

Rely on
WITT for gas safety
technology.



HOW IMPORTANT IS SAFE GAS SUPPLY?

ANDREAS HEYER: SENIOR PRODUCT MANAGER – WITT-GASETECHNIK

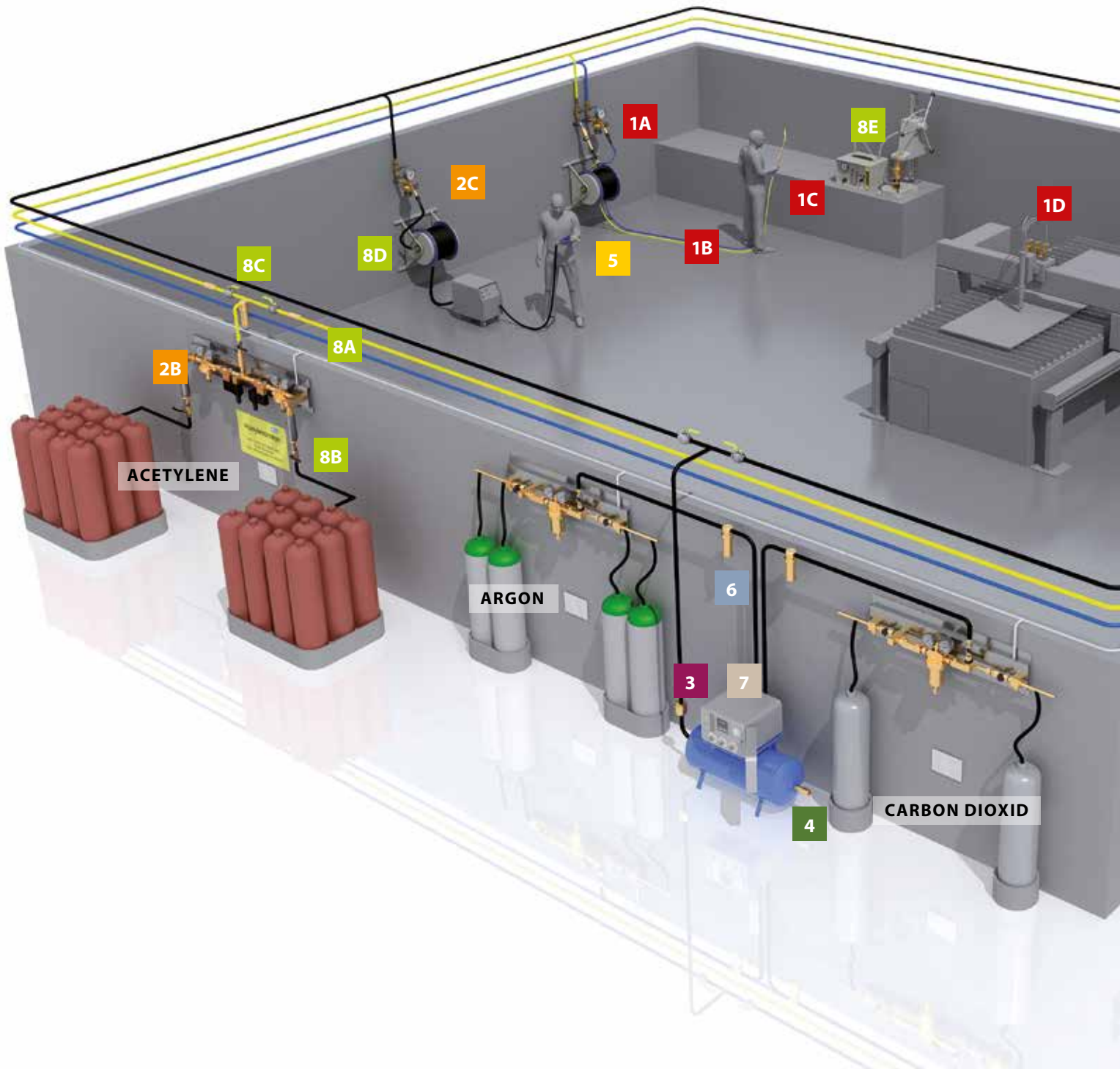
CENTRAL GAS SUPPLY SYSTEMS INCREASE SAFETY AND PRODUCTIVITY!

