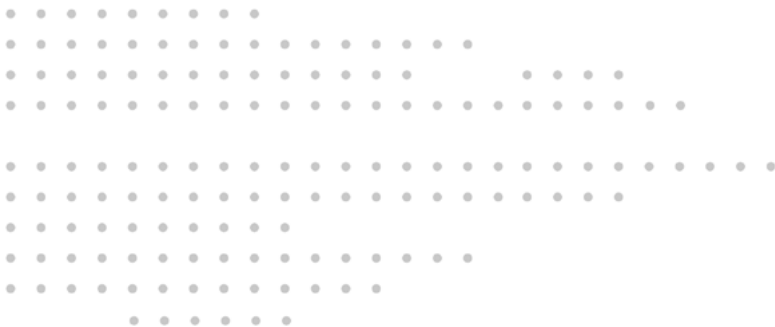


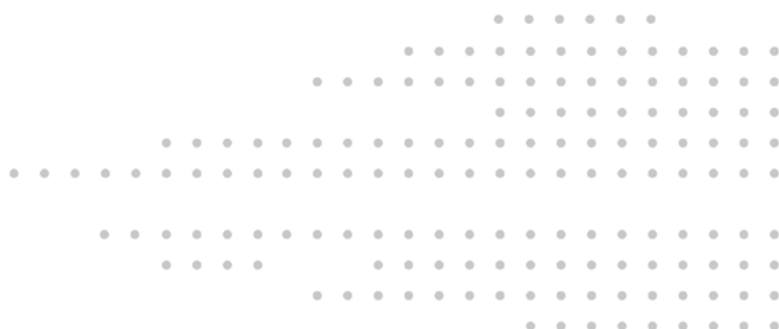


CATALOG **USA**

2023

valid from 01.01.2023

inter@ctive

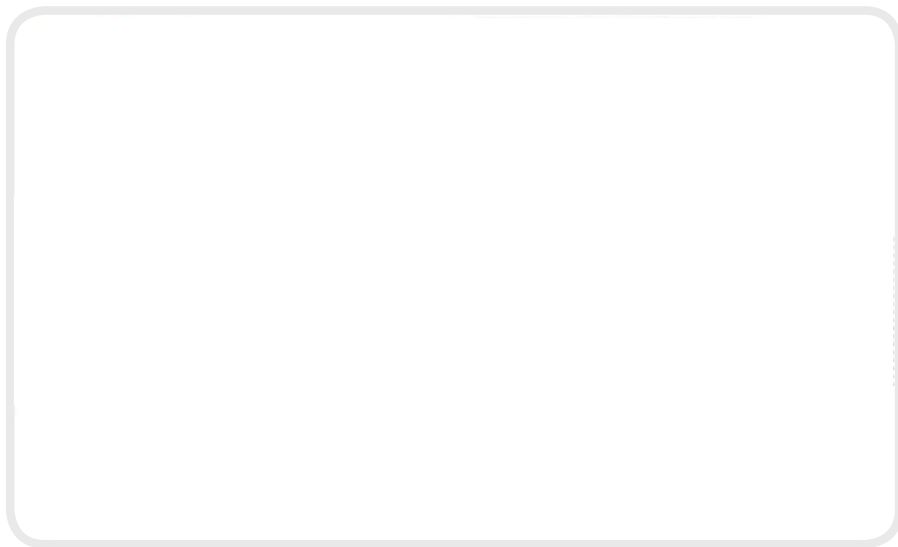


“**Come back to our website...**

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

► 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!

Tel. (+1) 770-664-4447
Fax (+1) 770-664-4448
witt-usa@wittgas.com

WITT Gas Controls LP
3080 Northfield Place
Suite 111
Roswell, GA 30076
USA

For an overview of our support
material see p. 67-69

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1. GAS MIXERS for non-flammable gases

KM20 ECO		2 gases small flows
 KM20 ECO	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

M M		2 gases small to medium flows
 MM-2	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

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

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

B M		2 gases small flows
 BM-2M	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)

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 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-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

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
 KM-Flow with analyzer	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
	 for food-grade gases, conforms to 1935/2004	

MG-2ME		2 gases low to very high flows
 MG50/100-ME MG200-ME Picture shows optional equipment	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")	
	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.	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

“White paper: all about gas mixing technology

This white paper summarizes the benefits of gas mixers, gives an overview of the different gas mixing technologies and describes some of the most common applications for gas mixers.

Download at ► www.wittgas.com

1. GAS MIXERS for non-flammable gases

MG-3ME

3 gases | low to very high flows



MG50-3ME



alarm module AM3

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

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

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

KM-MEM

2 or 3 gases | low to high flows



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:

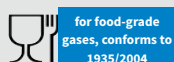
automatic shut-off e.g. of O₂ when going below the limit

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

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

Features - see model ME (above) plus:

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



1. GAS MIXERS for non-flammable gases

KM - MEM +

2 or 3 gases | low to high flows



KM100-2MEM+

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

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

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



KM-2MEM+ for 2 gases

KM100-2MEM+ 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 and further information see
▶ www.wittgas.com

MG - MEM +

2 or 3 gases | higher flows



MG50-2MEM+

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

Features - see model KM-MEM+ (above)



MG-2MEM+ for 2 gases

MG50-2MEM+ 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

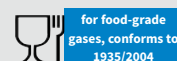
N ₂ / CO ₂ / CO mixers		3 gases special application
 KM100-3ME PvDu	Gas mixer for special application: low CO trimix for food processing • KM100, MG100, MG200 gas mixing technology (see previous page) • especially for mixing CO for food processing • mounted on receiver • including inlet pressure monitoring	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. 17) • 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 4 „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

2 or 3 gases | low to very high flows



MG100-ME Ex

MG200-ME Ex

Powerful gas mixers especially for highly fluctuating mixing gas output quantities

Features - see KM (above) plus:

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

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

“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. 67-69

4. GAS ANALYZERS

OXYBABY® M+



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



portable O₂/CO₂ gas analyzer - basic model

OXYBABY® M+

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

options:

connector tube with Luer-Lok-connection

OXYBABY® 6.0



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



portable O₂/CO₂ gas analyzer - premium model

OXYBABY® 6.0

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

options:

connector tube with Luer-Lok-connection

bluetooth

further accessories: see p. 19 and 21

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

OXYBABY® M+P



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

basic gas analyzer for pressurized pipelines

OXYBABY® M+ P

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

OXYBABY® 6.0 P



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.

premium gas analyzer for pressurized pipelines

OXYBABY® 6.0 P

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

4. GAS ANALYZERS

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

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

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 demand

Canpiercer-module (for refitting):
bottle adapter

Aquacheck

equipment for the gas analysis of mini packages

Aquacheck Plus

Aquacheck incl. water container

OXYPAD



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

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

tabletop and mobile O₂/CO₂ gas analyzer

OXYPAD

OXYPAD for O₂
OXYPAD for CO₂
OXYPAD for O₂ and CO₂



4. 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)
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

OBCC software for the documentation of analysis results: see page 18

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
O₂ measurement in ppm-range (surcharge calibration)
heating and thermostat, only electro-chemical sensors
different Ethernet cables (only for MAPY in vertical housing)

MAPY VAC



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

4. GAS ANALYZERS

Inline gas analysis



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

integrated with gas mixer

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



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

for WITT gas analyzers

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



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

documentation software for OXYBABY® 6.0 and PA

Software

- free 30-day trial version
- OBCC full version incl. updates
- License for 1 year
- License for 2 years



