

Rely on
WITT for gas safety
technology.



HOW IMPORTANT IS SAFE GAS SUPPLY?

ANDREAS HEYER: SENIOR PRODUCT MANAGER – WITT-GASESTECHNIK

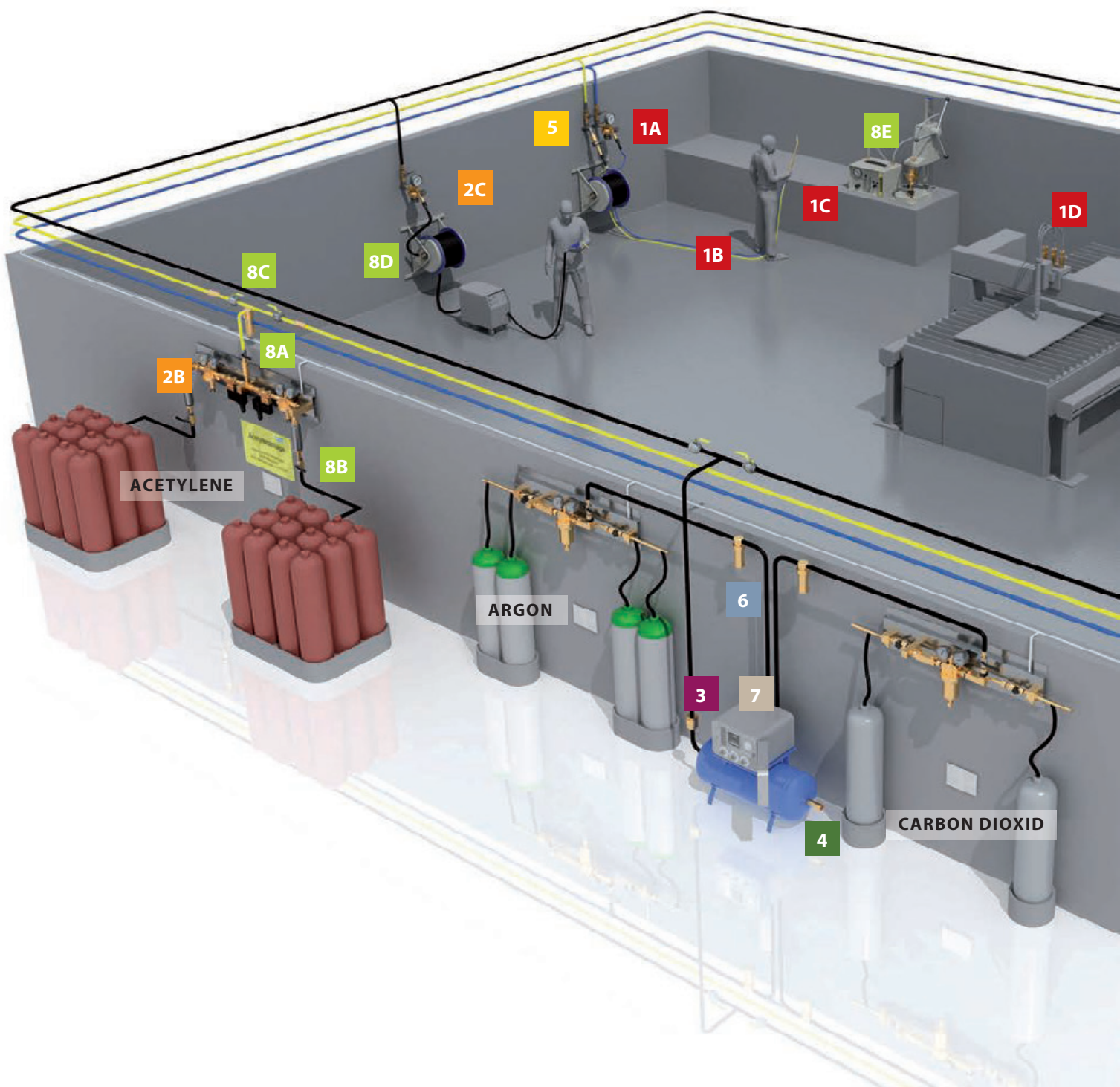
CENTRAL GAS SUPPLY SYSTEMS INCREASE SAFETY AND PRODUCTIVITY!

