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E-Mail ima@ima-dresden.de
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Managing directors
Prof. Dr.-Ing. Thomas Fleischer (Spokesman),
Dr.-Ing. Ron Buchholz, Dr.-Ing. Toni Ehrig, Marcos Martija Ortiz

Company's registered office Dresden
Register court Amtsgericht Dresden | HRB 5995
Tax identification number DE 155293995

Test Report

Audit Test (AT) 2022
Press Fittings from Copper for Gas Supply
DG-4550CU0138

DAkkS Deutsche Akkreditierungsstelle
D-PL-13119-02-00
D-IS-13119-01-00

Test Report No.: V220/22.2-2

Order No.: 232300005

Issued by Department Pipe Systems

Laboratory for Pipe Systems Testing

Recognised test laboratory of DVGW, DIN CERTCO and DIBt
The recognitions are valid for the test methods stated in the attachments of certificates of approval DVGW LW-BU0023, DIN CERTCO PL121 and DIBt SAC 08

Test Report

Audit Test (AT) 2022 DG-4550CU0138

Test Report No.: V220/22.2-2

Subject of test:	Press fitting from **Red brass** for gas supply with Copper pipes according to DVGW GW392 R250 and R290 model "**Press Fitting for gas"**
DVGW-Registration No.:	**DG-4550CU0138**
Ordering customer:	Taizhou Double Winners Copper Co., Ltd. Unit B-1605, Joyance Tower, JiaoJiang, Taizhou, Zhejiang, 318000, China
Test laboratory:	IMA Materialforschung und Anwendungstechnik GmbH Wilhelmine-Reichard-Ring 4, 01109 Dresden Laboratory for Pipe System Testing Am Lagerplatz 4, 01099 Dresden
Audit test:	**2022**: Ü 230-20-003_1
Sampling:	2022-06-03
Test period:	2022-06 to 2022-08
Test result:	The requirements according to DVGW-Worksheet G 5614 are fulfilled by the system "Press Fitting for gas" in dimension 42.
Person in charge:	Dipl.-Ing. (BA) Enrico Marusch
Distribution list:	1 x Ordering customer 1 x DVGW 1 x IMA Dresden

Authorized
Dresden, 2022-08-17
IMA Materialforschung und
Anwendungstechnik GmbH

Dipl.-Ing. Heiko Below
Head of Department Pipe Systems

Table of content

List of tables

List of figures

1 Test requirements

- DVGW-Worksheet G 5614 │ December 2013

2 Used materials

Model „Press Fitting for gas“

- Manufacturer: *CC499K (Red Brass) Products:* Taizhou Bada Valve Co., Ltd.
  Lishidai, Fengjiang Str., Luqioa Dist 318054 Taizhou City, Zhejiang, China