MFA 10.0



Portable multi gas analyzer especially for maintenance and service

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

multi gas analyzer

MFA 10.0

MFA 10.0

4. 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

5. LEAK DETECTION EQUIPMENT

LEAK-MASTER® EASY



LEAK-MASTER® EASY 3



control unit PLUS (optional)

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

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

bubble-test

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

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

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

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

LEAK-MASTER® PRO 2



LEAK-MASTER® PRO 2
model 2.1

LEAK-MASTER® PRO 2
model 2.2

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

- non-destructive sample leak testing at a strong price-performance ratio
- without using expensive helium or hydrogen
- detects even the smallest of leaks from 10 µm (depending on the product and the test conditions) with highly sensitive and ultra-fast CO₂ sensor
- housing made of acrylic glass
- visual indication of test results (LED lighting)
- 2 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
LM 2.4	150 x 380 x 380

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

5. 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

chamber size in approx. mm (LxWxH)

LM 12.2

140 x 680 x 500

LM 12.1

230 x 680 x 500

options:

WLAN (WIFI)

order no.

966042600

barcode reader IP 65

957099400

analysis software GASCONTROL CENTER

connection for rinsing air

966042500

LEAK-MASTER® MAPMAX



inline

LEAK-MASTER® MAPMAX

size in approx. mm (LxWxH)

MAPMAX Type 400

1840 x 1130 x 2200

max. product dimensions 600 x 400 x 380 mm

up to 15 cycles per minute

MAPMAX Type 700

1840 x 1130 x 2200

max. product dimensions 600 x 680 x 220 mm

up to 15 cycles per minute

options:

WIFI

barcode reader IP 65

analysis software GASCONTROL CENTER

MINK vacuum pump

central vacuum layout (control valve central vacuum)

surface 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: **LxWxH** (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)

6. 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. 45

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. 34f

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

6. 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. 45

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. 45

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. 46

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

6. 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. 46		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

6. 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

7. 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. 31	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

7. 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 11 "Quick couplings"

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

SK100-9



Coupling body for E460SK
(see p. 30) without non-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

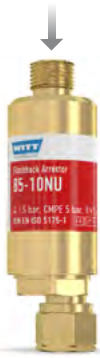
DIN EN ISO 5175-1

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

7. 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 TV

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.

Download at:

► www.wittgas.com

For an overview of our support material see p. 67-69

8. 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

RF53U



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

85-10U



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

WITT
www.wittgas.com



FA TV
(order no. 145-136)

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



FA TV
(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

9. FLASHBACK ARRESTORS for high flows

623N/NU



Fuel gases 406 m³/h
Air 335 m³/h

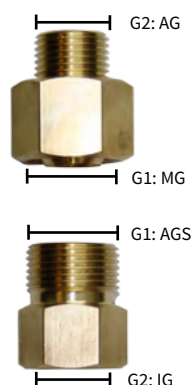
E730-1

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

09/14/2023



“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.

10. 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

10. 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.



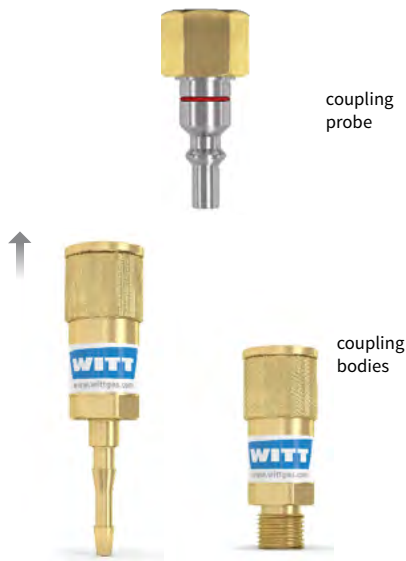
The WITT Company is certified for quality management system DIN EN ISO 9001:2008. Information on our product certifications and testing can be found on the data sheet. You can also find a list of all WITT certifications at:

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

For an overview of our support material see p. 67-69

11. QUICK COUPLINGS

SK 100-1



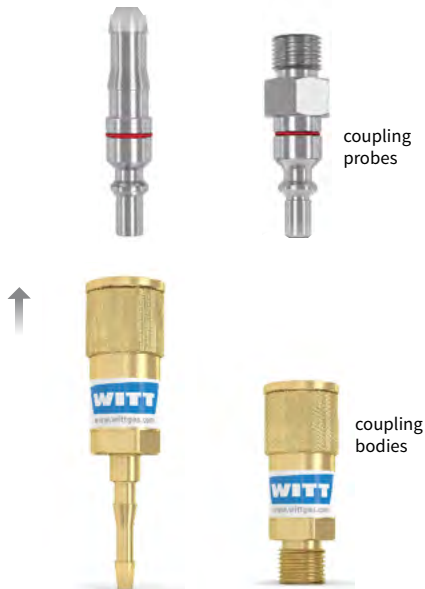
Coupling bodies with non-return valve and automatic gas cut-off valve

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

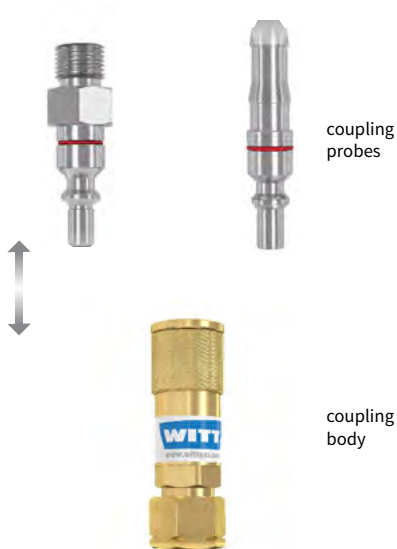
EN 561 / ISO 7289

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		

11. QUICK COUPLINGS

SK100-3



coupling probes

coupling body

Coupling bodies with automatic gas cut-off valve

EN 561 / ISO 7289

for outlet points

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

SK100-9



Coupling body without check valve.

Accessory for E460SK.

connection	inlet ⇌ outlet	order no.
for acetylene:		
6,3 mm	nozzle ⇌ coupling body	150-021
8,0 mm	nozzle ⇌ coupling body	150-039
for oxygen:		
6,3 mm	nozzle ⇌ coupling body	150-024
8,0 mm	nozzle ⇌ coupling body	150-040

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your welding application.

Download at:

► www.wittgas.com

11. QUICK COUPLINGS

Keymark coupling



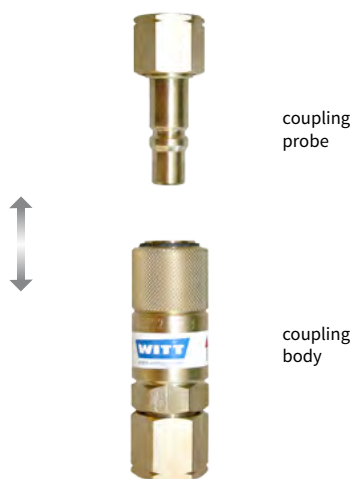
Keymark couplings protect outlet points from unauthorized access: only the owner of the keymark is able to take gas from the outlet point

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

12. 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. 47

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

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 demand

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. 47

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

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 demand

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. 64/65.

