



INSTYTUT NAFTY I GAZU – Państwowy Instytut Badawczy

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AC 010

NATIONAL CERTIFICATE OF CONSTANCY OF PERFORMANCE AC010 - UWB - 0045

In compliance with Regulation issued by Minister of Infrastructure and Construction of 17th November 2016 r. on the method of declaring the performance of construction products and method of marking them with the construction mark (Polish Journal of Laws of 2023 item 873 – consolidated text) this certificate applies to the construction product:

**Compression fittings for gas installations
made of copper and copper alloys
Gutpress Gas M and Gutpress Gas V**

(product performances, designated use and types of products listed on pages 2÷4)

covered by national technical assessment

INiG-PIB-KOT-2024/0051 wyd. 3

placed on the market under the name or trade mark of:

**BESCO GmbH
Breuershofstraße 14, 47807 Krefeld, Niemcy**

and produced in the manufacturing plants indicated on pages 2÷4

This certificate attests that all provisions resulting from national system 1 concerning the AVCP in relation to the performance of product described in above national technical assessment are applied and that:

**the manufacturer has implemented the system of factory production control in order
to maintain the constancy of performance**

This certificate has been issued on **13-08-2024**, and modified on **22-08-2024** and **will remain valid until 25-01-2029**, as long as neither the national technical assessment for the product, the AVCP methods, construction product itself nor the manufacturing conditions are modified significantly, unless suspended or withdrawn by the accredited certification body.

Certification Office Manager

Magdalena Swat



Gas Engineering Division Deputy Director
of Instytut Nafty i Gazu
- Państwowy Instytut Badawczy

Ewa Kukulska-Zajac

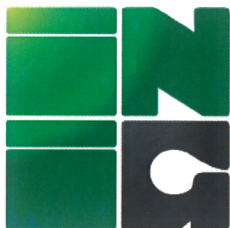
Kraków, 22-08-2024



Technical parameters	
Trade name:	Compression fittings for gas installations made of copper and copper alloys Gutpress Gas M and Gutpress Gas V
Measuring series:	Gutpress Gas M: DN12(d15) up to DN32(d35). Gutpress Gas V miedź /copper CuDHP: DN12(d15) up to DN32(d35) Gutpress Gas V brąz/ bronze CC499K DN12(d15) up to DN25(d28)
product varieties:	Couplers, 45° and 90° double-socket bends, 45° and 90° single-socket bends, single-socket reducing couplers, end cups, equal and reducing tees, 90° elbows with internal thread, 90° elbows with external thread, 90° connection elbows with internal thread, transition fittings with external and internal thread, tees with internal thread,
Materials:	Gutpress Gas M: Copper CW024A acc. to PN-EN 12449+A1:2020-03; Brass CW511L acc. to PN-EN 12164:2016-10; Gutpress Gas V: Copper CW024A acc. to PN-EN 12449+A1:2020-03; Bronze CC499K acc. to PN-EN 1982:2017-10; Sealing type O-ring made of elastomer HNBR TEC H16 GI-70 yellow colour, class H3/C3 acc to PN-EN 549:2019-10 Pipes with hardness R250 should be used in the diameter range up to DN25(d28), and pipes with hardness R290 should be used in the diameter range up to DN32(d35);
Connections:	The fittings have R, Rp threaded connections in sizes ½", ¾", 1", 1¼" according to PN-EN 10226-1:2006.
Intended use	
to construct gas installations acc. to Regulation of the Minister of Infrastructure of 12 April 2002 on technical conditions for buildings and their location (Polish Journal of Laws consolidated text 2022 item 1225), supplied by gaseous fuels acc. to PN-C-04750:2011 at MOP 5, within the scope of temperatures-20°÷ +70°.	



Essential characteristics	Product performances
Tightness under the action of internal pressure	no permanent deformation, no leaks
Tightness of fittings' bodies (cast and manufactured using soldering or welding)	no leaks
Tensile strength	maintaining the connection of elements and no leaks
Bending strength	no permanent deformation, no leaks
Resistance to temperature change	no leaks
Resistance to vibrations	no leaks
Fittings dimensions: - minimum wall thicknesses of threaded ends; - threads; - hole;	fulfils
Pipe insertion limiters	fulfils
Permissible misalignment of the fittings ends	$\pm 2^\circ$
Stress corrosion resistance	resistant
Torsional strength	no leaks
Resistance for the internal pressure (hydraulic method 30 bar)	no permanent deformation, no leaks
The appearance of the surface of the fittings	smooth, clean, no defects or damage, no sharp edges
Torque transmission components (threaded end fittings)	contoured shape or appropriate elements necessary for torque transmission
Resistance against high temperature at the pressure of 1 bar (GT/1)	resistant
Elastomer seals	fulfils



Compression fittings for gas installations made of copper and copper alloys Gutpress Gas M		
No.	Fittings catalogue No.	Production place code
1	7932015012, 7932022034, 7932028100, 7931015012, 7931022034, 7931028100, 7934015012, 7934022034, 7934028100, 7902015012, 7902015034, 7902018012, 7902018034, 7902022012, 7902022034, 7902022100, 7902028034, 7902028100, 7902035100, 7902035114, 7901015012, 7901015034, 7901018012, 7901018034, 7901022012, 7901022034, 7901022100, 7901028034, 7901028100, 7901035100, 7901035114, 79120151215, 79120181218, 79120221222, 79120223422, 79120281228, 79120283428, 79120281028	Z1
2	790001515, 790001818, 790002222, 790002828, 790003535, 792301515, 792301818, 792302222, 792302828, 792303535, 792401515, 792401818, 792402222, 792402828, 792403535, 792001515, 792001818, 792002222, 792002828, 792003535, 792101515, 792101818, 792102222, 792102828, 792103535, 794302215, 794302218, 794302815, 794302818, 794302822, 794303522, 794303528, 794101515, 794101818, 794102222, 794102828, 79100151515, 79100181818, 79100222222, 79100282828, 79100353535, 79110221522, 79110281528, 79110282228	Z2
Compression fittings for gas installations made of copper and copper alloys Gutpress Gas V		
No.	Fittings catalogue No.	Production place code
1	GPG5270-15, GPG5270-18, GPG5270-22, GPG5270-28, GPG5270-35, GPG5041-15, GPG5041-18, GPG5041-22, GPG5041-28, GPG5041-35, GPG5040-15, GPG5040-18, GPG5040-22, GPG5040-28, GPG5040-35, GPG5002-15, GPG5002-18, GPG5002-22, GPG5002-28, GPG5002-35, GPG5001-15, GPG5001-18, GPG5001-22, GPG5001-28, GPG5001-35, GPG5243-18.15, GPG5243-22.15, GPG5243-22.18, GPG5243-28.15, GPG5243-28.18, GPG5243-28.22, GPG5243-35.22, GPG5243-35.28, GPG5301-15, GPG5301-18, GPG5301-22, GPG5301-28, GPG5130-15, GPG5130-18, GPG5130-22, GPG5130-28, GPG5130-35, GPG5130-18.15.18, GPG5130-22.15.15, GPG5130-22.15.22, GPG5130-22.18.22, GPG5130-22.22.15, GPG5130-28.15.28, GPG5130-28.18.28, GPG5130-28.22.28	Z2
2	GPG4270-1512, GPG4270-1812, GPG4270-1834, GPG4270-2234, GPG4270-281, GPG4243-1512, GPG4243-1812, GPG4243-1834, GPG4243-2212, GPG4243-2234, GPG4243-221, GPG4243-281	Z3

Kraków, 22-08-2024

Certification Office Manager

Magdalena Swat