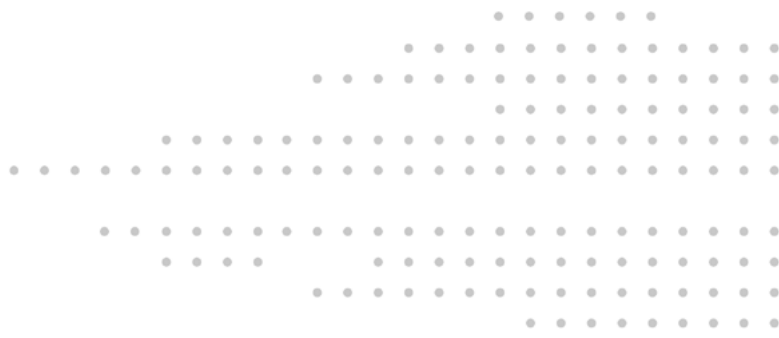


CATALOGUE

2021

valid from 01.01.2021

inter@ctive



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

► www.wittgas.com

The screenshot shows the WITT website interface. At the top left is the WITT logo with the URL www.wittgas.com. A search bar and language selector (set to ENGLISH) are at the top right. A navigation menu includes: Products, Applications, Consulting & Service, Company, Jobs, Downloads, News, and Contact. The breadcrumb trail reads: Home / Applications / Practical Examples / Gas mixers for laser cutting.

Applications

- Welding & Cutting
- Food Industry
- Beverage Industry
- Glass Industry
- Medical Applications
- Thermal Processing
- Laser Technology
- Diving Technology
- Helium Leak Test
- Biogas
- Hydrogen Applications
- Pharmaceutical Industry
- Customer Designed Solutions

Gas mixers for laser cutting

AMADA RELIES ON WITT GASMIKERS

Process gases for optimal laser cutting

Laser technology has been the method of choice in sheet metal processing for many years. The laser delivers first-class cutting results regardless of the type and thickness of the material. In laser cutting, process gases play an important role in cutting quality. The desired results can only be achieved if the quality of the cutting gas remains constant. AMADA GmbH, one of the leading suppliers of high-quality laser cutting machines, achieves optimum process results by equipping its machines with WITT gas mixers.

LIGNE EN55 3015 (Amada 2018)

Only a few companies have a similar wealth of experience in the field of laser technology as AMADA, the pioneer in the field of laser cutting. Founded in Japan, the company presented the world's first industrially used cutting laser for sheet metal processing back in 1980. The German AMADA GmbH was founded in 1973 as a subsidiary of AMADA Holdings Co. Ltd. and today has its headquarters in Haan near Düsseldorf and in Eching near Landshut. The company's laser cutting systems have been continuously developed over the past 40 years and enable excellent cutting performance with maximum precision.

High-quality process gases are used for consistent, first-class cutting results. The cutting gas or a cutting gas mixture is supplied to the cutting process via a nozzle system. This shields the cutting area from negative influences from the ambient air, and also expels molten material is expelled from the cut.

AMADA prefers a mixture of nitrogen and oxygen for cutting certain materials. The nitrogen serves as a flushing gas and at the same time has the function of cooling the surroundings of the laser beam; the oxygen in turn promotes the actual cutting process.

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.**



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

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

Any other questions?

We provide you with expert answers!



Tel: +49 (0)2302 8901-0

Fax: +49 (0)2302 8901-3

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>Small Gas mixer especially for dispensing equipment</p> <ul style="list-style-type: none"> • variable mixture output • pre-set gas blends • various flow capacities 	<p>KM20 ECO</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>Compact Gas mixer for different applications</p> <ul style="list-style-type: none"> • adjustable mixing valve • mixed gas flow dependent on inlet pressures • various flow capacities 	<p>MM-2</p> <p>MM-2K MM-2G</p>


MM-Flex		2 gases small to medium flows
 <p>MM-Flex</p>	<p>Ultra compact gas mixer for different applications, e.g. welding</p> <ul style="list-style-type: none"> • adjustable mixing valve • adjustable metering valve • adjustable pressure 	<p>MM-Flex</p> <p>MM-Flex</p>


BM		2 gases small flows
 <p>BM-2M</p>	<p>Gas mixer for direct cylinder connection (high pressure)</p> <ul style="list-style-type: none"> • constant output • infinitely variable gas blending • infinitely variable metering • no additional pressure regulator required • various flow capacities 	<p>BM-2</p> <p>BM-2M (200 bar) BM-2M (300 bar)</p>


21/12/2020

1. GAS MIXERS for non-flammable gases



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

MG Fix		2 or 3 gases medium to high flows
 <p>MG Fix</p>	<p>Pre-set 2 or 3 components gas mixers</p> <ul style="list-style-type: none"> • variable mixture output • mixing range dependent on type of gas • new mixing technology, mixed gas receiver is not required 	<p>MG-2 Fix for 2 gases</p> <p>MG 25-2 capacity range up to approx. 22 Nm³/h MG 45-2 capacity range up to approx. 46 Nm³/h MG 75-2 capacity range up to approx. 68 Nm³/h MG 95-2 capacity range up to approx. 90 Nm³/h MG 125-2 capacity range up to approx. 135 Nm³/h</p> <p>MG-3 Fix for 3 gases</p> <p>MG 45-3 capacity range up to approx. 46 Nm³/h MG 95-3 capacity range up to approx. 90 Nm³/h MG 125-3 capacity range up to approx. 135 Nm³/h</p> <p>options:</p> <p>inlet pressure monitoring with alarm module AM3</p>



MG Flex		2 gases medium to high flows
 <p>MG Flex</p>	<p>Adjustable 2 components gas mixers for welding applications</p> <ul style="list-style-type: none"> • variable mixture output • mixing range dependent on type of gas • new mixing technology, mixed gas receiver is not required 	<p>MG-2 Flex</p> <p>MG 25-2 capacity range up to approx. 22 Nm³/h MG 45-2 capacity range up to approx. 46 Nm³/h MG 75-2 capacity range up to approx. 68 Nm³/h MG 95-2 capacity range up to approx. 90 Nm³/h MG 125-2 capacity range up to approx. 135 Nm³/h</p> <p>options:</p> <p>inlet pressure monitoring with alarm module AM3</p>

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



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>Gas mixer especially for MAP-packaging and flow-pack machines</p> <p>Features - see model KM (above) plus:</p> <ul style="list-style-type: none"> regulation of outlet pressure monitoring of gas supply integrated inlet pressure monitoring (alarm module AM3) 	<p>KM-2M for 2 gases</p> <p>KM 100-2M KM 200-2M KM 300-2M KM 600-2M</p> <p>KM-3M for 3 gases</p> <p>KM 100-3M KM 200-3M KM 300-3M KM 600-3M</p> <p>optional: automatic shut-off of O₂ 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>Powerful gas mixer especially for highly fluctuating mixing gas output quantities</p> <ul style="list-style-type: none"> adjustable mixing valve with receiver pressure management for use with mixed gas receiver also for central gas supply installations various flow capacities alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc. 	<p>KM-2ME for 2 gases</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>KM-3ME for 3 gases</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>options:</p> <p>inlet pressure monitoring with alarm module AM3 surcharge for analogue pressure transmitter for 2 inlet gases surcharge for analogue pressure transmitter for 3 inlet gases</p>

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

1. GAS MIXERS for non-flammable gases

KM-Flow	2 or 3 gases medium to high flows	
 <p>KM-Flow with analyser</p>	<p>Gas mixer especially for MAP-packaging and flow-pack machines</p> <ul style="list-style-type: none"> • electronic Mass Flow Controller (MFC) • touchscreen • measured data storage • may be combined with analysis MAPY LE • for up to 1000/1500 l/min  <p>for food-grade gases, conforms to 1935/2004</p>	<p>KM1000-2 Flow for 2 gases</p> <p>KM1000-2 Flow for flow-pack machines KM1000-2 Flow for vacuum machines</p> <p>KM1500-3 Flow for 3 gases</p> <p>KM1500-3 Flow for flow-pack machines KM1500-3 Flow for vacuum machines</p>


MG-2ME	2 gases low to very high flows	
 <p>MG50-2ME on steel receiver</p> <p>MG50/100-ME MG200-ME</p> <p>Picture shows optional equipment</p>	<p>MG-2ME</p> <p>MG50-2ME MG50-2ME mounted on 100 l / 10 bar steel receiver MG50-2ME mounted on 100 l / 10 bar stainless steel receiver MG100-2ME MG100-2ME mounted on 250 l / 11 bar steel receiver MG100-2ME mounted on 250 l / 11 bar stainless steel receiver MG200-2ME (see option "external filter")</p> <p>options:</p> <p>inlet pressure monitoring with alarm module AM3 external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200 surcharge for analogue pressure transmitter for 2 inlet gases</p>	<p>Powerful gas mixer especially for high flows and highly fluctuating mixing gas output quantities</p> <ul style="list-style-type: none"> • adjustable mixing valve • various flow capacities • with receiver pressure management for use with mixed gas receiver • also for central gas supply installations • alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

X

You need advice?
We call you back!

REQUEST CALL-BACK NOW)

Expert advice



“You need advice?”

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

1. GAS MIXERS for non-flammable gases

MG-3ME

3 gases | low to very high flows



MG50-3ME



alarm module AM3

MG-3ME

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

options:

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

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

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

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

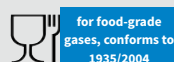
option:

- automatic shut-off e.g. of O₂ 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 AM3)
- 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 ₂ -analysis
 <p>KD500-1A MAPY ZRL</p>	<p>Electronical flow control systems for modified atmospheres in the food industry</p> <ul style="list-style-type: none"> with integrated zirconia cell for O₂-measurement integrated PID control loop for automatic gas flow control potential free contacts for min./ max. alarms 	<p>KD</p> <p>KD500-1A MAPY ZRL</p> <p>options:</p> <p>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>2-components gas mixers with integrated O₂ analysis</p> <p>Features - see model KD plus:</p> <ul style="list-style-type: none"> MAPY-analysis (see p. 20) potential free contacts 	<p>KM-2M MAPY ZRL</p> <p>KM100-2M MAPY ZRL KM200-2M MAPY ZRL KM300-2M MAPY ZRL KM600-2M MAPY ZRL</p> <p>options:</p> <p>gas mixer with M+ (remote control)</p>
	 <p>for food-grade gases, conforms to 1935/2004</p>	

21/12/2020

“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



3. GAS MIXERS for flammable gases

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

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

KM - ME Ex		2 or 3 gases low to very high flows
 <p>KM100-3ME Ex</p>	<p>Powerful gas mixers especially for highly fluctuating mixing gas output quantities</p> <p>For features - see KM (above) plus:</p> <ul style="list-style-type: none"> • separate electrical control panel • 5 m cable between control unit and mixing device • certified in accordance to ATEX • model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information in section 6 „Gas analysers“) • alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc. 	<p>KM-2ME Ex for 2 gases</p> <p>KM100-2ME Ex</p> <p>KM100-2ME Ex A, with integrated analysis (see section „Gas analysers“)</p> <p>KM100-2ME Ex mounted on 20 l / 10 bar steel receiver</p> <p>KM100-2ME Ex mounted on 20 l / 10 bar stainless steel receiver</p> <p>KM100-2ME Ex mounted on 100 l / 10 bar steel receiver</p> <p>KM100-2ME Ex mounted on 100 l / 10 bar stainless steel receiver</p> <p>KM-3ME Ex for 3 gases</p> <p>KM100-3ME Ex</p> <p>KM100-3ME Ex mounted on 20 l / 10 bar steel receiver</p> <p>KM100-3ME Ex mounted on 20 l / 10 bar stainless steel receiver</p> <p>KM100-3ME Ex mounted on 100 l / 10 bar steel receiver</p> <p>KM100-3ME Ex mounted on 100 l / 10 bar stainless steel receiver</p> <p>options:</p> <p>inlet pressure monitoring with alarm module AM3 (for Ex)</p> <p>surcharge for analogue pressure transmitters Ex, 2 inlet gases</p> <p>surcharge for analogue pressure transmitters Ex, 3 inlet gases</p>

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 AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.

MG-2ME Ex for 2 gases

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

MG-3ME Ex for 3 gases

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

options:

- inlet pressure monitoring with alarm module AM3 (for Ex)
- external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200
- surcharge for analogue pressure transmitters Ex, 2 inlet gases
- surcharge for analogue pressure transmitters Ex, 3 inlet gases

21/12/2020

“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 Nm³/h
- from very small mixing ranges (0-5%) up to very big ones (0-100%)
- with integrated gas analysis
- with numerous safety features such as monitoring of inlet pressures and temperatures, alarm function with automatic switch or cut off, heating for mixer and control unit, filter in the gas inlet, lockable doors, etc.

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

For an overview of our support material see p. 81-83

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

MED-MG

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

options:

automatic calibration
 heating (for low ambient temperatures)

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

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

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

21/12/2020

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



The new AM3 processes signals in the 4-20 mA range and can manage up to 8 alarms. Current values are displayed on the TFT display and important events are saved by the integrated data logger. In addition to its alarm function, the AM3 can also monitor external control systems.

And since we have not changed the installation dimensions, the AM3 can easily be retrofitted onto any WITT gas mixer with alarm module.

