



CERTIFICATE

BAM/ZBA/003/04 (16th Revised version)

The BAM Certification Body hereby certifies that the

Safety devices and quick-action couplings

with the designations and terms of application listed in the annex to this certificate of the manufacturer

WITT-GASETECHNIK GmbH & Co. KG
Salinger Feld 4-8
58454 Witten
Germany

meet the requirements of the standards:

DIN EN ISO 5175-1:2018 "Gas welding equipment - Safety devices - Part 1: Devices incorporating a flame (flashback) arrestor"

DIN EN 561:2002 "Gas welding equipment - Quick-action couplings with shut-off valves for welding, cutting and allied processes"

additionally in compliance with the BAM-standard operating procedures:

BAM-StAA-SE-16 "Test for resistance to solvents for non-metallic materials"
dated 14.11.2017

BAM-StAA-SE-18 „Test for resistance to ageing in oxygen for non-metallic materials“ dated 12.04.2018

BAM-StAA-SE-19 „Test of pressure-sensitive cut-off valve for quick opening“
dated 8.12.2020

The test reports and procedures listed in the annex to this document form the basis of this certificate. According to ISO/IEC 17065:2012 the certification comprises a design type test of the products, incl. initial audit of the manufacturing site as well as a surveillance of the products (BAM certification system II). The certification and surveillance procedures are set out in contract **N° BAM-ZBF-0004-2022-WITT**, incl. its annexes. The products certified by BAM may be labelled with the BAM certification mark „BAM Geprüft und überwacht“ and/or “BAM Certified and under surveillance“ together with the certificate number.

The certificate is valid until **31 December 2024**.

Bundesanstalt für Materialforschung und -prüfung (BAM)
Unter den Eichen 87,12200 Berlin, **2024-01-31**

By order

Dr. St. Aris
BAM Certification Officer

This document was created electronically and is valid without a signature.

This certificate consists of 1 page and 1 Annex.

This certificate may only be published in full wording and without any additions. The revocable written consent shall be obtained from BAM beforehand for changed reproduction and excerpts. The German version is legally binding, except an English version is issued exclusively. Place of jurisdiction is Berlin.

Annex: Products of Company WITT Gasetechnik within the scope of certificate No. BAM/ZBA/003/04, 16th Revised Version

1 Safety devices according to DIN EN ISO 5175-1:2018

The safety devices listed below comply with the requirements of DIN EN ISO 5175-1:2018, at the operating conditions specified in the following table.

Furthermore, the safety devices listed below comply with the extensions of paragraph 4.2 "Materials" of DIN EN ISO 5175-1:2018, which are specified within the following BAM Standard Operating Procedures

- BAM-StAA-SE-16 "Test for resistance to solvents for non-metallic materials" dated 14.11.2017 and
- BAM-StAA-SE-18 „Test for resistance to ageing in oxygen for non-metallic materials“ dated 12.04.2018.

Furthermore, the listed safety devices insofar applicable fulfill the BAM Standard Operating Procedure

- BAM-StAA-SE-19 „Test of pressure-sensitive cut-off valve for quick opening“ dated 8.12.2020

Additionally, the non-metallic materials were positively tested for the application in gaseous oxygen, for the maximum working overpressures listed below as well as the maximum temperature of 60°C (testing for reactivity with oxygen under the influence of oxygen pressure surges).

Type series "Super"

The following BAM procedure numbers cover all the types listed of this series: BZS-GS/116/16, BZS-GS/027/21; BZS-GS/032/21, BZS-GS/008/22, BZS-GS/044/22; BZS-GS/018/23; BZS-GS/034/23

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)				
			acetylene	propane	methane	O ₂ /compressed air	H ₂
Super 66	10	12025/86; 4-4040 dated 1987-03-31 II-5127/99 dated 2000-03-01; BZS-GS/027/21 21047408-I dated 2022-12-19	0.2*	0.5	0.5		0.5
Super 66						1.0	
Super 78	10	7329/88; 4-2465 dated 1989-03-10 II-5127/99 dated 2000-03-01 21047408-II dated 2023-12-11	0.15	0.4	0.5		0.4
Super 78						1.0	
Super 55	10	II-3940/2003 dated 2003-12-01; II-1099/2006 I dated 2006-05-16; 2-252/2012 dated 2012-02-06	0.15	0.5	0.5		0.3
Super 55						1.5	

* In DIN EN ISO 5175-1:2018 the max. test pressure for acetylene is 0,15 MPa, therefore the test with 0,2 MPa acetylene was carried out not according but "in the style" of DIN EN ISO 5175-1:2018.

