011-___

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

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

WITT Switch:	
control Unit for automatic switch over stations 684NGA and 386NGA	
menu language German	194-019
menu language English	194-019-01
menu language French	194-019-02

mandatory sign, conforms to type of gas 194-\_\_\_

instruction plate, conforms to type of gas 194-\_\_\_

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

When ordering, please advise which gas.

## 21. OUTLET POINTS

### Series 610



610 - example

#### Outlet point for the supply of technical gases from a ring pipeline, to be mounted at the wall

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

#### order no.

##### mounting plate (completely mounted and tested)

610-1 one gas	290-__
610-2 two gases	290-__
610-3 three gases	290-__

##### ball valves

	male thread	
fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078

##### outlet point pressure regulators

acetylene max. 1.5 bar	044112900
oxygen max. 10 bar	044226300
shielding gas with manometer (0-30 l/min)	044524100
shielding gas with variable area flow meter (0-30 l/min)	044524000

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

### Series 603



603 - example

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

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

#### order no.

##### mounting plate (completely mounted and tested)

603-1 one gas	280-__
603-2 two gases	280-__
603-3 three gases	280-__
603-X extendable at will	

##### ball valves

	male thread	
fuel gases max. 40 bar	G 3/8 RH - G 3/8 LH	198107082
acetylene max. 1.5 bar	G 3/8 RH - G 3/8 LH	198107082
oxygen max. 30 bar	G 3/8 RH	198207072
shielding gas max. 40 bar	G 3/8 RH	198307078

##### outlet points-pressure regulators

acetylene max.1.5 bar	044112900
oxygen max.10 bar	044226300
shielding gas with manometer (0-30 l/min)	044524100
shielding gas with variable area flow meter (0-30 l/min)	044524000

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

## Series 503

## for cutting machines



503 - example

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

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

#### order no.

outlet point 503 3-fold 280030091

1x acetylene, P inlet max. 1.5 bar, max 4,5 m<sup>3</sup>/h  
(inlet welding nipple OD 21.3mm, ball valve DN 10,  
gas filter 622, pressure regulator, flashback arrester 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 arrester 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 arrester 85-10,  
outlet G 3/4 RH male with cone)

29/11/2018

“See our production site...”



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

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

Download at ► [www.wittgas.com](http://www.wittgas.com) or Youtube

### Series 722



test rig 722 + clamp 743

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

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

**order no.**

test set (test rig 722 + clamp 743) 101000013  
 test rig 7221000010  
 clamp 7431000012

inspection plates 801412700

measurement liquid 50 ml (U-tube) 956904000

adapters for other connections on demand



product video and further information on  
 ▶ [www.wittgas.com](http://www.wittgas.com)

29/11/2018

## “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

## 23. EQUIPMENT FOR OXYGEN LANCING

LK		lance holders			
	<p><b>Lance holders for oxygen</b></p> <ul style="list-style-type: none"> <li>for safe and comfortable holding of lance</li> <li>for quick and safe changeover</li> </ul>	<b>model</b>	<b>inlet → outlet (Ø pipe in mm)</b>	<b>order no.</b>	
		LK-3	G 3/4 AGS → 1/8" (9,1 - 10,2)	040996500	
		LK-4	G 3/4 AGS → 1/4" (12,0 - 13,7)	040996200	
		LK-5	G 3/4 AGS → 3/8" (16,0 - 17,2)	040996100	
		LK-6	G 3/4 AGS → 1/2" (20,0 - 21,5)	040996300	
		LK-7	G 1 AGS → 3/4" (26,0 - 27,3)	040687000	
		inlet reducer:			
			G3/8 AGS → G3/4 IG	802339600K	
			G1/2 AGS → G3/4 IG	802339700K	
			G3/4 AGS → G 1 IG	802418700K	