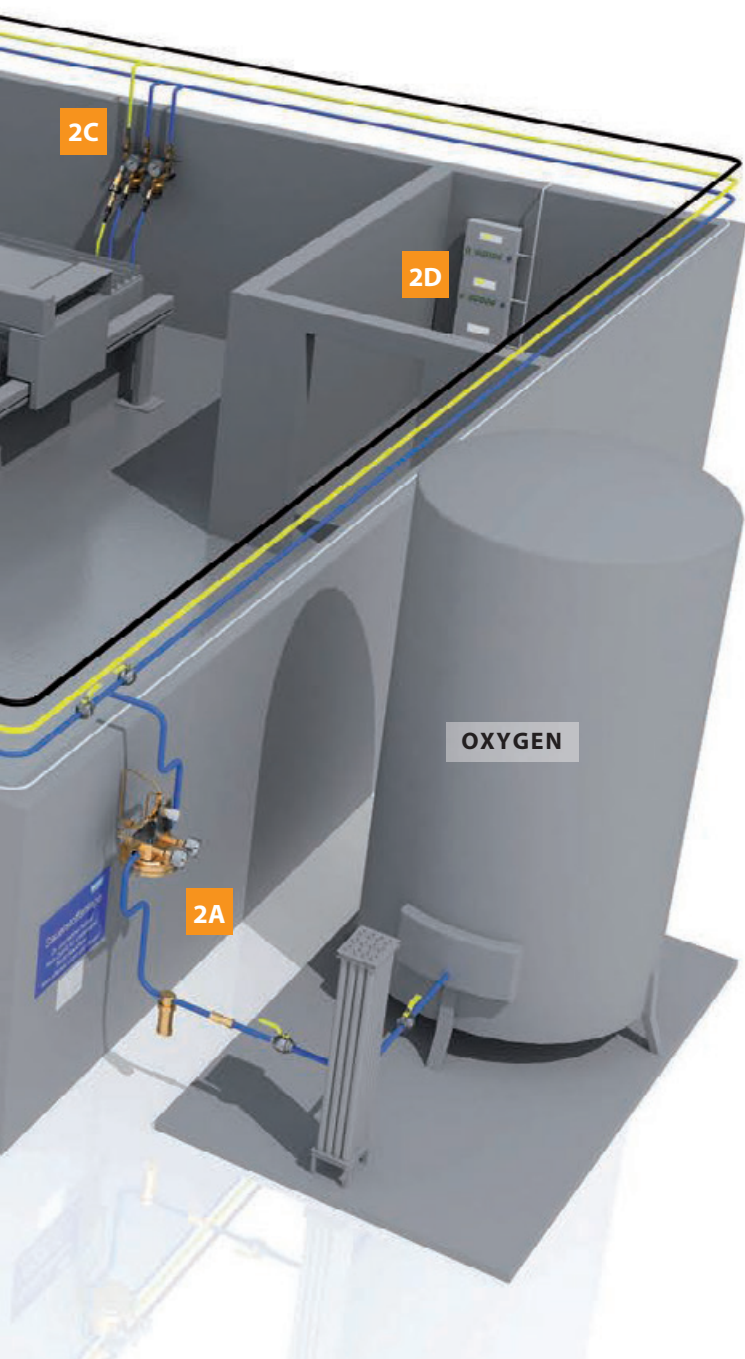
Continuous gas supply, improved safety by less transportation of gas cylinders, more space at the point of use, flexibility and expandability – central gas supply systems offer numerous benefits. Field-proven solutions by WITT ensure the optimal realisation from gas inlet to outlet point, from conception 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 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 3 mbarg–300 barg and flows between 0.01 m³/h–26,800 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:

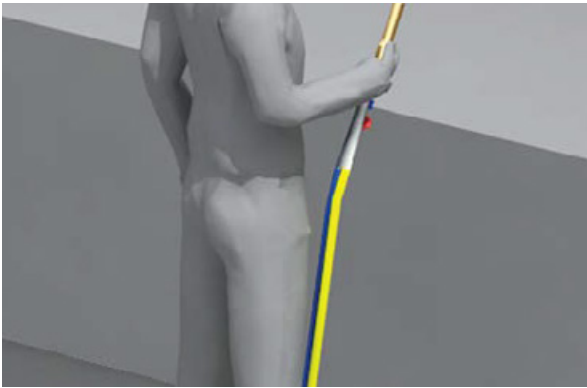
- Continuous gas supply and control of a pipeline
- With manual or automatic change-over
- Completely mounted and tested
- Compact design
- Reduces the risk of accidents