“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

ULTRA 30



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

Up to 20 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 48

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	033-001
1.1/2" NPT	IG → IG	033-007
design (standard):		
filter: yes	seal O-ring: NBR	seal valve: CR
housing: Brass		

Ultra 32



Based on ULTRA 30 - your customized model: various combinations of housing and sealing materials, with or without filter

Up to 20 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	
design (modular system):		
filter	seal O-ring	seal valve
yes	EPDM	EPDM
yes	NBR	CR
		housing
		Brass
		Stainless Steel

033-009
033-010

Other models and connection types on demand

12. NON-RETURN VALVES ULTRA

ULTRA 40



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

Up to 20 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 48

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

design (standard):

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

Ultra 42



Based on ULTRA 40 - your customized model: various combinations of housing and sealing materials, with or without filter

Up to 20 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

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

design (modular system):

filter	seal O-ring	seal valve	housing	order no.
yes	FPM	FKM	Stainless Steel	035-007

Other models and connection types on demand

“Does the product fit into your plant?”

You can now find out very easily.

Request a STEP file via the website.

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

www.wittgas.com/downloads/step-files

13. 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. 47	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. 49	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. 31	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

13. NON-RETURN VALVES Standard

NV 200



Up to 16 bar

Air max. 1,900 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 47

connection	inlet → outlet	order no.
1/2" NPT	IG → IG	200037069
3/4" NPT	IG → IG	200037075
1" NPT	IG → IG	200037068

NV 300



Up to 16 bar

Air max. 3,260 m³/h

NV

DIN 8521-2

also available in stainless steel, see p. 47

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

NV 400



Up to 16 bar

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 48

connection	inlet → outlet	order no.
G 1.1/2 RH	IG → IG	400038024
G 2 RH	IG → IG	400038008
1.1/2" NPT	IG → IG	400038062
2" NPT	IG → IG	400038045
DN 40 / PN 40	loose flange (with O-ring)	400038A005
DN 50 / PN 40	loose flange (with O-ring)	400038A006
DN 65 / PN 40	loose flange (with O-ring)	400038A007
DN 80 / PN 40	loose flange (with O-ring)	400038A008

NV 400



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

Air max. 8,100 m³/h

NV

DIN EN ISO 5175-2

also available in stainless steel, see p. 48

intermediate flange version

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

13. NON-RETURN VALVES Standard

NV 800



Up to 10 bar

Air max. 14,000 m³/h

NV

DIN 8521-2

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

NV 2000



Up to 10 bar

Air max. 26,800 m³/h

NV

DIN 8521-2

to be mounted vertically in
bottom-up flow direction

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

09/14/2023

“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

For an overview of our support material see p. 67-69

14. 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. 51

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. 51

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. 51

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

14. 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. 52

pressure settings

10 - 80 mbar

order no.

120-____
(according to
pressure-setting)

individual TÜV approval for the set opening pressure

connections:

1/8" NPT

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. 52

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

flange DN 25 according to DIN 28403

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. 52

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

flange DN 40 according to DIN 28403

09/14/2023

“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

15. STAINLESS STEEL DEVICES: Flashback Arrestors

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 TV

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
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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 TV

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
3/8" NPT	IG → IG	143-198

F85-10N/H-ES

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

1/4" NPT	IG → IG	143-100
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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.
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for fuel gases (e.g. acetylene up to 2 bar) or oxygen:

1/2" NPT	IG → IG	149-009
3/4" NPT	IG → IG	149-031
1" NPT	IG → IG	149-029

15. STAINLESS STEEL DEVICES: Flashback Arrestors

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

16. STAINLESS STEEL DEVICES: Non-return Valves

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 demand					

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 demand					

16. STAINLESS STEEL DEVICES: Non-return Valves

ULTRA 30



Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar

Up to 20 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

non-return valves "ULTRA"

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
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Ultra 32



Based on ULTRA 30 - your customized model: various combinations of housing and sealing materials, with or without filter

Up to 20 bar / G 1.1/2"

NV

DIN EN ISO 5175-2

non-return valves "ULTRA"

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

design (modular system):

filter	seal O-ring	seal valve	housing	order no.
yes	NBR	CR	Stainless Steel	033-010

Other models and connection types on demand

ULTRA 40



Ultra Performance protection against gas return: compact, quiet, ideal for low pressure applications. Opening pressure approx. 10 mbar

Up to 20 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

non-return valves "ULTRA"

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
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Ultra 42



Based on ULTRA 40 - your customized model: various combinations of housing and sealing materials, with or without filter

Up to 20 bar / G 2.1/2"

NV

DIN EN ISO 5175-2

non-return valves "ULTRA"

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

design (modular system):

filter	seal O-ring	seal valve	housing	order no.
yes	FPM	FKM	Stainless Steel	035-007

Other models and connection types on demand

16. STAINLESS STEEL DEVICES: Non-return Valves

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

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

NV 600H-ES		non-return valve		
	Up to 40 bar	connection	inlet → outlet	order no.
	DIN 8521-2	G 1/2 RH	IG → IG	037-064
	NV	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	connection	inlet → outlet	order no.
	Air max. 3.260 m³/h	G 1 RH	IG → IG	038-064
	NV			
	DIN 8521-2			

16. STAINLESS STEEL DEVICES: Non-return Valves

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

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

09/14/2023

“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.

For an overview of our support material see p. 67-69

17. STAINLESS STEEL DEVICES: Safety Relief Valves

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	
		Adapter to connect venting pipes to SV 805-ES	
		connections M 24x1 AG → 1/2" NPT VCR AG, st. steel 1.4404	801693000K

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: Safety Relief Valves

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: 1/8" NPT	
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 flange DN 25 according to DIN 28403	
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 flange DN 40 according to DIN 28403	