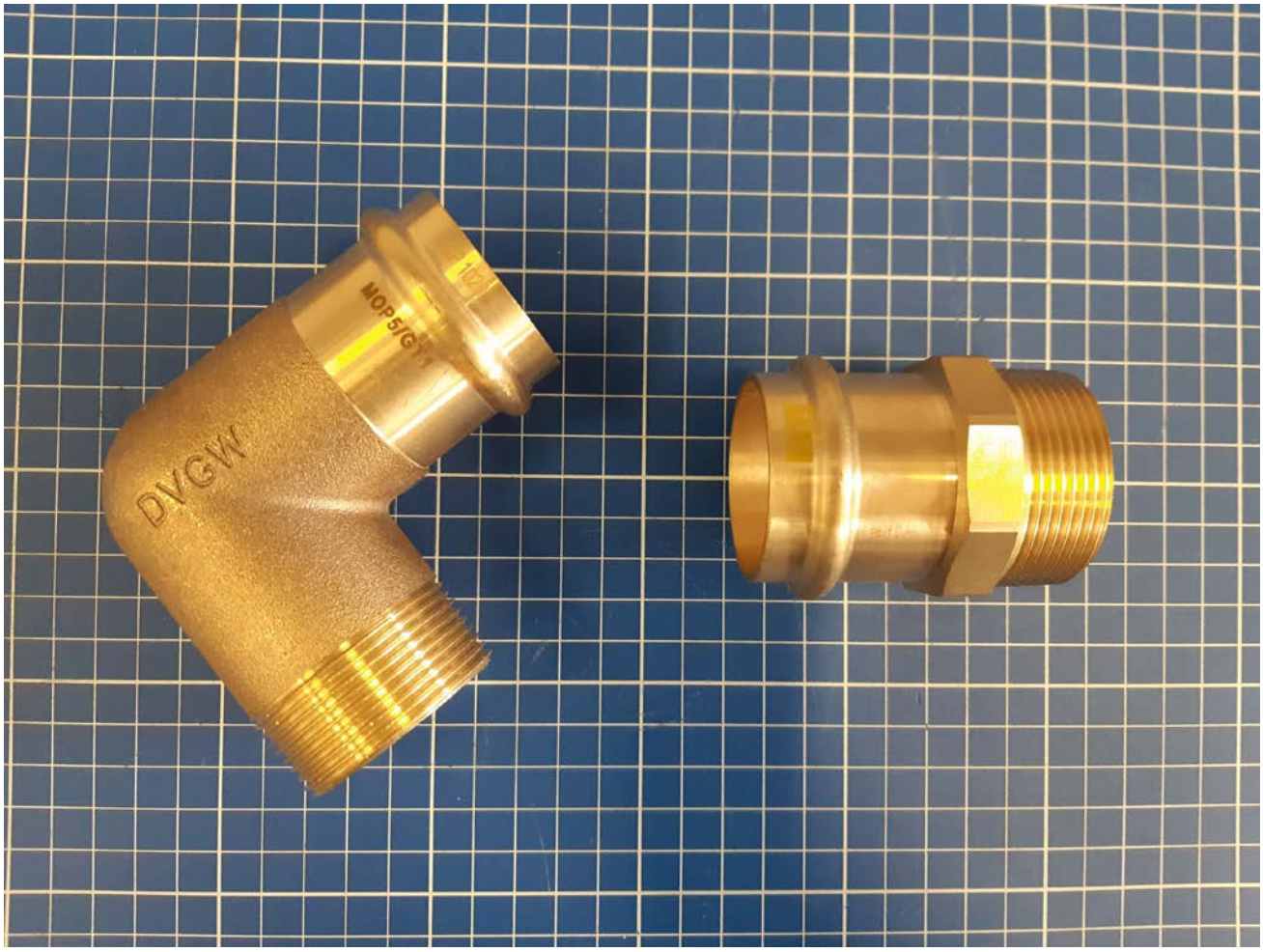

Fig. 1: received test items (red brass articles, DN42)

- Marking:
  Press body:

  Transition to male thread:
  Gas
  GP DVGW
  42X1 ½”
  MOP5/GT1
  1020

  Transition to male elbow:
  Gas
  42x1-1/2”
  GP 1020
  MOP5/GT1
  DVGW

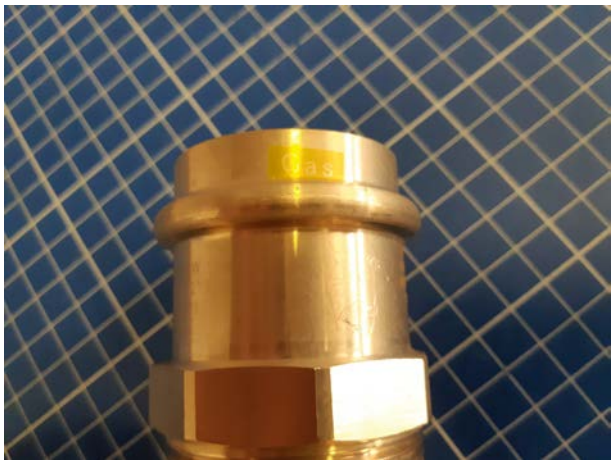

Fig. 2: Marking of transition to male thread „GAS“

Fig. 3: Marking of tranistion to male elbow

- Material:
  Basic body: Red brass CC499K
  O-ring HNBR 70: TEC H16 GI-70 giallo (Tecnogomma; NG-5112CL0298)