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 mbarg to 45 barg
- Compact size
- Installation independent of the orientation
- Protective dust cap
- Range of inlet connections
- Available in brass or stainless steel
- Also as a smart valve with visual indication of the status and digital signal for transmission to a network



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:

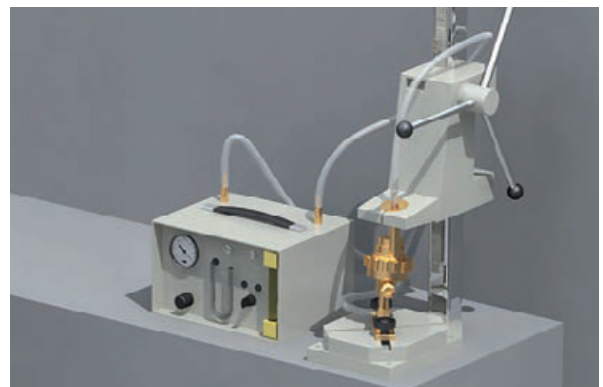
- For pipelines and gas outlet points. Some with condensation outlet
- For particles from 0.5–80 micron
- Diverse applications – useful for many technical gases
- High flow rates
- Extend the service life of downstream equipment – by reliable filtration performance
- Change of filter possible while installed
- 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 ₂)	LPG (P)	Hydrogen (H ₂)	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 barg / 13 m³/h	25 barg	5 barg	3 barg	5 barg	X	X	X	X		
		RF53DN		1,5 barg / 11,5 m³/h	10 barg	5 barg	3 barg	5 barg	X	X	X	X		X
		RF53NSK	quick connect (ISO 7289)	1,5 barg / 13 m³/h	20 barg	5 barg	3 barg	5 barg	X	X	X	X		
		85-10		1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X	X		
		85-20		2 barg / 45 m³/h	16 barg	4 barg	4 barg	4 barg	X	X	X	X		
		85-30		1,5 barg / 70 m³/h	25 barg	3,5 barg	4 barg	5 barg	X	X	X	X		
Nickel-plated		RF53N-ES		1,5 barg / 13 m³/h	25 barg	5 barg	3 barg	5 barg	X	X	X	X		
		RF53N/H-ES				8 barg	10 barg	12 barg	X	X	X	X		
		RF85-10N-ES		1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X	X		

Material		Model	Remarks	Gases / Max. working pressures / Flows					Safety elements					
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	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 barg	10 barg	10 barg	X	X	X	X		
		RF85-20N-ES		2 barg / 45 m³/h	16 barg	4 barg	4 barg	4 barg	X	X	X	X		
		RF85-30N-ES		1,5 barg / 70 m³/h	25 barg	3,5 barg	4 barg	5 barg	X	X	X	X		
		RF 85-30N/H-ES				5 barg	11 barg	8 barg	X	X	X	X		
		F100N-ES					17 barg			X		X		
Messing		Super 55	resettable only PV	1,5 barg / 10 m³/h	15 barg	5 barg	3 barg	5 barg	X	X	X	X		
		Super 90	resettable only PV	1,5 barg / 11 m³/h	10 barg	4 barg	5 barg	5 barg	X	X	X	X	X	
		Super 78	resettable only PV	1,5 barg / 11 m³/h	10 barg	4 barg	5 barg	5 barg	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 ₂)	LPG (P)	Hydrogen (H ₂)	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 barg / 20 m³/h	10 barg	5 barg	5 barg	5 barg	X	X	X	X	X	
		RF53N/30				3 barg		4 barg	X	X	X	X		
		85-10N/30				1,5 barg	0,2 barg	1,5 barg	X	X	X	X		
		270N 270 NU				2 barg	1,5 barg	3 barg		X	X	X		
		623N 623 NU				2 barg	1,5 barg	3,5 barg		X	X	X		

