

Rely on
WITT for gas safety
technology.



HOW IMPORTANT IS SAFE GAS SUPPLY?

ANDREAS HEYER: SENIOR PRODUCT MANAGER – WITT-GASESTECHNIK

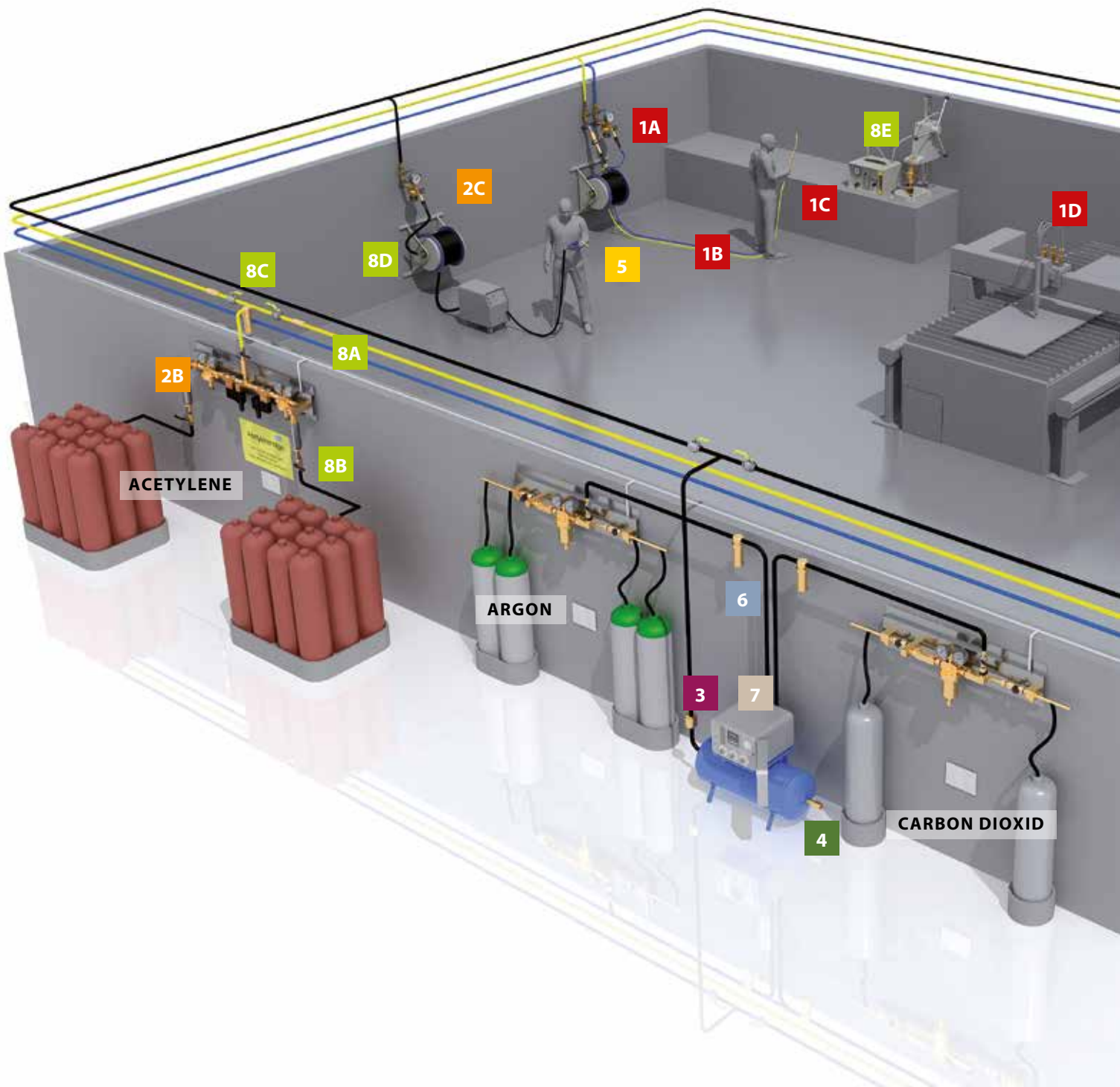
CENTRAL GAS SUPPLY SYSTEMS INCREASE SAFETY AND PRODUCTIVITY!