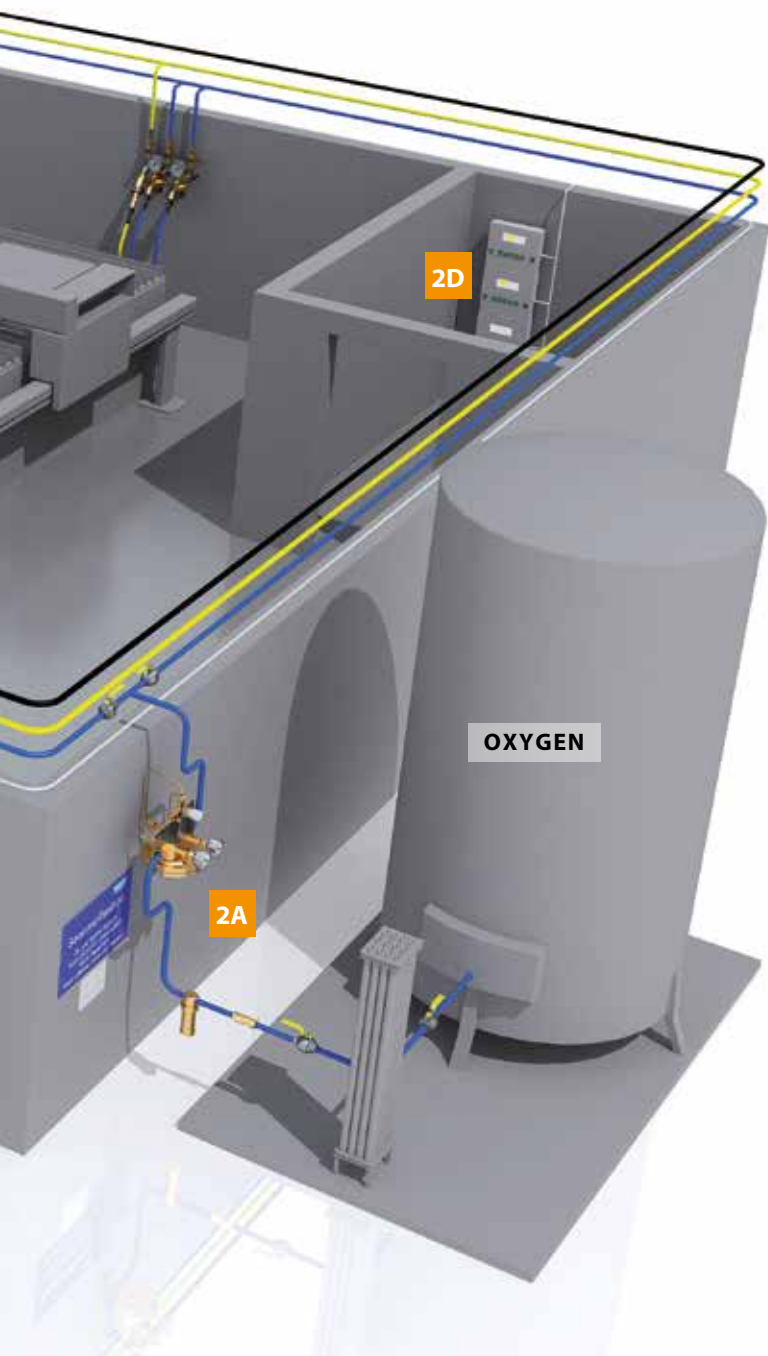
Continuous gas supply, improved safety by less transportation of gas cylinders, more space at the point of use, flexibility and expandability – central gas supply systems offer numerous benefits. Field-proven solutions by WITT ensure the optimal realisation from gas inlet to outlet point, from conception to implementation.

As market leader with longtime experience WITT offers all components for central gas supply systems – gas mixers, pressure regulator stations, flashback arrestors, outlet points, electronic control and special equipment. Complete systems by WITT meet the most challenging requirements ensuring best quality, high flow rates and minimum pressure loss.

Our BAM-tested and certified products set standards. Rely on German quality and contact persons globally.

WITT – CENTRAL GAS SUPPLY SYSTEMS FROM A SINGLE SOURCE!