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

replacement filter Stainless steel (1.4301) 100 µm 956.504300

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

replacement filter Bronze 100 µm 953.000300



737LE

737LE-ES



737LE/S

737LE/S-ES



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

18. PRESSURE REGULATORS

Dome Pressure Regulators

series 747LE



747LE



747LE-ES



747LE/S



747LE/S-ES

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

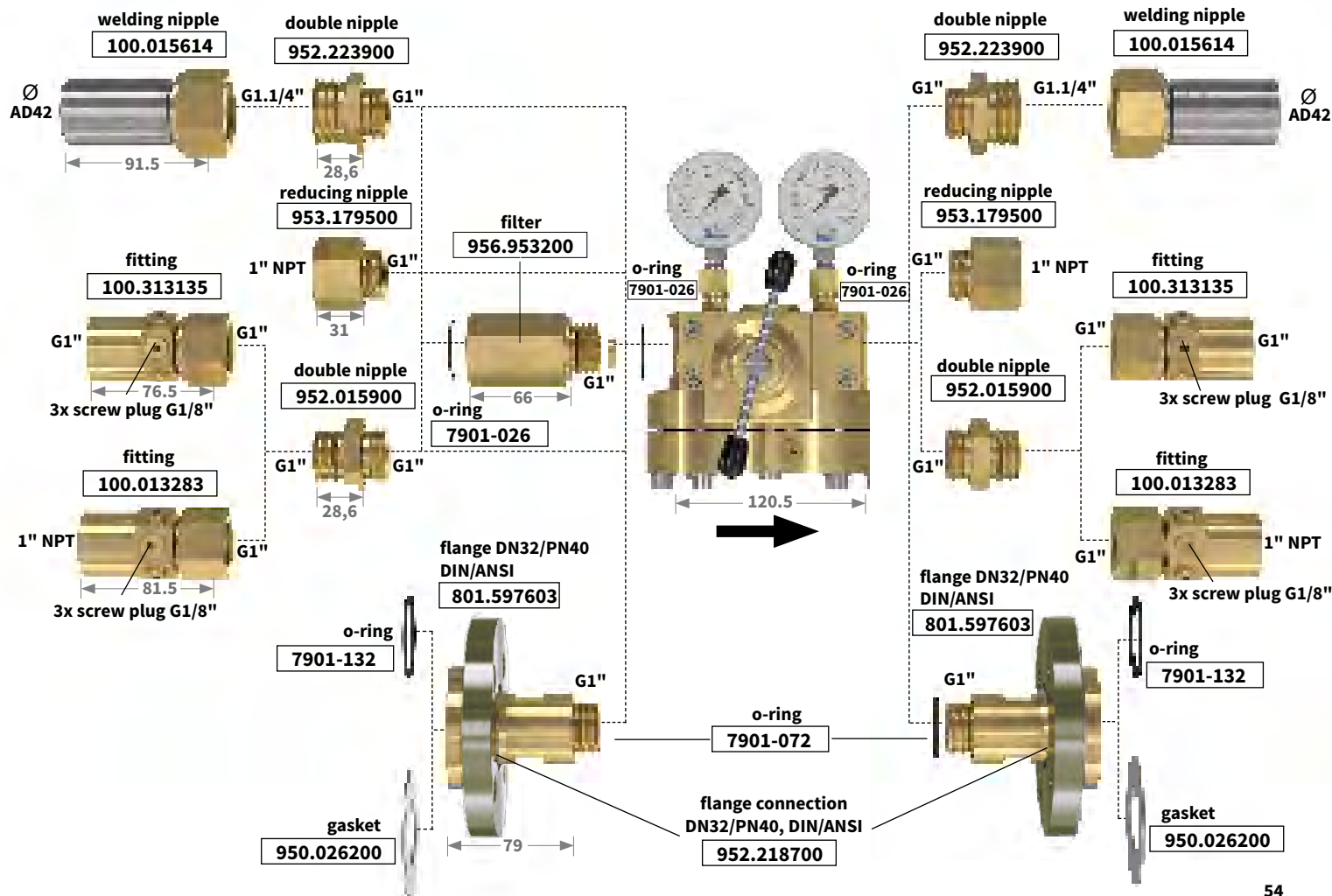
- pilot pressure regulator, inlet and outlet pressure gauges and connections included
- different mounting parts available (maintenance kit see p. 60)
- easy to install and to be integrated into the process

BRASS

STAINLESS STEEL

connections	max. inlet pressure*	outlet pressure	order no.
model 747LE (brass), without pilot pressure regulator			
G 1" IG	40 bar	0.5-30 bar	278-088
model 747LE/S (brass), set			
G 1" IG	40 bar	0.5-10 bar	292-0002
G 1" IG	40 bar	0.5-30 bar	292-0009
1" NPT IG	40 bar	0.5-10 bar	292-0102
1" NPT IG	40 bar	0.5-30 bar	292-0031
mounting parts (brass):			
O-ring			7901-026
gas filter			956.953200
flange connection DIN DN32/PN40 (O-ring sealing)			952.218700
flange DIN DN32/PN40			801.597603
O-ring for flange DN32			7901-132
O-ring for flange G1"			7901-072
gasket for flange			950.026200
double nipple G1" - G 1.1/4"			952.223900
reducing nipple G1" - 1" NPT			953.179500
double nipple G1" - G1"			952.015900
welding nipple AD42 G 1.1/4"			100.015614
fitting G1" - G1"			100.313135
fitting G1" - 1" NPT			100.013283
model 747LE-ES (stainless steel), without pilot pressure regulator			
G 1" IG	40 bar	0.5-30 bar	278-099
model 747LE/S-ES (stainless steel), set			
G 1" IG	40 bar	0.5-10 bar	292-0027
G 1" IG	40 bar	0.5-30 bar	292-0028
1" NPT IG	40 bar	0.5-10 bar	292-0103
1" NPT IG	40 bar	0.5-30 bar	292-0109
stainless steel mounting parts on demand			

*depending on type of gas



18. PRESSURE REGULATORS

Dome Pressure Regulators

747LE/S Smart



747 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 747LE/S dome pressure regulator are available as Smart models. The following surcharges are added to the price of the desired model:

Smart model variations

„Standard“

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

„Standard + P3“

„Standard“ features, plus indication of pilot pressure

„Standard + Flow“

„Standard“ features, plus indication of flow rate

„Standard + P3 + Flow“

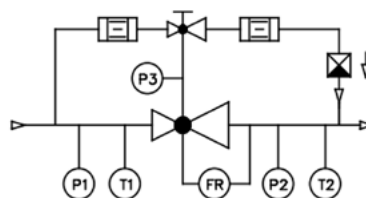
„Standard“ features, plus indication of pilot pressure and flow rate

signal cable with angled plug (5 m)

order no. 803097000

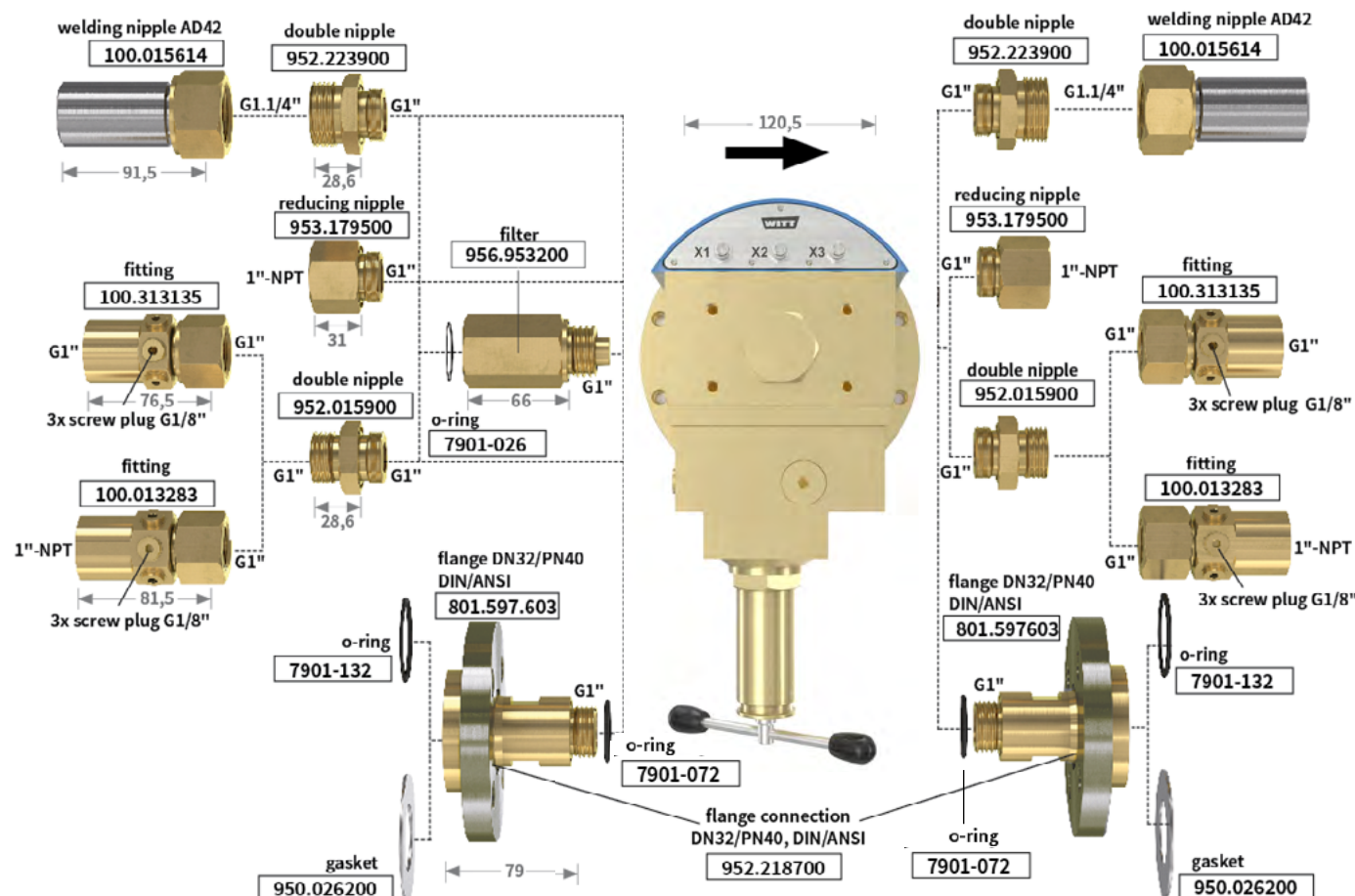
(3 cables are required to operate the device)