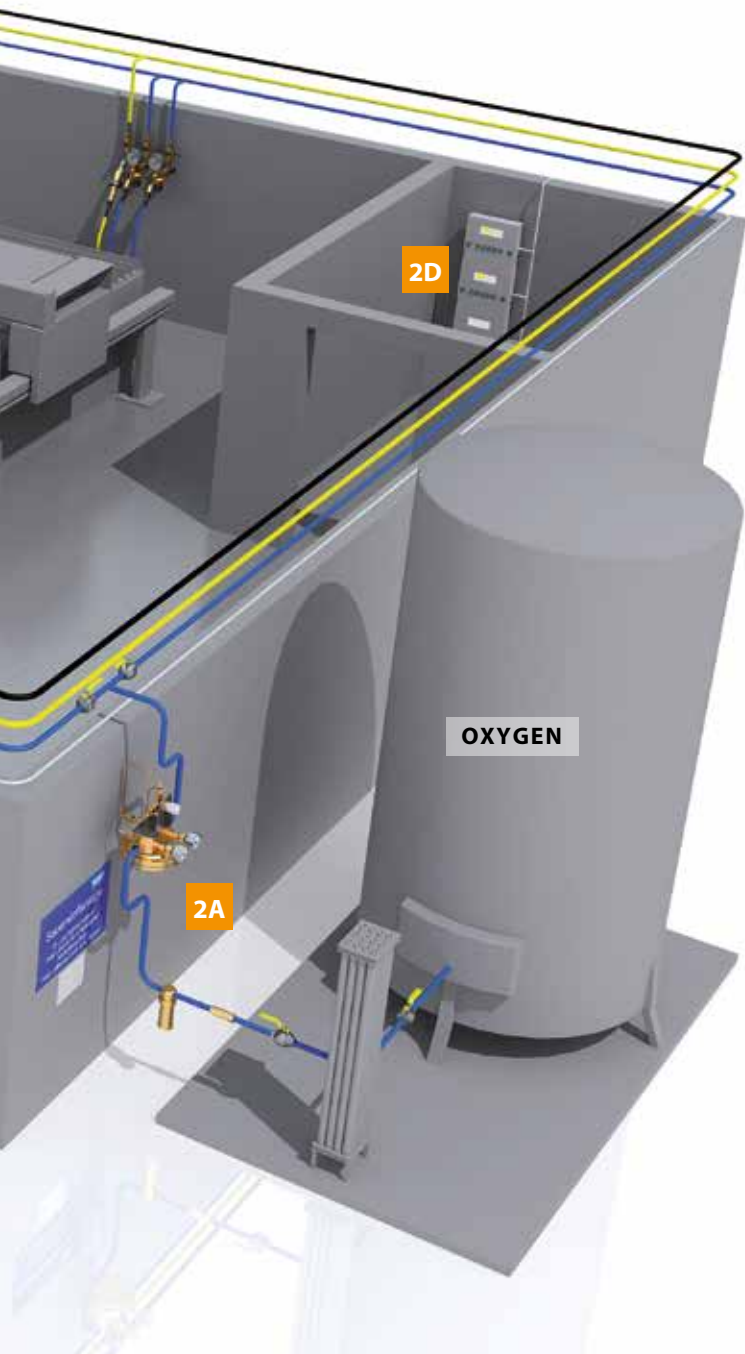
Continuous gas supply, improved safety by less transportation of gas cylinders, more space at the point of use, flexibility and expandability – central gas supply systems offer numerous benefits. Field-proven solutions by WITT ensure the optimal realisation from gas inlet to outlet point, from conception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