- 1 > FLASHBACK ARRESTORS**
- 1A** For regulators, outlet points, pipelines
- 1B** For hoses
- 1C** For torches
- 1D** For cutting machines

- 2 > PRESSURE REGULATOR STATIONS AND OUTLET POINTS**
- 2A** Dome pressure regulators
- 2B** Pressure regulator stations
- 2C** Outlet points
- 2D** Electronic switch and control

- 3 > NON-RETURN VALVES**

- 4 > SAFETY RELIEF VALVES**

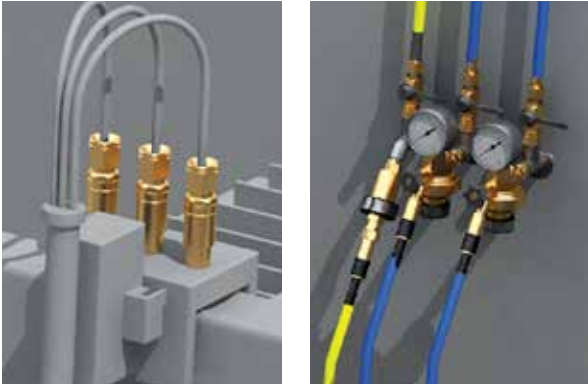
- 5 > QUICK COUPLINGS**
(for outlet points, pipelines, torches)

- 6 > GAS FILTERS**

- 7 > GAS MIXERS**

- 8 > SPECIAL EQUIPMENT**
- 8A** Decomposition Arrestors
- 8B** Automatic slam shut valves
- 8C** Ball valves
- 8D** Safety hose reels
- 8E** Test equipment

PRODUCT PORTFOLIO



1 FLASHBACK ARRESTORS

Protection of single cylinders, outlet points or pipelines against reverse gas flow and flashbacks:

- Combination of all safety elements for optimal protection
- Extinguish dangerous flashbacks or backfire
- Avoid explosive mixtures in the gas supply
- Wide product range for all kinds of applications
- For all technical gases
- Installation independent of the orientation
- Long service life due to protection against dirt – via filter at gas inlet
- All connections available
- Available in brass or stainless steel



3 NON-RETURN VALVES

Protection of equipment, pipelines and outlet points against reverse gas flow:

- Avoid the formation of explosive mixtures in the gas supply
- Varying from 0.04–580 psi and flows between 0.35 scfh–105,950 scfh with any wanted connection
- For all technical gases – wide range of applications
- Low pressure drops – using complex valve assembly with low opening pressures
- No leaks – using of a spring loaded valve assembly with elastomer sealing
- Installation independent of the orientation
- All connections available
- Available in brass or stainless steel



2 PRESSURE REGULATORS

Constant gas flow and control of central gas supplies:

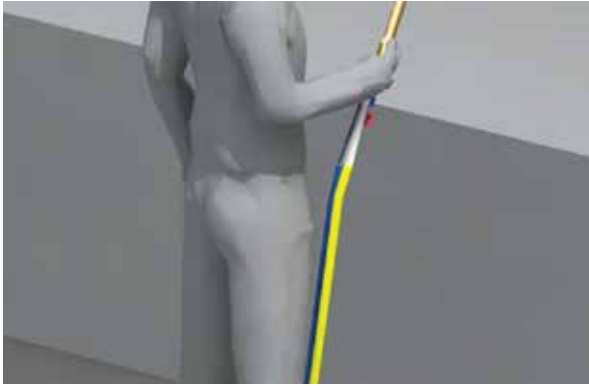
- Continuous gas supply and control of a pipeline
- With manual or automatic change-over
- Completely mounted and tested
- Compact design
- Reduces the risk of accidents



4 SAFETY RELIEF VALVES

Avoiding over-pressure by gas blowdown from pipelines and other equipment:

- Venting of excess pressure to protect down-stream equipment
- Individual opening pressure from 0.07 psi to 650 psi
- Compact size
- Installation independent of the orientation
- Protective dust cap
- Range of inlet connections
- Available in brass or stainless steel



5 QUICK COUPLINGS

Safe and quick connection of equipment:

- Lightning fast connection and disconnection of equipment
- Gas-tightness when disconnected
- No build-up of explosive gas-mixtures in the pipe line – because of non-return valve
- No confusion between connections – because of different probes for Oxygen, Fuel and Inert Gases
- Simplest selection of the right body and probe – because of new colour coded probe
- All connections available
- Dirt-filter protects hose coupling and equipment



6 GAS FILTERS

Reliable filtration of the finest dirt particles in gases:

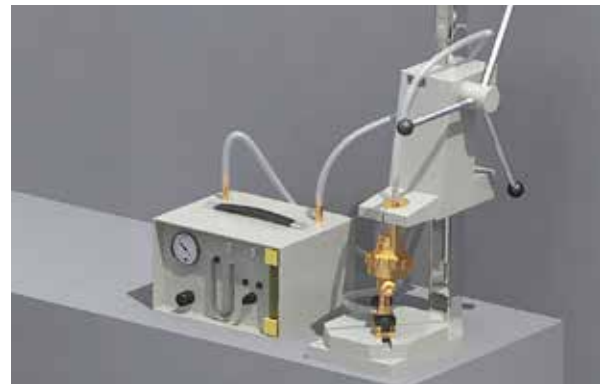
- For pipelines and gas outlet points.
Some with condensation outlet
- For particles from 0.3–50 micron
- Diverse applications – useful for many technical gases
- High flow rates
- Extend the service life of downstream equipment – by reliable filtration performance
- Change of filter possible while installed
- Large choice of connections



7 GAS MIXERS

High quality mixing systems for 2 or 3 gases particularly for all areas with sharply fluctuating mixed gas flows:










- Easy operation
- A proportional mixing valve or three single mixing valves provide infinitely variable mixture settings
- Gas mixture withdrawal possible from zero to the maximum flow capacity
- High process reliability
- Independent of pressure fluctuations in the gas supply
- Intermittent gas mixture withdrawal possible
- Splash-proof and robust stainless steel housing
- For flammable gases available as EEx-version with separate control cabinet
- Integrated gas analysis for the control and documentation of the gas mixture production
- Monitoring of the gas supply with alarm












8 TEST EQUIPMENT






For the testing of all safety elements including flashback arrestors and non-return valves.

- Cost effective
- Only one test rig for all tests
 - Leak tightness to atmosphere
 - Test of non-return valve against low and high back pressure
 - Function of pressure sensitive gas cut off valve
 - Measurement of flow capacity of safety device
- Clear readings
- Robust design
- Maintenance free

Material	Model	Remarks	Gases / Max. working pressures / Flows							Safety elements				
			Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Inlet Gas Filter – depending on connection	Flame Arrestor (FA)	Non-Return Valve (NV)	Temperature activated Cut-off Valve (TV)	Pressure activated Cut-off Valve (PV)	Pressure Relief Valve	
Brass		RF53N		21 psi / 458 scfh	362 psi	72 psi	43 psi	72 psi	X	X	X	X		
		RF53DN		21 psi / 405scfh	145 psi	72 psi	43 psi	72 psi	X	X	X	X		X
		RF53NSK	quick connect	21 psi / 458 scfh	290 psi	72 psi	43 psi	72 psi	X	X	X	X		
		85-10		21 psi / 776 scfh	362 psi	72 psi	4 psi	72 psi	X	X	X	X		
		85-20		2 psi / 1588 scfh	232 psi	58 psi	58 psi	58 psi	X	X	X	X		
		85-30		21 psi / 2470 scfh	362 psi	50 psi	58 psi	72 psi	X	X	X	X		
Stainless steel		RF53N-ES		21 psi / 458 scfh	362 psi	72 psi	43 psi	72 psi	X	X	X	X		
		RF53N/H-ES				116 psi	145 psi	174 psi	X	X	X	X		
		RF85-10N-ES		21 psi / 776 scfh	362 psi	72 psi	58 psi	72 psi	X	X	X	X		







