

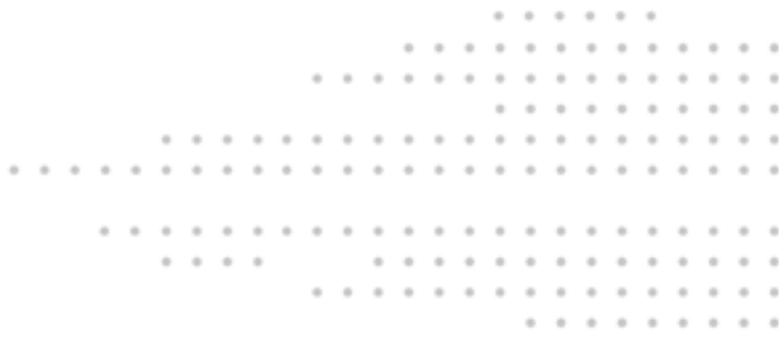


CATALOG **USA**

2021

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► www.wittgas.com

Quality products from WITT

Benefits to you:

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



Our product range

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

“Engineering services included. Working closely with you.



Adapting our gas technology to the requirements of the customers is our daily business. Because gas applications are as different and varied as technical gases and gas mixtures.

Our decades of experience and extensive know-how will give you the safety you need: for your employees, your material and your processes.

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

Any other questions?

We provide you with expert answers!

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Gas Control Equipment

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1. GAS MIXERS for non-flammable gases

KM20 ECO		2 gases small flows
	Small Gas mixer especially for dispensing equipment • variable mixture output • pre-set gas blends • various flow capacities	KM20 ECO KM 20-1 ECO with one outlet KM 20-2 ECO with two outlets
KM20 ECO		

M M		2 gases small to medium flows
	Compact Gas mixer for different applications • adjustable mixing valve • mixed gas flow dependent on inlet pressures • various flow capacities	MM-2 MM-2K MM-2G
MM-2		

M M - Flex		2 gases small to medium flows
	Ultra compact gas mixer for different applications, e.g. welding • adjustable mixing valve • adjustable metering valve • adjustable pressure	MM-Flex MM-Flex
MM-Flex		

B M		2 gases small flows
	Gas mixer for direct cylinder connection (high pressure) • constant output • infinitely variable gas blending • infinitely variable metering • no additional pressure regulator required • various flow capacities	BM-2 BM-2M (200 bar) BM-2M (300 bar)
BM-2M		

1. GAS MIXERS for non-flammable gases

KM10-2 Flex		2 gases small flows
 KM10-2 Flex	Small gas mixer especially for low gas consumption, e.g. in laboratory applications • variable mixture output • variable gas blending • various flow capacities • new mixing technology, mixed gas receiver is not required	KM10-2 Flex KM10-2 Flex

MG Fix		2 or 3 gases medium to high flows
 MG Fix	Pre-set 2 or 3 components gas mixers • variable mixture output • mixing range dependent on type of gas • new mixing technology, mixed gas receiver is not required	MG-2 Fix for 2 gases MG 25-2 capacity range up to approx. 22 Nm³/h MG 45-2 capacity range up to approx. 46 Nm³/h MG 75-2 capacity range up to approx. 68 Nm³/h MG 95-2 capacity range up to approx. 90 Nm³/h MG 125-2 capacity range up to approx. 135 Nm³/h
		MG-3 Fix for 3 gases MG 45-3 capacity range up to approx. 46 Nm³/h MG 95-3 capacity range up to approx. 90 Nm³/h MG 125-3 capacity range up to approx. 135 Nm³/h
		options: inlet pressure monitoring with alarm module AM3

MG Flex		2 gases medium to high flows
 MG Flex	Adjustable 2 components gas mixers for welding applications • variable mixture output • mixing range dependent on type of gas • new mixing technology, mixed gas receiver is not required	MG-2 Flex MG 25-2 capacity range up to approx. 22 Nm³/h MG 45-2 capacity range up to approx. 46 Nm³/h MG 75-2 capacity range up to approx. 68 Nm³/h MG 95-2 capacity range up to approx. 90 Nm³/h MG 125-2 capacity range up to approx. 135 Nm³/h
		options: inlet pressure monitoring with alarm module AM3

KM		2 or 3 gases small to medium flows
 KM20-2	Mixing system for different technical applications • constant output • infinitely variable gas blending • infinitely variable metering • various flow capacities	KM-2 for 2 gases KM 20-2 KM 30-2 KM 60-2 KM 100-2
		KM-3 for 3 gases KM 20-3 KM 30-3 KM 60-3 KM 100-3

1. GAS MIXERS for non-flammable gases

KM - M		2 or 3 gases medium to high flows
 KM100-2M KM100/200-M KM300/600-M	Gas mixer especially for MAP-packaging and flow-pack machines Features - see model KM (above) plus: - regulation of outlet pressure - monitoring of gas supply - integrated inlet pressure monitoring (alarm module AM3)	KM-2M for 2 gases KM 100-2M KM 200-2M KM 300-2M KM 600-2M KM-3M for 3 gases KM 100-3M KM 200-3M KM 300-3M KM 600-3M optional: automatic shut-off of O₂ when going below the limit
	 for food-grade gases, conforms to 1935/2004	

KM - ME		2 or 3 gases low to very high flows
 KM100-2ME on steel receiver Picture shows optional equipment		KM-2ME for 2 gases KM100-2ME mounted on 20 l / 10 bar steel receiver KM100-2ME mounted on 20 l / 10 bar stainless steel receiver KM100-2ME mounted on 100 l / 10 bar steel receiver KM100-2ME mounted on 100 l / 10 bar stainless steel receiver KM-3ME for 3 gases KM100-3ME mounted on 20 l / 10 bar steel receiver KM100-3ME mounted on 20 l / 10 bar stainless steel receiver KM100-3ME mounted on 100 l / 10 bar steel receiver KM100-3ME mounted on 100 l / 10 bar stainless steel receiver options: inlet pressure monitoring with alarm module AM3 surcharge for analogue pressure transmitter for 2 inlet gases surcharge for analogue pressure transmitter for 3 inlet gases
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.		

KM - M +		2 or 3 gases medium to high flows
 KM100-2M+	Gas mixer especially for MAP-packaging and flow-pack machine Features - see model KM-M (above) plus: - communication by serial Interface (e.g. PLC, PC or 4-20mA/0-10V) - incl. communication software via PC	KM-2M+ for 2 gases KM 100-2M+ KM 200-2M+ KM-3M+ for 3 gases KM 100-3M+ KM 200-3M+ option: operation via touch-screen display coupling socket set
	 for food-grade gases, conforms to 1935/2004	

1. GAS MIXERS for non-flammable gases

KM-Flow		2 or 3 gases medium to high flows	
	Gas mixer especially for MAP-packaging and flow-pack machines • electronic Mass Flow Controller (MFC) • touchscreen • measured data storage • may be combined with analysis MAPY LE • for up to 1000/1500 l/min	KM1000-2 Flow for 2 gases KM1000-2 Flow for flow-pack machines KM1000-2 Flow for vacuum machines	
		KM1500-3 Flow for 3 gases KM1500-3 Flow for flow-pack machines KM1500-3 Flow for vacuum machines	
KM-Flow with analyzer			
		for food-grade gases, conforms to 1935/2004	

M G - 2 M E		2 gases low to very high flows
	MG-2ME	
	MG50-2ME mounted on 100 l / 10 bar steel receiver	
	MG50-2ME mounted on 100 l / 10 bar stainless steel receiver	
	MG100-2ME mounted on 250 l / 11 bar steel receiver	
	MG100-2ME mounted on 250 l / 11 bar stainless steel receiver	
	MG200-2ME (see option "external filter")	
	options:	
	alarm module AM3	
	external filter as additional protection for each gas inlet recommended for MG 50 and MG 100; mandatory for MG 200	
	surcharge for analogue pressure transmitter for 2 inlet gases	

MG-2ME HD		2 or 3 gases high pressure, high flow
	Gas mixer for special application: high pressure, high flow, laser assist gas, N2/O2 gas mixers • MG50/100 gas mixing technology (see above) • especially for laser assist gas and N2/O2 gas mixers • mounted on 400 PSI 60 gallon receiver • including inlet pressure monitoring	MG-2ME HD MG50-2ME HD mounted on 400 PSI 60 gallon steel receiver MG100-2ME HD mounted on 400 PSI 60 gallon steel receiver

1. GAS MIXERS for non-flammable gases

MG-3ME

3 gases | low to very high flows



MG50-3ME



alarm module AM3

MG-3ME

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

options:

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

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

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

KM-MEM

2 or 3 gases | low to high flows



KM100-2MEM



KM100-3MEM

KM-2MEM for 2 gases

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

KM-3MEM for 3 gases

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

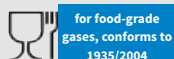
option:

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

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

Features - see model ME (above) plus:

- integrated inlet pressure monitoring (alarm module AM3)
- monitoring of gas supply
- to be used with mixed gas receiver, incl. inlet pressure monitoring



1. GAS MIXERS for non-flammable gases

KM - MEM +

2 or 3 gases | low to high flows



KM100-2MEM+

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

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

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



for food-grade
gases, conforms to
1935/2004

KM-2MEM+ for 2 gases

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

option:

operation via touch-screen display
coupling socket set

KM-3MEM+ for 3 gases

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

option:

operation via touch-screen display
coupling socket set

product video: this is how our
electronic gas mixer works

MG - MEM +

2 or 3 gases | higher flows



MG50-2MEM+

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

Features - see model KM-MEM+ (above)



for food-grade
gases, conforms to
1935/2004

MG-2MEM+ for 2 gases

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

option:

operation via touch-screen display
coupling socket set

MG-3MEM+ for 3 gases

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

option:

operation via touch-screen display
coupling socket set

1. GAS MIXERS for non-flammable gases

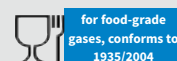
CO mixers		3 gases special application
 KM100-3ME PvDu	Gas mixer for special application: low CO mixers for food processing • KM100, MG100, MG200 gas mixing technology (see previous page) • especially for mixing CO for food processing • mounted on receiver • including inlet pressure monitoring	KM series KM 100-3 PvDu A N₂/CO₂/CO-N₂ PREMIX, mounted on 100 liter steel receiver KM 100-3 PvDu A N₂/CO₂/CO with CO monitor, mounted on 100 liter steel receiver
		MG series MG 100-3 PvDu A N₂/CO₂/CO with CO monitor, mounted on 250 liter steel receiver MG 200-3 PvDu A N₂/CO₂/CO with CO monitor (requires 500 liter receiver-not included)
		options: GAS CONTROL software

2. GASFLOW CONTROL SYSTEMS for non-flammable gases

KD		gas flow controller with O ₂ -analysis
 KD500-1A MAPY ZRL	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	KD KD500-1A MAPY ZRL
		options: sample testing via needle additional electrochemical sensor for sample testing heater and thermostat, only electro-chemical sensors



KM-MAPY ZRL		gas mixer and meterer
 KM100-2M MAPY ZRL	2-components gas mixers with integrated O₂ analysis Features - see model KD plus: • MAPY-analysis (see p. 20) • potential free contacts	KM-2M MAPY ZRL KM100-2M MAPY ZRL KM200-2M MAPY ZRL KM300-2M MAPY ZRL KM600-2M MAPY ZRL
		options: gas mixer with M+ (remote control)



3. GAS MIXERS for flammable gases

KM10-2 Flex		2 gases small flows
 KM10-2 Flex	Small gas mixer especially for little gas consumption, e.g. in laboratory applications • variable mixture output • variable gas blending • various flow capacities • new mixing technology, mixed gas receiver is not required	KM10-2 Flex KM10-2 Flex

KM		2 or 3 gases small to medium flows
 KM100-3	Gas mixing systems for different applications, e.g. for welding applications • infinitely variable gas blending • variable mixture output • various flow capacities • certified in accordance to ATEX	KM-2 for 2 gases (1 gas flammable) KM 20-2 KM 30-2 KM 60-2 KM 100-2 KM-3 for 3 gases (max. 2 flammable gases) KM 20-3 KM 30-3 KM 60-3 KM 100-3

KM-ME Ex		2 or 3 gases low to very high flows
 KM100-3ME Ex	Powerful gas mixers especially for highly fluctuating mixing gas output quantities For features - see KM (above) plus: • separate electrical control panel • 5 m cable between control unit and mixing device • certified in accordance to ATEX • model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information in section 6 „Gas analyzers“) • alarm module AM3 (optional): integrated inlet pressure monitoring with digital display for pressure (with analogue pressure transmitters) plus optical alarm, adjustable alarm limits, alarm acknowledgement required, protection of alarms, interfaces for controlling external alarms etc.	KM-2ME Ex for 2 gases KM100-2ME Ex A, with integrated analysis (see section „Gas analyzers“) KM100-2ME Ex mounted on 20 l / 10 bar steel receiver KM100-2ME Ex mounted on 20 l / 10 bar stainless steel receiver KM100-2ME Ex mounted on 100 l / 10 bar steel receiver KM100-2ME Ex mounted on 100 l / 10 bar stainless steel receiver KM-3ME Ex for 3 gases KM100-3ME Ex mounted on 20 l / 10 bar steel receiver KM100-3ME Ex mounted on 20 l / 10 bar stainless steel receiver KM100-3ME Ex mounted on 100 l / 10 bar steel receiver KM100-3ME Ex mounted on 100 l / 10 bar stainless steel receiver options: inlet pressure monitoring with alarm module AM3(for Ex) surcharge for analogue pressure transmitters Ex, 2 inlet gases surcharge for analogue pressure transmitters Ex, 3 inlet gases

3. GAS MIXERS for flammable gases

MG-ME Ex



MG100-ME Ex

MG200-ME Ex

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

Features - see KM (above) plus:

- separate electrical control panel
- 5 m cable between control unit and mixing device
- certified in accordance to ATEX
- model A with integrated analysis, LC-display, 4-20 mA signal and min./max. alarms (further information see section 6 „Gas analyzers“)
- 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.