1C For cutting machines

1D For hoses

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

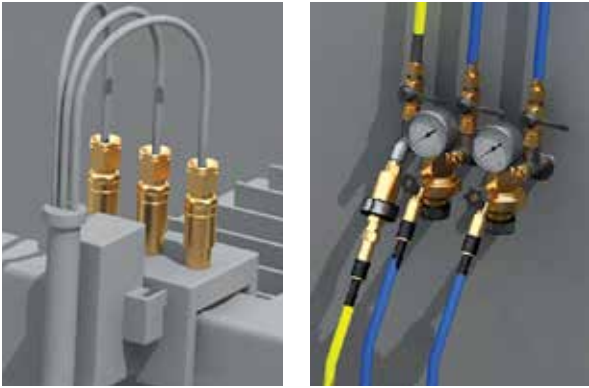
8B Automatic slam shut valves

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 4 mbar–40 bar and flows between 0.01 m³/h–3,000 m³/h 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:

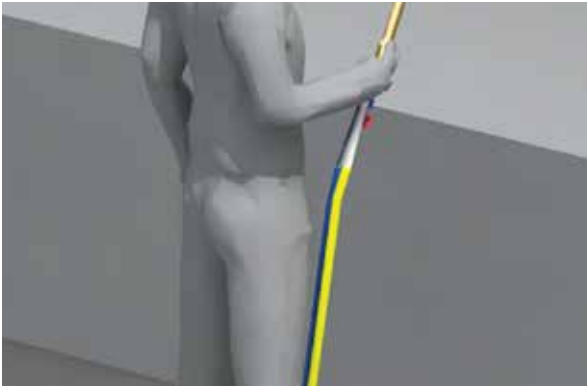
- Continuous gas supply and control of a pipeline
- With manual or automatic change-over
- Completely mounted and tested
- Compact design
- Reduces the risk of accidents



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 5 mbar to 100 bar
- 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



7 GAS MIXERS

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

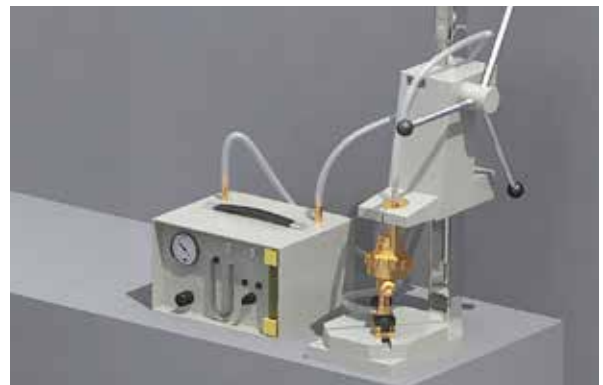
- Easy operation
- A proportional mixing valve or three single mixing valves provide infinitely variable mixture settings
- Gas mixture withdrawal possible from zero to the maximum flow capacity
- High process reliability
- Independent of pressure fluctuations in the gas supply
- Intermittent gas mixture 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



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 0.3–40 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