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

09/14/2023



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 278-097

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

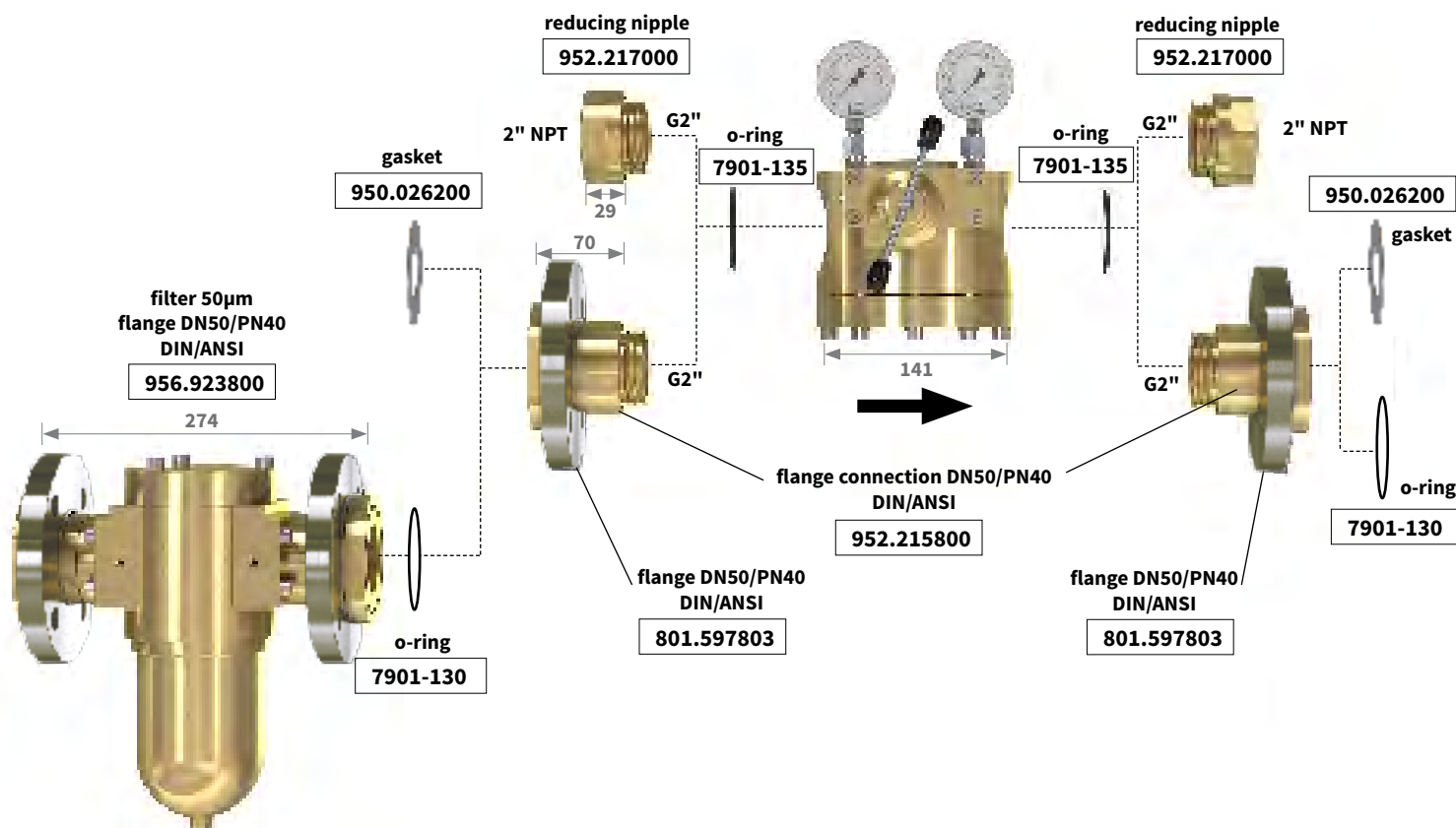
2" NPT IG 40 bar 0.5-30 bar 292-0026

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.56)
- also available as „smart-model“ for the transmission of pressure, temperature and flow

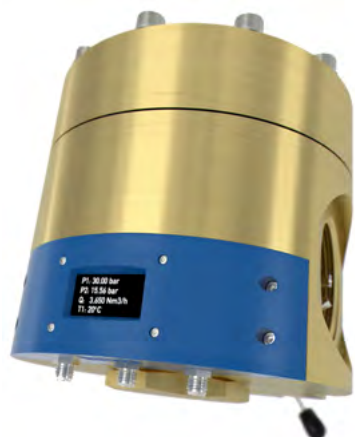
* depending on type of gas



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

Smart model variations

„Standard“

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

„Standard + P3“

„Standard“ features, plus indication of pilot pressure

„Standard + Flow“

„Standard“ features, plus indication of flow rate

„Standard + P3 + Flow“

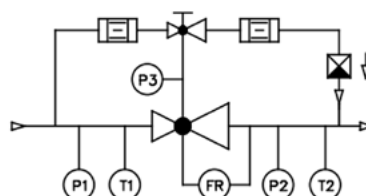
„Standard“ features, plus indication of pilot pressure and flow rate

signal cable with angled plug (5 m)

