WITT

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/ TECHNOLOGY FOR GASES /

CATALOGUE 2024

Quality products from WITT

Benefits to you:

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

Our product range

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

Engineering services included. Working closely with you.

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

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

Any other questions?

We provide you with expert answers!

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

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CONTENT

Gas Control Equipment

Gas Safety Equipment

Miscellaneous

GAS MIXERS for non-flammable gases

KM 20 ECO

2 gases | small flows

data sheet

Small gas mixer especially for dispensing equipment

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

model

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

MM

2 gases | small to medium flows

data sheet

Compact gas mixer for different applications

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

model

MM-2
MM-2K
MM-2G

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

GAS MIXERS for non-flammable gases

MM FLEX

2 gases | small to medium flows

data sheet

product video

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

- adjustable mixing valve
- adjustable metering valve
- adjustable pressure

model

MM FLEX

BM

2 gases | small flows

data sheet

product video

Gas mixer for direct cylinder connection (high pressure)

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

model

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for non-flammable gases

KM10-2 FLEX

2 gases | small flows

data sheet

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

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

model

KM10-2 Flex

MG Fix

2 or 3 gases | medium to high flows

data sheet

product video

Pre-set 2 or 3 components gas mixers

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

model

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

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

options:
Inlet pressure monitoring with alarm module AM3

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

GAS MIXERS for non-flammable gases

MG Flex

2 gases | medium to high flows

data sheet

product video

Adjustable 2 components gas mixers for welding applications

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

model

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

options:
inlet pressure monitoring with
alarm module AM3

KM

2 or 3 gases | small to medium flows

data sheet

Mixing system for different technical applications

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

model

KM-2 for 2 gases
KM 20-2
KM 30-2
KM 60-2
KM 100-2

KM-3 for 3 gases
KM 20-3
KM 30-3
KM 60-3
KM 100-3

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for non-flammable gases

KM-M

2 or 3 gases | medium to high flows

for food-grade gases, conforms to 1935/2004

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

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

data sheet KM100/200-M

data sheet KM300/600-M

product video

model

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

KM-3M for 3 gases
KM 100-3M
KM 200-3M
KM 300-3M
KM 600-3M

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

In our brochure you can read everything you always wanted to know about WITT gas mixers

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

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

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

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

Download at www.wittgas.com

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for non-flammable gases

KM-ME

2 or 3 gases | low to very high flows

KM100-2ME on steel receiver

data sheet

product video

Powerful gas mixer especially for highly fluctuating mixing gas output quantities

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

model

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

KM-2ME for 3 gases
KM 100-3ME
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for non-flammable gases

KM-M+

2 or 3 gases | medium to high flows

for food-grade gases, conforms to 1935/2004

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

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

model

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

KM-3M+ for 2 gases
KM 100-3M+
KM 200-3M+

options:
operation via touch-screen display
coupling socket set

KM-FLOW

2 or 3 gases | medium to high flows

for food-grade gases, conforms to 1935/2004

KM-Flow with analysis

data sheet

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

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

model

KM1000-2 FLOW for 2 gases
KM 1000-2 FLOW for flow-pack machines
KM 1000-2 FLOW for vacuum machines

KM1500-3 FLOW for 3 gases
KM 1500-3 FLOW for 3 gases
KM 1500-3 FLOW for vacuum machines

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for non-flammable gases

MG-2ME

2 gases | low to very high flows

MG50-2ME on steel receiver

data sheet MG 50/100-ME

data sheet MG 200-ME

product video

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

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

model

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

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

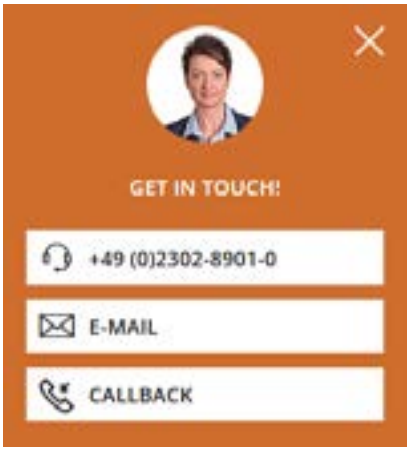
MG 200-2ME (see option „external filter“)

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

Do you need advice?

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

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



Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer‘s certificate see p. 136.

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MG-3ME

3 Gase | low to very high flows

MG50-3ME

data sheet MG 50/100-ME

product video

alarm module AM3

data sheet AM3

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

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

model

MG 50-3ME
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver

MG 100-3ME
mounted on 250 l / 11 bar steel receiver
mounted on 250 l / 11 bar stainless steel receiver

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

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

Do you already know the WITT YouTube channel?

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

Subscribe to our channel and be among the first to be informed about new videos.

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer‘s certificate see p. 136.

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KM-MEM

2 or 3 gases | low to high flows

for food-grade gases, conforms to 1935/2004

KM100-2MEM

KM100-3MEM

data sheet

product video

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

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

model

KM-2MEM for 2 gases

KM 100-2MEM
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM 200-2MEM
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM-3MEM for 3 gases

KM 100-3MEM
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM 200-3MEM
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

options:
automatic shut-off e.g. of O2
when going below the limit

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

KM-MEM+

2 or 3 gases | low to high flows

for food-grade gases, conforms to 1935/2004

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

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

data sheet

model

KM-2MEM+ for 2 gases

KM 100-2MEM+
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM 200-2MEM+
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM-3MEM+ for 3 gases

KM 100-3MEM+
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

KM 200-3MEM+
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver

options:
operation via touch-screen display
coupling socket set
interface modules (hardware, assembly, testing)
module Profinet
module Analogue 0-10V
module RS232

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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MG-MEM+

2 or 3 gases | higher flows

for food-grade gases, conforms to 1935/2004

data sheet

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

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

model

MG-2MEM+ for 2 gases

MG 50-2MEM+
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver
mounted on 250 l / 11 bar stainless steel receiver
mounted on 250 l / 11 bar stainless steel receiver

MG-3MEM+ for 3 gases

MG 50-3MEM+
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver
mounted on 250 l / 11 bar stainless steel receiver
mounted on 250 l / 11 bar stainless steel receiver

options:
operation via touch-screen display
coupling socket set
interface modules (hardware, assembly, testing)
module Profinet
module Analogue 0-10V
module RS232

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GASFLOW CONTROL SYSTEMS
for non-flammable gases

KD

gas flow controller with O2 analysis

for food-grade gases, conforms to 1935/2004

data sheet

Electronical flow control systems for modified atmospheres in the food industry

- with integrated zirconia cell for O2-measurement
- integrated PID control loop for automatic gas flow control
- potential free contacts for min./ max. alarms

model

KD 500-1A MAPY ZRL

options:
sample testing via needle
additional electrochemical sensor for sample testing
heater and thermostat, only electro-chemical sensors

KM-MAPY ZRL

gas mixer and meterer

for food-grade gases, conforms to 1935/2004

2-components gas mixers with integrated O2 analysis

- with integrated zirconia cell for O2-measurement
- integrated PID control loop for automatic gas flow control
- potential free contacts for min./ max. alarms
- MAPY-analysis

model

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

options:
gas mixer M+ (remote control)

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for flammable gases

KM-10-2 FLEX

2 gases | small flows

data sheet

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

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

model

KM10-2 FLEX

KM

2 or 3 gases | small to medium flows

data sheet

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

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

model

KM-2 for 2 gases (1 gas flammable)
KM 20-2
KM 30-2
KM 60-2
KM 100-2

KM-3 for 3 gases (max. 2 flammable gases)
KM 20-3
KM 30-3
KM 60-3
KM 100-3

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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KM-ME Ex

2 or 3 gases | low to very high flows

KM 100-3ME Ex on steel receiver

data sheet

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

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

model

KM-2ME Ex for 2 gases
KM 100-2ME Ex
A, with integrated analysis
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver

KM-2ME Ex for 3 gases
KM 100-3ME Ex
mounted on 20 l / 10 bar steel receiver
mounted on 20 l / 10 bar stainless steel receiver
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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MG-ME Ex

2 or 3 gases | low to very high flows

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

- infinitely variable gas blending
- variable mixture output
- various flow capacities
- separate electrical control panel
- 5 m cable between control unit and mixing device
- certified in accordance to ATEX
- model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information in section „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.

data sheet MG 50/100-ME

data sheet MG 200-ME

model

MG-2ME Ex for 2 gases
MG 50-2ME Ex*
A, with integrated analysis
mounted on 100 l / 10 bar steel receiver
A, with integrated analysis, mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver
A, with integrated analysis, mounted on 100 l / 10 bar stainless steel receiver
MG 100-2ME Ex*
A, with integrated analysis
mounted on 250 l / 11 bar steel receiver
mounted on 250 l / 11 bar stainless steel receiver
MG 200-2ME Ex*
A, with integrated analysis

MG-2ME Ex for 3 gases
MG 50-3ME Ex*
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver
MG 100-3ME Ex*
mounted on 100 l / 10 bar steel receiver
mounted on 100 l / 10 bar stainless steel receiver
MG 200-3ME Ex*

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

analogue pressure transmitters 2 inlet gases
analogue pressure transmitters 3 inlet gases

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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GAS MIXERS for medical applications

MED MG — for synthetic air

data sheet

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

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

model

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

options:
automatic calibration
heating (for low ambient temperatures)

MED-stainless steel receiver (coated) 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)

How does the synthetic air supply from WITT work?

You will find the answers in our special brochure.
Get to know our MED mixer and its safety elements.

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

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steel receiver

steel receiver, vertical,
without safety devices and connections

data sheet

without safety devices and connections

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

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

volume	pressure	design
20 litres	10 bar	horizontal
20 litres	16 bar	horizontal
100 litres	10 bar	horizontal
100 litres	21 bar	horizontal
250 litres	11 bar	horizontal
500 litres	11 bar	vertical
1000 litres	11 bar	vertical
1000 litres	16 bar	vertical
2000 litres	11 bar	vertical
2000 litres	16 bar	vertical

stainless steel receiver

stainless steel receiver, horizontal,
without safety devices and connections

data sheet

without safety devices and connections

stainless steel receivers, not coated

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

volume	pressure	design
20 litres	10 bar	horizontal
20 litres	16 bar	horizontal
100 litres	10 bar	horizontal
100 litres	16 bar	horizontal
100 litres	21 bar	horizontal
250 litres	11 bar	horizontal
250 litres	16 bar	horizontal
250 litres	21 bar	horizontal
500 litres	11 bar	vertical
500 litres	16 bar	vertical
1000 litres	11 bar	vertical
1000 litres	16 bar	vertical
2000 litres	11 bar	vertical
2000 litres	16 bar	vertical

steel receiver

steel receiver, vertical,
incl. safety devices and connections

data sheet

incl. safety devices and connections

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

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

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
1000 litres	11 bar	vertical	1880 Nm^3/h
1000 litres	16 bar	vertical	1750 Nm^3/h
2000 litres	11 bar	vertical	2490 Nm^3/h
2000 litres	16 bar	vertical	3265 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

Do you already know our whitepaper gas mixer?

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

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

Download at www.wittgas.com

stainless steel receiver

incl. safety devices and connections

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

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

stainless steel receiver, horizontal,

data sheet

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
100 litres	30 bar	horizontal	375 Nm^3/h
100 litres	40 bar	horizontal	509 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
1000 litres	11 bar	vertical	1880 Nm^3/h
1000 litres	16 bar	vertical	1750 Nm^3/h
2000 litres	11 bar	vertical	2490 Nm^3/h
2000 litres	16 bar	vertical	3265 Nm^3/h

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

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

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

FAQ

Your questions - our answers

The new FAQ section will soon be available on our website. Here you will find lots of questions about our products, technical details and maintenance from all product areas.

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

Do you have specific questions that you would like to see answered?
Write to us with your question - we will be happy to take up your suggestion.