Material	Model	Remarks	Gases / Max. working pressures / Flows					Safety elements						
			Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Inlet Gas Filter – depending on connection	Flame Arrestor (FA)	Non-Return Valve (NV)	Temperature activated Cut-off Valve (TV)	Pressure activated Cut-off Valve (PV)	Pressure Relief Valve	
Stainless steel		RF85-10N/H-ES				72 psi	145 psi	145 psi	X	X	X	X		
		RF85-20N-ES		21 psi / 1588 scfh	232 psi	58 psi	58 psi	58 psi	X	X	X	X		
		RF85-30N-ES		21 psi / 2470 scfh	362 psi	50 psi	58 psi	72 psi	X	X	X	X		
		RF 85-30N/H-ES				72 psi	159 psi	116 psi	X	X	X	X		
		F100N-ES					246 psi			X		X		
Brass		Super 55	resettable	21 psi / 352 scfh	290 psi	72 psi	43 psi	72 psi	X	X	X	X		
		Super 90	resettable	21 psi / 388 scfh	145 psi	58 psi	72 psi	72 psi	X	X	X	X	X	
		Super 78	resettable	21 psi / 388 scfh	145 psi	58 psi	72 psi	72 psi	X	X	X	X	X	X
		Super 85	resettable	21 psi / 670 scfh	362 psi	72 psi	58 psi	72 psi	X	X	X	X	X	




1 > **FLASHBACK ARRESTORS** | for regulators, outlet points, pipelines, DIN EN ISO 5175-1


Material	Model	Remarks	Gases / Max. working pressures / Flows							Safety elements				
			Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Inlet Gas Filter – depending on connection	Flame Arrestor (FA)	Non-Return Valve (NV)	Temperature activated Cut-off Valve (TV)	Pressure activated Cut-off Valve (PV)	Pressure Relief Valve	
Brass		Super 66	resettable	29 psi / 105 scfh	145 psi	72 psi	72 psi	72 psi	X	X	X	X	X	X
		RF53N/30				43 psi		58 psi	X	X	X	X		
		85-10N/30				21 psi	2.9 psi	21 psi	X	X	X	X		
		270N 270 NU				29 psi	21 psi	43 psi		X	X	X		
		623N 623 NU				29 psi	21 psi	50 psi		X	X	X		



1 > **FLASHBACK ARRESTORS** | for hoses

Brass		E460-2	hose nipple	21 psi / 317 scfh	290 psi	72 psi	58 psi	72 psi	X	X	X		
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Material		Model	Remarks	Gases / Max. working pressures / Flows					Safety elements					
				Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Inlet Gas Filter – depending on connection	Flame Arrestor (FA)	Non-Return Valve (NV)	Temperature activated Cut-off Valve (TV)	Pressure actuated Cut-off Valve (PV)	Pressure Relief Valve
Brass		E460-1	hose nipple	21 psi / 317 scfh	290 psi	72 psi	58 psi	72 psi	X	X	X			
		E460-3		21 psi / 317 scfh	290 psi	72 psi	58 psi	72 psi	X	X	X			
		E460SK	quick connect	21 psi / 317 scfh	290 psi	72 psi	58 psi	72 psi	X	X	X			
		E460SKU	quick connect	21 psi / 458 scfh	290 psi	72 psi	58 psi	72 psi		X	X			
		RF53NU		21 psi / 458 scfh	362 psi	72 psi	48 psi	72 psi	X	X	X	X		
		85-10NU		21 psi / 776 scfh	362 psi	72 psi	58 psi	72 psi	X	X	X	X		
		85-10NU (Exzenter)	off-centre-nut	21 psi / 776 scfh	362 psi	72 psi	58 psi	72 psi	X	X	X	X		

Material	Model	Remarks	Gases / Max. working pressures							Connection	
			Opening pressure	Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Nitrogen (N ₂)		
Steel		NV800		0.08–0.12 psi		145 psi	145 psi		145 psi	145 psi	Flange DN65–DN100
		NV2000		0.0725 psi			145 psi		145 psi	145 psi	Flange DN80 / DN100–200
Stainless steel		654-ES		0.44 psi		435 psi	870 psi	870 psi	870 psi	870 psi	G 1/8
		R53-ES		0.44 psi	21 psi	362 psi	362 psi	362 psi	362 psi	362 psi	G 1/8
		600-ES		0.06 psi	21 psi	232 psi	232 psi	232 psi	232 psi	232 psi	G 1/2–G 1
		600H-ES		3.63 psi		580 psi	580 psi	580 psi	580 psi	580 psi	G1/2-G1
		338-ES		0.04 psi	232 psi	232 psi	232 psi	232 psi	232 psi	232 psi	G1–G1.1/4
		339-ES		0.44 psi	232 psi	232 psi	232 psi	232 psi	232 psi	232 psi	G 1.1/2–G 2
		800-ES		14.5 psi		3480 psi		4350 psi		4350 psi	1/4" NPT