1 > FLASHBACK ARRESTORS | for hoses

Brass		E460-2	hose nipple	1,5 barg / 9 m³/h	20 barg	5 barg	4 barg	5 barg	X	X	X			
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Material		Model	Remarks	Gases / Max. working pressures / Flows					Safety elements					
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	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	1,5 barg / 9 m³/h	20 barg	5 barg	4 barg	5 barg	X	X	X			
		E460-3		1,5 barg / 9 m³/h	20 barg	5 barg	4 barg	5 barg	X	X	X			
		E460SK	quick connect (ISO 7289)	1,5 barg / 9 m³/h	20 barg	5 barg	4 barg	5 barg	X	X	X			
		E460SKU	quick connect (ISO 7289)	1,5 barg / 13 m³/h	20 barg	5 barg	4 barg	5 barg		X	X			
		RF53NU		1,5 barg / 13 m³/h	25 barg	5 barg	3 barg	5 barg	X	X	X	X		
		85-10NU		1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X	X		
		85-10NU (Excenter)	off-centre-nut	1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X	X		

Material		Model	Remarks	Gases / Max. working pressures / Flows					Safety elements					
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	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		E460-3		1,5 barg / 9 m³/h	20 barg	5 barg	4 barg	5 barg	X	X	X			
		RF53U		1,5 barg / 13 m³/h	25 barg	5 barg	2 barg	5 barg	X	X	X			
		85-10U		1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X			
		85-10NU (Excenter)	off-centre-nut	1,5 barg / 22 m³/h	25 barg	5 barg	4 barg	5 barg	X	X	X			

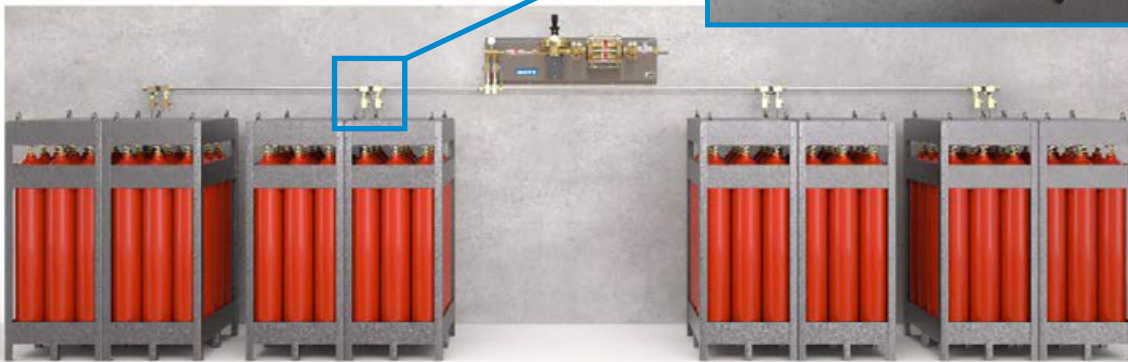
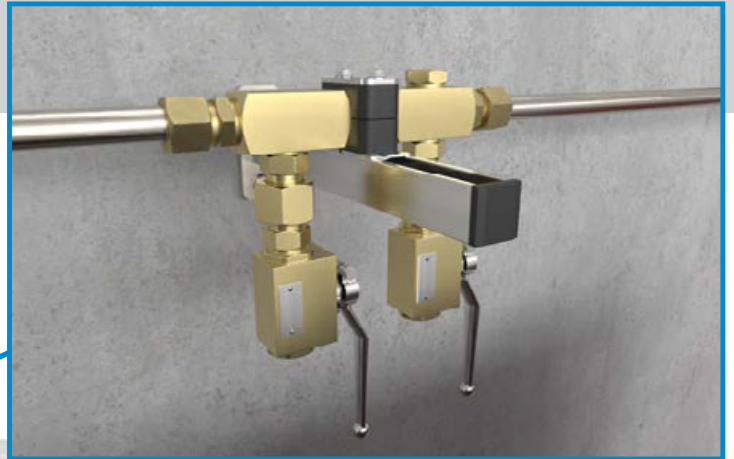
MORE SAFETY IS NOT POSSIBLE