2 or 3 gases | low to very high flows

MG-2ME Ex for 2 gases

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

MG-3ME Ex for 3 gases

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

options:

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

4. GAS MIXERS for medical applications

MED-MG

for synthetic air



MG50-2ME GB A

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

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

MED-MG

MED-MG 50-2ME GB A

MED-MG 100-2ME GB A

MED-MG 200-2ME GB A

MED-MG 500-2ME GB A

each with 2 gas filters 077 and printed operation manual

options:

automatic calibration

heating (for low ambient temperatures)

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

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

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

“Further evolution:

From alarm module to compact all-rounder

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

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

More information at ► www.wittgas.com

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

5. MIXED GAS RECEIVERS

Steel receivers



steel receiver, vertical,
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

without safety devices and connections

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

Stainless steel receivers



stainless steel receiver, horizontal,
without safety devices and connections

Stainless steel, not coated

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

without safety devices and connections

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

5. MIXED GAS RECEIVERS

Steel receivers



steel receiver, vertical,
incl. safety devices and connections

With ground coat, pickled, passivated

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

incl. safety devices and connections

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

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

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

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

Stainless steel receivers



Stainless steel receiver, horizontal
incl. safety devices and connections

Stainless steel, not coated

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

incl. safety devices and connections

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

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

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

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

6. GAS ANALYZERS

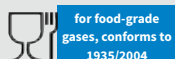
OXYBABY® M+

portable O₂ / CO₂ gas analyzer - basic model



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

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



OXYBABY® M+

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

options:

connector tube with Luer-Lok-connection

OXYBABY® 6.0

portable O₂ / CO₂ gas analyzer - premium model



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

features see above, plus:

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



OXYBABY® 6.0

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

options:

connector tube with Luer-Lok-connection
integrated barcode reader

further accessories: see p. 19 and 21



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

OXYBABY® M+P

basic gas analyzer for pressurized pipelines



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

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

OXYBABY® M+ P

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

premium gas analyzer for pressurized pipelines



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

features see above, plus:

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

OXYBABY® 6.0 P

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



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

Accessory for all OXYBABY® models:

- table rack

Accessories for the OXYBABY® 6.0 premium models:

- documentation software OBCC
- integrated barcode reader
- bluetooth printer

OXYBABY®-Accessories

Table rack for OXYBABY®
connector tube with Luer-Lok-connection
integrated barcode reader

OBCC software for the documentation of analysis results see p. 21

table rack, printer

OXYBABY®-Accessories



Canpiercer



Aquacheck

Image exemplary
Oxybaby® and bottle not included

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

for cans, bottles and mini packages

OXYBABY®-Accessories

Order no.

Canpiercer for cans and bottles (with set for head space analysis)

for cans without overpressure/gas (e.g. juice)*

for max. piercing height of 270 mm, needle length 5.5 mm 590000156

for cans and bottles with overpressure/gas, incl. bottle adapter*

for max. piercing height of 270 mm, needle length 8.5 mm 590000165

for max. piercing height of 390 mm, needle length 8.5 mm 590000166

for max. piercing height of 390 mm, needle length 18.5 mm 590000325

for cans with high overpressure/gas (strongly sparkling drinks)

incl. calibration module and flow control*

for max. piercing height of 270 mm, needle length 5.5 mm 590000239

for cans and bottles, pressure measurement only, incl. bottle adapter*

for max. piercing height of 390 mm, needle length 5.5 mm 590000341

*other versions on request

Canpiercer-module (for refitting):
bottle adapter

Aquacheck

equipment for the gas analysis of mini packages

Aquacheck Plus

Aquacheck incl. water container

OXYBEAM



O₂ laser gas analyzer for non-destructive sample testing of packages

- state-of-the-art laser technology for determining O₂ content
- avoids waste costs
- for packaging with transparent film area

non-destructive O₂ sample gas analyzer

OXYBEAM

OXYBEAM for O₂

OXYBEAM for CO₂

option:

plate with magnetic fixing for packages from 5 mm height

6. GAS ANALYZERS

PA 7.0



Compact tabletop analyzer for sample- and continuous testing of food packages (MAP) and for welding applications

- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- with zirconia measuring cell for O₂ for quicker measurements



tabletop O₂ / CO₂ gas analyzer

PA 7.0

PA 7.0 for O ₂	version P or L
PA 7.0 for CO ₂	version P or L
PA 7.0 for O ₂ /CO ₂	version P or L
PA 7.0 for O ₂	version S
PA 7.0 for O ₂	version S and L
PA 7.0 for O ₂ /CO ₂	version S
PA 7.0 for O ₂ /CO ₂	version S and L

options:

handle
coupling socket set (output signals; alarm contacts)
analysis software OBCC
integration of the analyzing system in the mixer housing
zirconia measuring cell for O₂
O₂ measurement in ppm-range (surcharge calibration)
heating and thermostat, only electro-chemical sensors
paramagnetic sensor

MAPY 4.0 / MAPY LE



MAPY 4.0 - inclined display
for use in laboratory



MAPY LE - vertical display
for use as inline analyzer

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

- for use in laboratory (housing with inclined display) and in production line (housing with vertical display)
- different designs: P (pressure), L (lance) and S (sample)
- connector set (output and alarm signals)
- with zirconia measuring cell for O₂ for quicker measurements
- MAPY LE: ideal also for inline analysis of flow packaging machines; minimization of gas consumption by combination with the gas mixer KM-FLOW or the KD gas meterer



O₂ / CO₂ gas analyzer, sample + inline

MAPY

MAPY 4.0 / MAPY LE	O ₂	version P or L
MAPY 4.0 / MAPY LE	CO ₂	version P or L
MAPY 4.0 / MAPY LE	O ₂ /CO ₂	version P or L
MAPY 4.0 / MAPY LE	O ₂	version S
MAPY 4.0 / MAPY LE	O ₂	version S and L
MAPY 4.0 / MAPY LE	O ₂ /CO ₂	version S
MAPY 4.0 / MAPY LE	O ₂ /CO ₂	version S and L

options:

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

MAPY VAC



Inline gas analyzer 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

O₂ / CO₂ gas analyzer, for traysealers and thermoformers

MAPY VAC

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

6. GAS ANALYZERS

Inline gas analysis		integrated with gas mixer
 GC 50	Gas Analyzers for H₂, He, etc. to be combined with WITT gas mixers - gas mixer and analyzer as a compact unit - integrated analysis with LCD display touchscreen - min./max. alarms - for flammable gases certified to ATEX	gas analysis for gas mixers - analyzer system H₂ (Ex, Thermal Conductivity Sensors) - analyzer system H₂ (Ex, Thermal Conductivity Sensors) with additional cut-off valve for flammable gases - analyzer system He (Thermal Conductivity Sensors) - analyzer system O₂ (chemical) - zirconia measuring cell for analyzer system O₂ (chemical) - analyzer system O₂ (paramagnetic) - analyzer system CO₂ (infrared) - analyzer system O₂/CO₂ (chemical/infrared) - analyzer system O₂/CO₂ (paramagnetic/infrared) - integration of the analyzing system in the mixer housing (MG 200 without surcharge)

Options		for WITT gas analyzers
 Back-purging device for inline gas analyzers against blocked filters on gas inlets	Additional functions for optimising the process - data export and analysis - automatic calibration - alarm function - error advice - back-purging device against blocked filters	options for WITT gas analyzers (except MAPY and MFA) - digital paperless chart recorder, 3 channels - integration chart recorder in mixer - LED-warning light with horn - digital chart-recorder (only GC 50) - data logger (only GC 50) - implementation of USB interface on the back or the front of the housing - analysis of the flow measurement (4-20mA), without flow-sensor - automatic calibration (not for PA), 1 channel - automatic calibration (not for PA), 2 channels - automatic calibration in Ex-version (not for PA), 1 channel - automatic calibration in Ex-version (not for PA), 2 channels - error advice via e-mail (only in combination with data logger (GC50)) - back-purging device for inline gas analyzers

OBCC		documentation software for OXYBABY® 6.0 and PA
	Windows software for the documentation of analysis measuring results. For OXYBABY® 6.0, P 6.0 and PA 7.0 - modern, intuitive interface - graphic representation of the measured data, verifiable PDF reports - comfortable data management with import and export function	Software - free 30-day trial version - OBCC full version incl. updates - License for 1 year - License for 2 years

MFA 9000		multigas-analyzer
 MFA 9000	Portable multigas-analyzer especially for maintenance and service - for analysis of up to 14 different combinations of gases - continuous analysis 4-20 mA output signal - digital display	MFA 9000 MFA 9000

6. GAS ANALYZERS

RLA100

ambient air monitoring



RLA100

Compact ambient air monitor for the detection of CO₂

- 2 alarm limits
- 4-digit display and 4 LEDs for visual control of gas concentration
- gas measuring computer with integrated alarm device (light and horn)
- easy wall-mounting

RLA100
RLA100

RLA compact

ambient air monitor



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

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

RLA compact

gas monitor 1-channel
every additional transmitter channel (max. 4)
transmitter for O₂
transmitter for CO₂ - not Ex
transmitter for O₂ Zircor - not Ex
transmitter for combustible gases H₂, methane, ethylene, propane (under explosion limit -0.50/100% UEG) - Atex: Zone 2, Cat. 3G
transmitter for CO
flow adapter (recommended for calibration)
transmitter cable per meter and transmitter

RLA multichannel

ambient air monitor



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

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

RLA multichannel

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

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

Inlet pressure monitoring

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

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

7. LEAK DETECTION EQUIPMENT

LEAK-MASTER® EASY



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

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

bubble-test

LEAK-MASTER® EASY	chamber size in approx. mm (HxWxD)
EASY 0.5	115 x 305 x 195
EASY 1	165 x 305 x 195
EASY 1.5	145 x 505 x 310
EASY 2	205 x 505 x 310
EASY 35 x 525 x 360	
EASY 4	320 x 625 x 500
EASY 5	340 x 760 x 500

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



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

LEAK-MASTER® PRO 2



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

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

CO₂-based

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

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



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

7. LEAK DETECTION EQUIPMENT

LEAK-MASTER® PRO



LEAK-MASTER® PRO

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

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

CO₂-based, for large packages

LEAK-MASTER® PRO

LM 12.2
LM 12.1

chambre size in approx. mm (WxDxH)

140 x 680 x 500
230 x 680 x 500

options:

WLAN (WIFI)
barcode reader IP 65
analysis software GASCONTROL CENTER
connection for rinsing air

order no.