OXYBABY® M+

for food-grade gases, conforms to 1935/2004

data sheet

product video

portable O2 / CO2 gas analyser - basic model

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

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

model

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

option:
connector tube with Luer-Lok-connection

OXYBABY® 6.0

for food-grade gases, conforms to 1935/2004

data sheet

product video

portable O2 / CO2 gas analyser - premium model

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

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

model

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

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

OXYBABY® M+ P

basic gas analyser for pressurised pipelines

data sheet

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

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

model

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

OXYBABY® 6.0 P

premium gas analyser for pressurised pipelines

data sheet

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

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

model

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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OXYBABY® MED

portable O2 / CO2 gas analyser for medical applications

data sheet

Compact handheld O2 / CO2 analyser for checking medical gases

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

model

OXYBABY® MED for O2
OXYBABY® MED for O2/CO2

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

OXYBABY® Accessories

diverse

data sheet

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

- for versatile use
- practical and smart

model

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

Nur for series 6.0:
tabletop bluetooth printer
OBCC software see page 33

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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OXYBABY® Accessories

for cans, bottles and mini packages

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

- for head space analysis of cans and bottles, with or without overpressure/gas
- for O2 and CO2 analysis of mini packages, e.g. capsules

Canpiercer

Aquacheck

data sheet

model

CANPIERCER for cans and bottles
(with set for head space analysis):

for cans without overpressure/gas (z.B. juice)*
for max. height 270 mm, needle length 5.5 mm
order no. 590000156

for cans with overpressure/gas, inkl. bottle adapter*
for max. height 270 mm, needle length 8.5 mm
order no. 590000165
for max. height 390 mm, needle length 8.5 mm
order no. 590000166
for max. height 390 mm, needle length 18.5 mm
order no. 590000325

for cans with high overpressure/gas (strongly sparkling drinks) incl. calibration module and flow control**
for max. height 270 mm, needle length 5.5 mm
order no. 590000239

for cans and bottles, pressure measurement only,
incl. bottle adapter
for max. height 390 mm, needle length 5.5 mm
order no. 590000341

Canpiercer-module (for refitting):
bottle adapter

* other versions on request

AQUACHECK
equipment for the gas analysis of mini packages

AQUACHECK Plus
Aquacheck incl. water container

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

OXYPAD

tabletop and mobile O2 / CO2 gas analyser

for food-grade gases, conforms to 1935/2004

Mobile desktop O2 / CO2 analyser e.g. for sample testing of MAP-packages - innovative design

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

model

OXYPAD	for O2
OXYPAD	for CO2
OXYPAD	for O2 and CO2

data sheet

product video

OXYPAD: the new device class for QM

The new OXYPAD from WITT offers a range of innovative details that make your work in quality management more pleasant, faster and more efficient:

Download Flyer

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

PA 7.0

tabletop O2 / CO2 gas analyser

for food-grade gases, conforms to 1935/2004

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

data sheet

model

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)
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

OBCC software for the documentation of analysis results: see page 33

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

MAPY 4.0 / MAPY

reddot design award

for food-grade gases, conforms to 1935/2004

MAPY 4.0 - inclined display
for use in laboratory

data sheet

MAPY LE - vertical display
for use as inline analyser

data sheet

O2 / CO2 gas analyser, sample + inline

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

- for use in laboratory (housing with inclined display) and in production line (housing with vertical display)
- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- optional: zirconia measuring cell for 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 or the KD gas meterer

model

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)

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

MAPY VAC

O2 / CO2 gas analyser, for traysealers and thermoformers

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

- 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

MAPY VAC with touchscreen

MAPY VAC black box version

data sheet

model

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

option:
cover IP45

Inline gas analysis

integrated with gas mixer

Gas Analysers for H2, He, etc. to be combined with WITT gas mixers

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

GC 50

data sheet

model

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
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)

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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Options

for WITT gas analysers

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

data sheet

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

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

option

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

back-purging device for inline gas analysers

OBCC

documentation software for OXYBABY® 6.0 and PA

data sheet

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

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

OBCC full version incl. updates

licence for 1 year
licence for 2 years

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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MFA 10.0

multi gas analyser

data sheet

Portable multi gas analyser especially for maintanance and service

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

model

MFA 10.0

HYDROBABY

mobile moisture measurement

data sheet

Mobile device for analysing moisture in gases

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

model

HYDROBABY

options:
pressure compensation
4-20 mA outlet

MFA H2O

stationary moisture measurement

data sheet

Table-top device for analysing moisture in gases

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

model

MFA H2O

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer‘s certificate see p. 136.

18/07/2024

RLA 100

ambient air monitoring

data sheet

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

model

RLA 100

RLA compact

ambient air monitoring

data sheet

Compact ambient air monitoring system for the detection of O2, CO2, H2 etc, incl. gas monitor, transmitter and transmitter cable

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

models / versions

gas monitor 1-channel
every additional transmitter channel (max. 4)
transmitter for O2
transmitter for CO2- not Ex
transmitter for O2 Zircox - 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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

RLA multichannel

ambient air monitoring

Compact ambient air monitoring system for the detection of O2, CO2, H2 etc, incl. gas monitor, transmitter and transmitter cable

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

data sheet

models / versions

4-channel gas monitor with alarm
additional channel (up to 16 channels possible)
transmitter for O2
transmitter for CO2- not Ex
transmitter for O2 Zircox - 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

separate inlet pressure monitoring

For continuous inlet pressure monitoring for maximum process safety

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

data sheet

Inlet pressure monitoring

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

options:
data cable
ALARM CONTROL software
surcharge analogue pressure transmitters, 2 inlet gases
surcharge analogue pressure transmitters, 3 inlet gases
surcharge analogue pressure transmitters Ex, 2 inlet gases
surcharge analogue pressure transmitters Ex, 3 inlet gases

LED warning light with signal-horn

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

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LEAK-MASTER® EASY

bubble-test

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

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

LEAK-MASTER® EASY 3

data sheet

product video

control unit PLUS (optional)

data sheet

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

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

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

LEAK-MASTER® PRO 2

CO2-based

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)
- 4 chamber sizes for single packages or small boxes
- measuring range 0 ppm - 5.000 ppm
- user and product administration and documenation
- data transfer via ethernet

data sheet

product video

models	**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
LM 2.4	150 x 380 x 380

options:	**order no.:**
barcode reader IP 65	957099400

leak simulation kit for testing and defining acceptable leak rates
966152700

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

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

LEAK-MASTER® PRO

CO2-based, for large packages

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
- measurig range 0 ppm - 5.000 ppm
- user and product administration and documenation
- data transfer via ethernet

models	**chamber size in approx. mm (LxWxH)**
LM 12.2	140 x 680 x 500
LM 12.1	230 x 680 x 500

options:	**order no.:**
barcode reader IP 65	957099400

leak simulation kit for testing and defining acceptable leak rates
966152700

connection for rinsing air	966042500

data sheet

Packaging in a modified atmosphere: why and how?

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

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

Part 1 - Basics

Part 2 - system components

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

LEAK-MASTER® MAPMAX

data sheet

product video

CO2-based, 100% inline solution

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
- measurig range 0 ppm - 5.000 ppm
- user and product administration and documenation
- data transfer via ethernet
- integration in t he packaging process
- automatic product positioning
- automatic product transport to the following process
- up to 15 cycles per minute

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

models	**size in approx. mm (LxWxH)**
MAPMAX Type 400	1840 x 1130 x 2200
max. product dimensions 600 x 400 x 380 mm	
up to zu 15 cycles per minute	
MAPMAX Type 700	1840 x 1130 x 2200
max. product dimensions 600 x 680 x 220 mm	
up to zu 15 cycles per minute	

options:

barcode reader IP 65

MINK vacuum pump

central vacuum layout (control valve central vacuum)

surface pressurisation (incl. motorisation)
e.g. to speed up and improve the measurements for packages with a low gas volume

leak simulation kit for testing and defining acceptable leak rates
966152700

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer‘s certificate see p. 136.

18/07/2024

PATBOX

wireless

data sheet

Compact logger for pressure and temperature

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

model
PATBOX

Leak testing methods in comparison

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

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

Geert Elie from WITT gives an overview of the possibilities and explains the advantages and disadvantages in this interview.

Mr. Elie, what do you recommend to customers who want to test their products for leaks?

The entry-level solution is to test in a water bath. This is a very simple, yet effective method. The test specimen is held under water and the tester watches for rising air bubbles. Very intuitive.

Special designs, higher flow rates or different pressures on demand.
Manual available by download. Printed operating manual, certificate of conformity, manufacturer's certificate see p. 136.

18/07/2024

RF53N

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

data sheet

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

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

Also available in stainless steel

connection	inlet → outlet	order no.
for fuel gases:		
G 1/4 LH	MG → AGS	145-009
G 3/8 LH	MG → AGS	145-012
G 1/2 LH	MG → AGS	145-016
9/16" LH	MG → AGS	145-017
for oxygen:		
G 1/4 RH	MG → AGS	145-021
G 3/8 RH	MG → AGS	145-022
G 1/2 RH	MG → AGS	145-023
9/16" RH	MG → AGS	145-057
for fuel gases or oxygen:		
1/4" NPT	IG → IG	145-197
3/8" NPT	IG → IG	145-205
G 1/4 RH	IG → IG	145-125

RF53DN

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

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], pressure relief valve [RV]
- every arrestor 100% tested
- BAM certified
- 25.5 X 101 mm, 260 g
- acetylene max. 11.5 m^3/h
- fuel gases max. 105 m^3/h
- oxygen max. 56 m^3/h

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

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

18/07/2024

RF53NSK

connections 1/4", 3/8"

data sheet

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

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

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

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 in this video.

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

18/07/2024

85-10

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

data sheet

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

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

Also available in stainless steel

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

85-20

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

data sheet

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

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

Also available in stainless steel

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

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

18/07/2024

85-30

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

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- 84 X 162/188 mm, 4.580 g
- acetylene max. 70 m^3/h
- fuel gases max. 675 m^3/h
- oxygen max. 860 m^3/h

Also available in stainless steel

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

Every flashback arrestor 100% tested

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

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

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

18/07/2024

Safety group 645/85-30

data sheet

connections DN 50 (2- or 4-fold)

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrestor 100% tested
- 285 X 430 mm, 44 kg (2-fold), 53 kg (4-fold)
- acetylene max. 392 m^3/h
- fuel gases max. 2.740 m^3/h
- oxygen max. 1.850 m^3/h

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

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

Safety group 645/623N

data sheet

connections DN 65 (4- or 5-fold)

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

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

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

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

18/07/2024

FLASHBACK ARRESTORS
for pressure regulators, outlet points and pipelines

SUPER 55

connections 3/8", 1/4"

data sheet

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

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

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

SUPER 78

connections 3/8", 1/4"

data sheet

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

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

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

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

18/07/2024

FLASHBACK ARRESTORS
for pressure regulators, outlet points and pipelines

SUPER 66

connections 3/8", 1/4"

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet, pressure sensitive cut-off valve [PV]
- stops supply of fuel gas in case of flashback and shows visual warning that flashback has occured, easy to reset
- every arrestor 100% tested
- 63 X 160 mm, 1.104 g
- acetylene max. 20 m^3/h
- fuel gases max. 225 m^3/h
- oxygen max. 105 m^3/h

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

F53N/HHO

connections 1/4"

data sheet

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

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

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

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

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

If you miss it somewhere - just ask. Perhaps we can help you anyway.
You can reach our specialists here: witt @wittgas.com

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

18/07/2024

E460-1

connections 3/8"

data sheet

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

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

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

E460-2

connections 4 up to 9 mm

data sheet

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

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

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

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

18/07/2024

E460-3

connections 1/4", 3/8"

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

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

data sheet

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

E460-SK

connections 1/4", 3/8"