Application		Model	Remarks	Gases / Max. working pressures / Flows						
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (N)	Argon (Ar)	Nitrogen (N ₂)
Dome pressure regulator		737LE-HD/S	Set including Pilot pressure regulator, inlet and back pressure gauge, connections up to G3", flange DN80/100		Max. inlet pressure 200 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 100 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65
		737LE/S 747LE/S 757LE/S 767LE/S			Max. inlet pressure 30 barg Outlet pressure 0,5-29 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 25 barg Outlet pressure 0,5-16 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-29 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30
		Smart Version Modell 747/757/767			Max. inlet pressure 30 barg Outlet pressure 0,5-29 barg Kv-Value = 3,6 / 15 / 30	Max. inlet pressure 25 barg Outlet pressure 0,5-16 barg Kv-Value = 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 3,6 / 15 / 30
		737LE-HD/S-ES	Set including Pilot pressure regulator, inlet and back pressure gauge, connections up to G3", flange DN80/100		Max. inlet pressure 30 barg Outlet pressure 0,5-29 barg Kv-Value = 1,65	Max. inlet pressure 100 barg Outlet pressure 0,5-26 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65	Max. inlet pressure 300 barg Outlet pressure 0,5-60 barg Kv-Value = 1,65
		737LE/S-ES 747LE/S-ES 757LE/S-ES 76LE/S-ES			Max. inlet pressure 30 barg Outlet pressure 0,5-29 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 25 barg Outlet pressure 0,5-16 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30	Max. inlet pressure 40 barg Outlet pressure 0,5-30 barg Kv-Value = 2,4 / 3,6 / 15 / 30
		ADR 75	Dome pressure regulator; 2,5 barg version available	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg (2,5 barg) Max. flow 75 m³/h						
		ADR 150	2 barg version available	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg (2 barg) Max. flow 150 m³/h						
		ADR 150 F	Spring loaded pressure regulator	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg Max. flow 150 m³/h						
Manifold pressure regulator		ADR 75	Dome pressure regulator; 2,5 barg version available	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg (2,5 barg) Max. flow 75 m³/h						
		ADR 150	2 barg version available	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg (2 barg) Max. flow 150 m³/h						
		ADR 150 F	Spring loaded pressure regulator	Max. inlet pressure 25 barg Outlet pressure 0-1,5 barg Max. flow 150 m³/h						

Application		Model	Remarks	Gases / Max. working pressures / Flows						
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Argon (Ar)	Nitrogen (N ₂)
Pressure regulator stations		684 NG	Manual or automatic change-over (WITT Switch)	Max. inlet pressure 25 barg	Max. inlet pressure 300 barg	Max. inlet pressure 75 barg	Max. inlet pressure 300 barg	Max. inlet pressure 300 barg	Max. inlet pressure 25 barg	Max. inlet pressure 25 barg
		684NGA		Outlet pressure 0–1,5 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg
				Max. flow 10 m³/h	Max. flow 75 m³/h	Max. flow 75 m³/h	Max. flow 75 m³/h	Max. flow 75 m³/h	Max. flow 75 m³/h	Max. flow 75 m³/h
		386N	Manual or automatic change-over (WITT Switch)	Max. inlet pressure 25 barg	Max. inlet pressure 300 barg	Max. inlet pressure 75 barg	Max. inlet pressure 300 barg	Max. inlet pressure 300 barg	Max. inlet pressure 300 barg	Max. inlet pressure 300 barg
		386NGA		Outlet pressure 0–1,5 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg	Outlet pressure 0–20 barg
				Max. flow 30 m³/h–75 m³/h	Max. flow 200 m³/h	Max. flow 75 m³/h	Max. flow 200 m³/h	Max. flow 200 m³/h	Max. flow 200 m³/h	Max. flow 200 m³/h
		150NF	Manual or automatic change-over (Switch-Tronic)	Max. inlet pressure 25 barg Outlet pressure 0–1,5 barg Max. flow 150 m³/h						
		150N								
		150NA								
		WITT Switch	Automatic control unit for pressure regulating stations							
Outlet points		503			16 barg	16 barg	16 barg	16 barg	16 barg	16 barg
		603		1,5 barg	40 barg	40 barg	40 barg	40 barg	40 barg	40 barg
		610			40 barg	40 barg	40 barg	40 barg	40 barg	40 barg