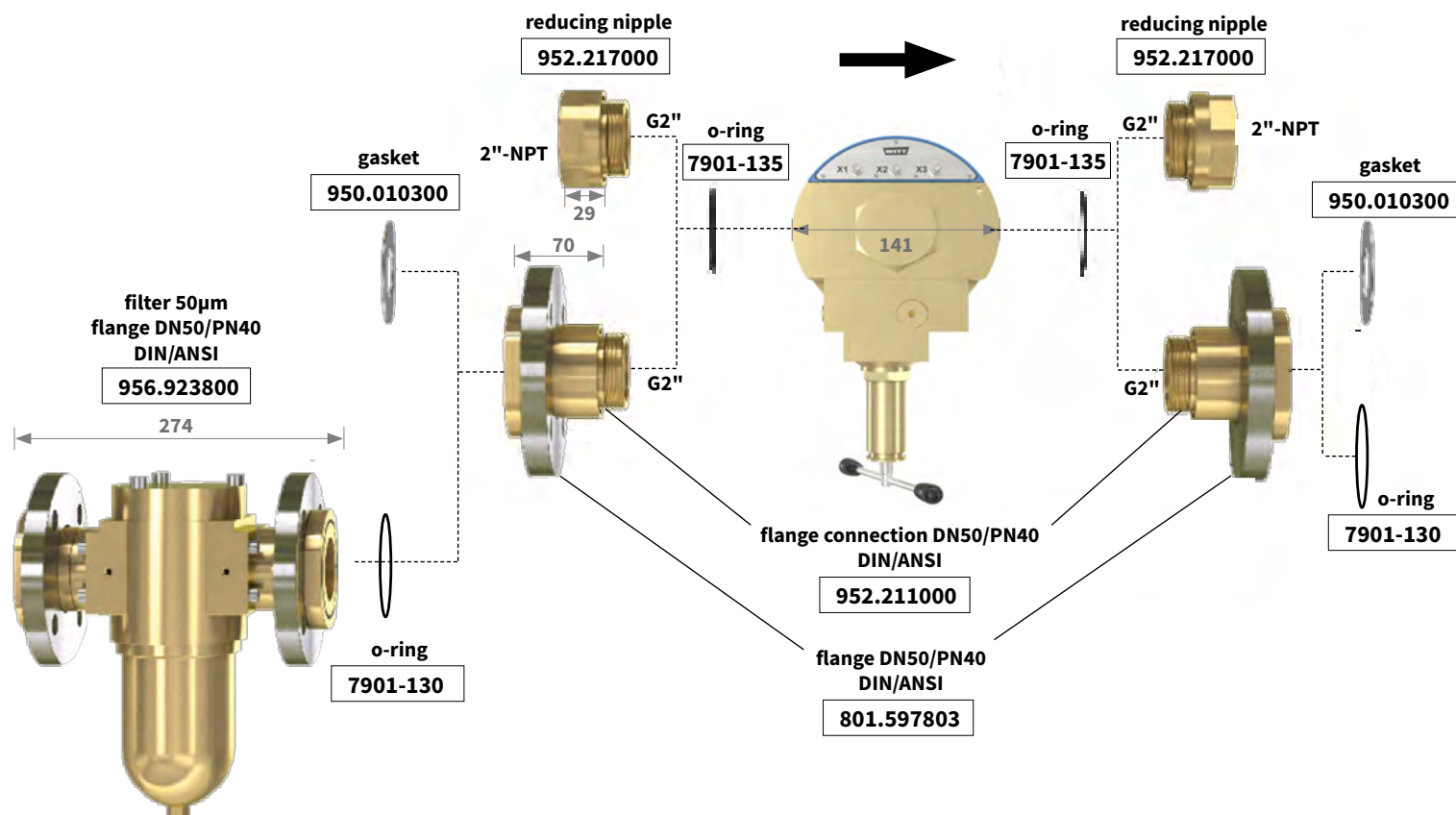
order no. 803097000

(3 cables are required to operate the device)

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



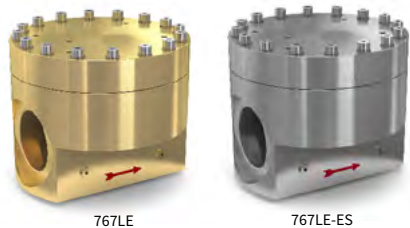
P1 - inlet pressure
T1 - inlet temperature
P2 - outlet pressure
T2 - outlet temperature
P3 - pilot pressure
FR - flow rate



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
- new: the matching 3" gas filter for high flow rates LE6 (see p. 75)

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	802.580503
o-ring for flange DN80	7901-136
gasket for flange DN80	950.010300

STAINLESS STEEL

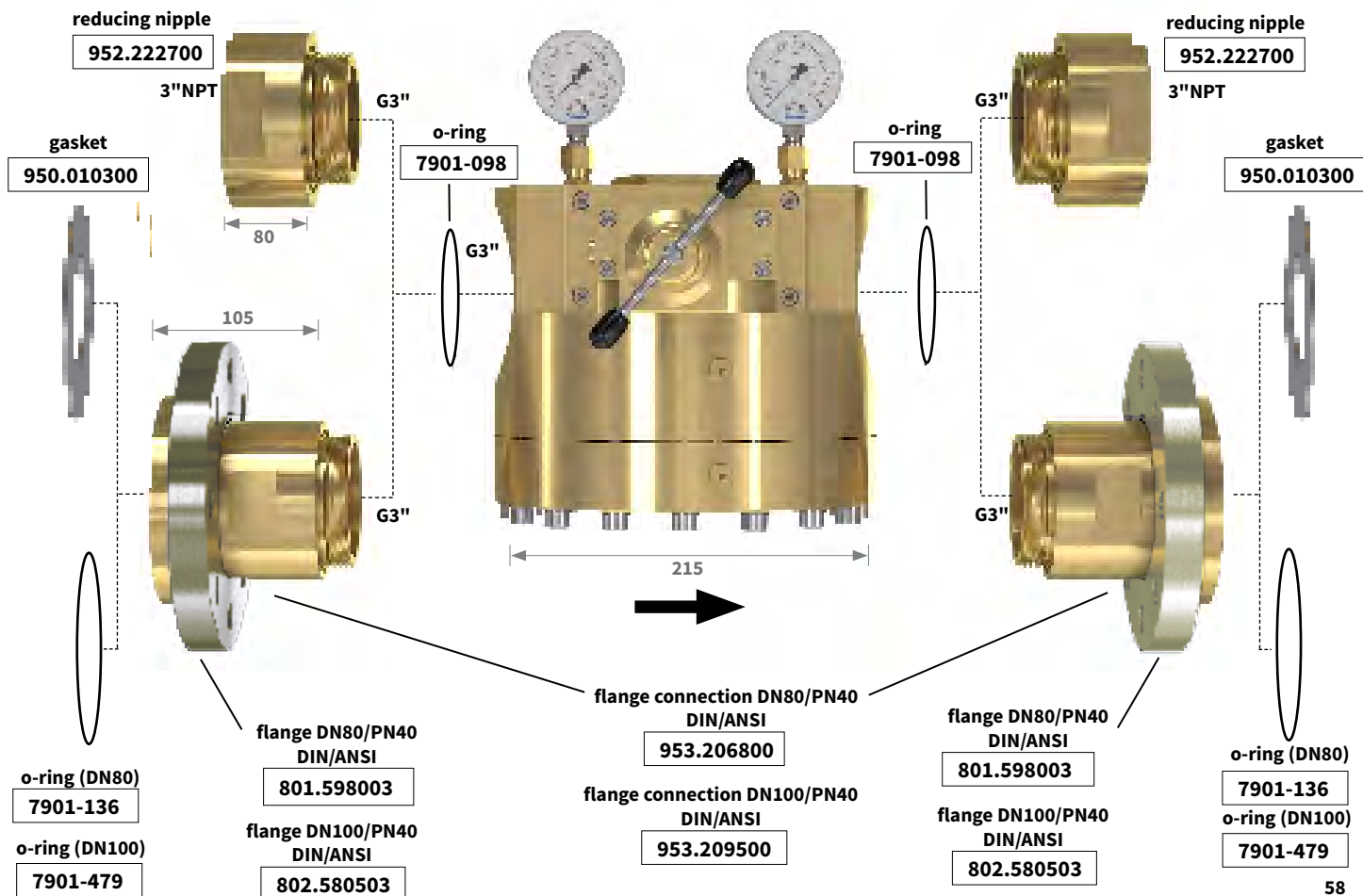
model 767LE-ES (stainless steel), without pilot pressure regulator