More information at ► www.wittgas.com

For an overview of our support material see p. 81-83

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

5. MIXED GAS RECEIVERS

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 ³ /h
20 litres	16 bar	horizontal	181 Nm ³ /h
100 litres	10 bar	horizontal	117 Nm ³ /h
100 litres	21 bar	horizontal	181 Nm ³ /h
250 litres	11 bar	horizontal	523 Nm ³ /h
500 litres	11 bar	vertical	523 Nm ³ /h
1,000 litres	11 bar	vertical	1,880 Nm ³ /h
1,000 litres	16 bar	vertical	1,750 Nm ³ /h
2,000 litres	11 bar	vertical	2,490 Nm ³ /h
2,000 litres	16 bar	vertical	3,265 Nm ³ /h

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

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

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

Stainless steel receivers



Stainless steel receiver, horizontal
incl. safety devices and connections

Stainless steel, not coated

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

incl. safety devices and connections

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

* blow-off output of the safety relief valve

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

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

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

6. GAS ANALYSERS

OXYBABY® M+

portable O₂ / CO₂ gas analyser - basic model



Compact handheld O₂ / CO₂ 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 ₂
OXYBABY® M+	for O ₂ / CO ₂

options:

connector tube with Luer-Lok-connection

OXYBABY® 6.0

portable O₂ / CO₂ gas analyser - premium model



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

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 ₂
OXYBABY® 6.0	for O ₂ / CO ₂

options:

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



product video and further information see
▶ www.oxybaby.com

OXYBABY® M+P

basic gas analyser for pressurised pipelines



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

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

OXYBABY® M+ P

OXYBABY® M+ P	for O ₂
OXYBABY® M+ P	for CO ₂
OXYBABY® M+ P	for O ₂ / CO ₂

OXYBABY® 6.0 P

premium gas analyser for pressurised pipelines



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


features see above, plus:


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


OXYBABY® 6.0 P

OXYBABY® 6.0 P	for O ₂
OXYBABY® 6.0 P	for CO ₂
OXYBABY® 6.0 P	for O ₂ / CO ₂

6. GAS ANALYSERS

OXYBABY® MED		portable O ₂ / CO ₂ gas analyser for medical applications
	Compact handheld O₂/ CO₂ analyser for checking medical gases <ul style="list-style-type: none"> • quick and precise • data log of last 500 measurements • administration of users applications and allocations • hygienic and low maintenance 	OXYBABY® MED OXYBABY® MED for O ₂ OXYBABY® MED for O ₂ / CO ₂ options: data cable set of adapter for various connections bluetooth (e.g. for separate printer)

OXYBABY® -Accessories		
 <p>e.g. for the use of the OXYBABY® as a tabletop unit</p>	Accessory for all OXYBABY® models: <ul style="list-style-type: none"> • table rack Accessories for the OXYBABY® 6.0 premium models: <ul style="list-style-type: none"> • documentation software OBCC • integrated barcode reader • bluetooth printer 	OXYBABY®-Accessories Table rack for OXYBABY® connector tube with Luer-Lok-connection integrated barcode reader tabletop bluetooth printer OBCC software for the documentation of analysis results* see p. 21 table rack, printer

OXYBABY® -Accessories		for cans, bottles and mini packages																								
 <p>Canpiercer Aquacheck</p> <p>Image exemplary OXYBABY® and bottle not included</p>	Special packages are hardly controllable by standard analysis devices. Therefore WITT offers a special construction which is suitable for all OXYBABY® models <ul style="list-style-type: none"> • for head space analysis of cans and bottles, with or without overpressure/gas • for O₂ and CO₂ analysis of mini packages, e.g. capsules 	<table border="1"> <thead> <tr> <th>OXYBABY®-Accessories</th> <th>Order no.</th> </tr> </thead> <tbody> <tr> <td>Canpiercer for cans and bottles (with set for head space analysis)</td> <td></td> </tr> <tr> <td>for cans without overpressure/gas (e.g. juice)* for max. piercing height of 270 mm, needle length 5,5 mm</td> <td>590000156</td> </tr> <tr> <td>for cans and bottles with overpressure/gas, incl. bottle adapter* 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>for cans with high overpressure/gas (strongly sparkling drinks) incl. calibration module and flow control* for max. piercing height of 270 mm, needle length 5,5 mm</td> <td>590000239</td> </tr> <tr> <td>for cans and bottles, pressure measurement only, incl. bottle adapter* for max. piercing height of 390 mm, needle length 5,5 mm</td> <td>590000341</td> </tr> <tr> <td colspan="2">*other versions on request</td> </tr> <tr> <td>Canpiercer-module (for refitting): bottle adapter</td> <td></td> </tr> <tr> <td>Aquacheck equipment for the gas analysis of mini packages</td> <td></td> </tr> <tr> <td>Aquacheck Plus Aquacheck incl. water container</td> <td></td> </tr> </tbody> </table>	OXYBABY®-Accessories	Order no.	Canpiercer for cans and bottles (with set for head space analysis)		for cans without overpressure/gas (e.g. juice)* for max. piercing height of 270 mm, needle length 5,5 mm	590000156	for cans and bottles with overpressure/gas , incl. bottle adapter* for max. piercing height of 270 mm, needle length 8,5 mm	590000165	for max. piercing height of 390 mm, needle length 8,5 mm	590000166	for max. piercing height of 390 mm, needle length 18,5 mm	590000325	for cans with high overpressure/gas (strongly sparkling drinks) incl. calibration module and flow control* for max. piercing height of 270 mm, needle length 5,5 mm	590000239	for cans and bottles, pressure measurement only , incl. bottle adapter* for max. piercing height of 390 mm, needle length 5,5 mm	590000341	*other versions on request		Canpiercer-module (for refitting): bottle adapter		Aquacheck equipment for the gas analysis of mini packages		Aquacheck Plus Aquacheck incl. water container	
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6. GAS ANALYSERS

OXYBEAM



Laser gas analyser for non-destructive sample testing of packages

- state-of-the-art laser technology for determining O₂ or CO₂ content
- avoids waste costs
- for packaging with transparent film area (min. height 5 mm)

non-destructive sample gas analyser

OXYBEAM

OXYBEAM for O₂
OXYBEAM for CO₂

option:

plate with magnetic fixing for packages from 5 mm height

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 O₂ for quicker measurements



tabletop O₂/CO₂ gas analyser

PA 7.0

PA 7.0 for O₂ version P or L
PA 7.0 for CO₂ version P or L
PA 7.0 for O₂/CO₂ version P or L
PA 7.0 for O₂ version S
PA 7.0 for O₂ version S and L
PA 7.0 for O₂/CO₂ version S
PA 7.0 for O₂/CO₂ 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 O₂
O₂ 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)
- optional: zirconia measuring cell for O₂ 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




O₂/CO₂ gas analyser, sample + inline


MAPY


MAPY 4.0 / MAPY LE O₂ version P or L
MAPY 4.0 / MAPY LE CO₂ version P or L
MAPY 4.0 / MAPY LE O₂/CO₂ version P or L
MAPY 4.0 / MAPY LE O₂ version S
MAPY 4.0 / MAPY LE O₂ version S and L
MAPY 4.0 / MAPY LE O₂/CO₂ version S
MAPY 4.0 / MAPY LE O₂/CO₂ 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
O₂ measurement in ppm-range (surcharge calibration)
heating and thermostat, only electro-chemical sensors
different Ethernet cables (only for MAPY in vertical housing)

MAPY VAC		O ₂ /CO ₂ gas analyser, for traysealers and thermoformers
	<p>Inline gas analyser for continuous control of modified atmospheres in traysealers and thermoformers</p> <ul style="list-style-type: none"> measures the O₂ or O₂/CO₂ 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 	<p>MAPY VAC</p> <p>MAPY VAC O₂ Zr MAPY VAC O₂ Zr BB MAPY VAC O₂/CO₂ Zr MAPY VAC O₂/CO₂ Zr BB MAPY VAC O₂ Zr, incl. buffer analysis MAPY VAC O₂ Zr BB, incl. buffer analysis MAPY VAC O₂/CO₂ Zr, incl. buffer analysis MAPY VAC O₂/CO₂ Zr BB, incl. buffer analysis</p>

Inline gas analysis		integrated with gas mixer
 <p>GC 50</p>	<p>Gas Analysers for H₂, He, etc. to be combined with WITT gas mixers</p> <ul style="list-style-type: none"> gas mixer and analyser as a compact unit integrated analysis with LCD display touchscreen min./max. alarms for flammable gases certified to ATEX 	<p>gas analysis for gas mixers</p> <p>analyser system H₂ (Ex, Thermal Conductivity Sensors) analyser system H₂ (Ex, Thermal Conductivity Sensors) with additional cut-off valve for flammable gases analyser system He (Thermal Conductivity Sensors) analyser system O₂ (chemical) zirconia measuring cell for analyser system O₂ (chemical) analyser system O₂ (paramagnetic) analyser system CO₂ (infrared) analyser system O₂/CO₂ (chemical/infrared) analyser system O₂/CO₂ (paramagnetic/infrared) integration of the analysing system in the mixer housing (MG 200 without surcharge)</p>

Options		for WITT gas analysers
 <p>Back-purging device for inline gas analysers against blocked filters on gas inlets</p>	<p>Additional functions for optimising the process</p> <ul style="list-style-type: none"> data export and analysis automatic calibration alarm function error advice back-purging device against blocked filters 	<p>options for WITT gas analysers (except MAPY and MFA)</p> <p>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))</p> <p>back-purging device for inline gas analysers</p>

OBCC		documentation software for OXYBABY® 6.0 and PA
	<p>Windows software for the documentation of analysis measuring results. For OXYBABY® 6.0, P 6.0, Med and PA 7.0</p> <ul style="list-style-type: none"> modern, intuitive interface graphic representation of the measured data, verifiable PDF reports comfortable data management with import and export function 	<p>Software</p> <p>free 30-day trial version</p> <p>OBCC full version incl. updates licence for 1 year licence for 2 years</p>



Free download OBCC trial version

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

6. GAS ANALYSERS

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° up to 20°C
- latest sensor technology
- easy navigation
- large display
- USB interface for data export

HYDROBABY
HYDROBABY

options:
pressure compensation
4-20 mA outlet

MFA H₂O

stationary moisture measurement



MFA H₂O

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 H₂O
MFA H₂O

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 CO₂

- 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 ambient air monitor



Compact ambient air monitoring system for the detection of O₂, CO₂, H₂ 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

- RLA compact**
- gas monitor 1-channel
 - every additional transmitter channel (max. 4)
 - transmitter for O₂
 - transmitter for CO₂ - not Ex
 - transmitter for O₂ Zircos - not Ex
 - transmitter for combustible gases H₂, methane, ethylene, propane (under explosion limit -0..50/100% UEG) - Atex: Zone 2, Cat. 3G
 - transmitter for CO
 - flow adapter (recommended for calibration)
 - transmitter cable per meter and transmitter

RLA multichannel ambient air monitor



Compact ambient air monitoring system for the detection of O₂, CO₂, H₂ 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

- RLA multichannel**
- 4-channel gas monitor with alarm
 - additional channel (up to 16 channels possible)
 - transmitter for O₂
 - transmitter for CO₂ - not Ex
 - transmitter for O₂ Zircos - not Ex
 - transmitter for combustible gases H₂, methane, ethylene, propane (under explosion limit -0..50/100% UEG) - Atex: Zone 2, Cat. 3G
 - transmitter for CO
 - flow adapter (recommended for calibration)
 - transmitter cable per meter and transmitter

Inlet pressure monitoring with alarm module AM3



For continuous inlet pressure monitoring for maximum process safety

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

- Inlet pressure monitoring**
- separate
 - for flammable gases as Ex-version with separate control housing
 - options:
 - data cable
 - ALARM CONTROL software
 - surcharge 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

21/12/2020



“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 O₂/ CO₂ gas analysers.

Download at ▶ www.wittgas.com

7. LEAK DETECTION EQUIPMENT

LEAK-MASTER® EASY



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)

bubble-test

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

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



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

LEAK-MASTER® PRO 2



LEAK-MASTER® PRO 2
model 2.1

LEAK-MASTER® PRO 2
model 2.2

Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO₂-based

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

CO₂-based

LEAK-MASTER® PRO 2	chamber size in approx. mm (HxWxD)
LM 2.1	42 x 310 x 200
LM 2.2	174 x 310 x 200
LM 2.3	100 x 460 x 305


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



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

7. LEAK DETECTION EQUIPMENT

LEAK-MASTER® PRO



LEAK-MASTER® PRO

Fast, non-destructive detection of even the smallest leaks in MAP-packages, CO₂-based


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

CO₂-based, for large packages

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

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

LEAK-MASTER® MAPMAX



MAPMAX
MAPMAX compact

inline

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

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


Uniquely quick and precise inline-leak detection of packages containing CO₂ 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.