HIGH PRESSURE PIPING ON CUSTOMER REQUEST



MAXIMUM PRECISION AND CONSISTENCY FOR YOUR GAS PRESSURE



Material		Model	Remarks	Gases / Max. working pressures							
				Opening pressure	Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Nitrogen (N ₂)	Connection
Brass		654		30 mbarg		30 barg	60 barg	60 barg	60 barg	60 barg	G 1/8
		NV 100		30 mbarg	1,5 barg	25 barg	25 barg	25 barg	25 barg	25 barg	G 1/8–G 1/8
		ULTRA 10		4 mbarg	1,5 barg	16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2
		ULTRA 12	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2
		ULTRA 20		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2–G 1 1/2"–1" NPT
		ULTRA 22	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	4 mbarg	1,5 barg	16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2–G 1 1/2"–1" NPT
		600H		250 mbarg	1,5 barg	40 barg	40 barg	40 barg	40 barg	40 barg	G 1/2–G 1
		70		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 3/4–G 1 1/2
		70U		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 3/4–G 1 1/2

Material		Model	Remarks	Gases / Max. working pressures							Connection
				Opening pressure	Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Nitrogen (N ₂)	
Brass		NV300		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1-G 1.1/4
		ULTRA 30		5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 1.1/2 1.1/2" NPT
		ULTRA 32	free combination of materials for housing (brass, stainless steel, aluminum) and seal(NBR/CR, FPM/FKM, EPDM/FFKM)	5 mbarg	1,5 barg	20 barg	20 barg	20 barg	20 barg	20 barg	G 1.1/2 1.1/2" NPT
		NV 400		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1-G 1.1/4
		NV 400 intermediate flange		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	DN 40/50
		ULTRA 40		5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 2.1/2 2.1/2" NPT
		ULTRA 42	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM,EPDM/FFKM)	5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 2.1/2 2.1/2" NPT

**ULTRA PERFORMANCE
NOW AS STANDARD**



Material		Model	Remarks	Gases / Max. working pressures							Connection
				Opening pressure	Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Nitrogen (N ₂)	
Steel		NV 800		6-8 mbarg		10 barg	10 barg		10 barg	10 barg	DIN Flange DN65-DN100
		NV 2000		5 mbarg			10 barg		10 barg	10 barg	DIN Flange DN80 / DN100-200
Stainless steel		654-ES		30 mbarg		30 barg	60 barg	60 barg	60 barg	60 barg	G 1/8
		NV 100-ES		30 mbarg			25 barg	25 barg	25 barg	25 barg	G 1/8
		ULTRA 10		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2 1/2" NPT
		ULTRA 12	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2 1/2" NPT
		ULTRA 20		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2-G1 1/2"-1" NPT
		ULTRA 22	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	4 mbarg	1,5 barg	16 barg	16 barg	16 barg	16 barg	16 barg	G 1/2-G1 1/2"-1" NPT
		600H-ES		250 mbarg	1,5 barg	40 barg	40 barg	40 barg	40 barg	40 barg	G1/2-G1

Material		Model	Remarks	Gases / Max. working pressures							Connection
				Opening pressure	Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Nitrogen (N ₂)	
Stainless steel		NV300-ES		4 mbarg		16 barg	16 barg	16 barg	16 barg	16 barg	G 1-G 1.1/4
		ULTRA 30		5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 1.1/2 1.1/2" NPT
		ULTRA 32	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	5 mbarg	1,5 barg	20 barg	20 barg	20 barg	20 barg	20 barg	G 1.1/2 1.1/2" NPT
		NV 400-ES		4 mbarg			16 barg	16 barg	16 barg	16 barg	G 1.1/2-G 2
		ULTRA 40		5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 2.1/2 2.1/2" NPT
		ULTRA 42	free combination of materials for housing (brass, stainless steel, aluminum) and seal (NBR/CR, FPM/FKM, EPDM/FFKM)	5 mbarg		20 barg	20 barg	20 barg	20 barg	20 barg	G 2.1/2 2.1/2" NPT
		800-ES		1 barg		240 barg		300 barg		300 barg	1/4" NPT

**A SAFE GAS SUPPLY WITH
NON RETURN VALVES**



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	Single certification (Modul F)
Brass		SV 805	CE-marked according to PED 2014/68/EU CE0045	0,5 barg–45 barg	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 with venting adapter	0,5 barg–45 barg	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT			X	X	X
		SV 805 SMART	CE-marked according to PED 2014/68/EU CE0045	0,5 barg–45 barg	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT			X	X	X
		AV 319		10 mbarg–80 mbarg	G 1/8	G 1/8					X (optional)
		AV 619		5 mbarg–< 500 mbarg	G 1/2–G 1	G 1/2–G 1	X	X		X	X (optional)
Stainless steel		SV 805-ES	CE-marked according to PED 2014/68/EU CE0045	0,5 barg–45 barg	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 with venting adapter	0,5 barg–45 barg	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT			X	X	X
		SV 805-ES SMART	CE-marked according to PED 2014/68/EU CE0045	0,5 barg–45 barg	G 1/4–G 3/4 1/4" NPT–3/4" NPT	1/2" NPT	X			X	X
		319-ES		10 mbarg–80 mbarg	G 1/2–G 1	G 1/2–G 1		X			X (optional)