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

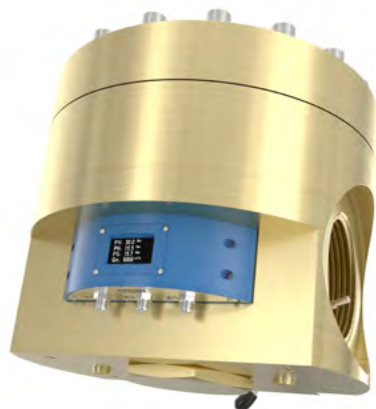
flange DIN DN 80	40 bar	0.5-10 bar	292-___
flange DIN DN 80	40 bar	0.5-30 bar	292-___
flange DIN DN 100	40 bar	0.5-10 bar	292-___
flange DIN DN 100	40 bar	0.5-30 bar	292-___
G 3" IG	40 bar	0.5-10 bar	292-___
3" IG	40 bar	0.5-30 bar	292-___
3" NPT IG	40 bar	0.5-10 bar	292-___
3" NPT IG	40 bar	0.5-30 bar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

* depending on type of gas



18. PRESSURE REGULATORS

Dome Pressure Regulators



767 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

767LE/S Smart

All brass models of the 747LE/S dome pressure regulator are available as Smart models. The following surcharges are added to the price of the desired model:

Smart model variations

„Standard“

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

„Standard + P3“

„Standard“ features, plus indication of pilot pressure

„Standard + Flow“

„Standard“ features, plus indication of flow rate

„Standard + P3 + Flow“

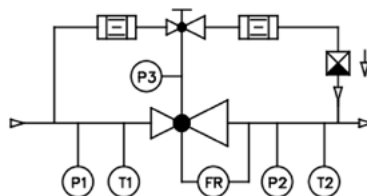
„Standard“ features, plus indication of pilot pressure and flow rate

signal cable with angled plug (5 m)

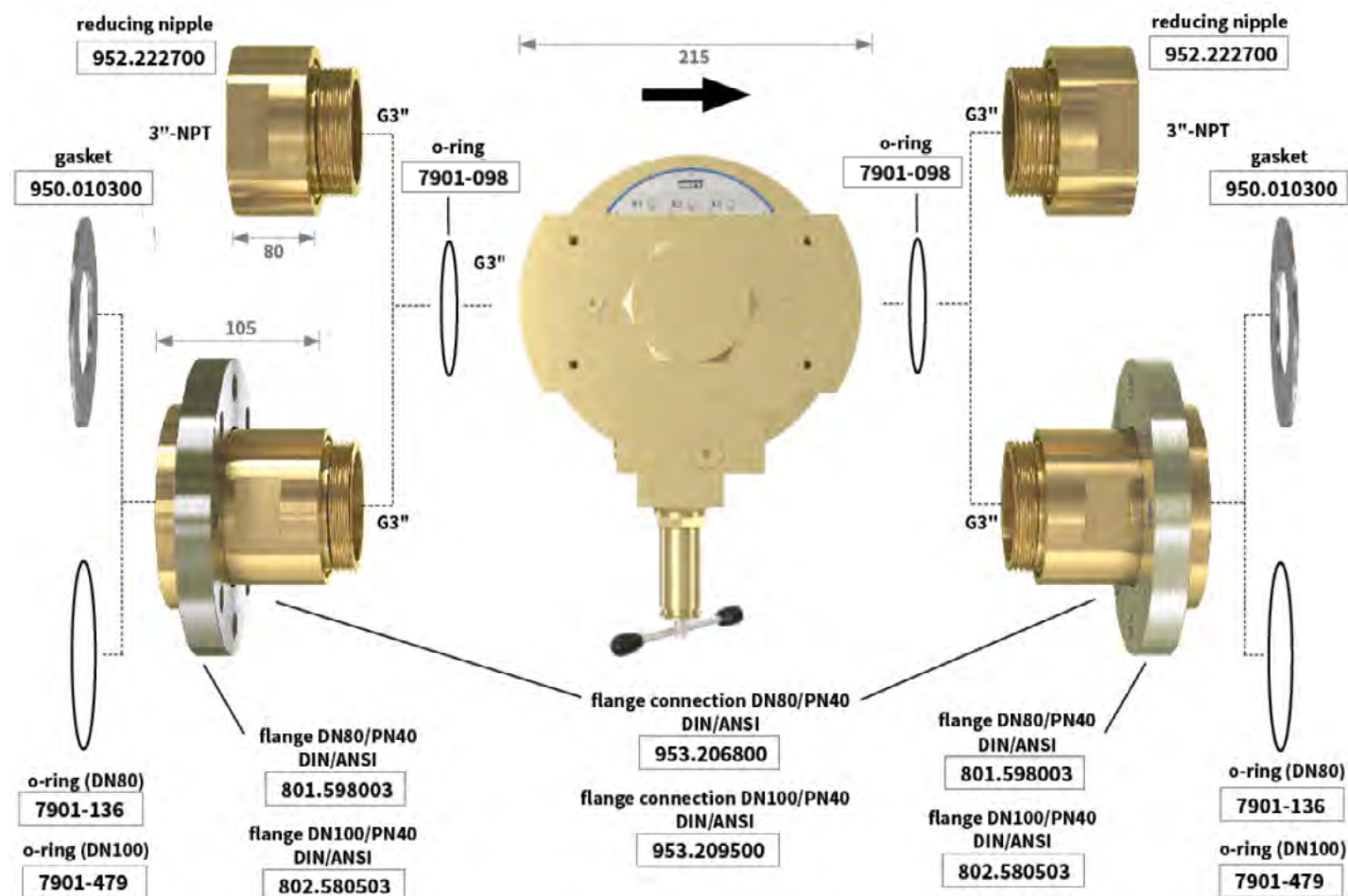
order no. 803097000

(3 cables are required to operate the device)

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



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



18. PRESSURE REGULATORS

Dome Backpressure Regulator



BPR 2



BPR 2-ES

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

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

BPR 2

connections	adjustable upstream pressure	order no.
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



lockable spindle cap



maintenance kit

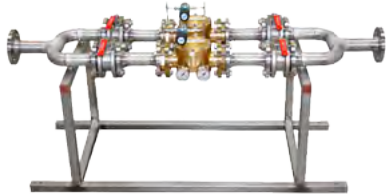
Accessories for WITT dome pressure regulators

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

for dome pressure regulators

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

Dome Pressure Regulators



parallel construction with 757LE/S



757LE/S with flange filter

engineering - planning and installation

Individual parallel construction

Example I:

4 ball valves stainless steel DN50/PN40
2 dome pressure regulators 757LE/S
manifold DN50, counter-flange, TÜV-testing, CE labeling
installation on welded mounting frame

Example II:

dome pressure regulator 757LE/S
with flange filter 50 µm filter fineness, for oxygen up to 30 bar
with dirt catcher
delivery completely assembled and tested

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

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

“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

20. GAS FILTERS

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



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

pure filter

model	connections	order no.
807 (approx. 5 µm)	1/4" NPT IG	185-002
replacement filter		956333400

HD



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

stainless steel filter

model	connections	order no.
HD (approx. 30 µm)	G 3/4 IG	187-002
HD (approx. 80 µm)	G 3/4 IG	187-001
replacement filter 30 µm		FI-187-30
replacement filter 80 µm		FI-187

LE6



For reliable protection against contamination by ultrafine filtering of particulates and moisture (approx. 15 µm)

- in compliance with the EIGA, AIGA and CGA maximum velocity limits
- ideal as a supplement to the dome pressure regulator 767LE and 767LE SMART

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

“Our gas filter in a new dimension

Our new gas filter LE6 is the perfect complement to the dome pressure regulator 767LE/S and 767LE/S SMART.