Accessories



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

for WITT leak detectors

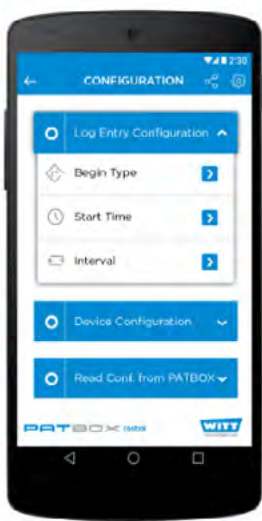
- WIFI (not for Control Unit PLUS)
- barcode reader IP 65
- analysis software GASCONTROL CENTER
- Test-Leak (60µ) for the inspection of measuring and testing equipment (only for LEAK-MASTER® MAPMAX and PRO)

21/12/2020

8. DATA LOGGER

PATBOX		data logger
 <p>Compact logger for pressure and temperature</p> <ul style="list-style-type: none"> • highly mobile and accurate • extremely small size • high process reliability • simple transmission of data via NFC • operation via Android App 	PATBOX	

21/12/2020



PATBOX Control App

“ PATBOX - what is it actually?

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

Your advantages:

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

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

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

RF53N



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 49

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

RF53DN



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

DIN EN ISO 5175-1

with pressure relief valve

FA NV TV

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

RF53NSK



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

DIN EN ISO 5175-1

with integrated coupling
body according EN 561

FA NV TV

suitable probes see p. 39f

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

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

85-10



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 49

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

85-20



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 49

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

85-30



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


DIN EN ISO 5175-1

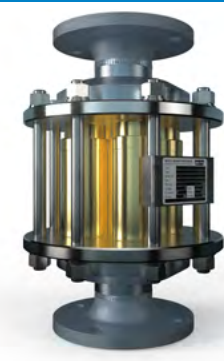
FA NV TV


also available in stainless steel, see p. 50


connection	inlet → outlet	order no.
for fuel gases:		
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>Parallel connection of 2 or 4 flashback arrestors model 85-30, ideal for high consumption and high flows</p> <p>Acetylene max. 392 m³/h Fuel gases max. 2740 m³/h Oxygen max. 1850 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>FA NV TV</p> <p>also available in stainless steel, see p. 50</p>	connection	inlet → outlet	order no.	
	for fuel gases:			
	DN 50 (2fold)	flange DIN 2633	182-023	
	DN 50 (4fold)	flange DIN 2633	182-007	
	2" NPT (4fold)	IG → IG	182-030	
	for oxygen:			
	DN 50 (2fold)	flange DIN 2633	182-027	
	DN 50 (4fold)	flange DIN 2633	182-008	

Safety group 645/623N		4- or 5-fold		
 <p>Parallel connection of 4 or 5 flashback arrestors model 623N, ideal for high consumption and high flows</p> <p>Town gas / Natural gas max. 1010 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>FA NV TV</p>	connection	inlet → outlet	order no.	
	for town gas/natural gas:			
	DN 65/PN16 (4fold)	flange DIN 2633	182-014	
	DN 65 /PN16 (5fold)	flange DIN 2633	182-018	

Super 55				
 <p>Acetylene max. 10 m³/h Fuel gases max. 60 m³/h Oxygen max. 95 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>with pressure controlled cut-off valve</p> <p>FA NV TV PV</p>	connection	inlet → outlet	order no.	
	for fuel gases:			
	G 3/8 LH	MG → AGS	146-025	
	9/16" LH	MG → AGS	146-029	
	for oxygen:			
	G 1/4 RH	MG → AGS	146-027	
	G 3/8 RH	MG → AGS	146-026	
	9/16" RH	MG → AGS	146-030	


Super 85				
 <p>Acetylene max. 19 m³/h Fuel gases max. 169 m³/h Oxygen max. 119 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>with pressure controlled cut-off valve</p> <p>FA NV TV PV</p>	connection	inlet → outlet	order no.	
	for fuel gases:			
	G 3/8 LH	MG → AGS	148-002	
	9/16" LH	MG → AGS	148-009	
	for oxygen:			
	G 1/4 RH	MG → AGS	148-013	
	G 3/8 RH	MG → AGS	148-016	
	9/16" RH	MG → AGS	148-022	

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

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

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

Super 90



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


DIN EN ISO 5175-1

with pressure controlled cut-off valve

FA NV TV PV

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

Super 78



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


DIN EN ISO 5175-1

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

FA NV TV PV RV

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

Super 66



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


DIN EN ISO 5175-1

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

FA NV TV PV RV

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

F53N/HHO



Air max. 20 m³/h


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


for electrolysis devices


FA TV


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

10. FLASHBACK ARRESTORS for torches

E 460 - 1		connection	inlet → outlet	order no.
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV	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.
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV	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.
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV	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.
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV suitable coupling body: SK100-9, see p. 32	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

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

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

10. FLASHBACK ARRESTORS for torches

E 460 SK U



↑ ↑

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

DIN EN ISO 5175-1

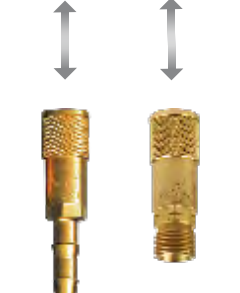
with integrated coupling body: EN 561

FA NV

suitable coupling probes: see section 14 "Quick couplings"

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

SK 100 - 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

RF 53 NU



↓ ↓


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

DIN EN ISO 5175-1

FA NV TV

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

85 - 10 NU



↓ ↓

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

DIN EN ISO 5175-1

FA NV TV

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

21/12/2020

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

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

10. FLASHBACK ARRESTORS for torches

85-10NU (eccentric)



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

eccentric outlet

DIN EN ISO 5175-1

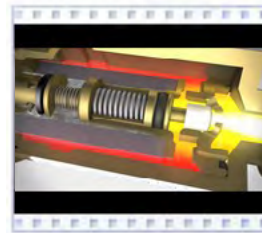
FA NV

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

21/12/2020

“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.

11. FLASHBACK ARRESTORS for cutting machines

E 460 - 3




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

DIN EN ISO 5175-1

FA NV

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

RF 53 U




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

DIN EN ISO 5175-1

FA NV

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

85 - 10 U



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

DIN EN ISO 5175-1

FA NV


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


21/12/2020


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

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

12. FLASHBACK ARRESTORS for high flows

RF53N/30		connection	inlet → outlet	order no.
 <p>Fuel gases 16 m³/h Air 12 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>[FA] [NV] [TV]</p> <p>for very low pressures without non-return valve:</p> <p>[FA] [TV] (order no. 145-136)</p>	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		connection	inlet → outlet	order no.
 <p>Fuel gases 30 m³/h Air 21 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>[FA] [NV] [TV]</p> <p>for very low pressures without non-return valve:</p> <p>[FA] [TV] (order no. 143-200 and 143-168)</p>	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		connection	inlet → outlet	order no.
 <p>Fuel gases (without acetylene): max. 371 m³/h Air 164 m³/h</p> <p>DIN EN ISO 5175-1</p> <p>[FA] [NV] [TV]</p> <p>pipeline fittings see next page</p>	270N	G 3/4 RH	AGS → MG	123-038
		G 1 RH	AGS → MG	123-041
		G 1.1/4 RH	AGS → MG	123-039
		G 1.1/2 RH	AGS → MG	123-040
		G 1/2 RH	IG → IG	123-054
		G 1 RH	IG → IG	123-057
	270NU (reverse flow)	G 3/4 RH	MG → AGS	123-046
		G 3/4 LH	MG → AGS	123-050
		G 1 RH	MG → AGS	123-047
		G 1 LH	MG → AGS	123-051
		G 1.1/4 RH	MG → AGS	123-048
		G 1.1/4 LH	MG → AGS	123-052
		G 1.1/2 RH	MG → AGS	123-049
		G 1.1/2 LH	MG → AGS	123-053

12. FLASHBACK ARRESTORS for high flows

623N/NU



Fuel gases 406 m³/h
Air 335 m³/h

DIN EN ISO 5175-1

FA NV TV

pipeline fittings see below

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

Pipeline fittings



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

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

21/12/2020

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

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

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



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

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

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

13. FLASHBACK ARRESTORS for central acetylene supply

FN12 / FN40

decomposition arrestor



Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

FN12 Q= ca. 76 m³/h
FN40 Q= ca. 140 m³/h

DIN EN ISO 5175-1
DIN EN ISO 14114

FA TV

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

Safety group 645/FN40

4- or 5-fold



Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

FN40 Q= ca. 140 m³/h

DIN EN ISO 5175-1

FA TV

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

HDS17

shut-off device



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.
„Linde“ M 28x1.5 LH - M 24x1.5 RH	IG → MG	210000011
„Messer“ M 28x1.5 LH - M 24x1.5 RH	IG → MG	210000020

13. FLASHBACK ARRESTORS for central acetylene supply

MGN		decomposition arrestor			
 <p>↑</p>	<p>Stops dangerous decomposition of acetylene in high pressure pipes in bottling plants</p> <p>Up to 25 bar</p> <p>DIN EN ISO 15615 DIN EN ISO 14114 EIGA Acetylene IGC DOC 123/4</p> <p><input type="checkbox"/> FA optional: <input type="checkbox"/> NV</p>	connection	inlet → outlet	order no.	
		MGN			
		G 1/2 RH - W21.8x1/14	AG → AG	022-014	
		G 1/4 RH	AGS → IG	022-011	

HD - NV		non-return valve for bows according DIN 477		
 <p>↓</p> <p>(O)</p>	<p>High pressure non-return valve to be wound onto the gas cylinder by using a bow in accordance with DIN 477, part 1, no. 3</p> <p>Up to 25 bar</p> <p>EN ISO 15615</p> <p><input type="checkbox"/> NV</p>	connection	inlet → outlet (O)	order no.
		HD-NV	DIN → G 1/4 RH AGS	210000022
		HD-NV incl. bow	DIN → G 1/4 RH AGS	210000022B

21/12/2020

“Every flashback arrestor 100% tested.

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



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

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

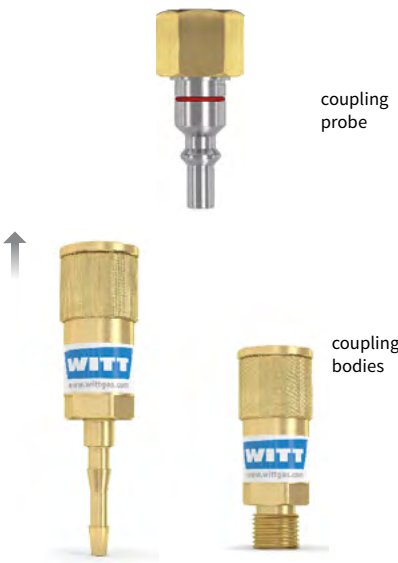
For an overview of our support material see p. 81-83

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

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

14. QUICK COUPLINGS

SK100-1



coupling probe

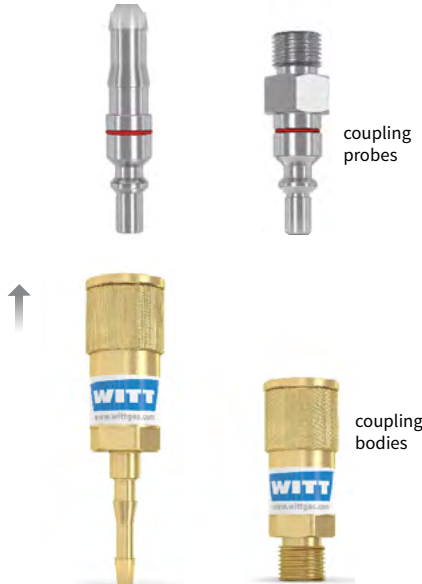
coupling bodies

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



coupling probes

coupling bodies

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

EN 561 / ISO 7289

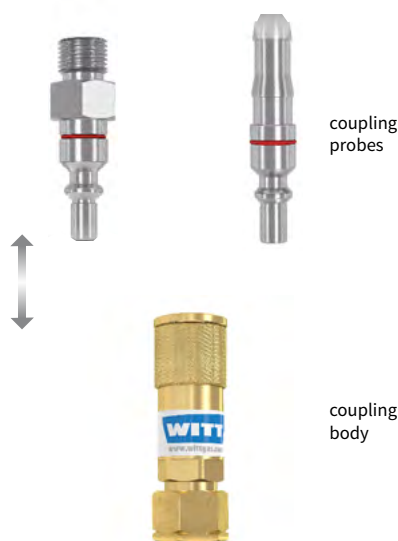
connection	inlet → outlet	order no.
• coupling probes (also for SK100-3)		
for fuel gases:		
4.0 mm	probe → nozzle	151-007
6.3 mm	probe → nozzle	151-009
8.0 mm	probe → nozzle	151-010
9.0 mm	probe → nozzle	151-011
G 3/8 LH	probe → AGS	151-048
for oxygen:		
4.0 mm	probe → nozzle	151-013
6.3 mm	probe → 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		

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14. QUICK COUPLINGS

SK100-3

for outlet points



coupling probes

coupling body

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

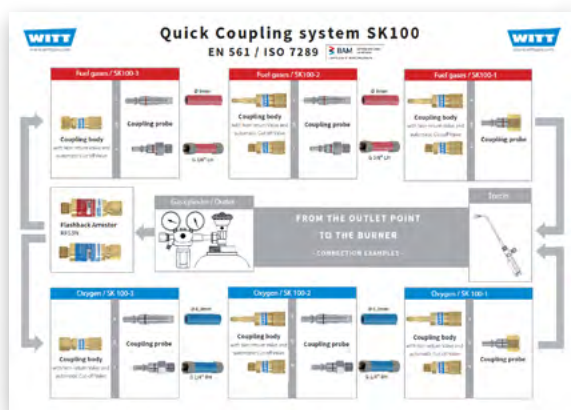
Coupling bodies with automatic gas cut-off valve

EN 561 / ISO 7289

21/12/2020

“Which coupling at which point? An overview.