Material		Model	Remarks	Technical information				Features			
				Opening pressure	Inlet-connection	Outlet-connection	With condensation outlet	Inlet filter (optional)	Manual ventilation	Manufactured and certified according to EN ISO 4126-1 AD 2000 bulletin A2 and VdTUV-bulletin 100	TÜV certification
Brass		SV 805	CE-marked according to PED 2014/68/EU CE0045	7.25 psi-652 psi	G 1/4-G 3/4 1/4" NPT-3/4" NPT	M24 x 1	X			X	X
		SV 805A	CE-marked according to PED 2014/68/EU CE0045	7.25 psi-652 psi	G 1/4-G 3/4 1/4" NPT-3/4" NPT	1/2" NPT			X	X	X
		AV 319		0.15 psi-1.16 psi	G 1/8	G 1/8					X
		AV 619		0,008 psi-7.25 psi	G 1/2-G 1	G 1/2-G 1	X	X		X	x
Stainless steel		SV 805-ES	CE-marked according to PED 2014/68/EU CE0045	7.25 psi-652 psi	G 1/4-G 3/4 1/4" NPT-3/4" NPT	M24 x 1	X			X	X
		SV 805A-ES	CE-marked according to PED 2014/68/EU CE0045	7.25 psi-652 psi	G 1/4-G 3/4 1/4" NPT-3/4" NPT	1/2" NPT			X	X	X
		319-ES		0.15 psi-116 psi	G 1/8	G 1/8					X
		AV 619-ES		0,08 psi-7.25 psi	G 1/2-G 1	G 1/2- G 1			X		X

Material		Model	Remarks	Technical information				Features			
				Opening pressure	Inlet-connection	Outlet-connection	With condensation outlet	Inlet filter (optional)	Manual ventilation	Manufactured and certified according to EN ISO 4126-1 AD 2000 bulletin A2 and VdTUV-bulletin 100	TÜV certification
Stainless steel											X
Aluminium anodized		AV919-ES		0,08 psi– 7.25 psi	G 2	G 2					X

Application	Image	Model	Remarks	Gases / Max. working pressures / Flows				
				Acetylene (A)	Oxygen (O)	LP6 (P)	Hydrogen (H)	Natural Gas (M)
Gas Filter outlet points		622		21 psi / 2188 scfh	232 psi	232 psi	232 psi	232 psi
Gas Filter for pipelines		77 with bronze element	Bronze filter element, fineness 50 micrometer, condensate drain		580 psi		725 psi	725 psi
		77	Nickel chromium filter element, fineness 7-10/40 micrometer	21 psi / 11013 scfh	435 psi	725 psi	580 psi	725 psi
		625	Condensate outlet	21 psi / 16166 scfh	145 psi	362 psi	362 psi	362 psi
		HD Gas Filter	Nickel chromium filter element, fineness 30/80 micrometer	362 psi	725 psi	275 psi	275 psi	275 psi

		For all technical gases					
Model	Remarks	Minimum inlet pressure	Maximum inlet pressure	Maximum flow capacity	Mixing range	Mixing precision	
	KM 100 For 2 or 3 Gases. Option: mounted on buffer tank	29 psi	290 psi	1517 scfh	0–100 %	better +/- 1% abs.	
 	MG 50 – MG 500 For 2 or 3 Gases. Option: mounted on buffer tank	43 psi	290 psi	3530 scfh– 33180 scfh	0–25 % or 0–100 %	better +/- 1% abs.	

OUR PRODUCT RANGE

GAS CONTROL EQUIPMENT

- Gas mixing systems
- Gas metering systems
- Gas analyzers
- Leak detection systems
- Gas pressure vessels
- Engineering of customized systems

GAS SAFETY EQUIPMENT

- Flashback arrestors
- Non-return valves / check valves
- Quick couplers
- Safety relief valves
- Stainless steel devices
- Gas filters
- Pressure regulators
- Outlet points
- Lance holders
- Ball valves
- Automatic hose reels
- Test equipment
- Accessories
- Customized safety equipment

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