With its 3" connection and a 15 µm filter fineness, it is suitable for up to 40 bar max. operating overpressure (oxygen 30 bar, CO2 25 bar).

The flow-optimized design enables a high flow rate and thus ensures the process quality of even the largest systems.



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
Declaration of Conformity 1935/2004 (food suitability)	998.440006
Printed Operation Manual	998.300011
Declaration of Conformity ,Pressure Devices' (PED) Module G by German TÜV	998.260001
Manufacturer's Certificate in accordance with DIN EN ISO 22000	998.440005

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.

WARRANTY INFORMATION



This equipment is sold by WITT GAS CONTROLS LP, under the warranties set forth in the following paragraphs. Such warranties are extended only with respect to the purchase of this equipment directly from WITT GAS CONTROLS LP or its Authorized Distributors as new merchandise and are extended to the first Buyer thereof other than for the purpose of resale.

For a period of one (1) year from the date of original delivery (90 days in corrosive environment or gas service) to Buyer or to Buyer's order, this equipment is warranted to be free from functional defects in materials and workmanship and to conform to the description of this equipment contained in this manual and any accompanying labels and/or inserts, provided that the same is properly operated under conditions of normal use and that regular periodic maintenance and service is performed or replacements made in accordance with the instructions provided. The foregoing warranties shall not apply if the equipment has been repaired: other than by WITT GAS CONTROLS LP or a designated service facility or in accordance with written instructions provided by WITT GAS CONTROLS LP or altered by anyone other than WITT GAS CONTROLS LP, or if the equipment has been subject to abuse, misuse, negligence, or accident.

WITT GAS CONTROLS LP's sole and exclusive obligation and Buyer's sole and exclusive remedy under the above warranties is limited to repairing or replacing, free of charge, at WITT GAS CONTROLS LP's option, the equipment or part, which is reported to its Authorized Distributor from whom purchased, and which if so advised, is returned with a statement of the observed deficiency and proof of purchase of equipment or part not later than seven (7) days after the expiration date of the applicable warranty, to the nearest designated service facility during normal business hours, transportation charges prepaid, and which upon examination, is found not to comply with the above warranties. Return trip transportation charges for the equipment or part shall be paid by Buyer.

WITT GAS CONTROLS LP SHALL NOT BE OTHERWISE LIABLE FOR ANY DAMAGES INCLUDING BUT NOT LIMITED TO: INCIDENTAL DAMAGES, CONSEQUENTIAL DAMAGES, OR SPECIAL DAMAGES, WHETHER SUCH DAMAGES RESULT FROM NEGLIGENCE, BREACH OF WARRANTY OR OTHERWISE.

THERE ARE NO EXPRESS OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE WARRANTIES HEREINABOVE

STANDARD TERMS AND CONDITIONS



1. All items are sold FOB Place of origin (Roswell, Georgia). "FOB shipping point" or "FOB Place of origin" means the buyer is at risk and takes ownership of goods once the seller ships the goods. Customer pays all transportation fees from Roswell, GA. For international shipments, customer is also responsible for all customs and related fees and must supply either a UPS or FedEx account number (and associated billing zip code for UPS and FedEx accounts). Witt does not accept requests for DHL or other non-UPS or FedEx accounts.
2. Prices are per the latest published price list, currently for year 2023. All prices are subject to change without notice, and orders will be billed at the prices in effect at the time of shipment. Items not in the price list are quoted upon demand.
3. Payment terms are Net 30 (for approved customers only; subject to credit check). Net 30 terms are subject to credit approval for each order, even when terms were previously granted. Service charges of 3% will be applied to past-due accounts. Payments may be made in US dollars via ACH or check. Credit card payments and wire transfers are accepted only after the applicable processing fee is added to the invoice.
4. Drop shipment orders will incur an additional fee of 10% of the order or \$75.00, whichever is greater.
5. Minimum Billing: \$500.00 per order at net prices. Prepaid (PAY IN ADVANCE) orders minimum: \$250.00.
6. Warranty on all products is one year from date of sale. Except for items used in corrosive application or environments, 90 days warranty on these items. Consumable items are not under warranty.
7. Returned Goods: to be eligible for credit, goods returned to Roswell, GA, must comply with the following requirements:
 - a. Removal of product from original packaging constitutes final sale and product is considered used. Due to the nature of application of this product type, no product can be accepted for return or credit once it has been determined that the item has been used.
 - b. The product(s) must be listed in the current price sheet and must have been purchased within the last 12 months.
 - c. The reason for the return must be clearly stated at the time of the request for return materials authorization (RMA).
 - d. An offsetting order of equal dollar value or more must accompany the returned product(s).
 - e. Transportation charges for the returned product(s) must be prepaid, or the return will not be accepted. Returned goods accepted for credit are subject to a minimum 35% handling charge or \$35.00, whichever is greater. In addition, a reconditioning and repackaging fee, if necessary, will be charged.
 - f. No "made to order" or custom-made products are eligible for credit return. This includes gas mixers, gas analyzers and other custom-made, non-catalog products.
 - g. Cancelled orders will incur a 35% fee for in stock items, order must be cancelled prior to shipment. For non-stock or made to order items 50% fee for non-stock and 75% fee for made to order items will apply.
8. WITT GAS CONTROLS LP reserves the right to issue credit on returned goods at purchase price or current price, whichever is lower.
9. All in-stock orders will ship within 24 hours (or next business day) upon receipt of a customer order in which all billing, shipping and other information required to process the order has been provided by the customer and approved for processing.
10. Same-day shipping of small parcel items only is available for in-stock items upon demand for an additional \$35.00 per order/package. This guarantees same-day shipment of up to five items for orders placed and approved by 3:00 PM EST. For credit card orders, complete billing information and authorization must be provided by 1:30 PM EST to allow for transaction processing. Customer must supply either a UPS or FedEx account number (and associated billing zip code for UPS accounts). WITT GAS CONTROLS is not responsible for carrier delays or damage incurred during transport.

[Ver. 1/1/2023]

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

Gas Mixer for N₂/CO₂/CO Tri Mix

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.

Product videos

Download at ► www.wittgas.com or Youtube

Gas mixer BM-2M

Gas mixer MM-Flex

Gas mixer MG FIX / FLEX

Gas mixer KM-MEM

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Quick couplings

Dome Pressure Regulators

There are more videos to come.

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Product specific websites by WITT

Everything about
WITT leak detection

Everything about
WITT dome pressure regulators

► www.leak-master.net

► www.domepressureregulators.com

Everything about
WITT OXYBABY®

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► www.oxybaby.com

► www.gas-mixers.com

WITT-App

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Features:

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



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Apple



iGases for
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