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

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

suitable: coupling body SK100-9

data sheet

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

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

18/07/2024

E460-SKU

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

data sheet

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

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

suitable coupling probes: see quick couplings

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

SK100-9

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

data sheet

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

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

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

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

18/07/2024

RF53NU

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

data sheet

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

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

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

85-10NU

connections 3/8", 1/2"

data sheet

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

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

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

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

18/07/2024

85-10NU (eccentric)

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

data sheet

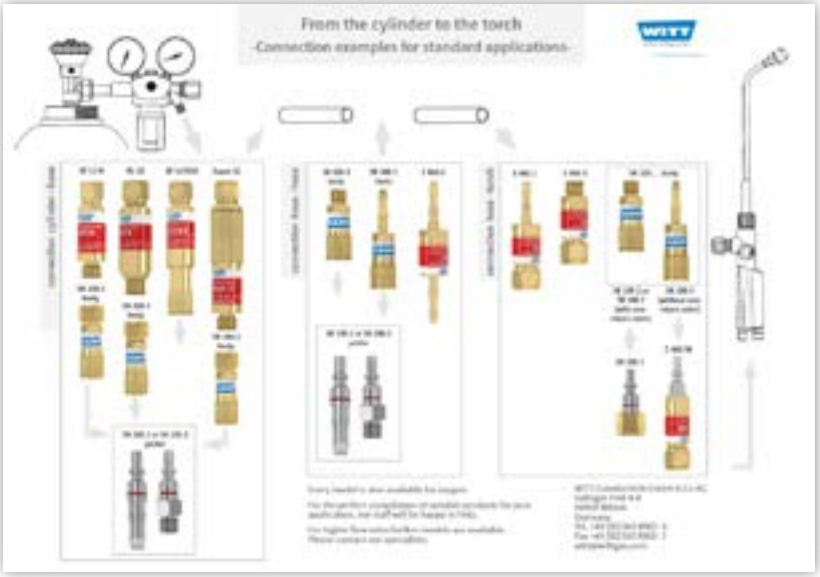
Flashback arrestors certified to DIN EN ISO 5175-1 for high-performance torches, off-centre connection

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

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

Which safety device at which point? An overview.

Find the right products for your welding application.



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

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E460-3

connections 1/4", 3/8"

data sheet

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

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

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

RF53U

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

data sheet

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

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

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

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

18/07/2024

FLASHBACK ARRESTORS
for cutting machines

85-10U

connections 3/8", 1/2"

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

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

data sheet

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

Perfect for cutting machines: Dome pressure regulators from WITT

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

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

Read the article „The design makes the difference“ from our news section.

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

18/07/2024

FLASHBACK ARRESTORS
for high flows

RF53N/30

connections 3/8"

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (for low pressure applications without non-return valve)
- every arrestor 100% tested
- 25.5 X 82 mm, 191 g
- 65 mm height, 107 g
- fuel gases 16 m3/h
- air 12 m3/h

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

85-10/30

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

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (for low pressure applications without non-return valve)
- every arrestor 100% tested
- 25.5 X 82 mm, 191 g
- 65 mm height, 107 g
- fuel gases 30 m3/h
- air 21 m3/h

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

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

18/07/2024

270N/NU

connections 3/4" up to 1.1/2"

data sheet

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

- safety elements: flame arrestor [FA], non-return valve [NV] temperature-sensitive cut-off valve [TV]
- every arrestor 100% tested
- 62 X 131-160 mm, 1.400-1.700 g
- acetylene max. 22 m^3/h
- fuel gases (without acetylene) max. 371 m^3/h
- air max. 164 m^3/h

Pipeline fittings see page 59

connection	inlet → outlet	order no.
270N		
G 3/4 RH	AGS → MG	123-038
G 1 RH	AGS → MG	123-041
G 1.1/4 RH	AGS → MG	123-039
G 1.1/2 RH	AGS → MG	123-040
G 1/2 RH	IG → IG	123-054
G 1 RH	IG → IG	123-057
270N (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

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

18/07/2024

FLASHBACK ARRESTORS
for high flows

623N/NU

connections 3/4" up to 1.1/2"

data sheet

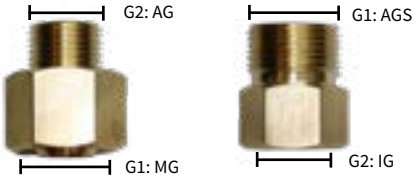
Flashback arrestors certified to DIN EN ISO 5175-1 for maximum flows

- safety elements: flame arrestor [FA], non-return valve [NV] temperature-sensitive cut-off valve [TV]
- every arrestor 100% tested
- 62 X 184-195 mm, 1.800-2.001 g
- fuel gases max. 406 m^3/h
- air max. 335 m^3/h

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
623N (reverse flow)		
G 3/4 LH	MG → AGS	189-013
G 1 LH	MG → AGS	189-012
G 1.1/4 LH	MG → AGS	189-014
G 1.1/2 LH	MG → AGS	189-015

Pipeline fittings

connections 3/4" up to 1.1/2"



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

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

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

18/07/2024

FLASHBACK ARRESTORS
for central acetylene supply

FN 12 / FN 40

connections 1.1/2"

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV]
- stops the explosive decomposition of acetylene via pressure-controlled quick-acting piston valve
- every arrestor 100% tested
- BAM certified
- DIN EN ISO 14114
- 70 X 160/200 mm, 3.091-3.846 g
- FN12 Q= ca. 76 m^3/h
- FN40 Q= ca. 140 m^3/h

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

Safety group 645 / FN 40

connections DN 50 (2- or 4-fold)

data sheet

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

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

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

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

18/07/2024

FLASHBACK ARRESTORS
for central acetylene supply

HDS17

connections 3/4"

data sheet

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

- stops the explosive decomposition of acetylene via pressure-controlled quick-acting piston valve
- every arrestor 100% tested
- BAM certified
- TRAC 206
- DIN EN ISO 15615
- DIN EN ISO 14114
- 50 X 152 mm, 1.797 g
- up to 25 bar working pressure

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

HRV 650

connections 1.1/2"

data sheet

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

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

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

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

18/07/2024

FLASHBACK ARRESTORS
for central acetylene supply

MGN

connections 1/2", 1/4"

data sheet

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

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

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

HD-NV

connections 1/4"

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

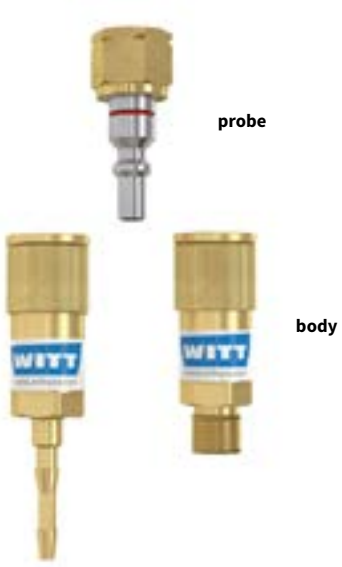
- for bows according to DIN 477, part 1, no. 3
- every arrestor 100% tested
- EN ISO 15615
- up to 25 bar

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

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

18/07/2024

SK100-1 for torches



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

data sheet

product video

connection	inlet → outlet	order no.
probe		
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
body (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

Small differences with a big effect

What makes WITT quick couplings so special?

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

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

18/07/2024

SK100-2 for hoses

data sheet

product video

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

connection	inlet → outlet	order no.
probe (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

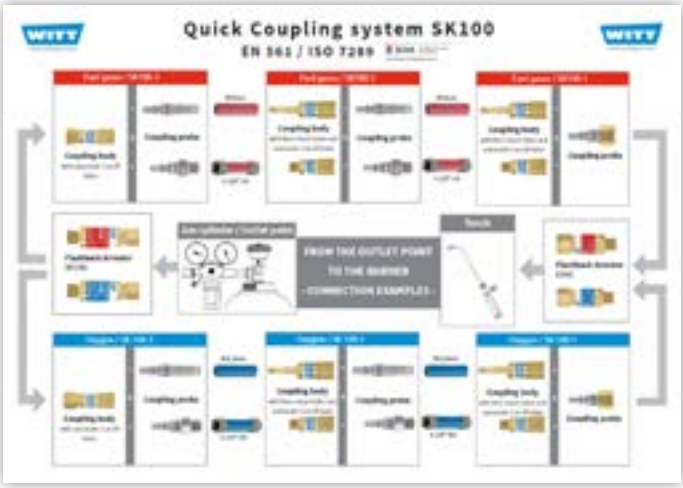
body

see SK100-1

Which coupling for which position? An overview.

Use our practical overview of the WITT SK100 coupling system.

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



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

18/07/2024

SK100-3

for outlet points

probe

body

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

connection	inlet ⇆ outlet	order no.
probe		
see SK100-2		
body		
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

data sheet

product video

Key Mark Coupling

for the protection of outlet points

body

probe

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

connection	inlet ⇆ outlet	order no.
body		
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
probe		
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

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

18/07/2024

ULTRA 10

connections 1/2"

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

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

Also available in stainless steel

data sheet

product video

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

design (standard):
filter: yes seal o-ring: NBR seal valve: CR housing: brass

ULTRA 12

connections 1/2"

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

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

based on ULTRA 11 including:

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

data sheet

product video

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

design (modular system):
(filter/seal o-ring/seal valve/housing)

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

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

18/07/2024

ULTRA 20

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

data sheet

product video

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

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

Also available in stainless steel

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

design (standard):
filter: yes seal o-ring: NBR seal valve: CR housing: brass

Why ULTRA?

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

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

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

ULTRA compact
Small and lightweight
Perfect for compact plant designs

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

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

ULTRA safe
Reliably stops gas backflow and flashback

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

18/07/2024

ULTRA 22

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

data sheet

product video

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

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

based on ULTRA 20 including:

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

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

What are the typical areas of application?

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

Ask our specialists and let them advise you.

Request a callback here.

Low pressure pipelines

Thermal processing plants

Hydrogen applications

Biogas plants

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

18/07/2024

ULTRA 30

connections 1.1/2"

data sheet

product video

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

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

Also available in stainless steel

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

design (standard):
filter: yes seal o-ring: NBR seal valve: CR housing: brass

ULTRA 32

connections 1.1/2"

data sheet

product video

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

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

based on ULTRA 30 including:

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

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

design (modular system):
(filter/seal o-ring/seal valve/housing)

yes/EPDM/EPDM/brass	033-009
yes/NBR/CR/stainless steel	033-010

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

18/07/2024

ULTRA 40

connections 2.1/2"

data sheet

product video

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

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

Also available in stainless steel

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	035-001
2.1/2" NPT	IG → IG	035-004

design (standard):
filter: yes seal o-ring: NBR seal valve: CR housing: brass

ULTRA 42

connections 2.1/2"

data sheet

product video

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

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

based on ULTRA 40 including:

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

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	
design (modular system): (filter/seal o-ring/seal valve/housing) yes/FPM/FKM/stainless steel		035-007

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

18/07/2024

NV 654

data sheet

connections 1/8"

Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- small and light: 14 X 42 mm, 39 g
- up to 60 bar working pressure (O2: up to 30 bar)
- air max. 130 m^3/h

Also available in stainless steel

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

NV100

data sheet

connections 1/8" up to 3/8"

Non-return valve for the prevention of unintended gas mixtures

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

Also available in stainless steel

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

Do you already know our examples from practice?

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

Perhaps your topic is also included?

