

Then choose WITT for stainless steel valves and accessories. For hydrogen, corrosive gases or pure gas applications.



**DO YOU REQUIRE HIGHEST STANDARDS FROM YOUR GAS SAFETY EQUIPMENT?**

HOLGER KOVAC: SALES MANAGER – WITT-GASETECHNIK

# HIGH QUALITY GAS SUPPLY WITH WITT STAINLESS STEEL SAFETY DEVICES.



WITT-Gasetechnik offers a wide range of stainless steel flashback arrestors, non-return valves, safety relief valves and gas filters. WITT stainless steel safety devices are of highest quality and very robust and are suitable for hydrogen applications as well as with pure or corrosive gases or when used in corrosive environments.

WITT offers safety equipment you can trust and rely on. State of the art manufacturing technologies, premium stainless steel (e.g. 1.4305/AISI 303, 1.4404/AISI 316L, 1.4541/AISI 321) and a sophisticated quality management system guarantee highest quality. WITT products meet all relevant international standards – for your safety.

With a highly skilled workforce and extensive know-how WITT offers highest level of expertise even for special applications. With complete development and manufacturing from a single source we can rapidly respond to your demands. Talk to us about your requirements. We will provide your individual safety solutions.

## › OUR PORTFOLIO

- FLASHBACK ARRESTORS
- NON-RETURN VALVES
- SAFETY RELIEF VALVES
- GAS FILTERS
- DOME-LOADED PRESSURE REGULATORS



› **APPLICATIONS FOR STAINLESS STEEL DEVICES**

- **HYDROGEN**  
Automotive industry  
Fuel cells  
Power generation
- **PURE GASES**  
Food industry  
Pharmaceutical industry  
Chemical industry  
Glass industry  
Research facilities
- **CORROSIVE GASES / ENVIRONMENTS**  
Biogas plants  
Petrochemical industry









**WITT – BECAUSE YOUR SAFETY COMES FIRST!**

# FLASHBACK ARRESTORS



WITT flashback arrestors are used to protect the gas supply and can be used for almost all technical gases. By combining all established safety elements flashback arrestors provide protection against flashbacks and backfire. Flashback arrestors also prevent the formation of dangerous gas mixtures within the pipeline.

- Combination of flame arrestor, non-return valve and thermal cut-off for optimal protection
- Extinguish dangerous flashbacks or backfire
- Avoid explosive mixtures in the gas supply
- Depending on requirements, individual selection of safety features possible
- For fuel gases and oxygen
- Installation independent of the orientation
- Long durability
- Variety of connections available







Model	Remarks	Gases / Max. working pressures / Flows							Inlet Gas Filter	Safety elements			Connections Depending on model			
		Opening pressure	Acetylene (A)	Ethylene (E)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)		Flame Arrestor (FA)	Non-Return Valve (NV)	Temperature activated Cut-off Valve (TV)	Threads	Sizes		
RF53N-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 30 mbar 0.43 psi	1.5 bar / 10.6 m³/h 21 psi / 374 scfh		25 bar 362 psi	5 bar 72 psi	3 bar 43 psi	5 bar 72 psi	✓	✓	✓	✓	G/BSP NPT Rc UNF VCR	1/4" – 1.1/2"		
RF53N/H-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 30 mbar 0.43 psi				8 bar 116 psi	9 bar 130 psi	12 bar 174 psi	✓	✓	✓	✓				
RF85-10N-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 30 mbar 0.43 psi	1.5 bar / 19.7 m³/h 21 psi / 695 scfh	5 bar 72 psi	25 bar 362 psi	5 bar 72 psi	4 bar 58 psi	5 bar 72 psi	✓	✓	✓	✓				
RF85-10N/H-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 30 mbar 0.43 psi		9 bar 130 psi		5 bar 72 psi	10 bar 145 psi	10 bar 145 psi	✓	✓	✓	✓				
RF85-20N-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 4 mbar 0.06 psi	1.5 bar / 43.5 m³/h 21 psi / 1,536 scfh	4 bar 58 psi	16 bar 232 psi	4 bar 58 psi	4 bar 58 psi	4 bar 58 psi		✓	✓	✓				
RF85-30N-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 10 mbar 0.14 psi	1.5 bar / 66.5 m³/h 21 psi / 2,347 scfh	4 bar 58 psi	25 bar 362 psi	3.5 bar 51 psi	4 bar 58 psi	5 bar 72 psi	✓	✓	✓	✓				
RF85-30N/H-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045	ca. 10 mbar 0.14 psi	1.5 bar / 66.5 m³/h 21 psi / 2,347 scfh		25 bar 362 psi	3.5 bar 50 psi	11 bar 159 psi	5 bar 72 psi	✓	✓	✓	✓				
F100N-ES	 EN 730-1, ISO 5175 CE-marked according to PED 97/23/EG CE0045						17 bar 246 psi	17 bar 246 psi		✓		✓				Other connections on request

# NON-RETURN VALVES



WITT non-return valves protect pipelines and outlet points against reverse gas flow. A wide range of dimensions and flow rates is available. The sophisticated valve technology of WITT non-return valves provides small pressure drops making them also suitable for applications with smallest operating pressures.