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	Single certification (Modul F)
Stainless steel		AV 619-ES		5 mbarg- < 500 mbarg	G 1/2- G 1	G 1/2- G 1		X			X
		AV919-ES		5 mbarg- < 500 mbarg	G 2	G 2					X
Aluminium anodized		AV 919		5 mbarg- < 500 mbarg	G 2	G 2					X

THE MOST EFFECTIVE PROTECTION AGAINST OVERPRESSURE



Application		Model	Remarks	Gases / Max. working pressures /Flows					Safety elements		
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Other gases / inert gases	Inlet Gas Filter – depending on connection	Non-Return Valve (NV)
Couplings for torch, hose, outlet point		SK100-1/-2 body	With automatic cut-off valve	1,5 barg / 12,5 m³/h	20 barg	20 barg	20 barg	20 barg	20 barg	X	X
		SK100-3 body	With automatic cut-off valve	1,5 barg / 12,5 m³/h	20 barg	20 barg	20 barg	20 barg	20 barg		
		Keymark coupling	With automatic cut-off valve	1,5 barg / 12,5 m³/h	20 barg	20 barg	20 barg	20 barg	20 barg		
		SK100-1 probe		1,5 barg / 12,5 m³/h	20 barg	20 barg	20 barg	20 barg	20 barg		
		SK100-2/-3 probe		1,5 barg / 12,5 m³/h	20 barg	20 barg	20 barg	20 barg	20 barg		

Application		Model	Remarks	Gases / Max. working pressures / Flows					
				Acetylene (A)	Oxygen (O ₂)	LP6 (P)	Hydrogen (H ₂)	Natural Gas (M)	Carbon dioxide (CO ₂)
Gas Filter outlet points		622	fineness 40 micrometer	1,5 barg / 62 m³/h	16 barg	16 barg	16 barg	16 barg	
Gas Filter for pipelines		77 with brass-elements	Bronze filter element, fineness 5 or 50 micrometer, condensate drain		40 barg	50 barg	50 barg	50 barg	25 barg
		77	Nickel chromium filter element, fineness 0,5, 7-10 or 40 micrometer	1,5 barg / 312 m³/h	30 barg	50 barg	50 barg	50 barg	25 barg
		625	Condensate outlet fineness 40 micrometer	1,5 barg / 458 m³/h	10 barg	25 barg	25 barg	25 barg	
Stainless steel		HD Gas Filter	Nickel chromium filter element, fineness 30 or 80 micrometer	25 barg	50 barg	300 barg	300 barg	300 barg	100 barg
		LE6	Bronze filter element, fineness 15 micrometer		30 barg	40 barg	40 barg	40 barg	25 barg

	Model	Remarks	For all technical gases				
			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 barg	20 barg	43 m³/h	0–100 %	better +/- 1% abs.
 	MG 50 – MG 500	For 2 or 3 Gases. Option: mounted on buffer tank	3 barg	20 barg	100 m³/h– 940 m³/h	0–25 % or 0–100 %	better +/- 1% abs.

Application		Model	Remarks	Gases / Max. working pressures / flows						
				Acetylene (A)	Oxygen (O ₂)	LPG (P)	Hydrogen (H ₂)	Natural Gas (M)	Flame Arrestor (FA)	Temperature activated Cut-off Valve (TV)
Decomposition Arrestors		FN12 / FN40		1,5 barg / 63,4 m³/h 1,5 barg / 119 m³/h					X	X
Automatic slam shut valve		HDS 17	Pressure regulated	25 barg / 195 m³/h						
Ball valve		DN6 – DN100		Pressures on request						
Hose reel		DS Automatik	Safety hose reel for fuel gases and oxygen. Different sizes available	X	X	X	X	X		
Test equipment		722 / 743	For flashback arrestors and non-return valves							



/ TECHNOLOGY FOR GASES /

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