966042600
957099400
966042500

LEAK-MASTER® MAPMAX



MAPMAX

MAPMAX compact

inline

LEAK-MASTER® MAPMAX

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

size in approx. mm (WxDxH)

1167 x 1408 x 2200

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

1840 x 1130 x 2200

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

1167 x 1408 x 2200

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

1840 x 1130 x 2200

options:

WIFI
barcode reader IP 65
analysis software GASCONTROL CENTER

MINK vacuum pump
central vacuum layout (control valve central vacuum)
surface pressurization (incl. motorization)
e.g. to speed up and improve the measurements for packages with a low gas volume

Uniquely quick and precise inline-leak detection of packages containing CO₂ directly from the packaging machine for trays/thermoform packaging or secondary packages respectively boxes (vacuum layout optionally)

features see LEAK-MASTER® PRO, plus:

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

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

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

Accessories



barcode reader



GASCONTROL CENTER

For process optimization with models EASY PLUS, PRO and MAPMAX

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

for WITT leak detectors

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

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

RF53N



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 47

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

RF53DN



Acetylene max. 11.5 m³/h
Fuel gases max. 105 m³/h
Oxygen max. 56 m³/h

DIN EN ISO 5175-1

with pressure relief valve

FA NV TV

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

RF53NSK



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

DIN EN ISO 5175-1

with integrated coupling
body according EN 561

FA NV TV

suitable probes see p. 37f

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

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

85-10



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 47

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
9/16-18 UNF LN 165 PSI H2	IG → IG	143-123
1/4" NPT 165 PSI H2	IG → IG	143-324
for oxygen:		
G 1/4 RH	MG → AGS	143-013
G 3/8 RH	MG → AGS	143-016
G 1/2 RH	MG → AGS	143-019
9/16" RH	MG → AGS	143-022
for fuel gases or oxygen:		
1/4" NPT	IG → IG	143-323
3/8" NPT	IG → IG	143-105
G 3/8 RH	IG → IG	143-227

85-20



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 47

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

85-30



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

DIN EN ISO 5175-1

FA NV TV

also available in stainless steel, see p. 48

connection	inlet → outlet	order no.
for fuel gases:		
G 3/4 LH	MG → AGS	147-001
G 1 LH	MG → AGS	147-003
1" NPT 165 PSI H2	IG → IG	147-058
3/4" NPT 165 PSI H2	IG → IG	147-091
for oxygen:		
G 3/4 RH	MG → AGS	147-065
G 1 RH	MG → AGS	147-068
1" NPT No TCV	IG → IG	147-094
for fuel gases (despite acetylene) or oxygen:		
3/4" NPT	IG → IG	147-081
1/2" NPT	IG → IG	147-083
G 1 1/2 RH	IG → IG	147-069
1" NPT	IG → IG	147-072
for acetylene only:		
1/2" NPT No TCV	IG → IG	147-119
1" NPT No TCV	IG → IG	147-121

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

Safety group 645/85-30		2- or 4-fold		
 Parallel connection of 2 or 4 flashback arrestors model 85-30, ideal for high consumption and high flows Acetylene max. 392 m³/h Fuel gases max. 2740 m³/h Oxygen max. 1850 m³/h DIN EN ISO 5175-1 FA NV TV also available in stainless steel, see p. 48		connection	inlet → outlet	order no.
		for fuel gases:		
		DN 50 (2fold)	flange DIN 2633	182-023
		DN 50 (4fold)	flange DIN 2633	182-007
		2" NPT (4fold)	IG → IG	182-030
		for oxygen:		
		DN 50 (2fold)	flange DIN 2633	182-027
		DN 50 (4fold)	flange DIN 2633	182-008

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

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

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

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

Super 90



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

DIN EN ISO 5175-1

with pressure controlled
cut-off valve

FA NV TV PV

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

Super 78



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

DIN EN ISO 5175-1

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

FA NV TV PV RV

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

Super 66



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

DIN EN ISO 5175-1

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

FA NV TV PV RV

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

F53N/HHO



Air max. 20 m³/h

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

for electrolysis devices

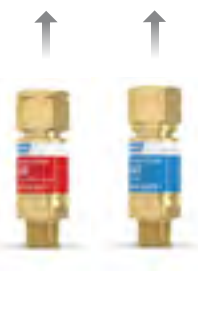
FA TV

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

9. FLASHBACK ARRESTORS for torches

E 460 - 1			
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 FA NV	connection	inlet → outlet
		for fuel gases:	
		4,0 mm - G 3/8 LH	nozzle → MG
		6,3 mm - G 3/8 LH	nozzle → MG
		8,0 mm - G 3/8 LH	nozzle → MG
		9,0 mm - G 3/8 LH	nozzle → MG
		for oxygen:	
		4,0 mm - G 1/4 RH	nozzle → MG
		6,3 mm - G 1/4 RH	nozzle → MG
		6,3 mm - G 3/8 RH	nozzle → MG
		8,0 mm - G 3/8 RH	nozzle → MG

E 460 - 2			
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 FA NV	connection	inlet → outlet
		for fuel gases:	
		4,0 mm - 4,0 mm	nozzle → nozzle
		6,3 mm - 6,3 mm	nozzle → nozzle
		8,0 mm - 8,0 mm	nozzle → nozzle
		9,0 mm - 9,0 mm	nozzle → nozzle
		for oxygen:	
		4,0 mm - 4,0 mm	nozzle → nozzle
		6,3 mm - 6,3 mm	nozzle → nozzle
		8,0 mm - 8,0 mm	nozzle → nozzle

E 460 - 3			
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 FA NV	connection	inlet → outlet
		for fuel gases:	
		G 3/8 LH	AGS → MG
		9/16" LH	AGS → MG
		for oxygen:	
		G 1/4 RH	AGS → MG
		G 3/8 RH	AGS → MG
		9/16" RH	AGS → MG

E 460 SK			
	Acetylene max. 9 m³/h Fuel gases max. 82 m³/h Oxygen max. 119 m³/h DIN EN ISO 5175-1 FA NV suitable coupling body: SK100-9, see p. 30	connection	inlet → outlet
		for fuel gases:	
		G 3/8 LH	probe → MG
		9/16" LH	probe → MG
		for oxygen:	
		G 1/4 RH	probe → MG
		G 3/8 RH	probe → MG
		9/16" RH	probe → MG

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

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

9. FLASHBACK ARRESTORS for torches

E460SKU



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

DIN EN ISO 5175-1

with integrated coupling
body: EN 561

FA NV

suitable coupling probes: see
section 14 "Quick couplings"

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

SK100-9



Coupling body for E460SK
(see p. 29) without non-re-
turn valve, part of the WITT
coupling system SK100

EN 561 / ISO 7289

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

RF53NU



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

DIN EN ISO 5175-1

FA NV TV

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

85-10NU



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

DIN EN ISO 5175-1

FA NV TV

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

9. FLASHBACK ARRESTORS for torches

85-10NU (eccentric)



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

eccentric outlet

DIN EN ISO 5175-1

FA NV

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

“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.

10. FLASHBACK ARRESTORS for cutting machines

E 460-3



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

DIN EN ISO 5175-1

FA NV

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

RF 53 U



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

DIN EN ISO 5175-1

FA NV

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

85-10 U



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

DIN EN ISO 5175-1

FA NV

connection	inlet → outlet	order no.
for fuel gases:		
G 3/8 LH	AGS → MG	143-223
G 1/2 LH	AGS → MG	143-040
for oxygen:		
9/16" LH	AGS → MG	143-301
G 3/8 RH	AGS → MG	143-133
G 1/2 RH	AGS → MG	143-042
9/16" RH	AGS → MG	143-304

01/21/2021

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(order no. 145-136)

without non-return valve:		
G 3/8 LH	MG → AGS	145-136



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

without non-return valve:		
G 1/2 LH	MG → AGS	143-200
1/4" NPT	IG → IG	143-168

270N



270N 270NU



pipeline fittings see next page

270NU (reverse flow)		
G 3/4 RH	MG → AGS	123-046
G 3/4 LH	MG → AGS	123-050
G 1 RH	MG → AGS	123-047
G 1 LH	MG → AGS	123-051
G 1.1/4 RH	MG → AGS	123-048
G 1.1/4 LH	MG → AGS	123-052
G 1.1/2 RH	MG → AGS	123-049
G 1.1/2 LH	MG → AGS	123-053

11. FLASHBACK ARRESTORS for high flows

623N/NU



Fuel gases 406 m³/h
Air 335 m³/h

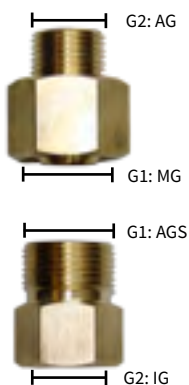
E730-1

FA NV TV

pipeline fittings see below

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

Pipeline fittings



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

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

01/21/2021

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

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

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



You can find our stainless steel products starting on page 46.
Further information on www.wittgas.com and in our "Stainless steel" brochure.

12. FLASHBACK ARRESTORS for central acetylene supply

FN12 / FN40

decomposition arrestor



Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

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

TRAC 206

FA TV

connection	inlet → outlet	order no.
FN12 G 1.1/2 RH	IG → IG	021-001

FN40 (double flow capacity) G 1.1/2 RH	IG → IG	021-003
--	---------	---------

Safety group 645/FN40

4- or 5-fold



Stops dangerous decomposition of acetylene in low pressure pipelines

Up to 1.5 bar

FN40 Q= ca. 140 m³/h

TRAC 206

FA TV

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

HDS17

shut-off device



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

Up to 25 bar

TRAC 206

DIN EN ISO 15615
DIN EN ISO 14114

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

Bundle connection

with non-return valve RV 650



For the direct connection to a bundle

Up to 25 bar

DIN EN ISO 15615
DIN EN ISO 14114

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

12. FLASHBACK ARRESTORS for central acetylene supply

MGN



Stops dangerous decomposition of acetylene in high pressure pipes in bottling plants

Up to 25 bar

DIN EN ISO 15615
DIN EN ISO 14114
EIGA Acetylene IGC DOC 123/4

☐ FA
partly including: ☐ NV

decomposition arrestor

connection	inlet → outlet	order no.
MGN		
G 1/2 RH - W21.8x1/14	AGS → AGS	022-014
G 1/4 RH +NV	AGS → IG	022-011
1/4" NPT F +NV	AGS → IG	022-015
1/4" NPT F	IG → IG	022-016
1/4" NPT F, two-sided +NV	AGS → IG, IG → AGS	022-020

HD - NV



High pressure non-return valve to be wound onto the gas cylinder by using a bow in accordance with DIN 477, part 1, no. 3

Up to 25 bar

EN ISO 15615

☐ NV

non-return valve for bows according DIN 477

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

“Every flashback arrestor 100% tested.

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



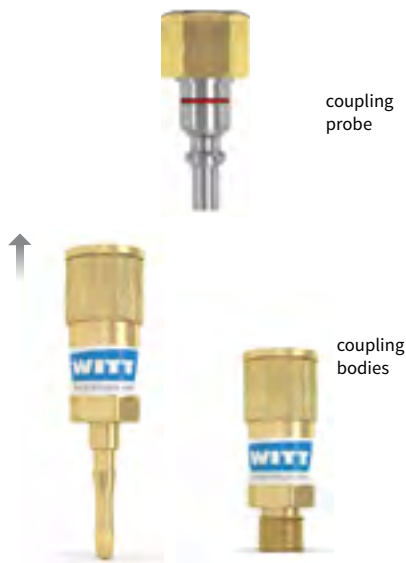
The WITT Company is certified for quality management system DIN EN ISO 9001:2008. Information on our product certifications and testing can be found on the data sheet. You can also find a list of all WITT certifications at:

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

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

13. QUICK COUPLINGS

SK 100-1



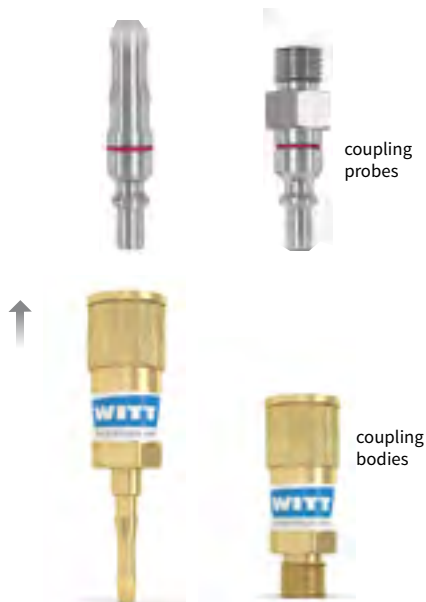
Coupling bodies with non-return valve and automatic gas cut-off valve

EN 561 / ISO 7289

for torches

connection	inlet → outlet	order no.
• coupling probes		
for fuel gases:		
G 3/8 LH	probe → MG	151-001
for oxygen:		
G 1/4 RH	probe → MG	151-003
G 3/8 RH	probe → MG	151-004
9/16-18UNF RH	probe → MG	151-029
for other gases:		
G 1/4 RH	probe → MG	151-005
• coupling bodies (also for SK100-2)		
for fuel gases:		
4,0 mm	nozzle → coupling body	150-001
6,3 mm	nozzle → coupling body	150-003
8,0 mm	nozzle → coupling body	150-004
9,0 mm	nozzle → coupling body	150-005
G 3/8 LH	MG → coupling body	150-028
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