Read for example:
Non-return Valves in Heat Treatment

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

18/07/2024

NV 600H

connections 1/2" up to 1"

data sheet

Non-return valve for the prevention of unintended gas mixtures

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

Also available in stainless steel

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

NV 70 / 70U

connections 1/2" up to 1.1/2"

data sheet

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2, DIN EN ISO 5175-2
- ultra-low opening pressures (4 mbar), ultra-low pressure drop
- 62 X 137 X 160 mm, 1.255-1.679 g
- up to 16 bar working pressure
- air max. 1120 m^3/h

See also „pipeline fittings“ on page 59

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

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

18/07/2024

NV 300

connections 1" up to DN 32

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 3.5 mbar), ultra-low pressure drop
- small and light: 14 X 42 mm, 39 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 3260 m^3/h

Also available in stainless steel

data sheet

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

*with o-ring

NV 400

connections 1.1/2" up to DN 80

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- use is possible for applications according to EN 746-2
- ideal for biogas desulphurisation systems
- ultra-low opening pressures (approx. 3 mbar), ultra-low pressure drop
- 90 X 145 mm, 2.789 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 8100 m^3/h

Also available in stainless steel

data sheet

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*	400038A005
DN 50 / PN 40	loose flange*	400038A006
DN 65 / PN 40	loose flange*	400038A007
DN 80 / PN 40	loose flange*	400038A008

*with o-ring

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

18/07/2024

NV400

intermediate flange version, connections DN 40, DN 50

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

- with welding neck flanges for simple installing and removing
- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 3 mbar), ultra-low pressure drop
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 8.100 m^3/h

Also available in stainless steel

connection	inlet → outlet	order no.
DN 40	flange	400S-040MS
DN 50	flange	400S-050MS

data sheet

NV800

connections DN 80

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

- with welding neck flanges for simple installing and removing
- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN 8521-2
- ultra-low opening pressures (approx. 6-8 mbar), ultra-low pressure drop
- dirt filter (100 µm) on gas inlet
- up to 10 bar
- air max. 14.000 m^3/h

Also available in stainless steel

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

data sheet

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

18/07/2024

NV2000

connections DN 80 up to DN 200

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 5 mbar), ultra-low pressure drop
- DIN 8521-2
- dirt filter (100 µm) on gas inlet
- to be mounted in vertical position / orientation
- 320-340 X 393-450 mm, 50 kg
- up to 10 bar
- air max. 26.800 m^3/h

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

data sheet

Does the product fit into your plant?

You can now find out very easily.

Request a STEP file via the website.

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

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

18/07/2024

ULTRAVENT 6

connections 1/8"

ULTRAVENT 6
without strainer

ULTRAVENT 6
with strainer

Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment - ultra high blow-off performance

- spring-loaded, direct-acting safety relief valve
- flow-optimised valve system for maximum blow-off capacity
- every safety relief valve 100% tested
- optional: TÜV-certification of pressure setting
- tested according to DIN EN ISO 4126-1
- can also be used as a control valve or as a vacuum breaker
- dimensions: 36 x 19 mm
- 5 up to 500 mbar

Also available in stainless steel 1.4404.

data sheet

ULTRAVENT 6	**order no.**
pressure settings: 5 - 500 mbar	231-_ _ _ (depending on pressure-setting)

options:

strainer at outlet 100 µm (1.4301)	966.172500

individual TÜV approval for the set opening pressure (5 to 500 mbar)

individual TÜV approval with manufacturer‘s certificate in accordance with DIN EN ISO 4126-1 (from 100 mbar)

100 µm filter at gas inlet (1.4301)

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

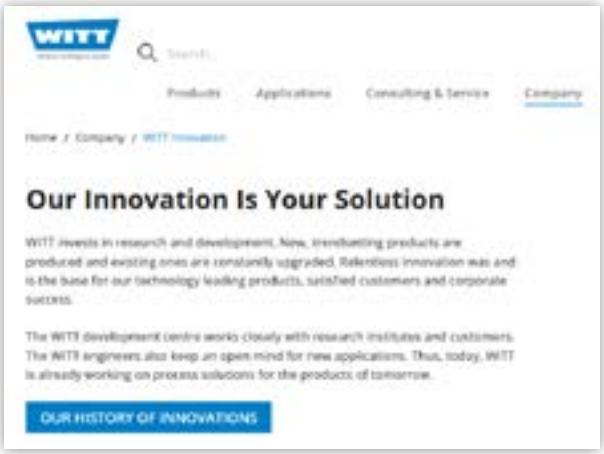
Revolution in blow-off performance

Compared to conventional safety valves, the new ULTRAVENT 6 from WITT offers a much higher blow-off performance despite its small size.

The pioneering optimised flow design makes this possible. Let us convince you!

Would you like to find out more about the innovations from WITT?

Then take a look at our website and read our long history of innovation.



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

18/07/2024

ULTRAVENT 15

connections 1/2"

ULTRAVENT 15
without strainer

ULTRAVENT 15
with strainer

data sheet

Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment - ultra high blow-off performance

- spring-loaded, direct-acting safety relief valve
- flow-optimised valve system for maximum blow-off capacity
- every safety relief valve 100% tested
- optional: TÜV-certification of pressure setting
- tested according to DIN EN ISO 4126-1
- can also be used as a control valve or as a vacuum breaker
- dimensions: 65,5 x 34 mm
- 5 up to 500 mbar

Also available in stainless steel 1.4404.

ULTRAVENT 15	**order no.**
pressure settings: 5 - 500 mbar	230-_ _ _ (depending on pressure-setting)

options:

strainer at outlet 100 µm (1.4301)	966.182900

individual TÜV approval for the set opening pressure (5 to 500 mbar)

individual TÜV approval with manufacturer‘s certificate in accordance with DIN EN ISO 4126-1 (from 100 mbar)

100 µm filter at gas inlet (1.4301)

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

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

18/07/2024

SV 805

different connections

Option: adapter for ventilation pipe

data sheet

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

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

Also available in stainless steel

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

SV 805A

different connections

with venting tool

data sheet

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

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

Also available in stainless steel

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

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

18/07/2024

SV 805 SMART

different connections

data sheet

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

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

Also available in stainless steel

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

AV 815

connections 1/2"

data sheet

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

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

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

connections:
G 1/2 AG → M24 x 1 IG

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

18/07/2024

AV 619

connections 1/2" up to 1"

data sheet

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

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

Also available in stainless steel

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

connections:
G1/2, G3/4, G1 RH IG, NPT 1/2, 3/4, 1 IG
flange DN 25 according to DIN 28403

option:
individual TÜV approval
for the set opening pressure

AV 919

connections 2", DN 40

data sheet

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

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV approval for the set opening pressure
- set to exactly the opening pressure you specify (in factory)
- dimensions: 89.5 X 144-170 mm, 1.500 g
- 5 up to 500 mbar

Also available in stainless steel

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

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

option:
individual TÜV approval
for the set opening pressure

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

18/07/2024

series RF53N-ES

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

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (except bei F53N-ES)
- every arrestor 100% tested
- 25.5 X 82 mm, 191 g
- F53N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 225 m3/h
- RF53N-ES: air max. 180 m^3/h
- RF53N/H-ES: air max. 46 m^3/h

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

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

18/07/2024

series RF85-10N-ES

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

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV] (except bei F85-10N-ES), filter on the gas inlet
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 34 X 97 mm, 385 g
- F85-10N-ES (for very low working pressure upstream or downstream of the analysis device): air max. 390 m3/h
- RF85-10N-ES: air max. 315 m^3/h
- RF85-10N/H-ES: air max. 82 m^3/h

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

series RF85-20N-ES

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

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV], filter on the gas inlet
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 62 X 131/137 mm, 1.400-1.500 g
- air max. 360 m^3/h

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

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

18/07/2024

series RF85-30N-ES

data sheet

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

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 84 X 162/188 mm, 4.455 g
- RF85-30N-ES: air max. 1.150 m^3/h
- RF85-30N/H-ES: air max. 310 m^3/h

connection	inlet → outlet	order no.
F85-30N-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
for acetylene (sealing TV in EPDM):		
3/4" NPT	IG → IG	147-122
1" NPT	IG → IG	147-125
G 1.1/2 RH	IG → IG	147-124
RF85-30N/H-ES		
for fuel gases (e.g. hydrogen up to 11 bar):		
1" NPT	IG → IG	147-047
3/4" NPT	IG → IG	147-039

Safety group 645 /85-30

data sheet

connections DN 50 (2- or 4-fold)

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV], non-return valve [NV]
- every arrestor 100% tested
- also ideal for use with corrosive gases
- 285 X 430 mm, 44 kg (2-fold), 53 kg (4-fold)
- acetylene max. 392 m^3/h (free flow-off)
- fuel gases max. 2.740 m^3/h (free flow-off)
- oxygen max. 1.850 m^3/h (free flow-off)

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

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

18/07/2024

F100N-ES

connections 1/2", 7/8"

data sheet

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

- safety elements: flame arrestor [FA], temperature-sensitive cut-off valve [TV]
- every arrestor 100% tested
- for highest working pressures, e.g. with flame spraying
- 48 X 103 mm, 1.236 g
- air max. 32 m^3/h

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

Safe and efficient - WITT products for hydrogen applications

The future belongs to hydrogen and with WITT you are H2-READY! Hydrogen (H2) is already widely used as a raw material or process gas in industry in a variety of applications. As ‚green hydrogen' based on renewable energies, the gas is even regarded as the energy source of the future.

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

WITT specialises in hydrogen applications and offers you the right gas technology at the highest quality level. In this video Andrew Smart shows you which products WITT offers to support your hydrogen application to the maximum.

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

18/07/2024

F53deto

connections 1/4"

data sheet

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

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

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

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

F53Ndeto

connections 1/4" - with cut-off valve

data sheet

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

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

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

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

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

18/07/2024

ULTRA 10

connections 1/2"

data sheet

product video

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

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

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

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

ULTRA 12

connections 1/2"

data sheet

product video

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

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

based on ULTRA 11 including:

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

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

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

other models see page 65

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

18/07/2024

ULTRA 20

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

data sheet

product video

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

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

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

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

ULTRA 22

connections 1/2"

data sheet

product video

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

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

based on ULTRA 21 including:

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

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

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

other models see page 67

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

18/07/2024

ULTRA 30

connections 1.1/2"

data sheet

product video

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

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

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

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

ULTRA 32

connections 1.1/2"

data sheet

product video

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

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

based on ULTRA 31 including:

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

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	033-010

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

other models see page 68

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

18/07/2024

ULTRA 40

connections 2.1/2"

data sheet

product video

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

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

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

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

ULTRA 42

connections 2.1/2"

data sheet

product video

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

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

based on ULTRA 41 including:

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

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	035-007

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

other models see page 69

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

18/07/2024

654-ES

connections 1/8"

data sheet

Non-return valve for the prevention of unintended gas mixtures

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 30 mbar), ultra-low pressure drop
- small and light: 14 X 42 mm, 39 g
- up to 60 bar working pressure (O2: up to 30 bar)
- air max. 130 m^3/h

connection	inlet → outlet	order no.
G 1/8 RH	IG → AG	120003033

NV 100

connections 1/8" up to 3/8"

data sheet

Non-return valve for the prevention of unintended gas mixtures

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

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

NV 600H

connections 1/2" up to 1"

data sheet

Non-return valve for the prevention of unintended gas mixtures

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

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

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

18/07/2024

NV 300

connections 1" up to 1.1/4"

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- ultra-low opening pressures (approx. 3.5 mbar), ultra-low pressure drops-mall and light: 14 X 42 mm, 39 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 3260 m^3/h

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

data sheet

NV 400

connections 1.1/2" up to DN 80

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

- safety element: non-return valve [NV]
- every non-return valve 100% tested
- DIN EN ISO 5175-2
- ultra-low opening pressures (approx. 3.5 mbar), ultra-low pressure drop
- 90 X 145 mm, 2.789 g
- dirt filter (100 µm) on gas inlet
- up to 16 bar
- air max. 8100 m^3/h

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

intermediate flange-design:

DN40	flange	038S-040ES
DN50	flange	038S-050ES

data sheet NV 400

data sheet intermediate flange design

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

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STAINLESS STEEL DEVICES: NON-RETURN VALVES

800-ES

data sheet

connections 1/4"