- Avoid the formation of explosive mixtures in the gas supply
- Maximum working pressures: 40 bar / 300 bar (580 psi / 4,351 psi)
- For all technical gases – wide range of applications
- Low pressure drops – using complex valve assembly with low opening pressures (4 mbar / 0.06 psi)
- Sophisticated valve design using elastomer sealings for leak tightness and long service life
- Installation independent of the orientation
- Variety of connections available

Model	Remarks	Opening pressure	Gases / Max. working pressures						Connection Depending on model	
			Acetylene (A)	Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Neutral Gas	Threads	Sizes
654		ca. 30 mbar 0.43 psi		30 bar 435 psi	60 bar 870 psi	60 bar 870 psi	60 bar 870 psi	60 bar 870 psi	G/BSP NPT Rc	1/4" - 2"
600-ES		ca. 4 mbar 0.05 psi	1.5 bar 21 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi		
600H-ES	 DVGW NG-4390 AL0030	ca. 250 mbar 3.62 psi	1.5 bar 21 psi	40 bar 580 psi	40 bar 580 psi	40 bar 580 psi	40 bar 580 psi	40 bar 580 psi		
338-ES	 DVGW NG-4390 BM0278	ca. 6 mbar 0.08 psi		16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi		
339-ES	 Burn-out safety with oxygen	ca. 5 mbar 0.07 psi		16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi	16 bar 232 psi		
800-ES		ca. 1 bar 0.014 psi		240 bar 3,480 psi		300 bar 4,351 psi		300 bar 4,351 psi		

# SAFETY RELIEF VALVES



WITT safety relief valves protect against over pressure by venting excess gases from pipelines, gas receivers and other equipment. The spring-loaded, direct action relief valves are suitable for individual opening pressures from 5 mbar to 45 bar (0.07 psi to 652 psi). The compact size allows easy installation in any orientation and makes the valves suitable for many applications.

- Spring-loaded, direct action relief valves
- Individual opening pressure from 5 mbar to 45 bar (0.07 psi to 652 psi)
- For all technical gases – wide range of applications
- Compact size
- Installation independent of the orientation
- Protective dust cap
- Variety of connections available
- High blow-off volume up to approx. 970 m<sup>3</sup>/h / 34,240 scfh
- Diverse applications for all technical gases in the temperature range from -60°C to + 270 °C / -76 °F to 518 °F (varies depending on model and type of gas)
- TÜV certificate verifies the individually set opening pressure on request








Model	Remarks	Technical information				Features			Certificates
		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
SV805-ES	For gas receivers and pipelines CE-marked according to PED 97/23/EG CE0045	> 0.5–45 bar 7–652 psi	Depending on model  Threads G/BSP NPT VCR	M24 × 1	✓			✓	Module B+D
SV805A-ES	For gas receivers and pipelines CE-marked according to PED 97/23/EG CE0045	> 0.5–45 bar 7–652 psi	Sizes 1/4"–1"	1/2" NPT			✓	✓	Module B+D
AV619-ES		> 5– < 500 mbar 0.07– < 7.25 psi	Sizes 1/4"–1.1/2"	G 1/2"–1" 1/2"– 1" NPT		✓			Module H
SV811	For hydrogen vehicles EG 79/2009 CE-marked according to PED2014/68/EU CE0045	4.5–25 bar 25–45 bar 65–362 psi 362–652 psi	Other connections on request	M24 × 1				✓	Module B+D
AV919-ES		> 5– < 500 mbar 0.07– < 7.25 psi		G 2" 2" NPT					Module H
AV 319-ES		10–80 mbar 0.14–1.16 psi		G1/8"	G1/8"				Module B+D


## DOME-LOADED PRESSURE REGULATORS



Dome-loaded pressure regulators for installation in pipelines are particularly suitable for fluctuating or high flow rates at low gas pressure drops. High pressure stability guarantees a constant gas concentration and quality of the downstream processes. WITT dome-loaded regulators are available for inlet pressures up to 300 bar (4,351 psi) and provide pressure regulation from 500 mbar to 60 bar (7.25 up to 870 psi). The dome-loaded regulators are operated in combination with a pilot pressure regulator or a proportional valve for adjusting the required working pressure. High flow rates (up to Kv value 30)

- Inlet pressures of up to 300 bar (4,351 psi)
- Outlet pressures between 500 mbar and 60 bar (7.25 psi and 870 psi)
- Useable for almost all gases including for corrosive and aggressive mediums
- Different connections
- Wall bracket (optional)
- Filter for long durability (optional)
- All models available as a ready-to-install completely mounted and tested set

Model	Kv value	Max. inlet pressure	Max. inlet pressure O <sub>2</sub>	Max. inlet pressure CO <sub>2</sub>	Outlet pressure	Connections
767LE 	30	40 bar 580 psi	30 bar 435 psi	25 bar 363 psi	0.5–30 bar 7–435 psi	G3" F DIN/ANSI-flange
757LE 	15	40 bar 580 psi	30 bar 435 psi	25 bar 363 psi	0.5–30 bar 7–435 psi	G2" F DIN/ANSI-flange
747LE 	3.6	40 bar 580 psi	30 bar 435 psi	25 bar 363 psi	0.5–30 bar 7–435 psi	G1" F DIN/ANSI-flange
737LE 	2.4	60 bar 870 psi	60 bar 870 psi	25 bar 363 psi	0.5–10 bar 7–145 psi	G3/4" F
737LE-HD 	1.65	300 bar 4,351 psi	200 bar 2,901 psi	60 bar 870 psi	2–50 bar 29–725 psi	G3/4" F

Modell	Concinnity	Gases / Max. working pressures					Connection
		Oxygen (O)	LPG (P)	Hydrogen (H)	Natural Gas (M)	Neutral Gas	
HD gas filter 	30 µm / 80 µm	50 bar 725 psi	275 bar 3,988 psi	275 bar 3,988 psi	275 bar 3,988 psi	275 bar 3,988 psi	G 3/4" F

## 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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