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	Image	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		RF53N		1,5 bar / 13 m³/h	25 bar	5 bar	3 bar	5 bar	X	X	X	X		
		RF53DN		1,5 bar / 11,5 m³/h	10 bar	5 bar	3 bar	5 bar	X	X	X	X		X
		RF53NSK	quick connect	1,5 bar / 13 m³/h	20 bar	5 bar	3 bar	5 bar	X	X	X	X		
		85-10		1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X	X		
		85-20		2 bar / 45 m³/h	16 bar	4 bar	4 bar	4 bar	X	X	X	X		
		85-30		1,5 bar / 70 m³/h	25 bar	3,5 bar	4 bar	5 bar	X	X	X	X		
Nickel-plated		RF53N-ES		1,5 bar / 13 m³/h	25 bar	5 bar	3 bar	5 bar	X	X	X	X		
		RF53N/H-ES				8 bar	10 bar	12 bar	X	X	X	X		
		RF85-10N-ES		1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	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 actuated Cut-off Valve (PV)	Pressure Relief Valve	
Nickel-plated		RF85-10N/H-ES				5 bar	10 bar	10 bar	X	X	X	X		
		RF85-20N-ES		1,5 bar / 45 m³/h	16 bar	4 bar	4 bar	4 bar	X	X	X	X		
		RF85-30N-ES		1,5 bar / 70 m³/h	25 bar	3,5 bar	4 bar	5 bar	X	X	X	X		
		RF 85-30N/H-ES				5 bar	11 bar	8 bar	X	X	X	X		
		F100N-ES					17 bar			X		X		
Messing		Super 55	resettable	1,5 bar / 10 m³/h	20 bar	5 bar	3 bar	5 bar	X	X	X	X		
		Super 90	resettable	1,5 bar / 11 m³/h	10 bar	4 bar	5 bar	5 bar	X	X	X	X	X	
		Super 78	resettable	1,5 bar / 11 m³/h	10 bar	4 bar	5 bar	5 bar	X	X	X	X	X	X
		Super 85	resettable	1,5 bar / 19 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X	X	X	

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





Material	Image	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		Super 66	resettable	2 bar / 20 m³/h	10 bar	5 bar	5 bar	5 bar	X	X	X	X	X	X
		RF53N/30				3 bar		4 bar	X	X	X	X		
		85-10N/30				1,5 bar	0,2 bar	1,5 bar	X	X	X	X		
		270N 270 NU				2 bar	1,5 bar	3 bar		X	X	X		
		623N 623 NU				2 bar	1,5 bar	3,5 bar		X	X	X		

1 > **FLASHBACK ARRESTORS** | for hoses


Brass		E460-2	hose nipple	1,5 bar / 9 m³/h	20 bar	5 bar	4 bar	5 bar	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 activated Cut-off Valve (PV)	Pressure Relief Valve	
Brass		E460-1	hose nipple	1,5 bar / 9 m³/h	20 bar	5 bar	4 bar	5 bar	X	X	X			
		E460-3		1,5 bar / 9 m³/h	20 bar	5 bar	4 bar	5 bar	X	X	X			
		E460SK	quick connect	1,5 bar / 9 m³/h	20 bar	5 bar	4 bar	5 bar	X	X	X			
		E460SKU	quick connect	1,5 bar / 13 m³/h	20 bar	5 bar	4 bar	5 bar		X	X			
		RF53NU		1,5 bar / 13 m³/h	25 bar	5 bar	3 bar	5 bar	X	X	X	X		
		85-10NU		1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X	X		
		85-10NU (Exzenter)	off-centre-nut	1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X	X		









1 > FLASHBACK ARRESTORS | for cutting machines, 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	 E460-3		1,5 bar / 9 m³/h	20 bar	5 bar	4 bar	5 bar	X	X	X			
	 RF53U		1,5 bar / 13 m³/h	25 bar	5 bar	3 bar	5 bar	X	X	X			
	 85-10U		1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X			
	 85-10NU (Excenter)	off-centre-nut	1,5 bar / 22 m³/h	25 bar	5 bar	4 bar	5 bar	X	X	X			