SRV		backfire stop			
	<p><b>Backfire stop with temperature controlled cut-off valve</b></p> <ul style="list-style-type: none"> <li>protects against gas return and flashback</li> <li>combinable with WITT oxygen lancing equipment</li> <li>with copper sealing</li> </ul>	<b>model</b>	<b>inlet → outlet</b>	<b>order no.</b>	
		SRV-2.1	3/4" AGS → 3/4" IG (up to LK 4)	040996400	
		SRV-2.2	3/4" AGS → 3/4" IG (from LK 5)	040686100	
		SRV-3	1" AGS → 1" IG (from LK 7)	040686200	
		inlet reducer:			
			G3/8 AGS → G3/4 IG	802339600K	
			G1/2 AGS → G3/4 IG	802339700K	
			G3/4 AGS → G 1 IG	802418700K	

GHV		safety lancing valve		
	<p><b>Safety lancing valve with lever operation</b></p> <ul style="list-style-type: none"> <li>lever valve for an immediate interruption of gas supply when let go</li> <li>combinable with WITT oxygen lancing equipment</li> </ul>	<b>model</b>	<b>inlet → outlet</b>	<b>order no.</b>
		GHV	G 3/4 AGS → G 3/4 MG	040210200

KLK		lance holder compact		
	<p><b>Compact lance holder, with integrated lever valve, non-return valve and temperature controlled cut-off valve</b></p> <ul style="list-style-type: none"> <li>combination of several safety elements in one device</li> <li>compact and ergonomic</li> </ul>	<b>model</b>	<b>inlet → outlet (Ø pipe in mm)</b>	<b>order no.</b>
		KLK-4	G 3/4 AGS → 1/4" (12,0 - 13,7)	040210400
		KLK-5	G 3/4 AGS → 3/8" (16,0 - 17,2)	040210500
		KLK-6	G 3/4 AGS → 1/2" (20,0 - 21,5)	040210600



## 23. EQUIPMENT FOR OXYGEN LANCING

### Shut-off valve



#### Shut-off valve for oxygen

- for the manual interruption of gas supply

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

29/11/2018

## “From the outlet point to the lance...”

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




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


For an overview of our support material see p. 76-77







## 24. GAS FILTERS


622		model	connections	order no.
 <p>Modell C</p>	<p><b>For reliable protection against contamination by ultrafine filtering of particulates (approx. 40 µm)</b></p> <ul style="list-style-type: none"> <li>• broad range of uses</li> <li>• change of filter possible while installed</li> <li>• high flowrate</li> <li>• easy mounting</li> <li>• increases service life of downstream fittings and equipment</li> </ul>	622 A	G3/8 IG - G3/8 RH AGS	186-001
		622 A	G3/8 IG - G3/8 LH AGS	186-003
 <p>Modell D</p>		622 C	G1/2 IG - G3/8 LH AGS	186-004
		622 D	G1/2 IG - G3/8 LH AGS	186-005
 <p>Modell A</p>		replacement filter		955003000


77		model	connections	order no.
	<p><b>For reliable protection against contamination by ultrafine filtering of particulates and moisture</b></p> <ul style="list-style-type: none"> <li>• with condensate drain</li> <li>• increases service life of downstream fittings and equipment</li> <li>• change of filter possible while installed</li> <li>• high flowrate</li> </ul>	77 (approx. 40 µm)	G 3/4 IG7-001	
		replacement filter 3-part		FI-077
		77 (approx. 10 µm)	G 3/4 IG7-004	
		replacement filter 3-part		FI-078
		77 (approx. 50 µm)	G 3/4 IG7-010	
		BAM tested for oxygen, with bronze filter		
		replacement filter bronze 3-part		FI-077B
		77 (approx. 5 µm)	G 3/4 IG7-012	
		BAM tested for oxygen, with bronze filter		
		replacement filter bronze 3-part		FI-077B
		installation kit		966.0313
		enabling active monitoring of filter contamination by means of differential pressure		

625		model	connections	order no.
	<p><b>For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 40 µm)</b></p> <ul style="list-style-type: none"> <li>• with condensate drain</li> <li>• increases service life of downstream fittings and equipment</li> <li>• change of filter possible while installed</li> <li>• high flowrate</li> </ul>	625	G 1.1/4 AG	042-001
		625	flange DN 25	042-007
		625	flange DN 32	042-006
		625	flange DN 40	042-015
		625	flange DN 50	042-016
		625	flange DN 80	042-009
		replacement filter 4-part		FI-625