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

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

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

For specific needs: gas safety devices in stainless steel

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

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

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

SV 805-ES

different connections

option: adapter for ventilation pipe

data sheet

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

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

SV 805-ES	**order no.**
pressure settings:	
> 0.5 ≤ 45 bar	200-_ _ _
with standard connection, stainless steel 1.4541	
with standard connection, stainless steel 316L/1.4404	
with VCR connection, stainless steel 1.4541	
with VCR connection, stainless steel 316L/1.4404	
special sealing compound, surcharge.....	
Adapter to connect venting pipes to SV805-ES	
connections M 24x1 AG ➞ 1/2" NPT IG, stainless steel 1.4541	801727800K
connections M 24x1 AG ➞ 1/2" NPT VCR AG, stainless steel 1.4404	801693000K

SV 805A-ES

different connections

with ventilation tool

data sheet

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

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

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

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

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SV 805-ES SMART

different connections

data sheet

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

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

SV 805-ES SMART	**order no.**
pressure settings: > 0.5 ≤ 45 bar	..... 200SMART-_ _ _
with standard connection, stainless steel 316L/1.4404 with VCR connection, stainless steel 316L/1.4404	
signal cable with angled plug (2 m)	850022900
special sealing compound, surcharge	..
Adapter to connect venting pipes to SV805-ES connections M 24x1 AG → 1/2" NPT VCR AG, stainless steel 1.4404	.....801693000K

SV 811L

different connections

data sheet

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

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- set to exactly the opening pressure you specify (in factory) from 4.5 up to 45.0 bar
- in stainless steel 1.4404
- adapter for the connection to ventilation pipe
- option: heavy design (model SV811) up to 1600 bar (burst pressure of housing)
- dimensions: 91 mm, 260 g
- up to 45 bar

SV 811L	**order no.**
pressure settings: > 4.5 ≤ 45 bar div. connections	..... 200AU-L_ _ _... (depending on pressure-setting)
adapter for the connection to ventilation pipe at the outlet on demand	

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

18/07/2024

ULTRAVENT 6-ES

connections 1/8"

Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment - ultra high blow-off performance

- spring-loaded, direct-acting safety relief valve
- flow-optimised valve system for maximum blow-off capacity
- every safety relief valve 100% tested
- TÜV-certification of pressure setting
- optional: tested according to DIN EN ISO 4126-1
- can also be used as a control valve or as a vacuum breaker
- dimensions: 36 x 19 mm
- 5 up to 500 mbar

ULTRAVENT 6-ES without strainer

ULTRAVENT 6-ES with strainer

data sheet

ULTRAVENT 6	**order no.**
pressure settings: 5 - 500 mbar	231-_ _ _ (depending on pressure-setting)

options:

strainer at outlet 100 µm (1.4301)	966.172600

individual TÜV approval for the set opening pressure (5 to 500 mbar)

individual TÜV approval with manufacturer‘s certificate in accordance with DIN EN ISO 4126-1 (from 100 mbar)

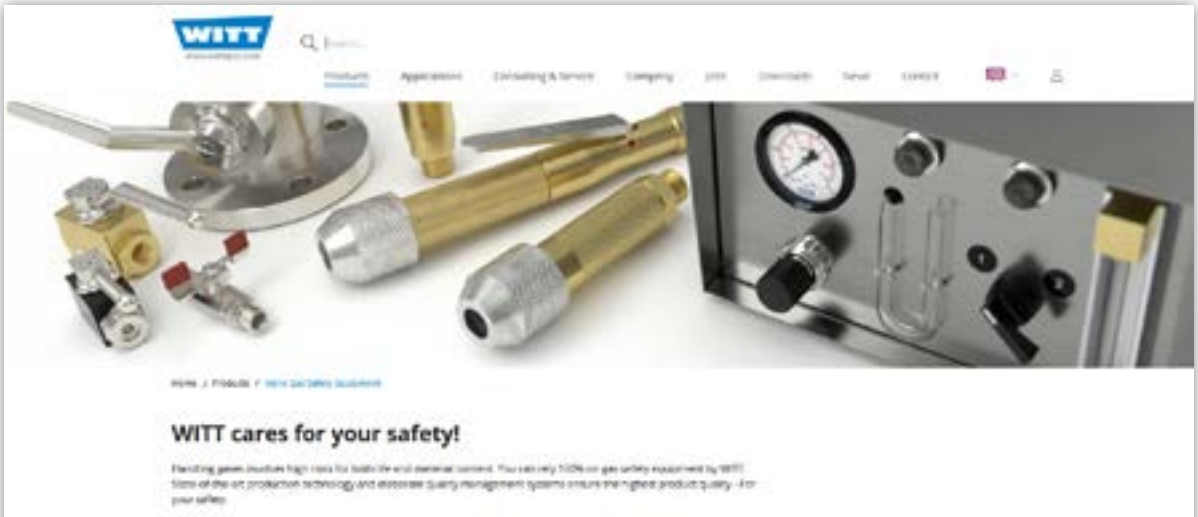
100 µm filter at gas inlet (1.4301)

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

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

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

Register here for our newsletter so that you don‘t miss anything!



ULTRAVENT 15-ES

connections 1/2"

Safety Relief Valve for venting excess pressure from receivers, pipelines and other equipment - ultra high blow-off performance

- spring-loaded, direct-acting safety relief valve
- flow-optimised valve system for maximum blow-off capacity
- every safety relief valve 100% tested
- optional: TÜV-certification of pressure setting
- tested according to DIN EN ISO 4126-1
- can also be used as a control valve or as a vacuum breaker
- dimensions: 65.5 x 34 mm
- 5 up to 500 mbar

ULTRAVENT 15-ES without strainer

ULTRAVENT 15-ES with strainer

data sheet

ULTRAVENT 15	**order no.**
pressure settings: 5 - 500 mbar	230-_ _ _ (depending on pressure-setting)

options:

strainer at outlet 100 µm (1.4301)	966.183000

individual TÜV approval for the set opening pressure (5 to 500 mbar)

individual TÜV approval with manufacturer‘s certificate in accordance with DIN EN ISO 4126-1 (from 100 mbar)

100 µm filter at gas inlet (1.4301)

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

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

18/07/2024

AV 619-ES

connections 1/2" up to 1"

data sheet

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

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

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

stainless steel 1.4305:
connections G1/2, G3/4, G1 RH IG, NPT 1/2, 3/4, 1 IG
flange DN 25 according to DIN 28403

stainless steel 1.4404:
connections G1/2, G3/4, G1 RH IG, NPT 1/2, 3/4, 1 IG

option:
individual TÜV approval
for the set opening pressure

AV 919-ES

connections 2", DN 40

data sheet

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

- spring- loaded, direct-acting safety relief valve
- every safety relief valve 100% tested
- optional: individual TÜV approval for the set opening pressure
- set to exactly the opening pressure you specify (in factory)
- dimensions: 89.5 X 144-170 mm, 1.500 g
- 5 up to 500 mbar

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

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

option:
individual TÜV approval
for the set opening pressure

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

18/07/2024

Pressure Regulator MINI

for precise control of low flow rates

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

data sheet

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

Pressure regulator

for outlet points

- for a stable working pressure and a safe workplace
- displays pressure via manometer or flow via manometer or float
- inlet MG
- outlet AGS

connections	manometer display	order no.
G 3/8 LH → G 3/8 LH	acetylene 0-1.5 bar	044112900
G 3/8 RH → G 1/4 RH	oxygen 0-10 bar	044226300
G 3/8 LH → G 3/8 LH	fuel gas 0-10 bar	044315000
G 3/8 RH → G 1/4 RH	nitrogen/air 0-10 bar	044526000
flow display (manometer) argon, mixed gases and CO2		
G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524100
flow display (float) argon, mixed gases and CO2		
G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524000

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

18/07/2024

PRESSURE REGULATORS - spring-loaded

Pressure Regulator

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

- for a stable working pressure and a safe workplace
- displays pressure via manometer or flow via manometer or float
- inlet DIN 477 / outlet AGS

connections	manometer display	order no.
clamp → G 3/8 LH	acetylene 0-1.5 bar	044113400
DIN 477 → G 1/4 RH	oxygen 0-10 bar	044227500
DIN 477 → G 1/4 RH	nitrogen 0-10 bar	044525500
DIN 477 → G 1/4 RH	Argon or CO2 0-10 bar	044525600
flow display (manometer) argon, mixed gases and CO2		
DIN 477 → G 1/4 RH	0 - 30 l/min	044525700
flow display (float) argon, mixed gases and CO2		
DIN 477 → G 1/4 RH	0 - 30 l/min	044525800

ADR 150F

manifold pressure regulator for acetylene up to 150 m³/h

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

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

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

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

data sheet

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

18/07/2024

DOME PRESSURE REGULATORS - manifold acetylene

ADR 75

data sheet

up to max. 75 m³/h

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

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

connections	inlet pressure	outlet pressure	order no.
G 3/4 IG → G 1 IG	25 bar	1.5 bar	210-018

special version up to 2.5 bar outlet pressure (on demand)

ADR 150

data sheet

up to max. 150 m³/h

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

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

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

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

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

18/07/2024

series 737LE

connections 3/4" / Kv value 2.4

data sheet

product video

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

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-10 bar
- suitable for various technical gases
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment

connections	max. inlet pressure*	outlet pressure	order no.
model 737 LE (brass), without pilot pressure regulator			
G 3/4" IG	60 bar	0.5-10 bar	278-091
model 737 LE/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
model 737 LE (stainless steel), without pilot pressure regulator			
G 3/4" IG	60 bar	0.5-10 bar	278-108
model 737 LE/S (stainless steel), set			
G 3/4" IG	60 bar	0.5-10 bar	292-0046
3/4" NPT IG	60 bar	0.5-10 bar	292-0096

replacement filter stainless steel 100 µm 956.504300

use for EX zone (ATEX), surcharge

*depending on gas type

Various installation positions for individual customisation

User-friendly and standardised connections tions ensure simple and quick integration into the pipework system.
The installation can be carried out indoors or outdoors.

Your WITT consultant will work with you to configure the necessary adaptations.

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

18/07/2024

series 737LE-HD

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

data sheet

product video

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

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-60 bar
- suitable for high pressures at inlet, up to 300 barg
- burn-out safety for O2 up to 200 bar (BAM report AZ 17055507)
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- ready-to-use
- inlet: G 3/4", outlet: G 1" IG
- option: lockable spindle hood against unauthorized adjustment
- different mounting parts available (maintenance kit see page 106)
- easy to install and to integrate directly into the process
- 1: 1 interchangeable with the previous version (please specify if desired)

connections	max. inlet pressure*	outlet pressure	order no.
model 737 LE-HD (brass), without pilot pressure regulator			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-116
model 737 LE-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 737 LE-HD/S (brass), set - especially for CO2			
G 3/4" IG - 1" IG	100 bar	0.5-26 bar	292-0058
model 737 LE-HD-ES (stainless steel), without pilot pressure regulator			
G 3/4" IG - 1" IG	300 bar	0.5-60 bar	278-117
model 737 LE-HD/S-ES (stainless steel), set (for O2 up to Pv max. 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 953.000300

use for EX zone (ATEX), surcharge

*depending on gas type

Your choice: as complete set or without pilot pressure regulator

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

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

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

18/07/2024

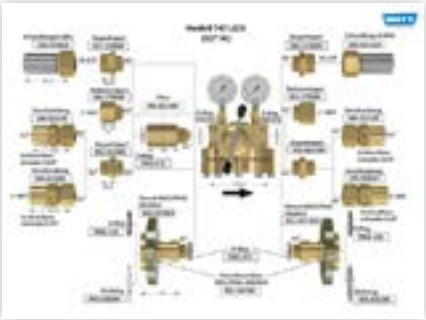
series 747LE

connections 1" / Kv value 3.6

data sheet

product video

overview mounting parts:



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

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see page 106)
- also as a SMART model for connected manufacturing

connections	max. inlet pressure*	outlet pressure	order no.
model 747 LE (brass), without pilot pressure regulator			
G 1" IG	40 bar	0.5-30 bar	278-088
model 747 LE/S (brass), set			
G 1" IG	40 bar	0.5-10 bar	292-0002
G 1" IG	40 bar	0.5-30 bar	292-0009
1" NPT IG	40 bar	0.5-10 bar	292-0102
1" NPT IG	40 bar	0.5-30 bar	292-0031
mounting parts (brass):			
O-ring			7901-026
gas filter			956.953200
flange connection DIN DN32/PN40 (O-ring seal)			952.218700
flange DIN DN32/PN40			801.597603
O-ring for flange DN32			7901-132
O-ring for flange G1"			7901-072
gasket for flange			950.026200
double nipple G1" - G 1.1/4"			952.223900
reducing nipple G1" - 1" NPT			953.179500
double nipple G1" - G1"			952.015900
welding nipple AD42 G 1.1/4"			100.015614
fitting G1" - G1"			100.313135
fitting G1" - 1" NPT			100.013283
model 747 LE-ES (stainless steel), without pilot pressure regulator			
G 1" IG	40 bar	0.5-30 bar	278-099
model 747 LE/S-ES (stainless steel), set			
G 1" IG	40 bar	0.5-10 bar	292-0027
G 1" IG	40 bar	0.5-30 bar	292-0028
1" NPT IG	40 bar	0.5-10 bar	292-0068
1" NPT IG	40 bar	0.5-30 bar	292-0109

stainless steel mounting parts on demand

use for EX zone (ATEX), surcharge

*depending on gas type

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

18/07/2024

747LE/S SMART

connections 1" / Kv value 3.6

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

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

All models of the 747LE/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

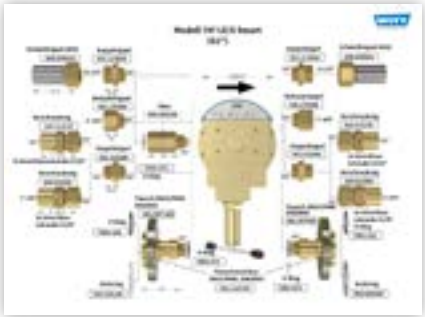
signal cable (5 m) order no. 803.172800
(3 cables are required to operate the device)

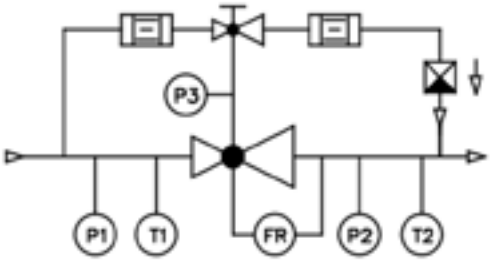
for mounting parts, options and maintenance kit see model 747LE/S Brass

data sheet

product video

overview mounting parts:





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

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

18/07/2024

series 757LE

connections 2", flange DN50 / Kv value 15

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

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see page 106)
- also as a SMART model for connected manufacturing

connections	max. inlet pressure*	outlet pressure	order no.
model 757 LE (brass), without pilot pressure regulator			
G 2" IG	40 bar	0.5-30 bar	278-089
model 757 LE/S (brass), set			
flange DIN DN 50	40 bar	0.5-10 bar	292-0017
flange DIN DN 50	40 bar	0.5-30 bar	292-0018
G 2" IG	40 bar	0.5-10 bar	292-0003
G 2" IG	40 bar	0.5-30 bar	292-0010
2" NPT IG	40 bar	0.5-10 bar	292-0022
2" NPT IG	40 bar	0.5-30 bar	292-0021
mounting parts (brass):			
O-ring for flange G2"			7901-135
reducing nipple G2" - 2" NPT			952.217000
flange connection DIN DN50/PN40 (O-ring seal)			952.211000
flange DIN DN50/PN40			801.597803
O-ring for flange DN50			7901-130
gasket for flange			950.010300
flange gas filter DIN DN50/PN40			956.923800
model 757 LE-ES (stainless steel), without pilot pressure regulator			
G 2" IG	40 bar	0.5-30 bar	278-097
model 757 LE/S-ES (stainless steel), set			
flange DIN DN 50	40 bar	0.5-10 bar	292-0037
flange DIN DN 50	40 bar	0.5-30 bar	292-____
G 2" IG	40 bar	0.5-10 bar	292-0019
G 2" IG	40 bar	0.5-30 bar	292-0122
2" NPT IG	40 bar	0.5-10 bar	292-0061
2" NPT IG	40 bar	0.5-30 bar	292-0026

stainless steel mounting parts on demand

use for EX zone (ATEX), surcharge

*depending on gas type

data sheet

product video

overview mounting parts:

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

18/07/2024

757LE/S SMART

connections 2", flange DN50 / Kv value 15

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

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

All 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

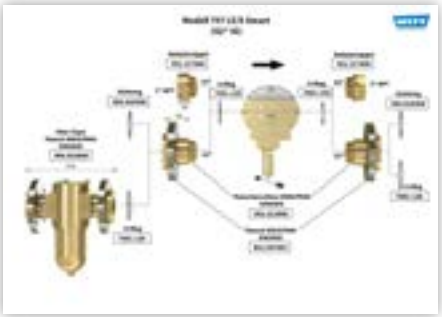
signal cable (5 m) order no. 803.172800
(3 cables are required to operate the device)

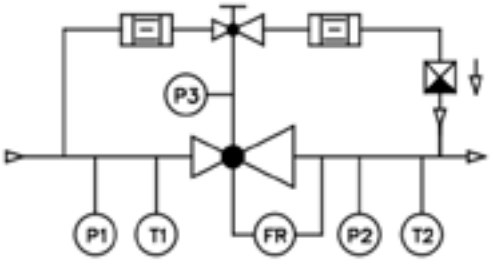
for mounting parts, options and maintenance kit see model 757LE/S Brass

data sheet

product video

overview mounting parts:





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

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

18/07/2024

series 767LE

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

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

- high pressure stability even during flow and temperature fluctuations
- outlet pressure range 0.5-30 bar
- ready-to-use
- option: lockable spindle hood against unauthorized adjustment
- set includes integrated pilot pressure regulator, and stainless steel pressure gauges, completely assembled and tested
- easy to install and to integrate directly into the process
- different mounting parts available (maintenance kit see page 106)
- also as a SMART model for connected manufacturing

connections	max. inlet pressure*	outlet pressure	order no.
model 767 LE (brass), without pilot pressure regulator			
G 3" IG	40 bar	0.5-30 bar	278-090
model 767 LE/S (brass), set			
flange DIN DN 80	40 bar	0.5-10 bar	292-0008
flange DIN DN 80	40 bar	0.5-30 bar	292-0005
flange DIN DN 100	40 bar	0.5-10 bar	292-0013
flange DIN DN 100	40 bar	0.5-30 bar	292-0066
G 3" IG	40 bar	0.5-10 bar	292-0011
G 3" IG	40 bar	0.5-30 bar	292-0012
3" NPT IG	40 bar	0.5-10 bar	292-0108
3" NPT IG	40 bar	0.5-30 bar	292-0302
mounting parts:			
o-ring for flange G3"			7901-098
reducing nipple G3" - 3"NPT			952.222700
flange connection DIN DN80/PN40 (O-ring seal)			953.206800
flange DIN DN80/PN40			801.598003
o-ring for flange DN100			7901-479
flange connection DIN DN100/PN40 (O-ring seal)			953.218400
flange DIN DN100/PN40			802.560503
o-ring for flange DN80			7901-136
gasket for flange DN80			950.015300
model 767 LE-ES (stainless steel), without pilot pressure regulator			
G 3" IG	40 bar	0.5-30 bar	278-___
model 767 LE/S-ES (stainless steel), set			
flange DIN DN 80	40 bar	0.5-10 bar	292-___
flange DIN DN 80	40 bar	0.5-30 bar	292-___
flange DIN DN 100	40 bar	0.5-10 bar	292-___
flange DIN DN 100	40 bar	0.5-30 bar	292-___
G 3" IG	40 bar	0.5-10 bar	292-___
G 3" IG	40 bar	0.5-30 bar	292-___
3" NPT IG	40 bar	0.5-10 bar	292-___
3" NPT IG	40 bar	0.5-30 bar	292-___

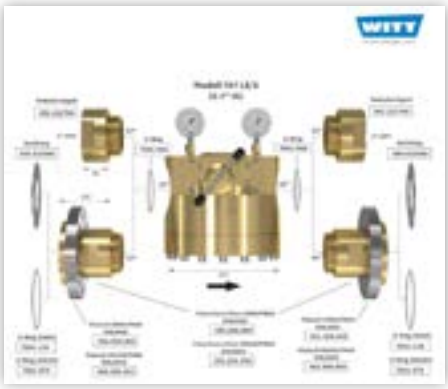
use for EX zone (ATEX), surcharge

*depending on gas type

data sheet

product video

overview mounting parts:



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

18/07/2024

767LE/S SMART

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

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

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

All models of the 767LE/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

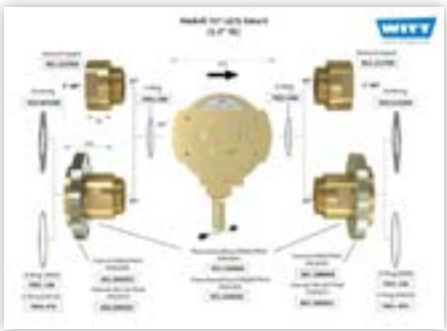
signal cable (5 m) order no. 803.172800
(3 cables are required to operate the device)

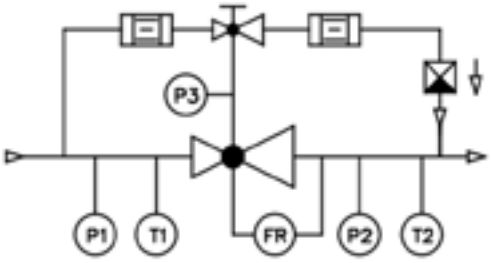
for mounting parts, options and maintenance kit see model 767LE/S Brass

data sheet

product video

overview mounting parts:





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

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

18/07/2024

Backpressure Regulator BPR 2

connections 2"

data sheet

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

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

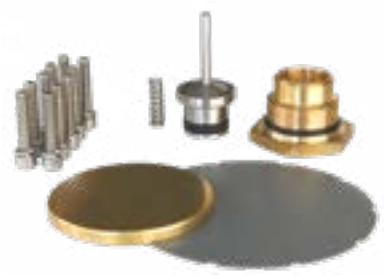
connections	adjustable upstream pressure	order no.
model BPR 2 (brass)		
G 2" IG	0.5-20 bar	276-001
model BPR 2 -ES (stainless steel)		
G 2" IG	0.5-20 bar	276-002

mounting parts see model 757LE (page 104)

Accessories

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

lockable spindle cap



maintenance kit

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

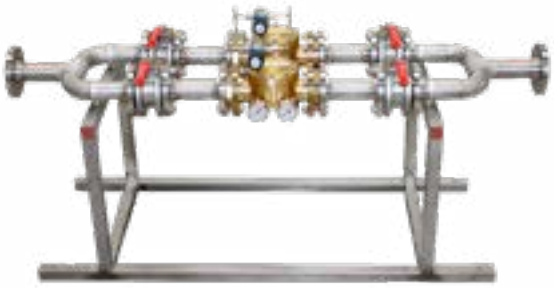
	material	order no.
lockable spindle cap	stainless steel	966061400
maintenance kits:		
for model 737 LE/S	brass	962.000085
for model 737LE-HD/S	brass	962.000084
for model 747 LE/S	brass	962.000067
for model 757 LE/S and 757LE/S Smart	brass	962.000065
for model 767 LE/S	brass	962.000061
for model 737 LE/S-ES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

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

18/07/2024

Plant engineering

planning and installation



parallel construction with 757LE/S

757LE/S with flange filter

Individual construction and mounting according to customer requirements

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

Individual parallel construction

Example I:
4 ball valves stainless steel DN50/PN40
2 dome pressure regulators 757LE/S
manifold DN50, counter-flange, TÜV-testing, CE 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

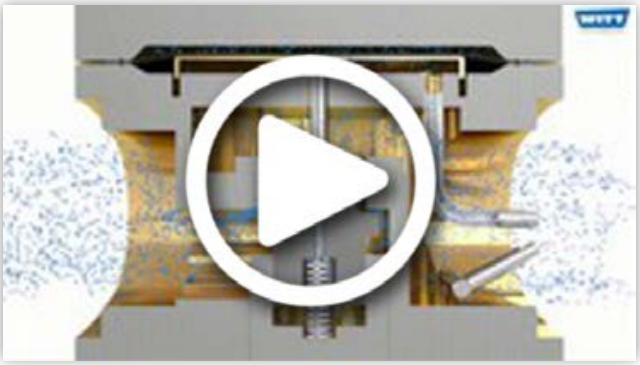
More customisations possible, for example central filter, safety valve, other connection sizes, etc.