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



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

download at: ▶ www.wittgas.com

For an overview of our support material see p. 81-83

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

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

14. QUICK COUPLINGS

Keymark coupling		for outlet points	
<p>coupling body</p> <p>keymark</p> <p>coupling probes</p>	connection	inlet ⇌ outlet	
	• coupling bodies		
	for fuel gases: G 3/8 LH	MG ⇌ coupling body	150-029
	for other gases: G 1/4 RH	MG ⇌ coupling body	150-033
	• keymark		801836700
	• coupling probes		
	for fuel gases: 4.0 mm	probe ⇌ nozzle	151-007
	6.3 mm	probe ⇌ nozzle	151-009
	8.0 mm	probe ⇌ nozzle	151-010
	9.0 mm	probe ⇌ nozzle	151-011
G 3/8 LH	probe ⇌ AGS	151-048	
for other gases: 6.3 mm	probe ⇌ nozzle	151-021	
G 1/4 RH	probe ⇌ AGS	151-047	
G 3/8 RH	probe ⇌ AGS	151-046	

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

EN 561 / ISO 7289


735 / 736		for outlet points	
<p>coupling probe</p> <p>coupling body</p>	connection	inlet ⇌ outlet	
	MODEL 735		
	• coupling bodies		
	for fuel gases: G 3/8 LH	MG ⇌ coupling body	041327500
	for oxygen: G 3/8 RH	MG ⇌ coupling body	041227500
	• probes		
	for fuel gases: G 3/8 LH	probe ⇌ MG	041328700
	for oxygen: G 3/8 RH	probe ⇌ MG	041228700
	MODEL 736		
	• coupling bodies		
	for fuel gases: G 1/2 LH	MG ⇌ coupling body	041327200
	for oxygen: G 1/2 RH	MG ⇌ coupling body	041227200
	• probes		
	for fuel gases: G 1/2 LH	probe ⇌ MG	041328200
	for oxygen: G 1/2 RH	probe ⇌ MG	041228200

Hose couplings for higher flows

DIN 8544

15. NON-RETURN VALVES ULTRA

ULTRA 10



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

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2


also available in stainless steel, see p. 51

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

design (standard):

filter:	seal O-ring:	seal valve:	housing:
yes	NBR	CR	Brass

ULTRA 12



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

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51


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

design (modular system):

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

Other models and connection types

ULTRA 20



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

Up to 16 bar / G 1", 1/2", 3/4"

NV

DIN EN ISO 5175-2


also available in stainless steel, see p. 51

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

design (standard):

filter:	seal O-ring:	seal valve:	housing:
yes	NBR	CR	Brass

ULTRA 22



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

Up to 16 bar / G 1", 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 51

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

design (modular system):

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

connection

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

filter seal O-ring seal valve housing

filter	seal O-ring	seal valve	housing	order no.
yes	FPM	FPM	Brass	036-013


Other models and connection types


21/12/2020

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

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

15. NON-RETURN VALVES ULTRA

ULTRA 30		connection	inlet → outlet	order no.
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar</p> <p>Up to 16 bar / G 1.1/2"</p> <p>NV</p> <p>DIN EN ISO 5175-2</p> <p>also available in stainless steel, see p. 52</p>	G 1.1/2 RH	IG → IG	033-001
		1.1/2" NPT	IG → IG	033-007
		design (standard):		
		filter: yes	seal O-ring: NBR	seal valve: CR
		housing: Brass		

ULTRA 40		connection	inlet → outlet	order no.
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar</p> <p>Up to 16 bar / G 2.1/2"</p> <p>NV</p> <p>DIN EN ISO 5175-2</p> <p>also available in stainless steel, see p. 52</p>	G 2.1/2 RH	IG → IG	035-001
		2.1/2" NPT	IG → IG	035-005
		design (standard):		
		filter: yes	seal O-ring: NBR	seal valve: CR
		housing: Brass		

21/12/2020

“ULTRA: Ultra-high performance comes as standard

ULTRA performance

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

ULTRA low opening pressure

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

ULTRA compact

Small and lightweight
Perfect for compact plant designs

ULTRA silent

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

ULTRA flexible

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

ULTRA safe

Reliably stops gas backflow and flashback

Typical applications



Low pressure pipelines



Thermal processing plants




Hydrogen applications



Biogas plants

15. NON-RETURN VALVES Standard

NV 654



↓

**Up to 60 bar
(O₂ up to 30 bar)**

Air max. 130 m³/h


NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

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

NV 100



↓

Up to 25 bar

Air max. 130 m³/h


NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 52

connection	inlet → outlet	order no.
G 1/8 RH	IG → IG	100145001
G 1/4 RH	IG → IG	100145002
G 3/8 RH	IG → IG	100145003
1/4" NPT	IG → IG	1001450
3/8" NPT	IG → IG	100145007

NV 600H



↓

Up to 40 bar


NV

DIN 8521-2

also available in stainless steel, see p. 53

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

NV 70 / 70U



↓

Up to 16 bar

Air max. 1,220 m³/h

NV

DIN EN ISO 5175-2

pipeline fittings see p. 36

connection	inlet → outlet	order no.
70		
G 3/4 RH	AGS → MG	123-009
G 1 RH	AGS → MG	123-012
G 1.1/4 RH	AGS → MG	123-014
G 1.1/2 RH	AGS → MG	123-015
70U (reverse flow):		
G 3/4 RH	MG → AGS	123-016
G 1 RH	MG → AGS	123-018
G 1.1/4 RH	MG → AGS	123-6
G 1.1/2 RH	MG → AGS	123-045

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

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15. NON-RETURN VALVES Standard

NV 300



Up to 16 bar

Air max. 3,260 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
G 1 RH	IG → IG	300038002
G 1.1/4 RH	IG → IG	300038031
1" NPT	IG → IG	3000388
1.1/4" NPT	IG → IG	300038065
DN 32 / PN 40	loose flange (with O-ring)	300038A009

NV 400



Up to 16 bar

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 53

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	400038024
G 2 RH	IG → IG	400038008
1.1/2" NPT	IG → IG	400038062
2" NPT	IG → IG	400038045
DN 40 / PN 40	loose flange (with O-ring)	400038A0
DN 50 / PN 40	loose flange (with O-ring)	400038A006
DN 65 / PN 40	loose flange (with O-ring)	400038A007
DN 80 / PN 40	loose flange (with O-ring)	400038A008

NV 400



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

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 53

intermediate flange version

connection	inlet → outlet	order no.
DN40	flange	400S-040MS
DN50	flange	400S-0MS

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

15. NON-RETURN VALVES

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

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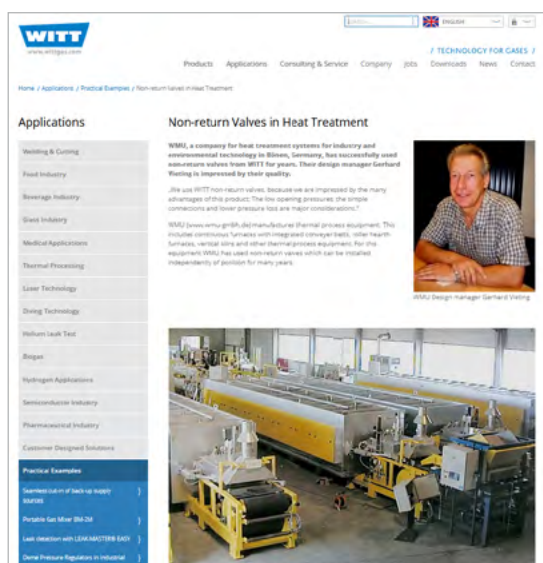
“Have you seen our case studies?”

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

Perhaps your topic is also included?


Read for example:


Non-return Valves in Heat Treatment





The screenshot shows the WITT website's 'Applications' section. The main heading is 'Non-return Valves in Heat Treatment'. The text describes WITT's expertise in heat treatment systems and mentions that their design manager, Gerhard E. Jentz, has successfully used WITT non-return valves for years. It highlights the advantages of the valves, such as simple connections and low pressure loss. A photo of Gerhard E. Jentz is included. Below the text is a photograph of industrial heat treatment equipment.

16. SAFETY RELIEF VALVES


SV 805		SV 805	order no.				
 <p>Option: adapter for ventilation pipe</p>	<p>For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units up to 45 bar</p> <ul style="list-style-type: none"> - CE 0045 - certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU - also available as „smart-model“ for connected manufacturing - also available in stainless steel, see p. 54 	<p>pressure settings: > 0.5 ≤ 45 bar various connections available</p>	<p>200-___ (in accordance with pressure-setting)</p>				
		<p>special sealing compound, surcharge</p> <p>Adapter to connect venting pipes and safety relief valve SV 805, including o-ring</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
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		SV 805A	order no.
	<p>For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units - manual ventilation- up to 45 bar</p> <ul style="list-style-type: none"> - CE 0045 - certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU - also available in stainless steel, see p. 54 	<p>with venting tool for manual ventilation, outlet: 1/2 NPT IG</p>	
		<p>pressure settings: > 0.5 ≤ 45 bar various connections available</p>	<p>200A-___ (in accordance with pressure-setting)</p>
		<p>special sealing compound, surcharge</p>	


SV 805 Smart		SV 805 Smart	order no.
	<p>Safety relief valve 805 including Smart function:</p> <ul style="list-style-type: none"> - optical signal (red/green diode) directly on the valve, indicates the open or closed condition - digital signal through an NPN / PNP open collector signal - also available in stainless steel, see p. 54 	<p>pressure settings: > 0.5 ≤ 45 bar various connections available</p>	<p>200SMART-___ (in accordance with pressure-setting)</p>
		<p>signal cable with angled plug, 2 m</p>	<p>850022900</p>
		<p>special sealing compound, surcharge</p>	

AV 815		outlet pressure	blow-off flow	opening pressure	order no.
	<p>Safety relief valve for acetylene - only to be used in connection with manifold pressure regulators conform to DIN EN ISO 7291</p>	0.6 bar	50 m³/h	0.75 bar	200-277
		0.7 bar	60 m³/h	0.95 bar	200-353
		0.8 bar	65 m³/h	1.25 bar	200-354
		0.9 bar	70 m³/h	1.25 bar	200-355
		1.1 bar	72 m³/h	1.55 bar	200-356
		1.5 bar	75 m³/h	1.90 bar	200-278
		2.0 bar	90 m³/h	2.50 bar	200-279
				connections: G 1/2 AG → M24 x 1 IG	

21/12/2020

AV 319			
	<p>For blowing-off gases and vapours from receivers, pipelines and other parts of the installation</p> <p>brass</p> <p>also available in stainless steel, see p. 55</p>	pressure settings	order no.
		10 - 80 mbar	120-___ (according to pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G 1/8 RH AG-IG	

AV 619			
	<p>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</p> <p>also available in stainless steel, see p. 55</p>	pressure settings	order no.
		5 - 500 mbar	300-___ (in accordance with pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G1/2, G3/4, G1 RH IG NPT 1/2", 3/4", 1" IG	

AV 919			
	<p>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</p> <p>aluminum anodised</p> <p>also available in stainless steel, see p. 55</p>	pressure settings	order no.
		5 - 500 mbar	400-___ (in accordance with pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G2 RH IG NPT 2" IG	

21/12/2020

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

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

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

Download brochure „Safety Relief Valves“ at www.wittgas.com

17. STAINLESS STEEL DEVICES

Series RF53N-ES



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

RF53N-ES: air max. 180 m³/h FA NV TV

RF53N/H-ES: air max. 46 m³/h FA NV TV

DIN EN ISO 5175-1

flashback arrestor

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

Series RF85-10N-ES



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

RF85-10N-ES: air max. 315 m³/h FA NV TV

RF85-10N/H-ES: air max. 82 m³/h FA NV TV

DIN EN ISO 5175-1

flashback arrestor

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

RF85-20N-ES



Air max. 360 m³/h


FA NV TV


DIN EN ISO 5175-1


flashback arrestor


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

17. STAINLESS STEEL DEVICES

Series RF85-30N-ES		flashback arrestor		
	RF85-30N-ES: Air max. 1,150 m³/h <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV	connection	inlet → outlet	order no.
	RF85-30N/H-ES: Air max. 310 m³/h <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV DIN EN ISO 5175-1	RF85-30N-ES		
		for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
		3/4" NPT	IG → IG	147-071
	1" NPT	IG → IG	147-092	
	RF85-30N/H-ES			
	for fuel gases (e.g. hydrogen up to 11 bar):			
	1 NPT	IG → IG	147-047	
	3/4" NPT	IG → IG	147-039	