2 > PRESSURE REGULATOR STATIONS AND OUTLET POINTS


Application	Model	Remarks	Gases / Max. working pressures / Flows						
			Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Argon (Ar)	Nitrogen (N2)
Dome pressure regulator	 737LE-HD/S	Also available as set including pilot pressure regulator, gauges and connections	Max. inlet pressure 200 bar	Max. inlet pressure 100 bar	Max. inlet pressure 300 bar	Max. inlet pressure 300 bar	Max. inlet pressure 300 bar	Max. inlet pressure 300 bar	
	Outlet pressure 2-45 bar		Outlet pressure 0,5-60 bar	Outlet pressure 2-50 bar	Outlet pressure 2-50 bar	Outlet pressure 2-50 bar	Outlet pressure 2-50 bar		
	Kv-Value = 1,65		Kv-Value = 1,65	Kv-Value = 1,65	Kv-Value = 1,65	Kv-Value = 1,65	Kv-Value = 1,65		
	737LE/S 747LE/S 757LE/S 767LE/S		Max. inlet pressure 25 bar		Max. inlet pressure 40 bar		Max. inlet pressure 40 bar	Max. inlet pressure 40 bar	
			Outlet pressure 0,5-30 bar		Outlet pressure 0,5-30 bar		Outlet pressure 0,5-30 bar	Outlet pressure 0,5-30 bar	
			Kv-Value = 30 / 15 / 3,6 / 2,4		Kv-Value = 30 / 15 / 3,6 / 2,4		Kv-Value = 30 / 15 / 3,6 / 2,4	Kv-Value = 30 / 15 / 3,6 / 2,4	

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		6-8 mbar		10 bar	10 bar		10 bar	10 bar	Flange DN65-DN100
		NV2000		5 mbar			10 bar		10 bar	10 bar	Flange DN80 / DN100-200
Stainless steel		654-ES		30 mbar		30 bar	60 bar	60 bar	60 bar	60 bar	G 1/8
		R53-ES		30 mbar	1,5 bar	25 bar	25 bar	25 bar	25 bar	25 bar	G 1/8
		600-ES		4 mbar	1,5 bar	16 bar	16 bar	16 bar	16 bar	16 bar	G 1/2-G 1
		600H-ES		250 mbar		40 bar	40 bar	40 bar	40 bar	40 bar	G1/2-G1
		338-ES		4 mbar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	G1-G1.1/4
		339-ES		4 mbar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	G 1.1/2-G 2
		800-ES		1 bar		240 bar		300 bar		300 bar	1/4" NPT

Material	Image	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	Single certification (Modul F)
Brass		SV 805	CE-marked according to PED 2014/68/EU CE0045	0,5 bar–45 bar	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	0,5 bar–45 bar	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT			X	X	X
		AV 319		10 mbar–80 mbar	G 1/8	G 1/8					X
		AV 619		0,005 bar–< 0,5 bar	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	0,5 bar–45 bar	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	0,5 bar–45 bar	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT			X	X	X
		319-ES		10 mbar–80 mbar	G 1/8	G 1/8					X
		AV 619-ES		0,005 bar–< 0,5 bar	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 AZ and VdTUV-bulletin 100	Single certification (Modul F)
Stainless steel		AV919-ES		0,005 bar- < 0,5 bar	G 2	G 2					X
Aluminium anodized		AV 919		0,005 bar- < 0,5 bar	G 2	G 2					X

Application	Image	Model	Remarks	Gases / Max. working pressures / Flows				
				Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)
Gas Filter outlet points		622		1,5 bar / 62 m ³ /h	16 bar	16 bar	16 bar	16 bar
Gas Filter for pipelines		77 with brass-elements	Bronze filter element, fineness 50 micrometer, condensate drain		40 bar		50 bar	50 bar
		77	Nickel chromium filter element, fineness 7-10/40 micrometer	1,5 bar / 312 m ³ /h	30 bar	50 bar	40 bar	50 bar
		625	Condensate outlet	1,5 bar / 458 m ³ /h	10 bar	25 bar	25 bar	25 bar
		HD Gas Filter	Nickel chromium filter element, fineness 30/80 micrometer	25 bar	50 bar	275 bar	275 bar	275 bar

		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	2 bar	20 bar	43 m ³ /h	0-100 %	better +/- 1% abs.
	MG 50 - MG 500	For 2 or 3 Gases. Option: mounted on buffer tank	3 bar	20 bar	100 m ³ /h- 940 m ³ /h	0-25 % or 0-100 %	better +/- 1% abs.
							

OUR PRODUCT RANGE

GAS CONTROL EQUIPMENT

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

GAS SAFETY EQUIPMENT

- Flashback arrestors
- Non-return valves / 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
- Customised safety equipment

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