Type series "E 460 / E 300"

The following BAM procedure numbers cover all the types listed of this series: BZS-GS/116/16, BZS-GS/032/21, BZS-GS/008/22.

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)					
			acetylene	propane	propene	methane	O ₂ / compressed air	H ₂
E 460	10	12026/86; 4-4041 dated 1986-12-11 7729/88; 4-2607 dated 1988-09-28 597/98; II-542 dated 1998-02-19 II-603/2005 I; II.1/48001 dated 2005-07-20	0.15	0.5	0.5	0.5		0.4
E 460							2.0	
E 300	10	2-2791/2011 I dated 2011-12-16	0.15	0.5	0.5	0.5		0.4
E 300							2.5	

Type series "35"

The following BAM procedure numbers cover all the types listed of this series: BZS-GS/116/16, BZS-GS/032/21, BZS-GS/044/22.

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)			
			acetylene	propane	methane	O ₂ / compressed air
35TM	10	2-680/2014 dated 2014-11-20; GS-BZS/025/17	0.15	0.4	0.4	
35TM						2.0

Type series "85-10"

The following BAM procedure numbers cover all the types listed of this series: BZS-GS/116/16, BZS-GS/032/21, BZS-GS/008/22.

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)					
			acetylene	propane	methane	ethylene	O ₂ / compressed air	H ₂
85-10	10	14146/84; 4-5145 dated 1985-04-17 6018/87; 4-2125 dated 1987-09-07 II-5172/99 dated 2000-03-14;	0.15	0.5	0.5			0.4
85-10							2.5	
RF 85-10 N/H	10	II-2000/2006 dated 2006-07-25		0.5	1.0	0.5		1.0

Type series „RF 53“

The following BAM procedure numbers cover all the types listed of this series: BZS-GS/116/16, BZS-GS/032/21, BZS-GS/008/22.

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)					
			acetylene	propane	methane	ethylene	O ₂ / compressed air	H ₂
RF 53	10	4-1544/85 dated 1985-04-29 II-5127/99 dated 2000-03-14; BZS-GS/065/20 (20022469-I dated 21.09.2020)	0.15	0.5	0.5			0.2
RF 53							2.5	
RF 53 DN	10	4-1544/85 dated 1985-04-29 II-5127/99 dated 2000-03-14	0.15	0.3	0.5			0.3
RF 53 DN							1.0	
RF 53 N	10	4-1544/85 dated 1985-04-29 II-5127/99 dated 2000-03-14	0.15	0.5	0.5			0.3
RF 53 N							2.5	
RF 53 N/H	10	II-4295/2003 VI dated 2004-04-30		0.8		0.5		0.9
RF 53 NSK	10	4-1544/85 dated 1985-04-29	0.15	0.5	0.5			0.3
RF 53 NSK							2.0	
Safehex	10	2-2791/2011 II dated 2011-12-16	0.15	0.5	0.5			0.3
Safehex							2.0	

Type series "85-30"

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)				
			acetylene	propane	methane	O ₂ / compressed air	H ₂
85-30	40	6247/90; 4-2230 dated 1990-09-13; II-1639/2000 dated 2000-06-08; 2-1871/2011 dated 2012-01-05	0.15	0.35	0.5		0.4
85-30							2.5

2 Quick-action couplings according to EN 561:2002

The quick-action couplings listed in the following meet the requirements of DIN EN 561:2002, at the operating conditions specified in the following table.

The compliance with the requirements of paragraph 6.5, is extended within BAM Standard Operating Procedures

- BAM-StAA-SE-16 "Test for resistance to solvents for non-metallic materials" dated 14.11.2017 and
- BAM-StAA-SE-18 „Test for resistance to ageing in oxygen for non-metallic materials“ dated 12.04.2018.

Additionally, the non-metallic materials were positively tested for the application in gaseous oxygen, for the maximum working overpressures listed below as well as the maximum temperature of 60°C (testing for reactivity with oxygen under the influence of oxygen pressure surges).

Type series "SK100"

Type and/or design	max. connectable inner tube/hose diameter in mm	BAM test report	max. working overpressure in MPa (labelled)		
			fuel gases	acetylene	oxygen
SK100		II-4855/99 dated 2000-02-22 II-1260/2005; BZS-GS/083/05;	2.0	0.15	
SK100	10	BZS-GS/032/21; BZS-GS/044/22			2.0