Safety Group 645		RF85-30N-ES (2- or 4-fold)		
	Parallel connection from 2 or 4 flashback arrestors model RF85-30N-ES, ideal for high consumption and high flows	connection	inlet → outlet	order no.
	Acetylene max. 392 m³/h Fuel gases max. 2740 m³/h Oxygen max. 1850 m³/h DIN EN ISO 5175-1 <input type="checkbox"/> FA <input type="checkbox"/> NV <input type="checkbox"/> TV	for fuel gases or oxygen:		
		DN 50 (2fold)	flange DIN 2633	182-045
		DN 50 (4fold)	flange DIN 2633	182-042

F100N-ES		flashback arrestor		
	Air max. 32 m³/h <input type="checkbox"/> FA <input type="checkbox"/> TV DIN EN ISO 5175-1	connection	inlet → outlet	order no.
		for hydrogen (up to 17 bar):		
		1/2" NPT	IG → IG	210000012
		7/8" - 14 UNF VCR	AG → AG	210000019


F53		detonation/deflagration flame arrestor and volume protection		
	As flame arrestor ideal for mounting in pipelines up to DN 10 and to protect appliances, e.g. gas analysers.	connection	inlet → outlet	order no.
	The volume protection device is ideal for protection of plants and equipment with a volume of max. 4.6 l. <input type="checkbox"/> FA DIN EN ISO 16852	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	


21/12/2020


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


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

17. STAINLESS STEEL DEVICES

ULTRA 10		non-return valves "ULTRA"			
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar</p> <p>Up to 16 bar / G 1/2"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.	
		G 1/2 RH 1/2" NPT	IG → IG IG → IG	034-004 034-008	
		design (standard):			
		filter: yes	seal O-ring: NBR	seal valve: CR	housing: Stainless Steel


ULTRA 12		non-return valves "ULTRA"			
	<p>Based on ULTRA 10 - your customised model: various combinations of housing and sealing materials, with or without filter</p> <p>Up to 16 bar / G 1/2"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet		
		G 1/2 RH	IG → IG		
		design (modular system):			
		filter	seal O-ring	seal valve	housing
		no	EPDM	EPDM	Stainless Steel
Other models and connection types on request					


ULTRA 20		non-return valves "ULTRA"			
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar</p> <p>Up to 16 bar / G 1", 1/2", 3/4"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.	
		G 1/2 RH G 3/4 RH G 1 RH 1/2" NPT 3/4" NPT 1" NPT	IG → IG IG → IG IG → IG IG → IG IG → IG IG → IG	036-023 036-016 036-017 036-025 036-018 036-019	
		design (standard):			
		filter: yes	seal O-ring: NBR	seal valve: CR	housing: Stainless Steel


ULTRA 22		non-return valves "ULTRA"			
	<p>Based on ULTRA 10 - your customised model: various combinations of housing and sealing materials, with or without filter</p> <p>Up to 16 bar / G 1/2"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet		
		G 1/2 RH	IG → IG		
		design (modular system):			
		filter	seal O-ring	seal valve	housing
		no	EPDM	EPDM	Stainless Steel
Other models and connection types on request					


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17. STAINLESS STEEL DEVICES

ULTRA 30		non-return valves "ULTRA"		
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar</p> <p>Up to 16 bar / G 1.1/2"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.
		G 1.1/2 RH	IG → IG	033-006
		1.1/2" NPT	IG → IG	033-008
		design (standard):		
		filter: yes	seal O-ring: NBR	seal valve: CR
				housing: Stainless Steel

ULTRA 40		non-return valves "ULTRA"		
	<p>Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar</p> <p>Up to 16 bar / G 2.1/2"</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.
		G 2.1/2 RH	IG → IG	035-006
		2.1/2" NPT	IG → IG	035-005
		design (standard):		
		filter: yes	seal O-ring: NBR	seal valve: CR
				housing: Stainless Steel


654-ES		non-return valves "standard"		
	<p>Up to 60 bar (O₂ up to 30 bar)</p> <p>Air max. 130 m³/h</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.
		G 1/8 RH	IG → AG	120.403033


NV 100		non-return valves "standard"		
	<p>Up to 25 bar</p> <p>Air max. 130 m³/h</p> <p><input type="checkbox"/> NV</p> <p>DIN EN ISO 5175-2</p>	connection	inlet → outlet	order no.
		G 1/4 RH	IG → IG	145GRS-009


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

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

NV 600 H		non-return valves "standard"		
	<p>Up to 40 bar</p> <p>DIN 8521-2</p> <p>NV</p>	connection	inlet → outlet	order no.
		G 1/2 RH	IG → IG	037-064
		G 3/4 RH	IG → IG	037-065
		G 1 RH	IG → IG	037-048
		1" NPT	IG → IG	037-084

NV 300		non-return valves "standard"		
	<p>Up to 16 bar</p> <p>Air max. 3.260 m³/h</p> <p>NV</p> <p>DIN 8521-2</p>	connection	inlet → outlet	order no.
		G 1 RH	IG → IG	038-064
		G 1.1/4 RH	IG → IG	038-072
		1.1/4" NPT	IG → IG	038-061


NV 400		non-return valves "standard"		
 <p>NV400 Intermediate flange version</p>	<p>Up to 16 bar</p> <p>Air max. 8.100 m³/h</p> <p>NV</p> <p>DIN EN ISO 5175-2</p> <p>also available as intermediate flange version, completely with intermediate welding neck flange set for easy installation and removal</p>	connection	inlet → outlet	order no.
		G 1.1/2 RH	IG → IG	038-014
		G 2 RH	IG → IG	038-022
		intermediate flange version:		
		DN40	flange	038S-040ES
		DN50	flange	038S-050ES


NV800-ES		non-return valves "standard"		
	<p>Up to 300 bar</p>	connection	inlet → outlet	order no.
		1/4" NPT	AG → AG	311-002


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


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

17. STAINLESS STEEL DEVICES

SV 805-ES		safety relief valve	
 <p>Option: adapter for ventilation pipe</p>	<p>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</p> <p>up to 45 bar</p> <p>optional: adapter for ventilation pipe</p> <p>CE0045</p>	<p>SV 805-ES order no.</p> <p>pressure settings:</p> <p>> 0.5 ≤ 45 bar 200-___</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>Adapter to connect venting pipes to SV 805-ES</p> <p>connections M 24x1 AG → 1/2" NPT IG, st. steel 1.4541 801727800K</p> <p>connections M 24x1 AG → 1/2" NPT VCR AG, st. steel 1.4404 801693000K</p>	

SV 805A-ES		safety relief valve	
	<p>For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units</p> <p>- manual ventilation -</p> <p>up to 45 bar</p> <p>CE0045</p>	<p>SV 805A-ES order no.</p> <p>with venting tool for manual ventilation, outlet: 1/2 NPT IG</p> <p>pressure settings:</p> <p>> 0.5 ≤ 45 bar 200A-___</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>	

SV 805 Smart		safety relief valve	
	<p>Safety relief valve 805 including Smart function:</p> <p>- optical signal (red/green diode) directly on the valve, indicates the open or closed condition</p> <p>- digital signal through an NPN / PNP open collector signal</p>	<p>SV 805 Smart order no.</p> <p>pressure settings: > 0.5 ≤ 45 bar 200SMART-___</p> <p>with standard connections, in stainless steel 316L/1.4404</p> <p>with VCR connection, in stainless steel 316L/1.4404</p>	
		<p>signal cable with angled plug, 2 m 850022900</p> <p>special sealing compound, surcharge</p>	


SV 811 L		safety relief valve	
	<p>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</p> <p>up to 45 bar</p>	<p>pressure settings order no.</p> <p>> 4.5 - 45 bar 200AU-L-___</p> <p>(in accordance with pressure-setting)</p>	
		<p>adapter for the connection to ventilation pipe at the outlet</p> <p>diff. connections</p>	


21/12/2020


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

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

17. STAINLESS STEEL DEVICES


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


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


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


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18. PRESSURE REGULATORS

Pressure regulator		for outlet points		
 <p>To be connected directly to the outlet point</p> <ul style="list-style-type: none"> displays pressure and flow via manometer and/or variable area flow meter inlet MG, outlet AGS 	connections	manometer display	order no.	
	G 3/8 LH → G 3/8 LH	acetylene 0-1.5 bar	044112900	
	G 3/8 RH → G 1/4 RH	oxygen 0-10 bar	044226300	
	G 3/8 LH → G 3/8 LH	fuel gas 0-10 bar	044315000	
	G 3/8 RH → G 1/4 RH	nitrogen/air 0-10 bar	044526000	
		flow display (manometer)		
	argon, mixed gases and CO₂			
	G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524100	
	flow display (variable area flow meter)			
	argon, mixed gases and CO₂			
	G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524000	

Pressure regulator		for cylinders		
 <p>To be connected directly to the cylinder (200 bar), single-level</p> <ul style="list-style-type: none"> displays pressure and flow via manometer and/or variable area flow meter inlet DIN 477, outlet AGS 	connections	manometer display	order no.	
	clamp → G 3/8 LH	acetylene 0-1.5 bar	044113400	
	DIN 477 → G 1/4 RH	oxygen 0-10 bar	044227500	
	DIN 477 → G 1/4 RH	nitrogen 0-10 bar	044525500	
	DIN 477 → G 1/4 RH	argon or CO ₂ 0-10 bar	044525600	
		flow display (manometer)		
	argon, mixed gases and CO₂			
	DIN 477 → G 1/4 RH	0 - 30 l/min	044525700	
	flow display (variable area flow meter)			
	argon, mixed gases and CO₂			
	DIN 477 → G 1/4 RH	0 - 30 l/min	044525800	

ADR 150		manifold pressure regulator for acetylene			
 <p>Powerful dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles</p> <ul style="list-style-type: none"> optimal emptying of the bundle because of very low pressure difference extremely stable outlet pressure integrated blow-off valve flow capacity up to 150 m³/h 	connections	inlet pressure	outlet pressure	order no.	
	DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-002	
		special edition up to 2 bar outlet pressure available (on demand)			

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

21/12/2020

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 bar 278-108

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

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

replacement filter Stainless steel (1.4301) 100 µm 956.504300

series 737LE-HD (high pressure model)



737LE-HD



737LE-HD-ES



737LE-HD/S



737LE-HD/S-ES

BRASS

model 737LE-HD (brass), without pilot pressure regulator

G 3/4" IG - 1" IG 300 bar 0.5-60 bar 278-116

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

G 3/4" IG - 1" IG 300 bar 0.5-60 bar 292-0004
3/4" NPT IG - 1" NPT IG 300 bar 0.5-60 bar 292-0069

model 737LE-HD/S (brass), set - especially for CO₂

G 3/4" IG - 1" IG 100 bar 0.5-26 bar 292-0058

STAINLESS STEEL

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

G 3/4" IG - 1" IG 300 bar 0.5-60 bar 278-117

model 737LE-HD/S-ES (stainless steel), set (for O₂ max. up to Pv 30 bar)

G 3/4" IG - 1" IG 300 bar 0.5-60 bar 292-0056
3/4" NPT IG - 1" NPT IG 300 bar 0.5-60 bar 292-0114

replacement filter Bronze 100 µm 953.00030

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

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

*depending on type of gas

“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

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. 62)
- easy to install and to be integrated into the process