SK 100-2



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

EN 561 / ISO 7289

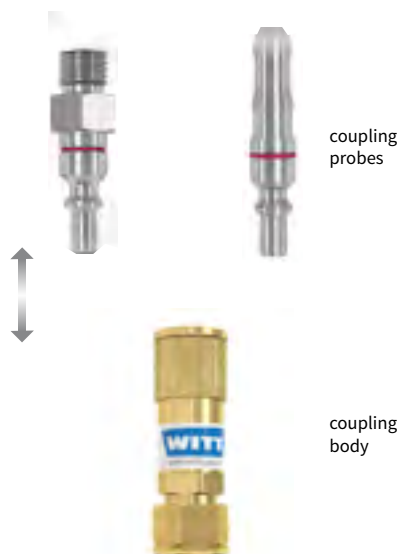
for hoses

connection	inlet → outlet	order no.
• coupling probes (also for SK100-3)		
for fuel gases:		
4,0 mm	probe → nozzle	151-007
6,3 mm	probe → nozzle	151-009
8,0 mm	probe → nozzle	151-010
9,0 mm	probe → nozzle	151-011
G 3/8 LH	probe → AGS	151-048
for oxygen:		
4,0 mm	probe → nozzle	151-013
6,3 mm	probe → nozzle	151-015
8,0 mm	probe → nozzle	151-016
G 1/4 RH	probe → AGS	151-045
G 3/8 RH	probe → AGS	151-044
for other gases:		
6,3 mm	probe → nozzle	151-021
G 1/4 RH	probe → AGS	151-047
G 3/8 RH	probe → AGS	151-046
• coupling bodies		
see SK100-1		

13. QUICK COUPLINGS

SK100-3

for outlet points



coupling probes

coupling body

Coupling bodies with automatic gas cut-off valve

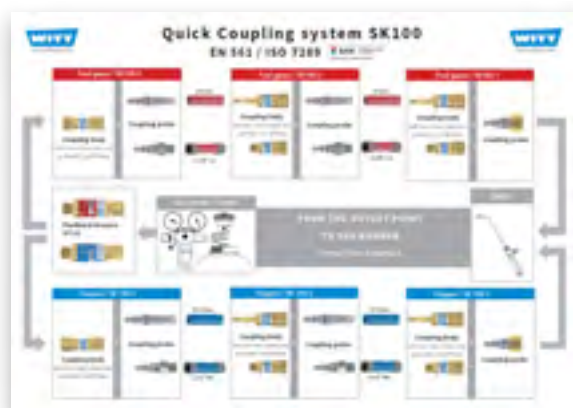
EN 561 / ISO 7289

connection	inlet ⇌ outlet	order no.
• probes see SK100-2		
• coupling bodies		
for fuel gases:		
G 3/8 LH	MG ⇌ coupling body	150-015
9/16 LH	MG ⇌ coupling body	150-016
for oxygen:		
G 1/4 RH	MG ⇌ coupling body	150-017
G 3/8 RH	MG ⇌ coupling body	150-018
9/16 LH	MG ⇌ coupling body	150-036
for other gases:		
G 1/4 RH	MG ⇌ coupling body	150-019
G 3/8 RH	MG ⇌ coupling body	150-028

01/21/2021

“Which coupling at which point? An overview.

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



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

download at: ► www.wittgas.com

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

13. QUICK COUPLINGS

Keymark coupling



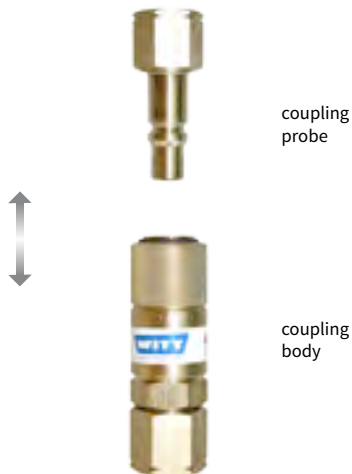
Keymark couplings protect outlet points from unauthorized access: only the owner of the keymark is able to take gas from the outlet point

EN 561 / ISO 7289

for outlet points

connection	inlet ⇌ outlet	order no.
• coupling bodies		
for fuel gases: G 3/8 LH	MG ⇌ coupling body	150-029
for other gases: G 1/4 RH	MG ⇌ coupling body	150-033
• keymark		801836700
• coupling probes		
for fuel gases:		
4,0 mm	probe ⇌ nozzle	151-007
6,3 mm	probe ⇌ nozzle	151-009
8,0 mm	probe ⇌ nozzle	151-010
9,0 mm	probe ⇌ nozzle	151-011
G 3/8 LH	probe ⇌ AGS	151-048
for other gases:		
6,3 mm	probe ⇌ nozzle	151-021
G 1/4 RH	probe ⇌ AGS	151-047
G 3/8 RH	probe ⇌ AGS	151-046

735 / 736



Hose couplings for higher flows

DIN 8544

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

14. NON-RETURN VALVES ULTRA

ULTRA 10



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

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 49

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



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

Up to 16 bar / G 1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 49

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

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

Other models and connection types on request

ULTRA 20



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

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

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 49

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

ULTRA 22



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

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

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 49

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

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

filter	seal O-ring	seal valve	housing	
yes	FPM	FPM	Brass	036-013

Other models and connection types on request

14. NON-RETURN VALVES ULTRA

ULTRA 30



Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar

Up to 16 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 50

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 40



Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 5 mbar

Up to 16 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 50

connection	inlet → outlet	order no.
G 2.1/2 RH	IG → IG	035-001
2.1/2" NPT	IG → IG	035-005

design (standard):

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

“ULTRA: Ultra-high performance comes as standard

ULTRA performance

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

ULTRA low opening pressure

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

ULTRA compact

Small and lightweight
Perfect for compact plant designs

ULTRA silent

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

ULTRA flexible

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

ULTRA safe

Reliably stops gas backflow and flashback

Typical applications



Low pressure pipelines



Thermal processing plants



Hydrogen applications



Biogas plants

15. NON-RETURN VALVES Standard

NV 654				
	Up to 60 bar (O₂ up to 30 bar) Air max. 130 m³/h NV DIN EN ISO 5175-2 also available in stainless steel, see p. 50	connection	inlet → outlet	order no.
		G 1/8 RH	IG → AGS	120003037

NV 100				
	Up to 25 bar Air max. 130 m³/h NV DIN EN ISO 5175-2	connection	inlet → outlet	order no.
		G 1/8 RH	IG → IG	100145001
		G 1/4 RH	IG → IG	100145002
		G 3/8 RH	IG → IG	100145003
		1/4" NPT	IG → IG	100145005
		3/8" NPT	IG → IG	100145007

NV 600H				
	Up to 40 bar NV DIN 8521-2 also available in stainless steel, see p. 51	connection	inlet → outlet	order no.
		G 1/2 RH	IG → IG	037-042
		G 3/4 RH	IG → IG	037-035
		G 1 RH	IG → IG	037-039
		1/2" NPT	IG → IG	037-085
		1" NPT	IG → IG	037-082

NV 70 / 70U				
	Up to 16 bar Air max. 1,220 m³/h NV DIN EN ISO 5175-2 pipeline fittings see p. 34	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

15. NON-RETURN VALVES Standard

NV 300				
	Up to 16 bar	connection	inlet → outlet	order no.
	Air max. 3,260 m³/h NV DIN 8521-2 also available in stainless steel, see p. 51	G 1 RH	IG → IG	300038002
		G 1.1/4 RH	IG → IG	300038031
		1" NPT	IG → IG	300038058
		1.1/4" NPT	IG → IG	300038065
		DN 32 / PN 40	loose flange (with O-ring)	300038A009

NV 400			
	Up to 16 bar	connection	inlet → outlet
	Air max. 8,100 m³/h		
	NV	G 1.1/2 RH	IG → IG
		G 2 RH	IG → IG
		1.1/2" NPT	IG → IG
		2" NPT	IG → IG
		DN 40 / PN 40	loose flange (with O-ring)
		DN 50 / PN 40	loose flange (with O-ring)
		DN 65 / PN 40	loose flange (with O-ring)
		DN 80 / PN 40	loose flange (with O-ring)
	DIN EN ISO 5175-2	order no.	
	also available in stainless steel, see p. 51		

NV 400		intermediate flange version		
	Non-return Valve NV 400 for up to 16 bar, completely with intermediate welding neck flange set for easy installation and removal	connection	inlet → outlet	order no.
		DN40	flange	400S-040MS
		DN50	flange	400S-050MS
	Air max. 8,100 m³/h			
	NV			
	DIN EN ISO 5175-2			
	also available in stainless steel, see p. 51			

NV 800				
	Up to 10 bar	connection	inlet → outlet	order no.
	Air max. 14,000 m³/h	DN 80 / PN 16	flange	080-001
	NV			
	DIN 8521-2			

15. NON-RETURN VALVES Standard

NV 2000



Up to 10 bar

Air max. 26,800 m³/h

NV

DIN 8521-2

to be mounted vertically in
bottom-up flow direction

connection

inlet → outlet

order no.

DN 80 / PN 16

flange

2000119002

DN 100 / PN 16

flange

2000119003

DN 125 / PN 16

flange

2000119004

DN 150 / PN 16

flange

2000119006

DN 200 / PN 16

flange

2000119007

01/21/2021

“Have you seen our case studies?”

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

Perhaps your topic is also included?

Read for example:

Non-return Valves in Heat Treatment



16. SAFETY RELIEF VALVES

SV 805



Option: adapter for ventilation pipe

For the safe relief of over-pressure (gases and vapours) from receivers, piping and other process units up to 45 bar

- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU

- also available in stainless steel, see p. 52

SV 805

order no.

pressure settings:

> 0.5 ≤ 45 bar

various connections available

200- _ _ _

(in accordance with pressure-setting)

special sealing compound, surcharge

Adapter to connect venting pipes and safety relief valve SV 805,

including o-ring

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



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

- manual ventilation-

up to 45 bar

- CE 0045
- certified by TÜV as Category IV (Modules B & D) safety devices as per European Pressure Equipment Directive (PED) 2014/68/EU

- also available in stainless steel, see p. 52

SV 805A

order no.

with venting tool for manual ventilation, outlet: 1/2 NPT IG

pressure settings:

> 0.5 ≤ 45 bar

various connections available

200A- _ _ _

(in accordance with pressure-setting)

special sealing compound, surcharge

SV 805 Smart



Safety relief valve 805 including Smart function:

- optical signal (red/green diode) directly on the valve, indicates the open or closed condition

- digital signal through an NPN / PNP open collector signal

- also available in stainless steel, see p. 52

SV 805 Smart

order no.

pressure settings:

> 0.5 ≤ 45 bar

various connections available

200SMART- _ _ _

(in accordance with pressure-setting)

signal cable with angled plug, 2 m

850022900

special sealing compound, surcharge

AV 815



Safety relief valve for acetylene - only to be used in connection with manifold pressure regulators conform to DIN EN ISO 7291

outlet pressure blow-off flow

opening pressure

order no.

0.6 bar

50 m³/h

0.75 bar

200-277

0.7 bar

60 m³/h

0.95 bar

200-353

0.8 bar

65 m³/h

1.25 bar

200-354

0.9 bar

70 m³/h

1.25 bar

200-355

1.1 bar

72 m³/h

1.55 bar

200-356

1.5 bar

75 m³/h

1.90 bar

200-278

2.0 bar

90 m³/h

2.50 bar

200-279

connections:

G 1/2 AG → M24 x 1 IG

16. SAFETY RELIEF VALVES

AV 319



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

brass

also available in stainless steel, see p. 53

pressure settings

10 - 80 mbar

order no.

120-____
(according to
pressure-setting)

individual TÜV approval for the set opening pressure

connections:
G 1/8 RH AG-IG

AV 619



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

also available in stainless steel, see p. 53

pressure settings

5 - 500 mbar

order no.

300-____
(in accordance with
pressure-setting)

individual TÜV approval for the set opening pressure

connections:
G1/2, G3/4, G1 RH IG
NPT 1/2", 3/4", 1" IG

AV 919



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

aluminum anodized

also available in stainless steel, see p. 53

pressure settings

5 - 500 mbar

order no.