57		pure filter		
		model	connections	order no.
	<p><b>For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (~3 µm)</b></p> <ul style="list-style-type: none"> <li>• resistant to corrosion by stainless steel filter inserts</li> <li>• high flowrate</li> <li>• increases service life of downstream fittings</li> </ul>	57	G 3/8 IG - G 3/8 AGS	184007070
		replacement filter		FI-057

## 24. GAS FILTERS

807		pure filter		
	<p><b>For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (approx. 5 µm)</b></p> <ul style="list-style-type: none"> <li>resistant to corrosion by stainless steel filter inserts</li> <li>high flowrate</li> <li>increases service life of downstream fittings and equipment</li> </ul>	<b>model</b>	<b>connections</b>	<b>order no.</b>
		807 (approx. 5 µm)	1/4" NPT IG	185-002
		replacement filter		956333400

HD		stainless steel filter		
	<p><b>For reliable protection against micro-contamination of gases, for installation in gas pipelines</b></p> <ul style="list-style-type: none"> <li>filter inserts in chromium-nickel-steel</li> <li>high flowrate</li> <li>increases service life of downstream fittings and equipment</li> </ul>	<b>model</b>	<b>connections</b>	<b>order no.</b>
		HD (approx. 30 µm)	G 3/4 IG	187-002
		HD (approx. 80 µm)	G 3/4 IG	187-001
		replacement filter 30 µm		FI-187-30
		replacement filter 80 µm		FI-187

## 25. METERING VALVES

PMV		precision metering valve		
	<p><b>For precise setting of gas volumes, e.g. in laboratory or for burner supply</b></p> <ul style="list-style-type: none"> <li>for very small gas flow rates</li> <li>resistant to dirt compared to needle valves</li> <li>available with three different degrees of fineness</li> <li>available as mounted block or just as valve cartridge</li> </ul>	<b>model</b>		
		PMV with digital knob and locking ring		
		PMV with standard knob		
		metering valve cartridge		

“New: our precision metering valve for very low flow rates

Available as single valve cartridge or in a block with different knobs:

- standard knob with 14 turn spindle
- digital knob with 1499 divisions and locking ring



## 26. BALL VALVES

### Ball valves

for acetylene



example

- PN25**  
up to max. 1.5 bar working pressure
- DIN ISO 228/1
- housing: steel
  - female connections

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

### Ball valves

for methane, LPG, shielding gas, air



example

- PN25**  
up to max. 25 bar working pressure
- DIN ISO 228/1
- housing: steel
  - female connections

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

### Ball valves

for oxygen



example

- PN10**  
up to max. 10 bar working pressure
- DIN ISO 228/1
- housing: steel
  - female connections

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

### Ball valves

for oxygen





example


- PN40**  
**burn out safe**  
up to max. 40 bar working pressure
- DIN ISO 228/1
- housing: brass
  - female connections

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

## 26. BALL VALVES

Ball valves		DN / connection	length	order no.
 <p><b>PN40</b> EN 560</p> <ul style="list-style-type: none"> <li>housing: nickel-plated brass</li> <li>male connections</li> </ul>		for acetylene (max. 1.5 bar): 10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
		for fuel gases (max. 40 bar): 10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
		for oxygen (max. 30 bar): 10 / G 3/8 RH AGS - two-sided	89 mm	198207072
		for shielding gas (max. 40 bar): 10 / G 3/8 RH AGS - two-sided	89 mm	198307078

Flange ball valve		DN	length	order no.	
 <p>example</p> <p><b>PN25 / PN40</b> EN 558-1 (DIN 3202)</p> <ul style="list-style-type: none"> <li>housing: steel</li> </ul>		for acetylene (max. 1.5 bar):			
		20	150 mm	198150500	
		25	160 mm	198147470	
		32	130 mm	198152521	
		40	140 mm	198153531	
		50	150 mm	198154542	
		65	170 mm	198155551	
		80	180 mm	198156560	
		100	190 mm	198157570	
			for air and shielding gas (max. 40 bar):		
		20	150 mm	198350502	
		25	160 mm	198351515	
		32	130 mm	198252525	
		40	140 mm	198353533	
		50	150 mm	198354543	
		for air and shielding gas (max. 25 bar):			
	65	170 mm	198355553		
	80	180 mm	198356561		
	100	190 mm	198357571		
		for oxygen (max. 10 bar):			
	20	150 mm	198250500		
	25	160 mm	198247470		
	32	130 mm	198252521		
	40	140 mm	198253532		
	50	150 mm	198254540		
	65	170 mm	198255551		
	80	180 mm	198256561		
	100	190 mm	198257570		