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

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

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

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



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

Pressure regulating station

1-fold

data sheet

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

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

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

Pressure regulating station

4- or 6-fold

data sheet

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

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

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

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

18/07/2024

Universal 704

distribution station 4- or 6-fold

data sheet

Portable outlet point unit with robust framework

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

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

Universal V6

distribution station 4- or 6-fold

data sheet

Portable outlet point unit with V-frame

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

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

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

18/07/2024

Pressure regulation station

acetylene (25 bar)

684NG, single left

data sheet 684NG

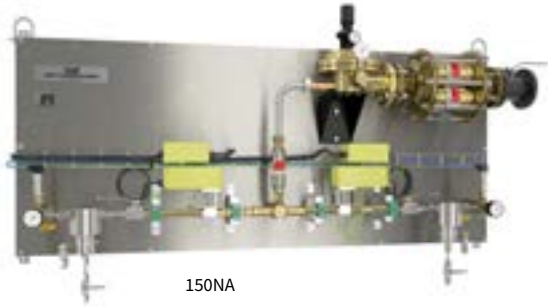
data sheet 684NGA

data sheet 386NGA

data sheet 150N

150NF, switch-over

data sheet 150NF



150NA

data sheet 150NA

data sheet WITT-Switch

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*	vertical	10 Nm³/h	193-015-001
single left*	horizontal	10 Nm³/h	193-016-001
single left**	vertical	10 Nm³/h	193-001-001
single left**	horizontal	10 Nm³/h	193-006-001
DRS 386NPL			
single left	vertical	30 Nm³/h	195-001-001
DRS 150NF			
single left	vertical	150 Nm³/h	190- _____
DRS 684NG			
both-sided*	vertical	10 Nm³/h	193-003-001
both-sided*	horizontal	10 Nm³/h	193-008-001
both-sided**	vertical	10 Nm³/h	193-002-001
both-sided**	horizontal	10 Nm³/h	193-007-001
DRS 386NPL			
both-sided	vertical	30 Nm³/h	195-002-001
DRS 150NF			
both-sided	vertical	150 Nm³/h	190-_____

*with shut-off device HDS17 (see page 60)
**without shut-off device HDS17 (see page 60)

DRS 684NGA (compatible with WITT-Switch) autom. switch-over			
both-sided	vertical	10 Nm³/h	193-005-001
both-sided	horizontal	10 Nm³/h	193-010-001
DRS 386NGA (compatible with WITT-Switch) autom. switch-over,			
both-sided	vertical	30 Nm³/h	193-012-001
both-sided	horizontal	30 Nm³/h	193-014-001
ZDA, autom. switch-over,			
both-sided	horizontal	30 Nm³/h	193-014-003
DRS 150NAFT (including WITT-Switch-Tronic) autom. switch-over,			
both-sided	horizontal	150 Nm³/h	190-_____

options: see page 111

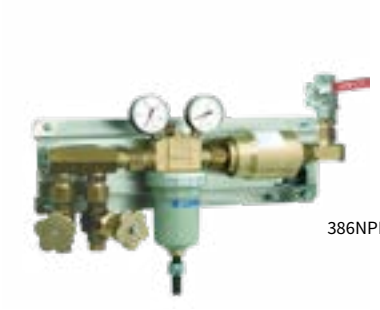
Illustrations exemplary

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

18/07/2024

Pressure regulation station

oxygen / other technical gases (300 bar)



386NPL

data sheet 386NPL

684NGA
automatic switch-over

data sheet 684NG

data sheet 684NGA

WITT-Switch

data sheet WITT-Switch

For ensuring continuous acetylene supply into a ring pipeline

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

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

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

WITT-Switch (control Unit for automatic switch over stations 684NGA and 386NGA)

menu language German	194-019
menu language English	194-019-01
menu language French	194-019-02
mandatory sign, conforms to type of gas	194-_ _ _
instruction plate, conforms to type of gas	194-_ _ _

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

When ordering, please advise which gas.

Illustrations exemplary

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

18/07/2024

Series 610

data sheet

1 up to 3 gases

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

- for acetylene, fuel gas, oxygen and shielding gas
- stainless steel plate
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

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

For optional flashback arrestors and quick couplings see page 42.

Series 603

data sheet

for any number of gases

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

- for acetylene, fuel gas, oxygen and shielding gas
- anti-swiveling fixed pressure regulator/flashback arrestors
- completely with welding and soldering nipples for pipe
- nickel-plated tube with nickel-plated wall screens

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

For optional flashback arrestors and quick couplings see page 42.

Illustrations exemplary

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

18/07/2024

Series 503

3-fold, for cutting machines

data sheet

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

- with gas filter 622 for increased service life of downstream fittings and equipment
- with flashback arrestor 85-10 against reverse gas flow and flashbacks
- nickel-plated tube with nickel-plated wall screens
- inlet with fittings and ball valves, incl. gas filter 622, flashback arrestor 85-10
- DIN EN ISO 5175 preventing counter flow and flashback
- completely mounted and tested

	order no.
outlet point 503 3-fold	280030091

1x acetylene, P inlet max. 1.5 bar, max 4.5 m3/h
(inlet welding nipple OD 21.3mm, ball valve DN 10,
gas filter 622, pressure regulator, flashback arrestor 85-10,
outlet G 3/4 LH male with cone)

1x oxygen for heating, P inlet max. 16 bar, max 45 m3/h
(inlet pipe coupler for pipe 15x1, ball valve DN 10,
gas filter 622, pressure regulator, flashback arrestor 85-10,
outlet G 3/4 RH male with cone)

1x oxygen for cutting, P inlet max. 16 bar, max 68 m3/h
(inlet pipe coupler for pipe 15x1, ball valve DN 10,
gas filter 622, pressure regulator, flashback arrestor 85-10,
outlet G 3/4 RH male with cone)

Illustrations exemplary

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

18/07/2024

series 722

for flashback arrestors and non-return valves

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

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

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

data sheet

product video

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

LK

lance holder

data sheet

Lance holders for oxygen lances 6 mm – 1.1/4"

- for safe and confortable holding of lance
- for quick and safe changeover
- dimensions: 135, 205, 215 mm
- weights: 600 / 1.900 g

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

SRV

backfire stop

data sheet

Backfire stop with temperature controlled cut-off valve

- safety elements: temperature-sensitive cut-off valve [TV] and non-return valve [NV]
- combinable with WITT oxygen lancing equipment
- with copper sealing
- optional: inlet-reducer with copper-ring
- dimensions: 90-215 mm
- weights: 390-2.670 g

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

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

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GHV

safety lancing valve

Safety lancing valve with lever operation

- combinable with WITT oxygen lancing equipment

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

data sheet

KLK

lance holder compact

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

- combination of several safety elements in one device
- for oxygen lances 1/4" – 3/4"
- maximum safety in compact design
- dimensions: 265 - 365 mm
- weights: 1.500 - 2.700 g

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

data sheet

Shut-off valve

for oxygen

for the manual interruption of gas supply

- working overpressure max. 25 bar
- stainless steel
- lengths: 65, 120 mm
- weights: 1.030 / 1.800 g

model	inlet → outlet	order no.
cut-off valve	G 3/4 IG → G 3/4 IG	800721400
adapter	G 3/4 AGS → G 3/4 AGS	952023700
adapter	G 3/4 AG → G 3/4 MG	100011116

data sheet

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

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622

for outlet points

data sheet

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

- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of stainless steel
- change of filter possible while installed
- every gas filter 100% tested
- 36 X 71 mm, ca. 40 g

model	connections	order no.
622	G3/8 RH IG - G3/8 LH MG	186-012
622	G3/8 RH IG - G3/8 RH MG	186-011
replacement filter		955003000

77

for pipes

data sheet

For reliable protection against contamination by ultrafine filtering of particulates and moisture (from 0.5 µm)

- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- ilter inserts in bronze (5/50 µm) especially for O2 or in stainless steel (0,5/7/40 µm)
- with condensate drain
- change of filter possible while installed
- every gas filter 100% tested
- 72 X 205 mm, ca. 2.8 kg

model	connections	order no.
77 (ca. 40 µm)	G 3/4 IG	077-100
replacement filter 3-part		FI-077
77 (ca. 10 µm)	G 3/4 IG	077-101
replacement filter 3-part		FI-078
77 (ca. 50 µm)	G 3/4 IG	077-102
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B
77 (ca. 5 µm)	G 3/4 IG	077-103
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B8
77 (ca. 0.5 µm)	G 3/4 IG	077-106
with stainless steel filter		
replacement filter stainless steel 3-part		FI-079
installation kit enabling active monitoring of filter contamination by means of differential pressure		966.0313

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

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625

for very high flow rates

Gas filter for filtering out mechanical impurities and condensate in pipelines

- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of stainless steel (ca. 40 µm)
- with condensate drain
- change of filter possible while installed
- every gas filter 100% tested
- 190 X 385 mm, ca. 12.2/16.7 kg

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

data sheet

HD

stainless steel filter

HD Gas Filter stainless steel up to 300 bar - for filtering out impurities (30-80 µm), ideal for hydrogen

- increases service life of downstream fittings and equipment
- high flowrate - for flow optimised design
- filter inserts made of chromium-nickel steel
- ideal for hydrogen and many other technical gases
- change of filter possible while installed
- every gas filter 100% tested
- 79 X 175 mm, ca. 2.7 kg

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

data sheet

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

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57

pur filter 3 µm

data sheet

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

- increases service life of downstream fittings and equipment
- finest filtering performance eliminates product waste
- high flowrate - for flow optimised design
- corrosion resistant filter insert (approx. 3 µm) stainless steel fibre fleece
- every gas filter 100% tested
- 77 X 60 mm, ca. 678 g

model	connections	order no.
57 - brass, nickel plated	G 3/8 IG - G 3/8 AGS	184007070
57 - stainless steel 1.4404	3/8" NPT - G 3/8 AG	184025250
replacement filter		FI-057

807

pure filter 5 µm

data sheet

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

- increases service life of downstream fittings and equipment
- finest filtering performance eliminates product waste
- high flowrate - for flow optimised design
- corrosion resistant filter insert (approx. 5 µm) stainless steel fibre fleece
- every gas filter 100% tested
- 21 X 58 mm, ca. 120 g

model	connection	order no.
807 - brass, nickel plated	1/4" NPT IG	185-002
807 - stainless steel 1.4404	1/4" NPT IG	185-006
replacement filter		956333400

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

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LE6

very high flow rates, DN100 / PN 40

data sheet

For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 15 µm), heavy unit for very high flow rates

- designed for Oxygen Service in accordance with EIGA, AIGA and CGA
- downstream equipment performance improvement
- can extend service life and reduce maintenance requirements of downstream equipment
- in-line maintenance, saves time and money
- very high flow rates, with low pressure drop
- ideal in combination with dome pressure regulator 767LE (including with smart-option)
- certainty of safety and functionality - every filter is 100% tested

model	connections	order no.
LE6	flange DN 100/PN40 pressure monitoring: G 3/8 IG	078-001

replacement filter FI-LE6

packaging (surcharge due to high expenditure)

Our gas filter in a new dimension

Our new filtre gaz LE6 is the perfect complement to the dome pression regulator 767LE/S et 767LE/S SMART.