BRASS

STAINLESS STEEL

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

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

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

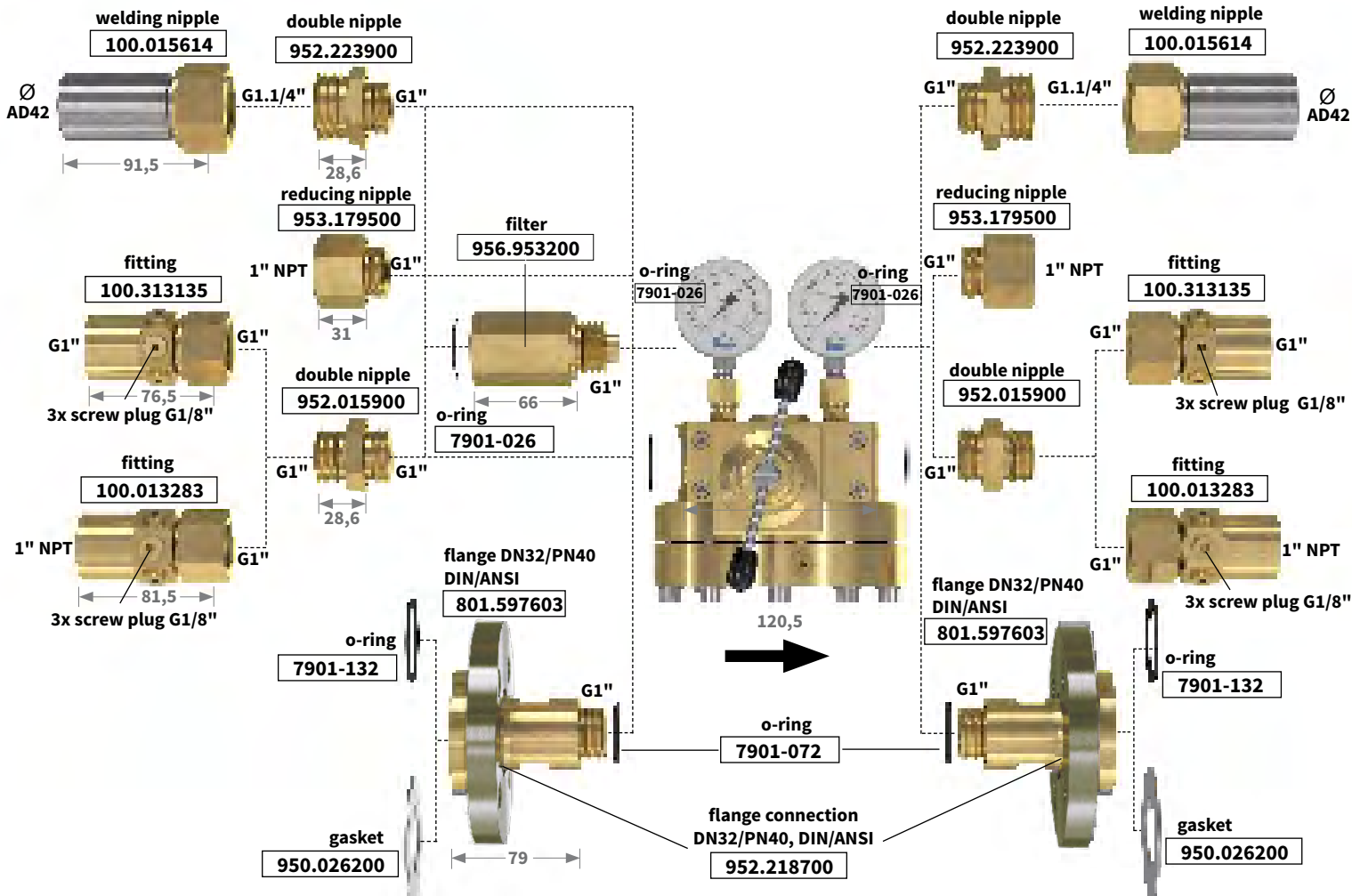
G 1" IG	40 bar	0.5-30 bar	278-099
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model 747LE/S-ES (stainless steel), set

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	292-0000
1" NPT IG	40 bar	0.5-30 bar	292-0109

stainless steel mounting parts on demand

*depending on type of gas



18. PRESSURE REGULATORS

Dome Pressure Regulators



757LE



757LE-ES



757LE/S



757LE/S-ES

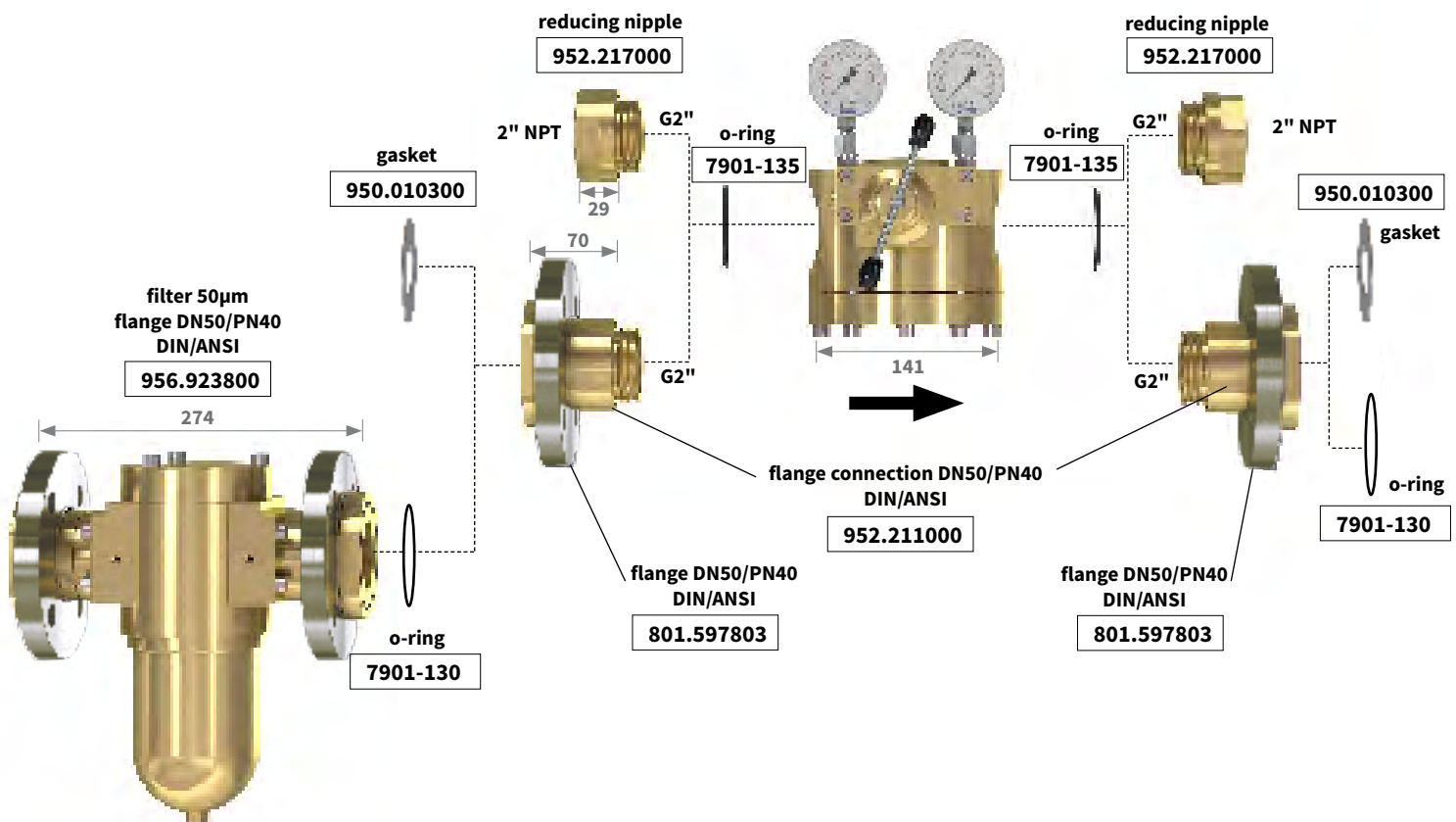
High performance pressure regulators for high flows, with maximum pressure stability. Complete solution for installation in pipelines.

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

series 757LE

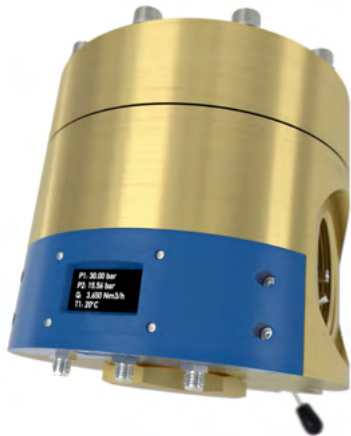
	connections	max. inlet pressure*	outlet pressure	order no.
BRASS	model 757LE (brass), without pilot pressure regulator			
	G 2" IG	40 bar	0.5-30 bar	278-089
	model 757LE/S (brass), set			
	flange DIN DN 50	40 bar	0.5-10 bar	292-0017
	flange DIN DN 50	40 bar	0.5-30 bar	292-0018
	G 2" IG	40 bar	0.5-10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

* depending on type of gas



Dome Pressure Regulators

757LE/S Smart



757 LE/S Smart

All brass models of the 757LE/S dome pressure regulator are available as Smart models.

Smart model variations

„Standard“

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

„Standard + P3“

„Standard“ features, plus indication of pilot pressure

„Standard + Flow“

„Standard“ features, plus indication of flow rate

„Standard + P3 + Flow“

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

signal cable with angled plug (5 m)

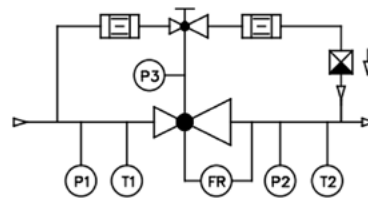
order no. 803097000

(3 cables are required to operate the device)

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

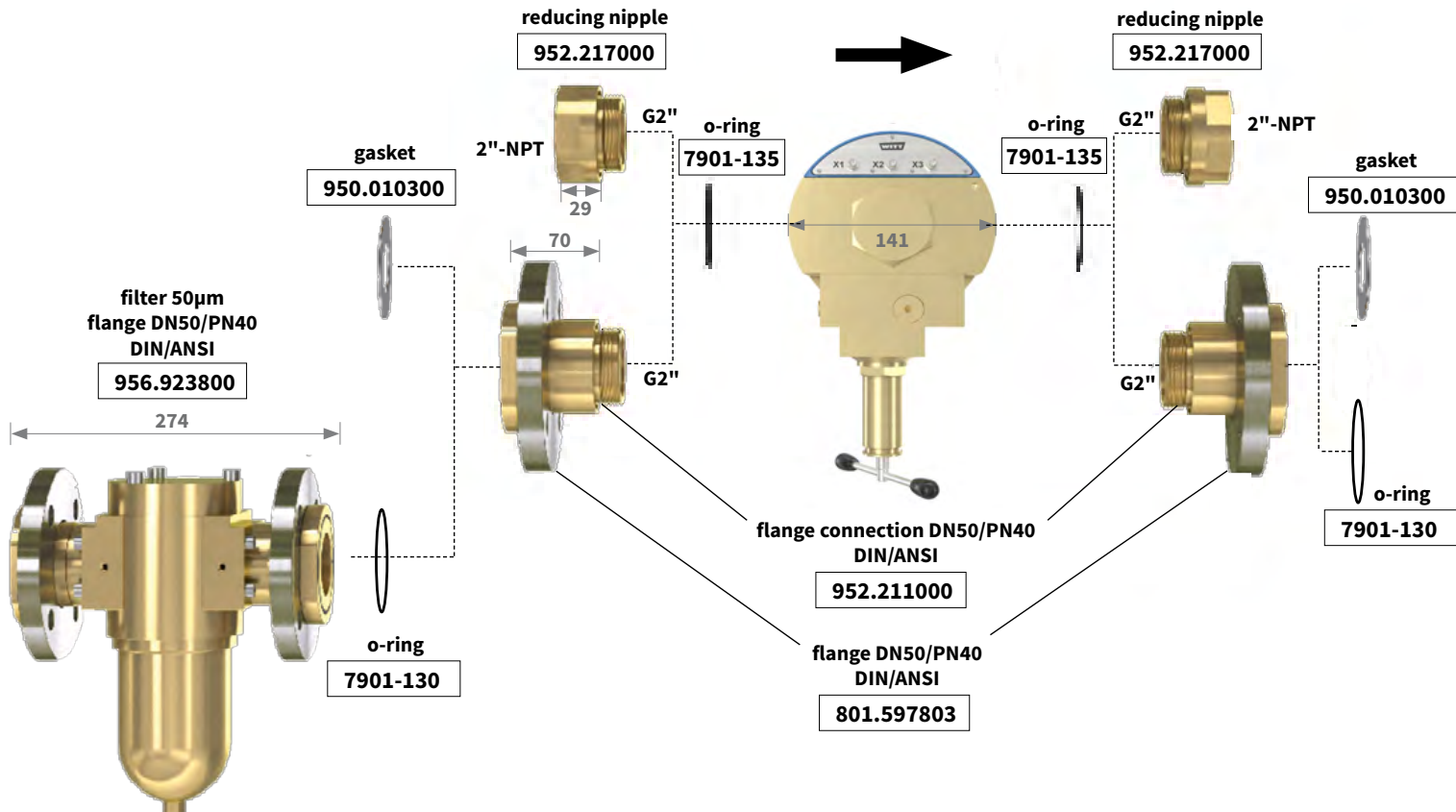
High performance dome-loaded pressure regulator set for inline installation, combined with high-tech sensor technology and electronic components.