400-____
(in accordance with
pressure-setting)

individual TÜV approval for the set opening pressure

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

01/21/2021

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

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

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

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

17. STAINLESS STEEL DEVICES

Series RF53N-ES



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

RF53N-ES: air max. 180 m³/h

RF53N/H-ES: air max. 46 m³/h

FA NV TV

FA NV TV

DIN EN ISO 5175-1

flashback arrestor

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

Series RF85-10N-ES



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

RF85-10N-ES: air max. 315 m³/h

RF85-10N/H-ES: air max. 82 m³/h

FA NV TV

FA NV TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
F85-10N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
1/4" NPT	IG → IG	143-149
F85-10N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	143-100
RF85-10N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
1/4" NPT	IG → IG	143-061
3/8" NPT	IG → IG	143-119
9/16" - 18 UNF VCR	AG → AG	143-163
9/16" - 18 UNF VCR	AG → AG	143-190
(e.g. H ₂ up to 11 bar or O ₂)		
7/8" - 14 UNF VCR	AG → AG	143-134
3/8 LH	MG → AGS	143-054
RF85-10N/H-ES		
for fuel gases (e.g. hydrogen up to 10 bar):		
1/4" NPT	IG → IG	143-077
3/8" NPT	IG → IG	143-087
7/8" - 14 UNF VCR	AG → AG	143-076
3/8 LH	MG → AGS	143-078

RF85-20N-ES



Air max. 360 m³/h

FA NV TV

DIN EN ISO 5175-1

flashback arrestor

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

17. STAINLESS STEEL DEVICES

Series RF85-30N-ES



RF85-30N-ES:
Air max. 1,150 m³/h
FA NV TV

RF85-30N/H-ES:
Air max. 310 m³/h
FA NV TV

DIN EN ISO 5175-1

flashback arrestor

connection	inlet → outlet	order no.
RF85-30N-ES		
for fuel gases (e.g. hydrogen up to 4 bar) or oxygen:		
3/4" NPT	IG → IG	147-071
1" NPT	IG → IG	147-092
RF85-30N/H-ES		
for fuel gases (e.g. hydrogen up to 11 bar):		
1 NPT	IG → IG	147-047
3/4" NPT	IG → IG	147-039

Safety Group 645



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

Acetylene max. 392 m³/h
Fuel gases max. 2740 m³/h
Oxygen max. 1850 m³/h

DIN EN ISO 5175-1

FA NV TV

RF85-30N-ES (2- or 4-fold)

connection	inlet → outlet	order no.
for fuel gases:		
DN 50 (2fold)	flange DIN 2633	182-045B
DN 50 (4fold)	flange DIN 2633	182-042B
2" NPT (4fold)	IG → IG	182-030B
for oxygen:		
DN 50 (2fold)	flange DIN 2633	182-045O
DN 50 (4fold)	flange DIN 2633	182-042O

F100N-ES



Air max. 32 m³/h

FA TV

DIN EN ISO 5175-1

flashback arrestor

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

F53



As flame arrestor ideal for mounting in pipelines up to DN 10 and to protect appliances, e.g. gas analyzers.

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

FA

DIN EN ISO 16852

detonation/deflagration flame arrestor and volume protection

connection	inlet → outlet	order no.
detonation and deflagration flame arrestor F53:		
G 1/4"	IG → IG	145-258
detonation and deflagration volume protection device F53:		
G 1/4" - M12	IG → AG	145-250

17. STAINLESS STEEL DEVICES

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

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

Other models and connection types on request

ULTRA 20		non-return valves "ULTRA"		
	Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 4 mbar Up to 16 bar / G 1", 1/2", 3/4" NV DIN EN ISO 5175-2	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 (standard):			
filter: yes	seal O-ring: NBR	seal valve: CR	housing: Stainless Steel

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

Other models and connection types on request

17. STAINLESS STEEL DEVICES

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

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

654-ES		non-return valve		
	Up to 60 bar (O₂ up to 30 bar) Air max. 130 m³/h  NV DIN EN ISO 5175-2	connection	inlet → outlet	order no.
		G 1/8 RH	IG → AGS	120.403033

NV100		non-return valve		
	Up to 25 bar Air max. 130 m³/h  NV DIN EN ISO 5175-2	connection	inlet → outlet	order no.
		G 1/4 RH	IG → IG	145GRS-009

17. STAINLESS STEEL DEVICES

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

NV 300		non-return valve		
	Up to 16 bar Air max. 3.260 m³/h NV DIN 8521-2	connection	inlet → outlet	order no.
		G 1 RH	IG → IG	038-064

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

NV 800-ES		non-return valve		
	Up to 300 bar	connection	inlet → outlet	order no.
		1/4" NPT	AG → AG	311-002

17. STAINLESS STEEL DEVICES

SV 805-ES		safety relief valve	
 Option: adapter for ventilation pipe	For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units up to 45 bar optional: adapter for ventilation pipe CE0045	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 SV 805-ES	
		connections M 24x1 AG → 1/2" NPT IG, st. steel 1.4541	801727800K
		connections M 24x1 AG → 1/2" NPT VCR AG, st. steel 1.4404	801693000K

SV 805A-ES		safety relief valve	
	For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units - manual ventilation - up to 45 bar CE0045	SV 805A-ES	order no.
		with venting tool for manual ventilation, outlet: 1/2 NPT IG	
		pressure settings:	
		> 0.5 ≤ 45 bar	200A- _ _ _
		with standard connection, stainless steel 1.4541	
		with VCR connection, stainless steel 1.4541	
		special sealing compound, surcharge	

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

SV 811 L		safety relief valve	
	Spring loaded, direct acting pressure relief valve for hydrogen-powered motor vehicles in accordance with the European regulation (EC) No. 79/2009, as implemented by regulation (EC) No. 406/2010 up to 45 bar	pressure settings	order no.
		> 4.5 - 45 bar	200AU-L- _ _ _ (in accordance with pressure-setting)
		diff. connections	

17. STAINLESS STEEL DEVICES

AV 319-ES		safety relief valve	
	For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units	pressure settings	order no.
		10 - 80 mbar	120-__ __ (depending on pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G 1/8 RH IG	
AV 619-ES		safety relief valve	
	For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units up to 500 mbar	pressure settings	order no.
		5 - 500 mbar	300-__ __ (depending on pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G1/2, G3/4, G1 RH IG IG → IG 1/2", 3/4", 1" NPT IG → IG	
AV 919-ES		safety relief valve	
	For the safe relief of overpressure (gases and vapours) from receivers, piping and other process units up to 500 mbar	pressure settings	order no.
		5 - 500 mbar	400-__ __ (depending on pressure-setting)
		individual TÜV approval for the set opening pressure	
		connections: G2 RH IG NPT 2", 1.1/2" IG	

18. PRESSURE REGULATORS

Pressure regulator		for outlet points		
	To be connected directly to the outlet point - displays pressure and flow via manometer and/or variable area flow meter - inlet MG, outlet AGS	connections	manometer display	order no.
		G 3/8 LH → G 3/8 LH	acetylene 0-1.5 bar	044112900
		G 3/8 RH → G 1/4 RH	oxygen 0-10 bar	044226300
		G 3/8 LH → G 3/8 LH	fuel gas 0-10 bar	044315000
		G 3/8 RH → G 1/4 RH	nitrogen/air 0-10 bar	044526000
		flow display (manometer)		
		argon, mixed gases and CO₂		
		G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524100
		flow display (variable area flow meter)		
		argon, mixed gases and CO₂		
		G 3/8 RH → G 1/4 RH	0 - 30 l/min	044524000

Pressure regulator		for cylinders		
	To be connected directly to the cylinder (200 bar), single-level - displays pressure and flow via manometer and/or variable area flow meter - inlet DIN 477, outlet AGS	connections	manometer display	order no.
		clamp → G 3/8 LH	acetylene 0-1.5 bar	044113400
		DIN 477 → G 1/4 RH	oxygen 0-10 bar	044227500
		DIN 477 → G 1/4 RH	nitrogen 0-10 bar	044525500
		DIN 477 → G 1/4 RH	argon or CO ₂ 0-10 bar	044525600
		flow display (manometer)		
		argon, mixed gases and CO₂		
		DIN 477 → G 1/4 RH	0 - 30 l/min	044525700
		flow display (variable area flow meter)		
		argon, mixed gases and CO₂		
		DIN 477 → G 1/4 RH	0 - 30 l/min	044525800

ADR 150		manifold pressure regulator for acetylene			
	Powerful dome pressure regulator for acetylene for the regulation of high flows on manifolds and bundles - optimal emptying of the bundle because of very low pressure difference - extremely stable outlet pressure - integrated blow-off valve - flow capacity up to 150 m³/h	connections	inlet pressure	outlet pressure	order no.
		DN 25 (DIN 3861) → flange DN 50/PN 40 (DIN 2656)	25 bar	1.5 bar	210-002
		special edition up to 2 bar outlet pressure available (on demand)			

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

18. PRESSURE REGULATORS

Dome Pressure Regulators

series 737LE

connections max. inlet pressure* outlet pressure order no.

BRASS

model 737LE (brass), without pilot pressure regulator

G 3/4" IG 60 bar 0.5-10 bar 278-091

model 737LE/S (brass), set

G 3/4" IG 60 bar 0.5-10 bar 292-0006

3/4" NPT IG 60 bar 0.5-10 bar 292-0072

STAINLESS STEEL

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

G 3/4" IG 60 bar 0.5-10 bar 278-108

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

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

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



737LE



737LE-ES



737LE/S



737LE/S-ES

series 737LE-HD (high pressure model)

BRASS

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

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

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

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

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

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

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

STAINLESS STEEL

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

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

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

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



737LE-HD



737LE-HD-ES



737LE-HD/S



737LE-HD/S-ES

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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 60)
- easy to install and to be integrated into the process
- 1:1 interchangeable with the previous version (please specify if desired)

*depending on type of gas

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



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

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

See also:

► www.domepressureregulators.com

WITT
www.wittgas.com

series 747LE



747LE-ES



747LE/S-ES

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 60)
- easy to install and to be integrated into the process

STAINLESS STEEL

stainless steel mounting parts on demand

This diagram illustrates the exploded view of a pressure washer assembly, showing the central pump unit and its various connections. The components are labeled with their part numbers and specifications:

- Welding Nipple:** 100.015614, Ø AD42, length 91.5.
- Double Nipple:** 952.223900, G1.1/4" x G1", length 28.6.
- Reducing Nipple:** 953.179500, G1" x G1", length 31.
- Fitting:** 100.313135, G1" x G1", length 76.5, includes 3x screw plug G1/8".
- Double Nipple:** 952.015900, G1" x G1", length 28.6.
- Fitting:** 100.013283, 1" NPT x G1", length 81.5, includes 3x screw plug G1/8".
- Filter:** 956.953200, G1" x G1", length 66.
- O-ring:** 7901-026, G1" x G1".
- Flange DN32/PN40 DIN/ANSI:** 801.597603, length 79.
- Gasket:** 950.026200.
- O-ring:** 7901-132, G1" x G1".
- Flange Connection DN32/PN40, DIN/ANSI:** 952.218700.
- O-ring:** 7901-072, G1" x G1".
- Double Nipple:** 952.223900, G1" x G1.1/4", length 28.6.
- Reducing Nipple:** 953.179500, G1" x G1", length 31.
- Fitting:** 100.313135, G1" x G1", length 76.5, includes 3x screw plug G1/8".
- Double Nipple:** 952.015900, G1" x G1", length 28.6.
- Fitting:** 100.013283, 1" NPT x G1", length 81.5, includes 3x screw plug G1/8".
- O-ring:** 7901-026, G1" x G1".
- Flange DN32/PN40 DIN/ANSI:** 801.597603, length 79.
- Gasket:** 950.026200.
- O-ring:** 7901-132, G1" x G1".
- Flange Connection DN32/PN40, DIN/ANSI:** 952.218700.
- O-ring:** 7901-072, G1" x G1".

The central pump unit is shown with two pressure gauges and a trigger gun. The overall length of the pump unit is 120.5. The diagram also includes a large black arrow pointing to the right, indicating the direction of assembly or flow.