Flange ball valves		for oxygen			
	DN	length	order no.		
 <p>example</p> <p><b>PN40</b> up to max. 40 bar working pressure</p> <ul style="list-style-type: none"> <li>housing: stainless steel</li> <li>burn-out safe</li> </ul>	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		

## 26. BALL VALVES

### High pressure ball valves

for acetylene



PN320

max. 25 bar

DIN ISO 228/1

- housing: steel
- female connections

DN / connection

length

order no.

6 / G 1/4	50 mm	198105055
6 / G 3/8	72 mm	198107077
10 / G 3/8	55 mm	198107078
10 / G 1/2	72 mm	198109099
10 / G 3/4 LH AG flat	82 mm	198112120
12 / G 1/2	75 mm	198909090
20 / G 3/4	80 mm	198111116

## 27. SAFETY HOSE REELS

### DS Automatic

for fuel gases and oxygen



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

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

model

length of hose

order no.

DS-08	8 m	060120800
DS-10 m	060121000	
DS-15	15 m	060121500
DS-20	20 m	060122000
DS-25	25 m	060122500
DS-30	30 m	060123000

29/11/2018

“More than standard connections, pressures and performance.



When we say, "Special designs, higher flow capacities or different pressures on demand" this is not just a standard text on our data sheets and catalogues, it's our daily work.

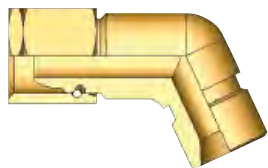
For most models we offer many more options than the standard versions.

So don't hesitate to ask - we can definitely help.

## 28. ACCESSORIES

### Angle adapters

connection A



connection B

PN10

EN 560

- A=MG
- angle: 115°
- B=AGS

connection A

G 1/4 RH  
G 3/8 RH  
G 3/8 RH  
G 3/8 LH  
G 3/8 LH

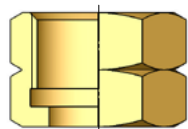
connection B

G 1/4 RH  
G 1/4 RH  
G 3/8 RH  
G 3/8 LH  
M 14x1,5 RH

order no.

100005059  
100107051  
100107079  
100008089  
100008651

### Nuts



EN 560

connection

G 1/4 LH  
G 1/4 RH  
G 3/8 LH  
G 3/8 RH  
G 1/2 LH  
G 1/2 RH  
G 3/4 LH  
G 3/4 RH  
G 1 LH  
G 1 RH

order no.

951001000  
951000900  
951000800  
951000700  
951000600  
951000500  
951001600  
951001500  
951001400  
951001300

for nozzle  $\varnothing \geq 12,5$  mm:

G 1/2 RH  
G 1/2 LH

951019900  
951020000

### Nipples



DN

EN 560

female connection

for nuts

G 1/4  
G 1/4  
G 3/8  
G 3/8  
G 3/8  
G 3/8  
G 1/2  
G 1/2  
G 1/2  
G 1/2  
G 3/4  
G 3/4

for hose DN

4,0  
6,3  
4,0  
6,3  
8,0  
9,0  
6,3  
9,0  
11,0  
12,5  
11,0  
16,0

order no.

952057900  
952022100  
952058000  
952022200  
952028600  
952022300  
952030800  
952035200  
952022400  
952035300  
952022500  
952022600

### Nipples

connection A



DN

EN 560

- A=AGS

male connection

connection A

G 1/4 RH  
G 1/4 RH  
G 3/8 RH  
G 3/8 RH  
G 3/8 LH  
G 1/2 RH  
G 1/2 LH  
G 1/2 RH  
G 1/2 LH

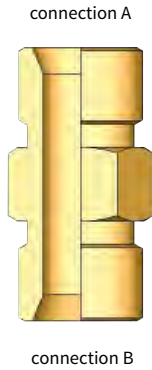
for hose DN

4,0  
6,3  
6,3  
9,0  
9,0  
9,0  
9,0  
11,0  
11,0

order no.