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



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

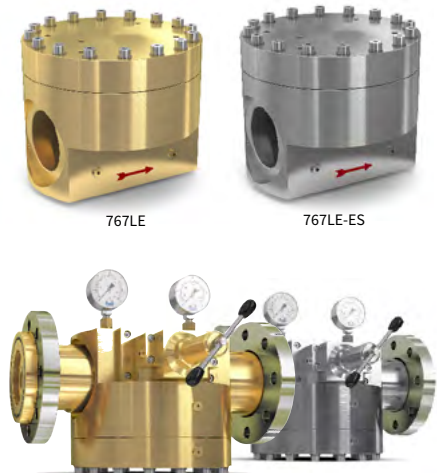
21/12/2020



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. 62)
- easy to install and to be integrated into the process
- 1: 1 interchangeable with the previous version (please specify if desired)

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

model 767LE (brass), without pilot pressure regulator

G 3" IG	40 bar	0.5-30 bar	278-090
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model 767LE/S (brass)

flange DIN DN 80	40 bar	0.5-10 bar	292-0008
flange DIN DN 80	40 bar	0.5-30 bar	292-0005
flange DIN DN 100	40 bar	0.5-10 bar	292-0013
flange DIN DN 100	40 bar	0.5-30 bar	292-0066
G 3" IG	40 bar	0.5-10 bar	292-0011
G 3" IG	40 bar	0.5-30 bar	292-0012
3" NPT IG	40 bar	0.5-10 bar	292-0108
3" NPT IG	40 bar	0.5-30 bar	292-___

mounting parts:

o-ring for flange G3"	7901-098
reducing nipple G3" - 3"NPT	952.222700
flange connection DIN DN80/PN40 (O-ring sealing)	953.206800
flange DIN DN80/PN40	801.598003
o-ring for flange DN100	7901-479
flange connection DIN DN100/PN40 (O-ring sealing)	953.218400
flange DIN DN100/PN40	802.560503
o-ring for flange DN80	7901-136
gasket for flange DN80	950.015300

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

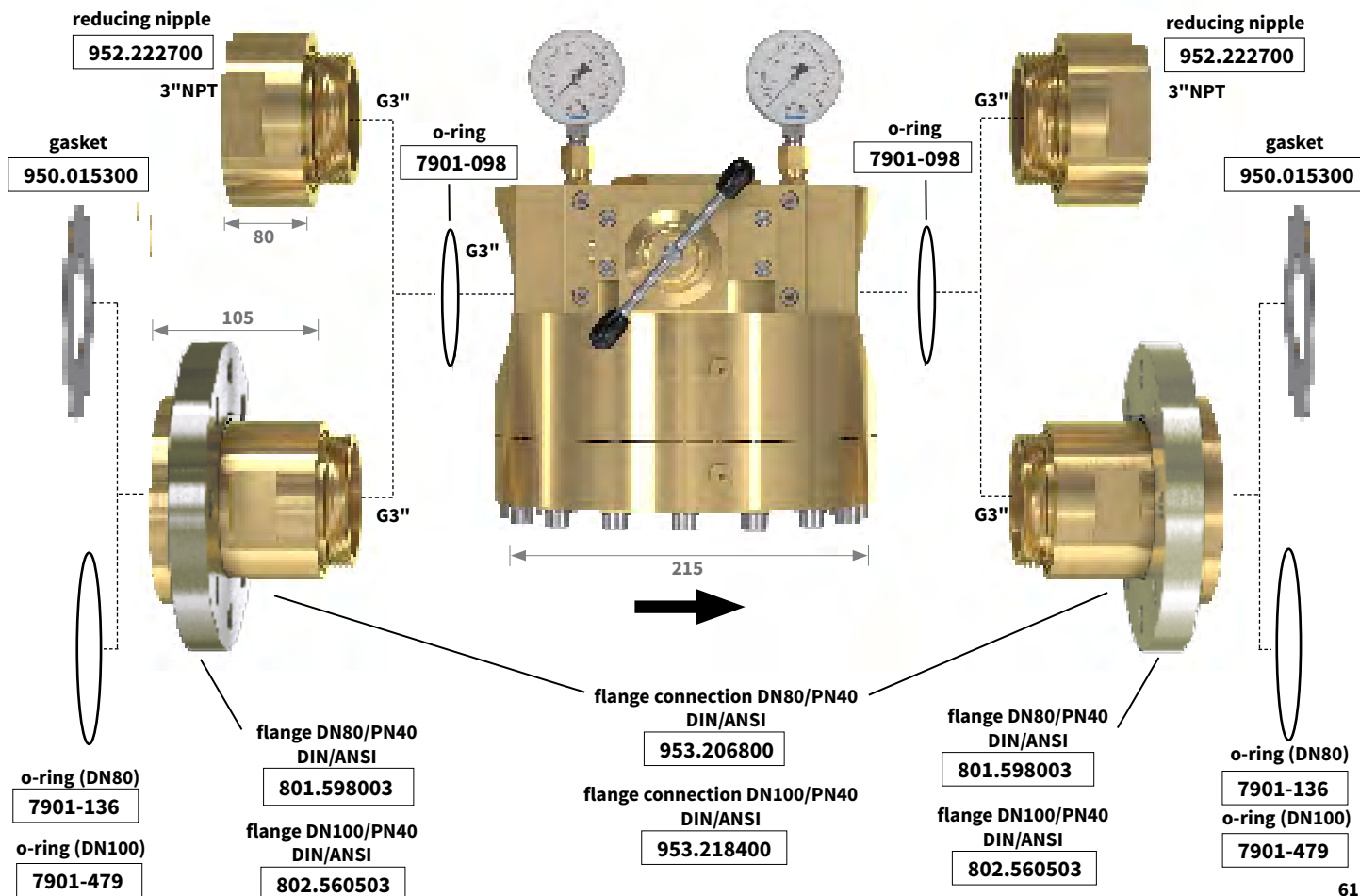
G 3" IG	40 bar	0.5-30 bar	278-___
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model 767LE/S-ES (stainless steel)

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

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18. PRESSURE REGULATORS

Dome Backpressure Regulator

BPR 2



BPR 2

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

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



BPR 2-ES

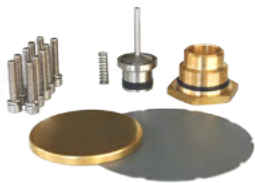
connections	adjustable upstream pressure	order no.
model BPR 2 (brass)		
G 2" IG	0.5-20 bar	276-001
model BPR 2 -ES (stainless steel)		
G 2" IG	0.5-20 bar	276-__ _
mounting parts see model 757LE (p. 54)		

Accessories

for dome pressure regulators



lockable spindle cap



maintenance kit

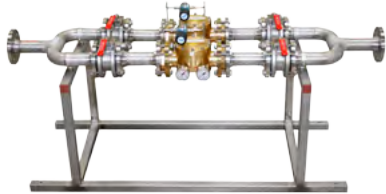
Accessories for WITT dome pressure regulators

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

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

Dome Pressure Regulators

engineering - planning and installation



parallel construction with 757LE/S



757LE/S with flange filter

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

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

643		pressure regulating station	order no.
 <p>Mobile pressure regulating station, completely mounted and tested, ready-to-use</p> <ul style="list-style-type: none"> for bundles with 4-6 integrated outlet points including flashback arrestors 85-10 for oxygen with pressure regulator customisations available 		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.
 <p>Mobile pressure regulating station, completely mounted and tested, ready-to-use</p> <ul style="list-style-type: none"> for pipelines or connected to model 642 including flashback arrestors 85-10 for oxygen with pressure regulator customisations available 		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.
 <p>Mobile pressure regulating station, completely mounted and tested, ready-to-use</p> <ul style="list-style-type: none"> for pipelines or connected to model 642 including flashback arrestors 85-10 for oxygen with pressure regulator customisations available 		6-outlets oxygen (40 bar/ 0-10 bar)	183000153
		6-outlets acetylene (1.5 bar)	183000154

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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)

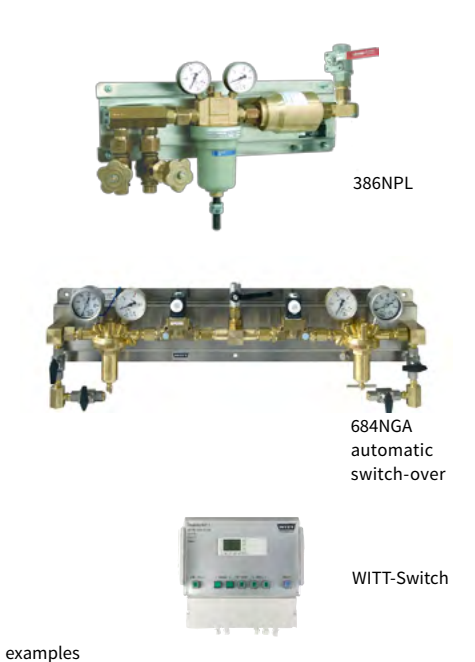
model	connection	flow	order no.
DRS 684NG	single left, +HDS17* (VI)	10 Nm ³ /h	193-015-001
DRS 684NG	single left, +HDS17* (HI)	10 Nm ³ /h	193-016-001
DRS 684NG	single left, no HDS17 (VI)	10 Nm ³ /h	193-001-001
DRS 684NG	single left, no HDS17 (HI)	10 Nm ³ /h	193-006-001
DRS 386NPL	single left (VI)	30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

* shut-off device, see p. 37 (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 ³ /h	193-001-___
DRS 684NG	single left (HI)	75 Nm ³ /h	193-006-___
DRS 386NPL	single left (VI)	200 Nm ³ /h	195-001-___
DRS 684NG	both-sided (VI)	75 Nm ³ /h	193-002-___
DRS 684NG	both-sided (HI)	75 Nm ³ /h	193-007-___
DRS 386NPL	both-sided (VI)	200 Nm ³ /h	195-002-___
DRS 684NGA			
autom. switch-over both-sided (VI)		75 Nm ³ /h	193-004-___
autom. switch-over both-sided (HI)		75 Nm ³ /h	193-009-___
DRS 386NGA			
autom. switch-over both-sided (VI)		200 Nm ³ /h	193-011-___
autom. switch-over both-sided (HI)		200 Nm ³ /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

21. OUTLET POINTS



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 m³/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 m³/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 m³/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)

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“See our production site...



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

See what WITT has achieved in its 75 year history. See our production site in Witten, Germany and discover our large product range.

Download at ▶ 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 722	101000010
clamp 743	101000012

inspection plates	801412700
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measurement liquid 50 ml (U-tube)	956904000
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adapters for other connections on demand

product video and further information on
 ▶ www.wittgas.com

21/12/2020

“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, O₂, other fuel gases, inert gas) should be checked for safety at least annually.


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


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

23. EQUIPMENT FOR OXYGEN LANCING

LK		lance holders		
	Lance holders for oxygen <ul style="list-style-type: none"> for safe and comfortable holding of lance for quick and safe changeover 	model	inlet → outlet (Ø pipe in mm)	order no.
		LK-3	G 3/4 AGS → 1/8" (9.1 - 10.2)	040996500
		LK-4	G 3/4 AGS → 1/4" (12.0 - 13.7)	040996200
		LK-5	G 3/4 AGS → 3/8" (16.0 - 17.2)	040996100
		LK-6	G 3/4 AGS → 1/2" (20.0 - 21.5)	040996300
		LK-7	G 1 AGS → 3/4" (26.0 - 27.3)	040687000
		inlet reducer:		
		G3/8 AGS → G3/4 IG		802339600K
		G1/2 AGS → G3/4 IG		802339700K
		G3/4 AGS → G 1 IG		802418700K

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

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

KLK		lance holder compact		
	Compact lance holder, with integrated lever valve, non-return valve and temperature controlled cut-off valve <ul style="list-style-type: none"> combination of several safety elements in one device compact and ergonomic 	model	inlet → outlet (Ø pipe in mm)	order no.
		KLK-4	G 3/4 AGS → 1/4" (12.0 - 13.7)	040210400
		KLK-5	G 3/4 AGS → 3/8" (16.0 - 17.2)	040210500
		KLK-6	G 3/4 AGS → 1/2" (20.0 - 21.5)	040210600

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


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24. GAS FILTERS


6 2 2		model	connections	order no.
 <p>Modell C</p>	<p>For reliable protection against contamination by ultrafine filtering of particulates (approx. 40 µm)</p> <ul style="list-style-type: none"> • broad range of uses • change of filter possible while installed • high flowrate • easy mounting • increases service life of downstream fittings and equipment 	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


7 7		model	connections	order no.
	<p>For reliable protection against contamination by ultrafine filtering of particulates and moisture</p> <ul style="list-style-type: none"> • with condensate drain • increases service life of downstream fittings and equipment • change of filter possible while installed • high flowrate 	77 (approx. 40 µm)	G 3/4 IG	077-001
		replacement filter 3-part		FI-077
		77 (approx. 10 µm)	G 3/4 IG	077-004
		replacement filter 3-part		FI-078
		77 (approx. 50 µm)	G 3/4 IG	077-010
		BAM tested for oxygen, with bronze filter		
		replacement filter bronze 3-part		FI-077B
		77 (approx. 5 µm)	G 3/4 IG	077-012
		BAM tested for oxygen, with bronze filter		
		replacement filter bronze 3-part		FI-077B8
		installation kit		966.0313
		enabling active monitoring of filter contamination by means of differential pressure		

6 2 5		model	connections	order no.
	<p>For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 40 µm)</p> <ul style="list-style-type: none"> • with condensate drain • increases service life of downstream fittings and equipment • change of filter possible while installed • high flowrate 	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


5 7		pure filter		
		model	connections	order no.
	<p>For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (~3 µm)</p> <ul style="list-style-type: none"> • resistant to corrosion by stainless steel filter inserts • high flowrate • increases service life of downstream fittings 	57	G 3/8 IG - G 3/8 AGS	184007070
		replacement filter		FI-057

24. GAS FILTERS

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


HD		stainless steel filter		
	<p>For reliable protection against micro-contamination of gases, for installation in gas pipelines</p> <ul style="list-style-type: none"> filter inserts in chromium-nickel-steel high flowrate increases service life of downstream fittings and equipment 	model	connections	order no.
		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 with sintered element		
	<p>For precise setting of gas volumes, e.g. in laboratory or for burner supply</p> <ul style="list-style-type: none"> for very small gas flow rates resistant to dirt compared to needle valves available with three different degrees of fineness available as mounted block or just as valve cartridge 	model		
		PMV with digital knob and locking ring		
		PMV with standard knob		
		metering valve cartridge		