18. PRESSURE REGULATORS

Dome Pressure Regulators

series 757LE

connections max. inlet pressure* outlet pressure order no.

model 757LE (brass), without pilot pressure regulator

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

model 757LE/S (brass), set

flange DIN DN 50 40 bar 0.5-10 bar 292-0017

flange DIN DN 50 40 bar 0.5-30 bar 292-0018

G 2" IG 40 bar 0.5-10 bar 292-0003

G 2" IG 40 bar 0.5-30 bar 292-0010

2" NPT IG 40 bar 0.5-10 bar 292-0022

2" NPT IG 40 bar 0.5-30 bar 292-0021

mounting parts (brass):

O-ring for flange G2" 7901-135

reducing nipple G2" - 2" NPT 952.217000

flange connection DIN DN50/PN40 (O-ring sealing) 952.215800

flange DIN DN50/PN40 801.597803

O-ring for flange DN50 7901-130

gasket for flange 950.026200

flange gas filter DIN DN50/PN40 956.923800

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

G 2" IG 40 bar 0.5-30 bar 278-066

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

flange DIN DN 50 40 bar 0.5-10 bar 292-0037

flange DIN DN 50 40 bar 0.5-30 bar 292-0019

G 2" IG 40 bar 0.5-10 bar 292-0019

G 2" IG 40 bar 0.5-30 bar 292-0019

2" NPT IG 40 bar 0.5-10 bar 292-0061

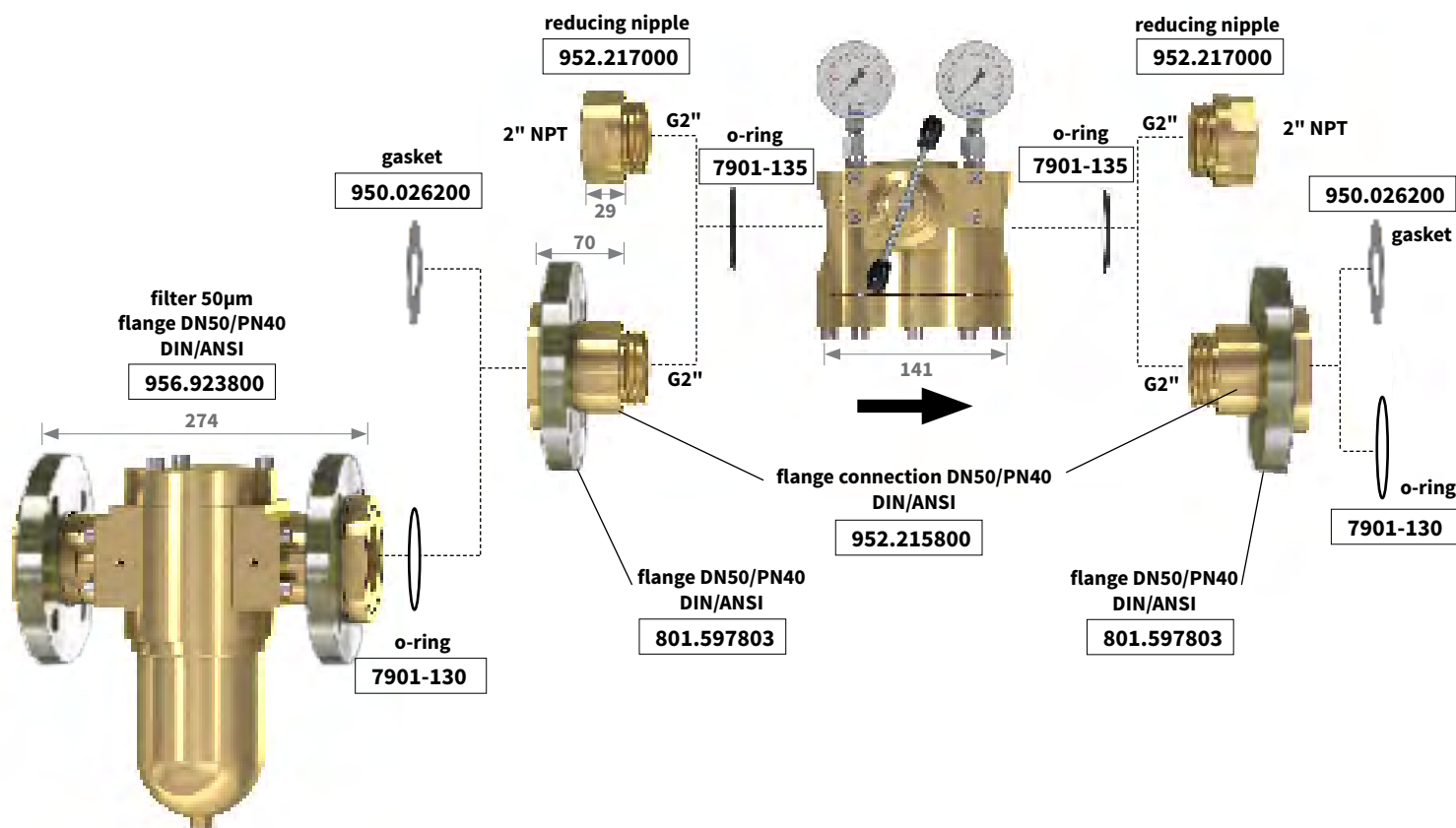
2" NPT IG 40 bar 0.5-30 bar 292-0026

stainless steel mounting parts on demand

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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit p.60)
- also available as „smart-model“ for the transmission of pressure, temperature and flow

* depending on type of gas



18. PRESSURE REGULATORS

Dome Pressure Regulators

757LE/S Smart



757 LE/S Smart

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

Smart model variations

„Standard“

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

„Standard + P3“

„Standard“ features, plus indication of pilot pressure

„Standard + Flow“

„Standard“ features, plus indication of flow rate

„Standard + P3 + Flow“

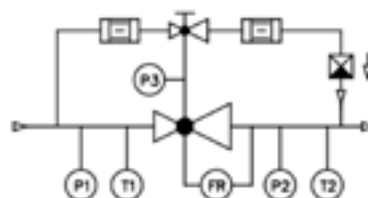
„Standard“ features, plus indication of pilot pressure and flow rate

signal cable with angled plug (5 m)

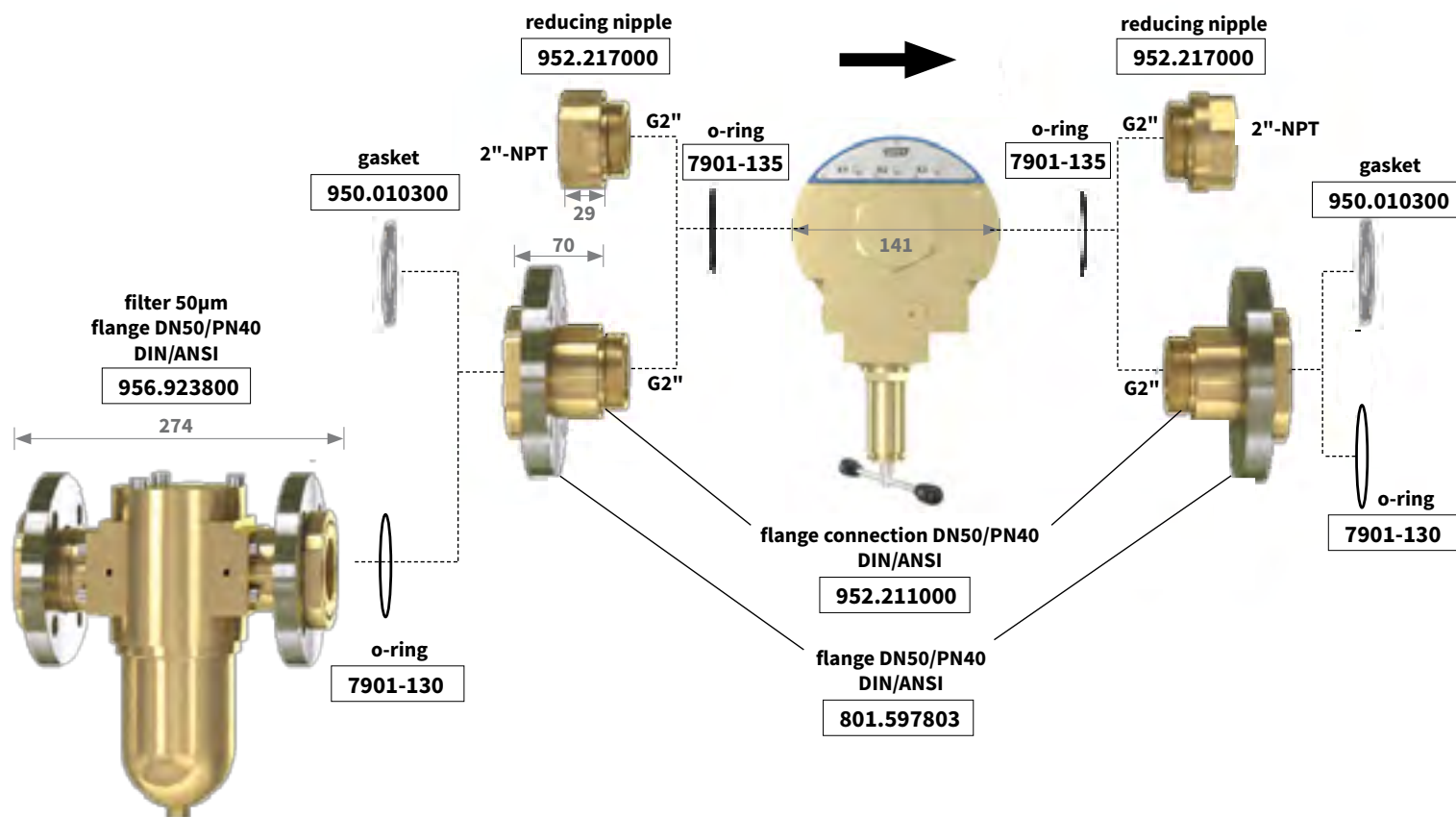
order no. 803097000

(3 cables are required to operate the device)

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



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



18. PRESSURE REGULATORS

Dome Pressure Regulators

series 767LE



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

- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 60)
- easy to install and to be integrated into the process
- 1:1 interchangeable with the previous version (please specify if desired)

BRASS

connections max. inlet pressure* outlet pressure order no.

model 767LE (brass), without pilot pressure regulator

connections	max. inlet pressure*	outlet pressure	order no.
G 3" IG	40 bar	0.5-30 bar	278-090

model 767LE/S (brass)

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

mounting parts:

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

STAINLESS STEEL

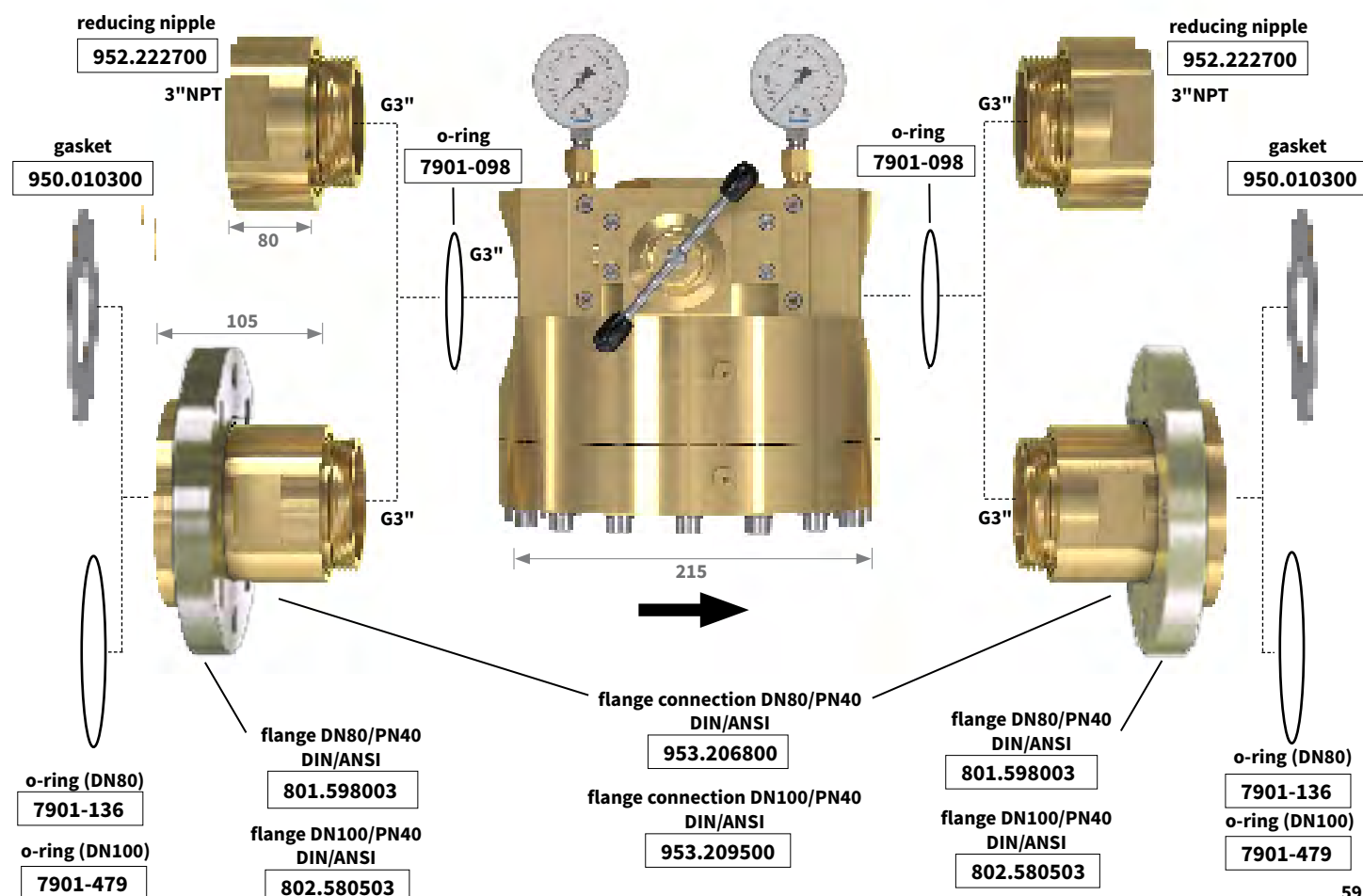
model 767LE-ES (stainless steel), without pilot pressure regulator