952031000  
952027400  
952031400  
952031600  
952027200  
952031800  
952031700  
952031900  
952027000

## Screwed couplings



### male connections

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

#### Male threads on both sides

EN 560

- A=AGS
- B=AGS

## Soldering nipple



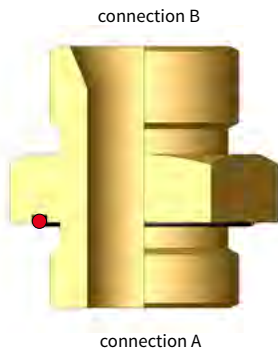
connection A	connection B	order no.
12 mm	G 3/8 RH	100007760
12 mm	G 3/8 LH	100008760
15 mm	G 1/2 RH	100009613
15 mm	G 1/2 LH	100010613
16 mm	G 1/2 RH	100009617
18 mm	G 1/2 RH	100009612
18 mm	G 1/2 LH	100010612
22 mm	G 1/2 RH	100009820
22 mm	G 1/2 LH	100010820
22 mm	G 3/4 RH	100011612
22 mm	G 3/4 LH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

#### For pipes, with nut

EN 560

- A=pipe Ø
- B=MG

## Screwed couplings



### Male thread, O-ring

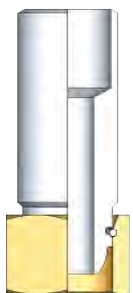
EN 560

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

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	952095700K
G 1/4 RH	G 1/4 LH	952095800K
G 1/4 RH	G 3/8 RH	952122400K
G 1/4 RH	G 3/8 LH	952068600K
G 3/8 RH	G 1/4 RH	952059600K
G 3/8 RH	G 3/8 RH	953138500K
G 3/8 RH	G 3/8 LH	952133500K
G 3/8 RH	G 1/2 RH	952103600K
G 3/8 RH	G 1/2 LH	952046500K
G 3/8 RH	G 3/4 LH	952106800K
G 3/8 RH	G 3/4 RH	952130000K
G 1/2 RH	G 1/4 RH	952014000K
G 1/2 RH	G 3/8 RH	952014100K
G 1/2 RH	G 3/8 LH	952013700K
G 1/2 RH	G 1/2 RH	952013800K
G 1/2 RH	G 1/2 LH	952013900K
G 1/2 RH	G 3/4 RH	952017800K
G 1/2 RH	G 3/4 LH	952017700K
G 1/2 RH	G 1 RH	952017500K
G 1/2 RH	G 1 LH	952017600K
G 3/4 RH	G 3/8 RH	952050400K
G 3/4 RH	G 3/8 LH	952064900K
G 3/4 RH	G 1/2 RH	952067600K
G 3/4 RH	G 1/2 LH	952026900K
G 3/4 RH	G 3/4 RH	952015000K
G 3/4 RH	G 3/4 LH	952014300K
G 3/4 RH	G 1 RH	952015100K
G 3/4 RH	G 1 LH	952020300K
G 1 RH	G 3/8 RH	952049700K
G 1 RH	G 3/8 LH	952049800K
G 1 RH	G 1/2 RH	952049600K
G 1 RH	G 1/2 LH	952016200K
G 1 RH	G 3/4 RH	952016100K
G 1 RH	G 3/4 LH	952016000K
G 1 RH	G 1 RH	952015900K
G 1 RH	G 1 LH	952036000K
G 1 RH	G 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