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26. BALL VALVES

Ball valves		for acetylene		
 <p>example</p>	<p>PN25 up to max. 1.5 bar working pressure</p> <p>DIN ISO 228/1</p> <ul style="list-style-type: none"> 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		
 <p>example</p>	<p>PN25 up to max. 25 bar working pressure</p> <p>DIN ISO 228/1</p> <ul style="list-style-type: none"> 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		
 <p>example</p>	<p>PN10 up to max. 10 bar working pressure</p> <p>DIN ISO 228/1</p> <ul style="list-style-type: none"> 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		
 <p>example</p>	<p>PN40 burn out safe up to max. 40 bar working pressure</p> <p>DIN ISO 228/1</p> <ul style="list-style-type: none"> 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



PN40

EN 560

- housing: nickel-plated brass
- male connections

DN / connection

length

order no.

for acetylene (max. 1.5 bar):

10 / G 3/8 RH AGS - G 3/8 LH AGS 89 mm 198107082

for fuel gases (max. 40 bar):

10 / G 3/8 RH AGS - G 3/8 LH AGS 89 mm 198107082

for oxygen (max. 30 bar):

10 / G 3/8 RH AGS - two-sided 89 mm 198207072

for shielding gas (max. 40 bar):

10 / G 3/8 RH AGS - two-sided 89 mm 198307078

Flange ball valve



example

DN

length

order no.

for acetylene (max. 1.5 bar):

20 150 mm 198150500

25 160 mm 198147470

32 130 mm 198152521

40 140 mm 198153531

50 150 mm 198154542

65 170 mm 198155551

80 180 mm 198156560

100 190 mm 198157570

for air and shielding gas (max. 40 bar):

20 150 mm 198350502

25 160 mm 198351515

32 130 mm 198252525

40 140 mm 198353533

50 150 mm 198354543

for air and shielding gas (max. 25 bar):

65 170 mm 198355553

80 180 mm 198356561

100 190 mm 198357571

for oxygen (max. 10 bar):

20 150 mm 198250500

25 160 mm 198247470

32 130 mm 198252521

40 140 mm 198253532

50 150 mm 198254540

65 170 mm 198255551

80 180 mm 198256561

100 190 mm 198257570

PN25 / PN40

EN 558-1 (DIN 3202)

- housing: steel

Flange ball valves



example

PN40

up to max. 40 bar working pressure

- housing: stainless steel
- burn-out safe

for oxygen

DN

length

order no.

20 150 mm 198250502

25 160 mm 198251510

32 130 mm 198252523

40 140 mm 198253534


50 150 mm 198254543

65 170 mm 198255552


80 180 mm 198256562

100 190 mm 198257571

26. BALL VALVES

High pressure ball valves		for acetylene		
 <p>PN320 max. 25 bar DIN ISO 228/1</p> <ul style="list-style-type: none"> 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		
 <p>Safety hose reel with twin hoses DN 9/6,3</p> <ul style="list-style-type: none"> drum breaking mechanism prevents strain on hose guide rails on both sides ensure neat and strain-free rolling various mounting options ball-bearing mounted drum 	model	length of hose	order no.	
	DS-08	8 m	060120800	
	DS-10	10 m	060121000	
	DS-15	15 m	060121500	
	DS-20	20 m	060122000	
	DS-25	25 m	060122500	
	DS-30	30 m	060123000	

21/12/2020

“More than standard connections, pressures and performance.

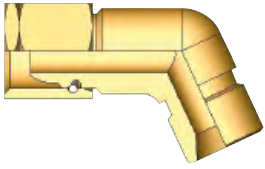


When we say, "Please specify gas, pressures, temperatures, flows and connections at time of enquiry and order. For some gases, special seals may be required. Special designs, higher flow capacities or different pressures on demand" this is not just a standard text on our data sheets and catalogues, it's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

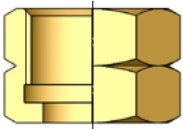
For most models we offer many more options than the standard versions.

28. ACCESSORIES

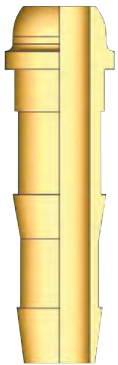
Angle adapters

PN10		connection A	connection B	order no.
connection A  connection B	EN 560	G 1/4 RH	G 1/4 RH	100005059
	<ul style="list-style-type: none"> A=MG angle: 115° B=AGS 	G 3/8 RH	G 1/4 RH	100107051
		G 3/8 RH	G 3/8 RH	100107079
		G 3/8 LH	G 3/8 LH	100008089
		G 3/8 LH	M 14x1.5 RH	100008651


Nuts

EN 560		connection	order no.
		G 1/4 LH	951001000
		G 1/4 RH	951000900
		G 3/8 LH	951000800
		G 3/8 RH	951000700
		G 1/2 LH	951000600
		G 1/2 RH	951000500
		G 3/4 LH	951001600
		G 3/4 RH	951001500
		G 1 LH	951001400
		G 1 RH	951001300
		for nozzle $\varnothing \geq 12.5$ mm:	
		G 1/2 RH	951019900
		G 1/2 LH	951020000

Nipples

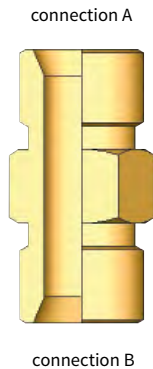
EN 560		female connection		
		for nuts	for hose DN	order no.
 DN		G 1/4	4.0	952057900
		G 1/4	6.3	952022100
		G 3/8	4.0	952058000
		G 3/8	6.3	952022200
		G 3/8	8.0	952028600
		G 3/8	9.0	952022300
		G 1/2	6.3	952030800
		G 1/2	9.0	952035200
		G 1/2	11.0	952022400
		G 1/2	12.5	952035300
		G 3/4	11.0	952022500
		G 3/4	16.0	952022600

Nipples

EN 560		male connection		
		connection A	for hose DN	order no.
connection A  DN	<ul style="list-style-type: none"> A=AGS 	G 1/4 RH	4.0	952031000
		G 1/4 RH	6.3	952027400
		G 3/8 RH	6.3	952031400
		G 3/8 RH	9.0	952031600
		G 3/8 LH	9.0	952027200
		G 1/2 RH	9.0	952031800
		G 1/2 LH	9.0	952031700
		G 1/2 RH	11.0	952031900
		G 1/2 LH	11.0	952027000

28. ACCESSORIES

Screwed couplings



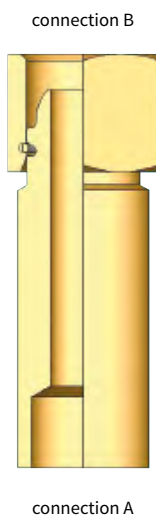
connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	952006000
G 3/8 RH	G 1/4 RH	952007200
G 3/8 LH	G 1/4 RH	952007100
G 3/8 RH	G 3/8 RH	952007000
G 3/8 RH	G 3/8 LH	952007300
G 3/8 LH	G 3/8 LH	952007400
G 3/8 RH	G 1/2 RH	952015800
G 3/8 LH	G 1/2 RH	952006900
G 1/2 RH	G 1/4 RH	952014200
G 1/2 RH	G 1/2 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



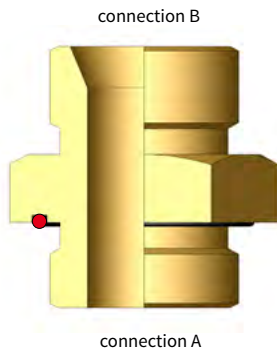
connection A	connection B	order no.
12 mm	G 3/8 RH	100007760
12 mm	G 3/8 LH	100008760
15 mm	G 1/2 RH	100009613
15 mm	G 1/2 LH	100010613
16 mm	G 1/2 RH	100009617
18 mm	G 1/2 RH	100009612
18 mm	G 1/2 LH	100010612
22 mm	G 1/2 RH	100009820
22 mm	G 1/2 LH	100010820
22 mm	G 3/4 RH	100011612
22 mm	G 3/4 LH	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

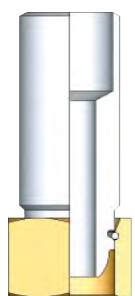
EN 560

- 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

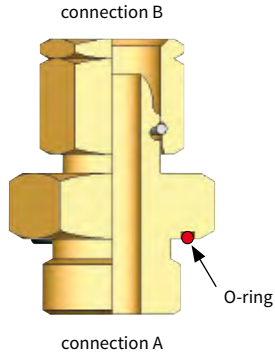
For pipes, with nut

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



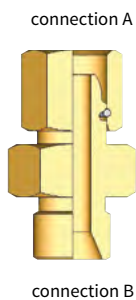
connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005055K
G 1/4 RH	G 1/4 LH	100005060K
G 1/4 RH	G 3/8 RH	100107054K
G 1/4 RH	G 3/8 LH	100008051K
G 3/8 RH	G 3/8 LH	100008073K
G 3/8 RH	G 1/2 LH	100010070K
G 3/8 RH	G 1/2 RH	100009073K
G 3/8 RH	G 3/8 RH	100207071K
G 1/2 RH	G 3/8 RH	100007092K
G 1/2 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

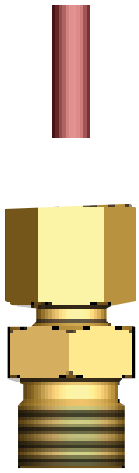
Male thread, nut

EN 560

- A=MG
- B=AGS

28. ACCESSORIES

Cap with chain		connection A	order no.
 <p>connection A</p>	EN 560	G 1/4 RH	100005000
	• A=MG	G 3/8 RH	100007000
		G 3/8 LH	100008000
		G 1/2 RH	100009000
		G 1/2 LH	100010000
		G 3/4 RH	100011000
		G 3/4 LH	100012000
		G 1 RH	100013000
		G 1 LH	100014000


WITTFIX-pipe couplings		pipe Ø mm	connection A	order no.
 <p>pipe</p> <p>WITTFIX</p> <p>nut</p> <p>connection A</p>		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

21/12/2020

WITTFIX-pipe couplings		pipe Ø mm	connection A	connection B	order no.
	pipe	6 x 1.0	G 1/4 RH		956725400
		6 x 1.0	G 3/8 LH		956659700
	WITTFIX A	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
	connection A	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
	safety device	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	
connection B	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	
WITTFIX B	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	
pipe					

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

21/12/2020

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"> • Gas safety equipment • Gas mixing systems • Gas analysis systems • Leak detection systems
The training will be tailored to the knowledge of the attendees, with theory and practical elements as required. By request a test can be held at the end of the training.
Daily rate (per person): Including lunch, excluding hotel accommodation
Location: WITT headquarter in Witten
Minimum attendance: 4 persons
Maximum attendance: 8 persons

Documentation, Certification and Instruction manuals

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

General Terms and Conditions

The 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.

Security Fee: 20 € per shipment for third country outside of EU

Due to the national and international regulations checked by the Federal Aviation Authority (LBA) we had to introduce different procedures to get the status of an authorized consignor for airfreight shipments. This saves you time and money as our shipments are marked as “secure”. They don’t need any additional costly and time-consuming screening at the airport.

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

Conversion of units of measurement:

Pressure	all pressure specifications are in barg 10 bar = 145 psi
Flow	10 m ³ /h = 353 scfh
Temperature	°C * 1.8 + 32 = °F
Volume	10 litres = 21 pints / 2.2 gallons
Length	10 mm = 0.3937 inches 1 m = 39.37 inches

Please note:



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

Brochures

Central gas supply



Stainless steel devices



Dome pressure regulators



Safety relief valves



Overview MAP-portfolio



Gas analysis



Leak detection



MAP for fruit and vegetables



Overview gas mixers

Synthetic-air gas mixer

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

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

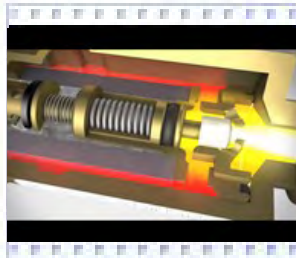
Download at ► www.wittgas.com

Product videos

Dome Pressure Regulators



Flashback arrestors



Gas mixer KM-MEM+



OXYBABY 6.0



CO₂ Leak detection PRO 2



Inline leak detection

Download at ▶ www.wittgas.com or Youtube

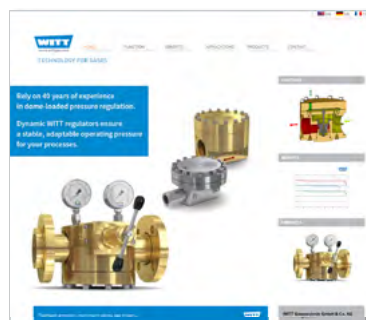
Product specific websites by WITT

Everything about WITT leak detection



▶ www.leak-master.net

Everything about WITT dome pressure regulators



▶ www.domepressureregulators.com

Everything about WITT OXYBABY®



▶ www.oxybaby.com

WITT-App

iGases - Interactive lexicon for technical gases

Features:

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



iGases for Apple



iGases for Android

Download at google play or at the apple app store

OUR PRODUCT RANGE

GAS CONTROL EQUIPMENT

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

GAS SAFETY EQUIPMENT

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

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