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

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

* depending on type of gas



18. PRESSURE REGULATORS

Dome Backpressure Regulator

BPR 2



BPR 2



BPR 2-ES

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

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

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

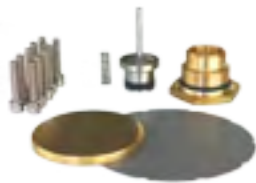
mounting parts see model 757LE (p. 54)

Accessories

for dome pressure regulators



lockable spindle cap



maintenance kit

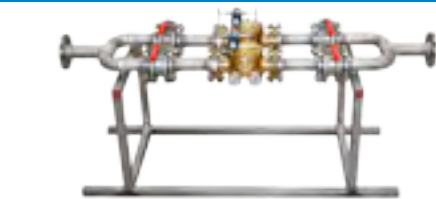
Accessories for WITT dome pressure regulators

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

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

Dome Pressure Regulators

engineering - planning and installation



parallel construction with 757LE/S



757LE/S with flange filter

Individual parallel construction

Example I:

4 ball valves stainless steel DN50/PN40

2 dome pressure regulators 757LE/S

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

installation on welded mounting frame

Example II:

dome pressure regulator 757LE/S

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

with dirt catcher

delivery completely assembled and tested

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

Series 722



test rig 722 + clamp 743

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

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

order no.

test set (test rig 722 + clamp 743)	101000013
test rig 722	101000010
clamp 743	101000012

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

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

01/21/2021

“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

622



Modell C



Modell D



Modell A

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

- broad range of uses
- change of filter possible while installed
- high flowrate
- easy mounting
- increases service life of downstream fittings and equipment

model	connections	order no.
622 A	G3/8 IG - G3/8 RH AGS	186-001
622 A	G3/8 IG - G3/8 LH AGS	186-003
622 C	G1/2 IG - G3/8 LH AGS	186-004
622 D	G1/2 IG - G3/8 LH AGS	186-005
replacement filter		955003000

77



For reliable protection against contamination by ultrafine filtering of particulates and moisture

- with condensate drain
- increases service life of downstream fittings and equipment
- change of filter possible while installed
- high flowrate

model	connections	order no.
77 (approx. 40 µm)	G 3/4 IG	077-001
replacement filter 3-part		FI-077
77 (approx. 10 µm)	G 3/4 IG	077-004
replacement filter 3-part		FI-078
77 (approx. 50 µm)	G 3/4 IG	077-010
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B
77 (approx. 5 µm)	G 3/4 IG	077-012
BAM tested for oxygen, with bronze filter		
replacement filter bronze 3-part		FI-077B
installation kit		966.0313
enabling active monitoring of filter contamination by means of differential pressure		

625



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

- with condensate drain
- increases service life of downstream fittings and equipment
- change of filter possible while installed
- high flowrate

model	connections	order no.
625	G 1.1/4 AG	042-001
625	flange DN 25	042-007
625	flange DN 32	042-006
625	flange DN 40	042-015
625	flange DN 50	042-016
625	flange DN 80	042-009
replacement filter 4-part		FI-625

57



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

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

pure filter

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

20. GAS FILTERS

807		pure filter		
	For reliable protection against micro-contamination of gases, e.g. in laboratories or burner supplies in the glass industry (approx. 5 µm) - resistant to corrosion by stainless steel filter inserts - high flowrate - increases service life of downstream fittings and equipment	model	connections	order no.
		807 (approx. 5 µm)	1/4" NPT IG	185-002
		replacement filter		956333400

HD		stainless steel filter		
	For reliable protection against micro-contamination of gases, for installation in gas pipelines - filter inserts in chromium-nickel-steel - high flowrate - increases service life of downstream fittings and equipment	model	connections	order no.
		HD (approx. 30 µm)	G 3/4 IG	187-005
		HD (approx. 80 µm)	G 3/4 IG	187-004
		replacement filter 30 µm		FI-187-30
		replacement filter 80 µm		FI-187

21. METERING VALVES

PMV		precision metering valve		
	For precise setting of gas volumes, e.g. in laboratory or for burner supply - for very small gas flow rates - resistant to dirt compared to needle valves - available with three different degrees of fineness - available as mounted block or just as valve cartridge	model		
		PMV with digital knob and locking ring		
		PMV with standard knob		
		metering valve cartridge		

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

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

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



22. BALL VALVES

Ball valves		for acetylene		
 example	PN25 up to max. 1.5 bar working pressure DIN ISO 228/1 - housing: steel - female connections	DN / connection	length	order no.
		6 / G 1/4	50 mm	198105050
		8 / G 3/8	55 mm	198107071
		12 / G 1/2	75 mm	198109091
		20 / G 3/4	80 mm	198111110
		25 / G 1	90 mm	198113130
		32 / G 1.1/4	110 mm	198115152
		40 / G 1.1/2	120 mm	198117172

Ball valves		for methane, LPG, shielding gas, air		
 example	PN25 up to max. 25 bar working pressure DIN ISO 228/1 - housing: steel - female connections	DN / connection	length	order no.
		6 / G 1/4	50 mm	198305050
		8 / G 3/8	55 mm	198307070
		12 / G 1/2	75 mm	198309090
		20 / G 3/4	80 mm	198311110
		25 / G 1	90 mm	198313130
		32 / G 1.1/4	110 mm	198315150
		40 / G 1.1/2	120 mm	198317170

Ball valves		for oxygen		
 example	PN10 up to max. 10 bar working pressure DIN ISO 228/1 - housing: steel - female connections	DN / connection	length	order no.
		6 / G 1/4	50 mm	198205050
		8 / G 3/8	55 mm	198207070
		12 / G 1/2	75 mm	198209090
		20 / G 3/4	80 mm	198211110
		25 / G 1	90 mm	198213130
		32 / G 1.1/4	110 mm	198215151
		40 / G 1.1/2	120 mm	198217170

Ball valves		for oxygen		
 example	PN40 burn out safe up to max. 40 bar working pressure DIN ISO 228/1 - housing: brass - female connections	DN / connection	length	order no.
		6 / G 1/4	50 mm	198205052
		8 / G 3/8	55 mm	198207075
		12 / G 1/2	75 mm	198209092
		20 / G 3/4	80 mm	198211112
		25 / G 1	90 mm	198213131
		32 / G 1.1/4	110 mm	198215150
		40 / G 1.1/2	120 mm	198217172

22. BALL VALVES

Ball valves



PN40

EN 560

- housing: nickel-plated brass
- male connections

DN / connection	length	order no.
for acetylene (max. 1.5 bar):		
10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
for fuel gases (max. 40 bar):		
10 / G 3/8 RH AGS - G 3/8 LH AGS	89 mm	198107082
for oxygen (max. 30 bar):		
10 / G 3/8 RH AGS - two-sided	89 mm	198207072
for shielding gas (max. 40 bar):		
10 / G 3/8 RH AGS - two-sided	89 mm	198307078

Flange ball valve



example

PN25 / PN40

EN 558-1 (DIN 3202)

- housing: steel

DN	length	order no.
for acetylene (max. 1.5 bar):		
20	150 mm	198150500
25	160 mm	198147470
32	130 mm	198152521
40	140 mm	198153531
50	150 mm	198154542
65	170 mm	198155551
80	180 mm	198156560
100	190 mm	198157570
for air and shielding gas (max. 40 bar):		
20	150 mm	198350502
25	160 mm	198351515
32	130 mm	198252525
40	140 mm	198353533
50	150 mm	198354543
for air and shielding gas (max. 25 bar):		
65	170 mm	198355553
80	180 mm	198356561
100	190 mm	198357571
for oxygen (max. 10 bar):		
20	150 mm	198250500
25	160 mm	198247470
32	130 mm	198252521
40	140 mm	198253532
50	150 mm	198254540
65	170 mm	198255551
80	180 mm	198256561
100	190 mm	198257570

Flange ball valves



example

PN40

up to max. 40 bar working pressure

- housing: stainless steel
- burn-out safe

for oxygen

DN	length	order no.
20	150 mm	198250502
25	160 mm	198251510
32	130 mm	198252523
40	140 mm	198253534
50	150 mm	198254543
65	170 mm	198255552
80	180 mm	198256562
100	190 mm	198257571

22. BALL VALVES

High pressure ball valves

for acetylene



PN320

max. 25 bar

DIN ISO 228/1

- housing: steel
- female connections

DN / connection

length

order no.

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

23. SAFETY HOSE REELS

DS Automatic

for fuel gases and oxygen



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

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

model

length of hose

order no.

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

“More than standard connections, pressures and performance.

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

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



24. ACCESSORIES

Angle adapters

connection A



connection B

PN10

EN 560

- A=MG
- angle: 115°
- B=AGS

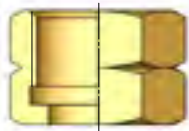
connection A

connection B

order no.

G 1/4 RH	G 1/4 RH	100005059
G 3/8 RH	G 1/4 RH	100107051
G 3/8 RH	G 3/8 RH	100107079
G 3/8 LH	G 3/8 LH	100008089
G 3/8 LH	M 14x1.5 RH	100008651

Nuts



EN 560

connection

order no.

G 1/4 LH	951001000
G 1/4 RH	951000900
G 3/8 LH	951000800
G 3/8 RH	951000700
G 1/2 LH	951000600
G 1/2 RH	951000500
G 3/4 LH	951001600
G 3/4 RH	951001500
G 1 LH	951001400
G 1 RH	951001300

for nozzle $\varnothing \geq 12.5$ mm:

G 1/2 RH	951019900
G 1/2 LH	951020000

Nipples



DN

EN 560

female connection

for nuts

for hose DN

order no.

G 1/4	4.0	952057900
G 1/4	6.3	952022100
G 3/8	4.0	952058000
G 3/8	6.3	952022200
G 3/8	8.0	952028600
G 3/8	9.0	952022300
G 1/2	6.3	952030800
G 1/2	9.0	952035200
G 1/2	11.0	952022400
G 1/2	12.5	952035300
G 3/4	11.0	952022500
G 3/4	16.0	952022600

Nipples

connection A



DN

EN 560

- A=AGS

male connection

connection A

for hose DN

order no.