With its 3“ raccords et a 15 µm filtre fineness, it is suitable pour jusqu‘à 40 bar max. operating overpression (oxygène 30 bar, CO2 25 bar).

The débit-optimised design enables a high débit rate et thus ensures the process quality of even the largest systems.

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

18/07/2024

Ball Valve with Female Thread

for acetylene

According to DIN ISO 228/1, PN25

- up to max. 1.5 bar working pressure
- housing: steel
- different connections and length

data sheet

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

Ball Valve with Female Thread

for methane, LPG, shielding gas, air

According to DIN ISO 228/1, PN25

- up to max. 25 bar working pressure
- housing: steel
- may be provided with DVGW reg. numbers on request, however this will limit the pressure to PN 16
- different connections and length

data sheet

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

Ball Valve with Female Thread

for oxygen

According to DIN ISO 228/1, PN10

- up to max. 10 bar working pressure
- housing: steel
- different connections and length

data sheet

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

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

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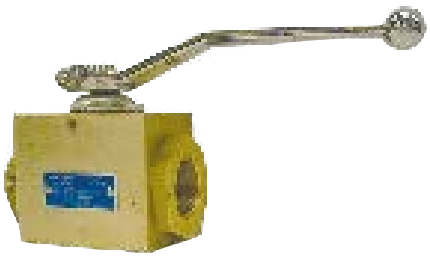
Ball Valve with Female Thread

for oxygen

According to DIN ISO 228/1, PN40

- up to max. 40 bar working pressure
- housing brass
- reliable protection against burnout
- different connections and length



data sheet

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

Ball Valve with Male Thread

for fuel gases, oxygen, shielding gas

With threaded connectors, EN 560, PN40

- up to max. 40 bar working pressure, acetylene max. 1.5 bar
- housing nickel-plated brass
- reliable protection against burnout
- connections G 3/8, length 89 mm
- suitability and usability of the pressure PN 40 is proved by BAM reports

data sheet

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

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

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Ball Valve with Flanged Connection

for fuel gases, oxygen, shielding gas

According to EN 558-1 (DIN 3202), PN25 / PN40

data sheet

- up to max. 25 bar / 40 bar working pressure, acetylene max. 1.5 bar
- oxygen PN 10
- housing: steel
- reliable protection against burnout
- connections DN20-DN100, length 150-190 mm
- up to DN 25 FTF-1 according to EN 558-1 (DIN 3202)
- from DN 32 FTF-27 according to EN 558-1 (DIN 3202)

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

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

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Ball Valve with Flanged Connection

for oxygen

data sheet

PN40

- up to max. 40 bar working pressure
- suitability and usability at pressure PN 40 is stated in BAM report
- housing stainless steel
- reliable protection against burnout
- connections DN20-DN100, length 150-190 mm
- up to DN 25 FTF-1 according to EN 558-1 (DIN 3202)
- ab DN 32 FTF-27 according to EN 558-1 (DIN 3202)

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

High pressure Ball Valves

for acetylene

data sheet

According to DIN ISO 228/1, PN320, female thread

- housing: steel
- suitability and usability at pressure PN 40 is stated in BAM report
- different connections and lengths

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

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

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DS Automatic

for fuel gases and oxygen

data sheet

Hose reel with twin hose DN 9/6.3 for a safe and orderly workplace gas supply

- for a safe and orderly workplace gas supply
- secure locking of the retraction mechanism helps reduce tension exerted on hose
- easy, orderly and wear-reducing retraction of the hose using guide rollers
- various mounting options
- increases service life of the hose

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

Everything from a single source

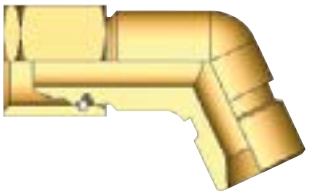
At WITT-Gasetechnik you will find a uniquely wide-ranging portfolio of products for various areas of gas technology.

No matter whether you need gas mixers, gas analysers, leak testers, safety fittings for welding and cutting, gas non-return devices for biogas plants or automatic pressure control stations for a central gas supply, whether you are looking for large systems or small components: In most cases, we can help. To make things easier for you.

If you are missing something or have special requirements, please contact us. We will develop solutions together.

Angle adapters

connection A (MG)



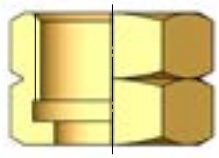
connection B

PN 10

- ANGLE: 115°

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005059
G 3/8 RH	G 1/4 RH	100107051
G 3/8 RH	G 3/8 RH	100107079
G 3/8 LH	G 3/8 LH	100008089

Nuts



according to EN 560

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

Nipples - female connection

DN

according to EN 560

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

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

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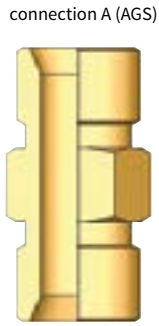
Nipples - male connection

according to EN 560

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

Screwed couplings - male connection

according to EN 560 - male threads on both sides



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

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

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Soldering nipple

according to EN 560

connection B (MG)

connection A (pipe Ø)

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

Welding nipple

according to EN 560, for pipes, with nut

connection A (pipe Ø)

connection B (MG)

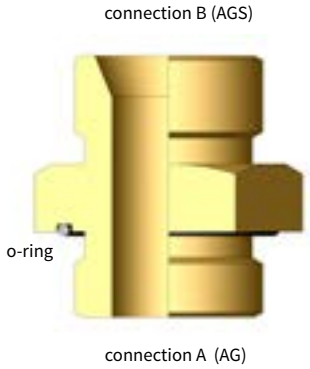
connection A	connection B	order no.
21.3 mm	G 3/8 LH	100008810
21.3 mm	G 3/8 RH	100007611
21.3 mm	G 1/2 LH	100010610
21.3 mm	G 1/2 RH	100009610
26.9 mm	G 1/2 LH	100010611
26.9 mm	G 3/4 LH	100012610
26.9 mm	G 3/4 RH	100011611
26.9 mm	G 1 LH	100014610
26.9 mm	G 1 RH	100013610
33.7 mm	G 1 LH	100014612
33.7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

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

18/07/2024

Screwed couplings

with o-ring, according to EN 560



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

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

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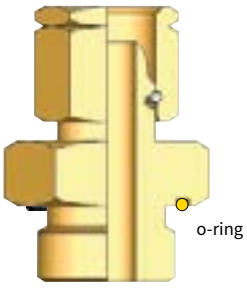
Male / female couplings

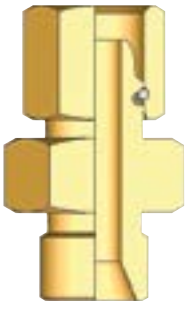
with male thread, O-ring and nut, according to EN 560



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

Male / female couplings

with male thread, according to EN 560



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

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

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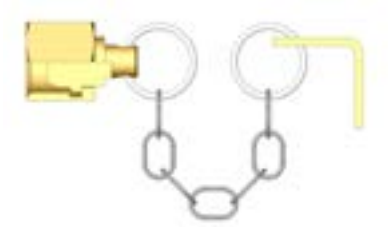
Cap with chain

according to EN 560

connection A (MG)

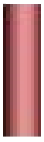


connection A	order no.
G 1/4 RH	100005000
G 3/8 RH	100007000
G 3/8 LH	100008000
G 1/2 RH	100009000
G 1/2 LH	100010000
G 3/4 RH	100011000
G 3/4 LH	100012000
G 1 RH	100013000
G 1 LH	100014000

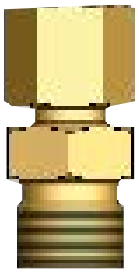
WITTFIX-pipe couplings

for copper- or stainless steel pipes, according to EN 560

- max. 25 bar working pressure
- containing: nut, O-ring, pressure ring, screwed coupler, cap nut



pipe



WITTFIX

nut

connection A (AG)

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

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

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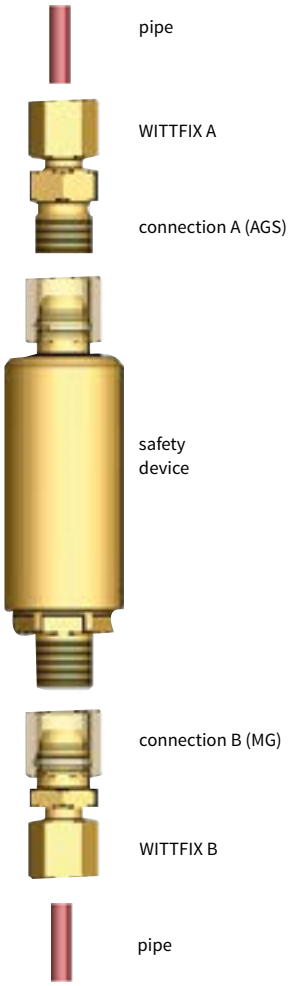
WITTFIX-pipe couplings

mit thread-connection, according to EN 560

- for the integration of a safety device into copper or stainless steel pipe-lines
- max. 25 bar working pressure



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

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

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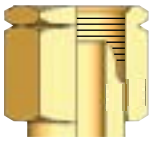
Types of threads

IG -
simple
female thread

AG -
simple
male thread



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

AGS -
male thread with
counterbore

Turning of threads:

RH	right-handed
LH	left-handed

Training

Topics:

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

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

Daily rate (per person): Including lunch, excluding hotel accommodation on demand
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
Declaration of Conformity 1935/2004 (food suitability)	998.440006
Printed Operation Manual	998.300011
Declaration of Conformity ‚Pressure Devices‘ (PED) Module G by German TÜV	998.260001
Manufacturer´s Certificate in accordance with DIN EN ISO 22000	998.440005

General Terms and Conditions

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

Status: 13/02/2024

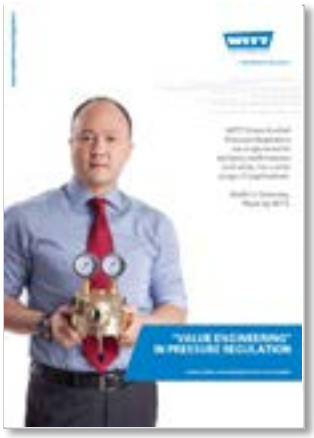
WITT SUPPORT MATERIAL - OVERVIEW

Brochures

Central gas supply

Stainless steel devices

Dome pressure regulators



Safety relief valves

Non-return Valves ULTRA

Overview MAP-portfolio

Gas analysis

Leak detection

MAP for fruit and vegetables

Overview gas mixers

Synthetic-air gas mixer

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

Videos Gas Control Equipment

Gas Mixers BM-2M

Gas Mixers MM-Flex

Gas Mixers MG FIX / FLEX

Gas mixers KM-MEM

Gas mixers KM-MEM+

Gas mixers series KM- and MG-

Gas Mixers KM-M

CO_2 Leak detection
LEAK-MASTER® PRO2

Inline leak detection
LEAK-MASTER® MAPMAX

Leak detection based on water
LEAK-MASTER® EASY

Gas analyser OXYBABY® 6.0

Gas analyser OXYPAD

Videos Gas Safety Devices

Quick couplings

Dome Pressure Regulators

Flashback arrestors

Test rig for valves

Non-return Valves ULTRA

Other Videos

Modified Atmosphere Packaging
Part 1 - basics

Modified Atmosphere Packaging
Part 2 - system components

More videos are in preparation.

Subscribe to never miss a new video: **WITT-YouTube channel**

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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