## Welding nipples

connection A



connection B

### For pipes, with nut

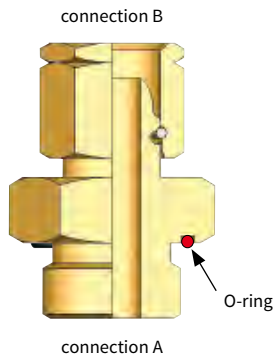
EN 560

- A=pipe Ø
- B=MG

connection A	connection B	order no.
21,3 mm	G 3/8 LH	100008810
21,3 mm	G 3/8 RH	100007611
21,3 mm	G 1/2 LH	100010610
21,3 mm	G 1/2 RH	100009610
26,9 mm	G 1/2 LH	100010611
26,9 mm	G 3/4 LH	100012610
26,9 mm	G 3/4 RH	100011611
26,9 mm	G 1 LH	100014610
26,9 mm	G 1 RH	100013610
33,7 mm	G 1 LH	100014612
33,7 mm	G 1 RH	100013614
42,0 mm	G 1.1/4 LH	100016610
42,0 mm	G 1.1/4 RH	100015610



## Male / female couplings



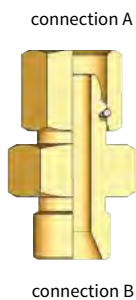
connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005055K
G 1/4 RH	G 1/4 LH	100005060K
G 1/4 RH	G 3/8 RH	100107054K
G 1/4 RH	G 3/8 LH	100008051K
G 3/8 RH	G 3/8 LH	100008073K
G 3/8 RH	G 1/2 LH	100010070K
G 3/8 RH	G 1/2 RH	100009073K
G 3/8 RH	G 3/8 RH	100207071K
G 1/2 RH	G 3/8 RH	100007092K
G 1/2 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 thread, O-ring and nut

EN 560

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

## Male / female couplings



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

### Male thread, nut

EN 560

- A=MG
- B=AGS

## 28. ACCESSORIES

### Cap with chain

connection A



EN 560

- A=MG

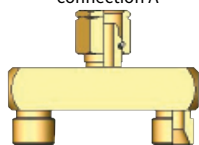
**connection A**

**order no.**

G 1/4 RH	100005000
G 3/8 RH	100007000
G 3/8 LH	100008000
G 1/2 RH	100009000
G 1/2 LH	100010000
G 3/4 RH	100011000
G 3/4 LH	100012000
G 1 RH	100013000
G 1 LH	100014000

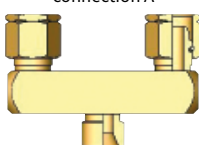
### Distribution block

connection A



connection B

connection A



connection B

EN 560

top:

- A=MG
- B=AGS

lower part:

- A=MG
- B=AGS

**connection A**

**connection B**

**order no.**

top:

G 1/4 RH	G 1/4 RH AGS	788-003
G 3/8 LH	G 3/8 LH AGS	788-001
G 1/2 LH	G 3/8 LH AGS	788-005
G 1/2 LH	G 1/2 LH AGS	788-007

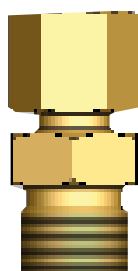
lower part:

G 1/4 RH	G 1/4 RH AGS	788-004
G 3/8 LH	G 3/8 LH AGS	788-002
G 1/2 LH	G 3/8 LH AGS	788-006
G 1/2 LH	G 1/2 LH AGS	788-008

### WITTFIX-pipe couplings



pipe



WITTFIX

nut

connection A

**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

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

EN 560

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

## WITTFIX-pipe couplings



pipe Ø mm	connection A	connection B	order no.
6 x 1,0	G 1/4 RH		956725400
6 x 1,0	G 3/8 LH		956659700
6 x 1,0	G 3/8 RH		956725500
6 x 1,0		G 1/4 RH	956745700
6 x 1,0		G 3/8 LH	956659600
6 x 1,0		G 3/8 RH	956741800
8 x 1,0	G 1/4 RH		956753600
8 x 1,0	G 3/8 LH		956723700
8 x 1,0	G 3/8 RH		956746300
8 x 1,0	G 1/2 LH		956725700
8 x 1,0	G 1/2 RH		956725600
8 x 1,0		G 1/4 RH	956746200
8 x 1,0		G 3/8 LH	956740100
8 x 1,0		G 3/8 RH	956623000
8 x 1,0		G 1/2 LH	956753900
8 x 1,0		G 1/2 RH	956754000
10 x 1,0	G 1/4 RH		956753700
10 x 1,0	G 3/8 LH		956725800
10 x 1,0	G 3/8 RH		956725900
10 x 1,0	G 1/2 LH		956726100
10 x 1,0	G 1/2 RH		956726000
10 x 1,0		G 1/4 RH	956648100
10 x 1,0		G 3/8 LH	956753400
10 x 1,0		G 3/8 RH	956718100
10 x 1,0		G 1/2 LH	956754900
10 x 1,0		G 1/2 RH	956755000
12 x 1,0	G 1/4 RH		956755100
12 x 1,0	G 3/8 LH		956677400
12 x 1,0	G 3/8 RH		956717900
12 x 1,0	G 1/2 LH		956726400
12 x 1,0	G 1/2 RH		956726300
12 x 1,0		G 1/4 RH	956754800
12 x 1,0		G 3/8 LH	956668600
12 x 1,0		G 3/8 RH	956717100
12 x 1,0		G 1/2 LH	956697500
12 x 1,0		G 1/2 RH	956697600
15 x 1,0	G 3/8 LH		956678900
15 x 1,0	G 3/8 RH		956678500
15 x 1,0	G 1/2 LH		956679100
15 x 1,0	G 1/2 RH		956678700
15 x 1,0		G 3/8 LH	956679000
15 x 1,0		G 3/8 RH	956678600
15 x 1,0		G 1/2 LH	956679200
15 x 1,0		G 1/2 RH	956678800

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

max. 25 bar working pressure

thread-connection: EN 560

- A=AGS
- B=MG

29/11/2018

### 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:
<ul style="list-style-type: none"> <li>Gas safety equipment</li> <li>Gas mixing systems</li> <li>Gas analysis systems</li> <li>Leak detection systems</li> </ul>
The training will be tailored to the knowledge of the attendees, with theory and practical elements as required. By request a test can be held at the end of the training.
Training including lunch, excluding hotel accommodation
Location: WITT headquarter in Witten
Minimum attendance: 4 persons
Maximum attendance: 8 persons

**Documentation, Certification and Instruction manuals**

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

**General Terms and Conditions**

All information given in this catalogue is subject to change, and WITT cannot guarantee accuracy.

The minimum order value for products, repairs or inspections is € 150.00 .  
When ordering please specify order numbers.

**Terms of shipment for Gas mixers, analysers, receivers and their accessories**

Prices EXW, plus packaging (seaworthy charged by costs).

**Terms of shipment for safety equipment and their accessories**

Prices EXW, standard packaging included.

The entire text of our General Terms and Conditions may be downloaded at [www.wittgas.com](http://www.wittgas.com)

**Conversion of units of measurement:**

**Pressure** all pressure specifications are in barg  
10 bar = 145 psi

**Flow** 10 m<sup>3</sup>/h = 353 scfh

**Temperature** °C \* 1,8 + 32 = °F

**Volume** 10 litres = 21 pints / 2.2 gallons

**Length** 10 mm = 0.3937 inches  
1 m = 39.37 inches

**Please note:**



Most of our technical and marketing documents are available in multiple languages, please see [www.wittgas.com](http://www.wittgas.com).

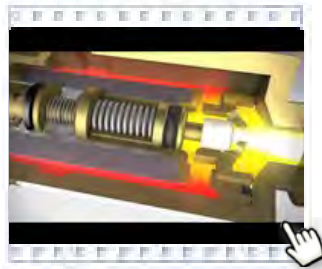


## Product videos

Dome Pressure Regulators

Flashback arrestors

Gas mixer KM-MEM+



OXYBABY 6.0

Leak detection

Inline leak detection



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

## Product specific websites by WITT

Everything about WITT leak detection

Everything about WITT dome pressure regulators

Everything about WITT OXYBABY®



▶ [www.leak-master.net](http://www.leak-master.net)

▶ [www.domepressureregulators.com](http://www.domepressureregulators.com)

▶ [www.oxybaby.com](http://www.oxybaby.com)

## WITT-App

**iGases** - Interactive lexicon for technical gases

Features:

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



iGases for Apple



iGases for Android

Download at google play or at the apple app store

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### 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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