G 1/4 RH	4.0	952031000
G 1/4 RH	6.3	952027400
G 3/8 RH	6.3	952031400
G 3/8 RH	9.0	952031600
G 3/8 LH	9.0	952027200
G 1/2 RH	9.0	952031800
G 1/2 LH	9.0	952031700
G 1/2 RH	11.0	952031900
G 1/2 LH	11.0	952027000

Screwed couplings



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

Male threads on both sides

EN 560

- A=AGS
- B=AGS

Soldering nipple



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

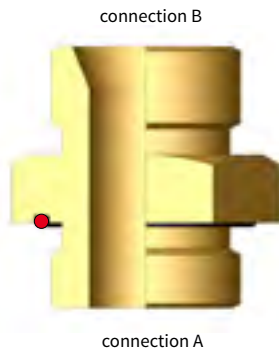
For pipes, with nut

EN 560

- A=pipe Ø
- B=MG

24. ACCESSORIES

Screwed couplings



Male thread, O-ring

EN 560

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

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	952095700K
G 1/4 RH	G 1/4 LH	952095800K
G 1/4 RH	G 3/8 RH	952122400K
G 1/4 RH	G 3/8 LH	952068600K
G 3/8 RH	G 1/4 RH	952059600K
G 3/8 RH	G 3/8 RH	953138500K
G 3/8 RH	G 3/8 LH	952133500K
G 3/8 RH	G 1/2 RH	952103600K
G 3/8 RH	G 1/2 LH	952046500K
G 3/8 RH	G 3/4 LH	952106800K
G 3/8 RH	G 3/4 RH	952130000K
G 1/2 RH	G 1/4 RH	952014000K
G 1/2 RH	G 3/8 RH	952014100K
G 1/2 RH	G 3/8 LH	952013700K
G 1/2 RH	G 1/2 RH	952013800K
G 1/2 RH	G 1/2 LH	952013900K
G 1/2 RH	G 3/4 RH	952017800K
G 1/2 RH	G 3/4 LH	952017700K
G 1/2 RH	G 1 RH	952017500K
G 1/2 RH	G 1 LH	952017600K
G 3/4 RH	G 3/8 RH	952050400K
G 3/4 RH	G 3/8 LH	952064900K
G 3/4 RH	G 1/2 RH	952067600K
G 3/4 RH	G 1/2 LH	952026900K
G 3/4 RH	G 3/4 RH	952015000K
G 3/4 RH	G 3/4 LH	952014300K
G 3/4 RH	G 1 RH	952015100K
G 3/4 RH	G 1 LH	952020300K
G 1 RH	G 3/8 RH	952049700K
G 1 RH	G 3/8 LH	952049800K
G 1 RH	G 1/2 RH	952049600K
G 1 RH	G 1/2 LH	952016200K
G 1 RH	G 3/4 RH	952016100K
G 1 RH	G 3/4 LH	952016000K
G 1 RH	G 1 RH	952015900K
G 1 RH	G 1 LH	952036000K
G 1 RH	G 1 1/4 RH	952048200K
G 1 RH	G 1 1/4 LH	952048300K
G 1 1/4 RH	G 1 RH	952073500K
G 1 1/4 RH	G 1 LH	952093100K
G 1.1/4 RH	G 1.1/4 RH	952073400K
G 1.1/4 RH	G 1.1/4 LH	952070100K
G 1.1/4 RH	G 1.1/2 RH	952101100K
G 1.1/2 RH	G 1/2 RH	952102800K
G 1.1/2 RH	G 3/4 LH	952046300K
G 1.1/2 RH	G 1 RH	952038700K
G 1.1/2 RH	G 1 LH	952036100K
G 1.1/2 RH	G 1.1/4 RH	952028200K
G 1.1/2 RH	G 1.1/4 LH	952023000K
G 1.1/2 RH	G 1.1/2 RH	952060100K

Welding nipples

connection A



connection B

For pipes, with nut

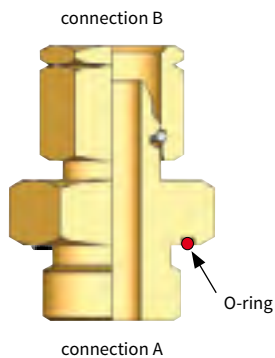
EN 560

- A=pipe Ø
- B=MG

connection A	connection B	order no.
21.3 mm	G 3/8 LH	100008810
21.3 mm	G 3/8 RH	100007611
21.3 mm	G 1/2 LH	100010610
21.3 mm	G 1/2 RH	100009610
26.9 mm	G 1/2 LH	100010611
26.9 mm	G 3/4 LH	100012610
26.9 mm	G 3/4 RH	100011611
26.9 mm	G 1 LH	100014610
26.9 mm	G 1 RH	100013610
33.7 mm	G 1 LH	100014612
33.7 mm	G 1 RH	100013614
42.0 mm	G 1.1/4 LH	100016610
42.0 mm	G 1.1/4 RH	100015610

24. ACCESSORIES

Male / female couplings



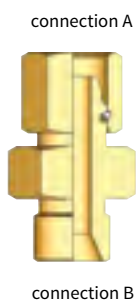
Male thread, O-ring and nut

EN 560

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

connection A	connection B	order no.
G 1/4 RH	G 1/4 RH	100005055K
G 1/4 RH	G 1/4 LH	100005060K
G 1/4 RH	G 3/8 RH	100107054K
G 1/4 RH	G 3/8 LH	100008051K
G 3/8 RH	G 3/8 LH	100008073K
G 3/8 RH	G 1/2 LH	100010070K
G 3/8 RH	G 1/2 RH	100009073K
G 3/8 RH	G 3/8 RH	100207071K
G 1/2 RH	G 3/8 RH	100007092K
G 1/2 RH	G 3/8 LH	100008092K
G 1/2 RH	G 1/2 RH	100009094K
G 1/2 RH	G 1/2 LH	100010091K
G 1/2 RH	G 3/4 RH	100111090K
G 1/2 RH	G 3/4 LH	100012090K
G 1/2 RH	G 1 RH	100013096K
G 3/4 RH	G 1/2 RH	100009115K
G 3/4 RH	G 1/2 LH	100010110K
G 3/4 RH	G 3/4 RH	100011116K
G 3/4 RH	G 3/4 LH	100012110K
G 3/4 RH	G 1 RH	100013114K
G 3/4 RH	G 1 LH	100014110K
G 1 RH	G 1/2 LH	100010130K
G 1 RH	G 3/4 RH	100011130K
G 1 RH	G 3/4 LH	100012130K
G 1 RH	G 1 RH	100013135K
G 1 RH	G 1 LH	100014131K
G 1 RH	G 1.1/4 RH	100015130K
G 1 RH	G 1.1/4 LH	100016130K
G 1.1/4 RH	G 1.1/4 RH	100015155K

Male / female couplings



Male thread, nut

EN 560

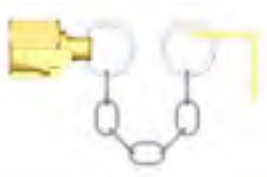
- A=MG
- B=AGS

connection A	connection B	order no.
G 1/4 RH	G 3/8 RH	100005072
G 1/4 RH	G 3/8 LH	100005081
G 3/8 RH	G 1/4 RH	100107053
G 3/8 RH	G 3/8 LH	100007086
G 3/8 LH	G 3/8 LH	100108081
G 3/8 RH	G 3/8 RH	100107072
G 3/8 LH	G 3/8 RH	100008077
G 3/8 RH	G 1/2 RH	100007095
G 3/8 RH	G 1/2 LH	100007101
G 3/8 LH	G 1/2 RH	100008093
G 3/8 LH	G 1/2 LH	100008106
G 1/2 RH	G 1/2 LH	100009103
G 1/2 RH	G 1/4 RH	100009055
G 1/2 RH	G 3/8 LH	100009080
G 3/4 RH	G 1/2 RH	100011092
G 1 RH	G 3/4 RH	100013116
G 1 RH	G 3/4 LH	100013121
G 1 RH	G 1 LH	100013140

24. ACCESSORIES

Cap with chain

connection A



EN 560

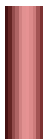
- A=MG

connection A

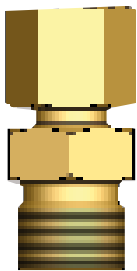
order no.

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

WITTFIX-pipe couplings



pipe



WITTFIX

nut

connection A

pipe Ø mm	connection A	order no.
6 x 1.0	G 1/8 RH	956608900
6 x 1.0	1/4" NPT	956705200
6 x 1.0	G 1/4 RH	956580300
6 x 1.0	G 3/8 RH	956544100
8 x 1.0	G 1/8 RH	956567300
8 x 1.0	1/4" NPT	956739900
8 x 1.0	G 1/4 RH	956543900
8 x 1.0	G 3/8 RH	956739800
8 x 1.0	G 1/2 RH	956740000
10 x 1.0	1/4" NPT	956683200
10 x 1.0	G 1/4 RH	956940200
10 x 1.0	3/8" NPT	956673500
10 x 1.0	G 3/8 RH	956532000
10 x 1.0	G 1/2 RH	956794700
12 x 1.0	1/4" NPT	956680700
12 x 1.0	G 1/4 RH	956551900
12 x 1.0	G 3/8 RH	956743700
12 x 1.0	1/2" NPT	956553200
12 x 1.0	G 1/2 RH	956668700
15 x 1.0	3/8" NPT	956678400
15 x 1.0	1/2" NPT	956678200
15 x 1.0	G 1/2 RH	956657700
22 x 1.0	G 1 RH	956657800

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

EN 560

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

01/21/2021

				
	pipe Ø mm	connection A	connection B	order no.
	6 x 1.0	G 1/4 RH		956725400
	6 x 1.0	G 3/8 LH		956659700
	6 x 1.0	G 3/8 RH		956725500
	6 x 1.0		G 1/4 RH	956745700
	6 x 1.0		G 3/8 LH	956659600
	6 x 1.0		G 3/8 RH	956741800
	8 x 1.0	G 1/4 RH		956753600
	8 x 1.0	G 3/8 LH		956723700
	8 x 1.0	G 3/8 RH		956746300
	8 x 1.0	G 1/2 LH		956725700
	8 x 1.0	G 1/2 RH		956725600
	8 x 1.0		G 1/4 RH	956746200
	8 x 1.0		G 3/8 LH	956740100
	8 x 1.0		G 3/8 RH	956623000
	8 x 1.0		G 1/2 LH	956753900
	8 x 1.0		G 1/2 RH	956754000
	10 x 1.0	G 1/4 RH		956753700
	10 x 1.0	G 3/8 LH		956725800
	10 x 1.0	G 3/8 RH		956725900
	10 x 1.0	G 1/2 LH		956726100
	10 x 1.0	G 1/2 RH		956726000
	10 x 1.0		G 1/4 RH	956648100
	10 x 1.0		G 3/8 LH	956753400
	10 x 1.0		G 3/8 RH	956718100
	10 x 1.0		G 1/2 LH	956754900
	10 x 1.0		G 1/2 RH	956755000
	12 x 1.0	G 1/4 RH		956755100
	12 x 1.0	G 3/8 LH		956677400
	12 x 1.0	G 3/8 RH		956717900
	12 x 1.0	G 1/2 LH		956726400
	12 x 1.0	G 1/2 RH		956726300
	12 x 1.0		G 1/4 RH	956754800
	12 x 1.0		G 3/8 LH	956668600
	12 x 1.0		G 3/8 RH	956717100
	12 x 1.0		G 1/2 LH	956697500
	12 x 1.0		G 1/2 RH	956697600
	15 x 1.0	G 3/8 LH		956678900
	15 x 1.0	G 3/8 RH		956678500
	15 x 1.0	G 1/2 LH		956679100
	15 x 1.0	G 1/2 RH		956678700
	15 x 1.0		G 3/8 LH	956679000
	15 x 1.0		G 3/8 RH	956678600
	15 x 1.0		G 1/2 LH	956679200
	15 x 1.0		G 1/2 RH	956678800

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

max. 25 bar working pressure

thread-connection: EN 560

- A=AGS
- B=MG

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

Location: WITT headquarter in Witten

Minimum attendance: 4 persons

Maximum attendance: 8 persons

Documentation, Certification and Instruction manuals

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

General Terms and Conditions

This catalog supersedes all previous catalogs.

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

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

Conversion of units of measurement:

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

Flow 10 m³/h = 353 scfh

Temperature °C * 1.8 + 32 = °F

Volume 10 litres = 21 pints / 2.2 gallons

Length 10 mm = 0.3937 inches
1 m = 39.37 inches

Please note:



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

Brochures

Central gas supply



Stainless steel devices



Dome pressure regulators



Safety relief valves

Overview MAP-portfolio



Gas analysis



Leak detection



MAP for fruit and vegetables



Overview gas mixers

Synthetic-air gas mixer

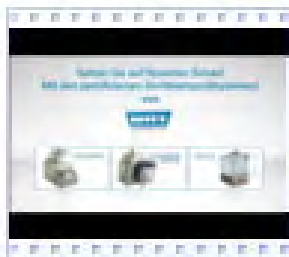
You can find our brochures and a lot of other information material in the download area of our website, e.g.:

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

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Product videos

Dome Pressure Regulators



Flashback arrestors



Gas mixer KM-MEM+



OXYBABY 6.0



CO₂ Leak detection PRO 2



Inline leak detection

Download at ► www.wittgas.com or Youtube

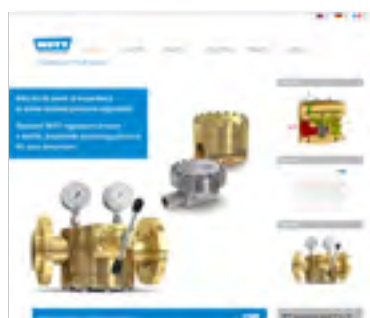
Product specific websites by WITT

Everything about
WITT leak detection



► www.leak-master.net

Everything about
WITT dome pressure regulators



► www.domepressureregulators.com

Everything about
WITT OXYBABY®



► www.oxybaby.com

WITT-App

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- dialogue tool, giving direct access to WITT specialists
- flow calculation
- gas advisor
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