Copper pipes according to DVGW GW392 hard (R290) and half-hard (R250)

3 Test results

Table 1: Test results - Dimension 42, Red brass CC499K; 90° elbow and transition to male thread

Seq. No.	Test	Test equipment/ ID- No./ Person in charge	Test result	Evaluation
1	Materials of metal	-	Red brass “CC 499 K” is used.	+
2	Elastomers	-	O-ring is DVGW certified product	+
3	Sealing material for threaded connections	-	No sealing material used for thread connections.	n.a.
4	Dimensions	Measuring microscope MM1 9026365, Digital caliper 1023011, Outside caliper 007649, Wall thickness meter 209-607 / A. Müller, N.Burkert	The essential measures are within the tolerance ranges of the constructional drawings	+
5	Surface condition, homogeneity	E. Marusch	Smooth inner and external surfaces	+
6	Labelling	E. Marusch	Labelling is durable, legible and meets the requirements	+

\+ meets requirements
n.a. not applicable

Reference note: In the column *Testing resource / ID-No.* the employed testing resources and their registration by means of ID No. or testing resource card (PMK)are listed, in order to guarantee the traceability of the test results. The overview of the testing resource cards is a component part in the laboratory-specific specifications of the laboratory for Pipe Systems Testing (LSA No. V-1 in the quality management handbook of IMA Dresden).
The statement of conformity is based on the binary statement for simple acceptance rule (w=0) acc. to ILAC G8. The measured values are considered without the measurement uncertainty.

4 Surveillance of the Factory Production Control (FPC)

The inspection of FPC was performed at manufacturing site, dated 2022-05-31.

The customer possesses all test equipment to perform the required tests for internal production control. The personnel is qualified and trained to perform and validate these tests.

The FPC ensures a production in accordance with DVGW-Worksheet G 5614.

Reviewed

gez. Dipl.-Ing. (BA) Carsten Dietze
Pipe Systems Testing

Created

gez. Dipl.-Ing. (BA) Enrico Marusch
Project Manager

DVGW CERT

DIN-DVGW type examination certificate

DIN-DVGW-Baumusterprüfzertifikat

NG-5112CL0298
Registration Number
Registriernummer

Field of Application *Anwendungsbereich*	products of gas supply *Produkte der Gasversorgung*
Owner of Certificate *Zertifikatinhaber*	Tecnogomma International S.p.A. Via Castello, 46, I-24060 Adrara S. Martino (BG)
Distributor *Vertreiber*	Tecnogomma International S.p.A. Via Castello, 46, I-24060 Adrara S. Martino (BG)
Product Category *Produktart*	greasing and sealing materials: Elastomer material for seals in gas appliances (5112)
Product Description *Produktbezeichnung*	Homogeneous ozone resistant elastomer material for dynamic and static seals
Model *Modell*	TEC H16 GI-70 giallo
Test Reports *Prüfberichte*	supplement test: 20-00591 from 11.12.2020 (EBI) type testing: 10/202/5112/1 from 03.09.2010 (EBI)
Test Basis *Prüfgrundlagen*	DIN EN 549 (01.09.2019)
Date of Expiry / File No. *Ablaufdatum / Aktenzeichen*	03.09.2025 / 21-0130-GNA

02.03.2021 Rie A-1/2
Date, Issued by, Sheet, Head of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.

DAkkS Deutsche Akkreditierungsstelle D-ZE-16028-01-05

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info@dvgw-cert.com

Annex 1 O-ring certificate

Audit Test (AT) 2022 DG-4550CU0138

Test Report No.: A1 V220/22.2-2

A-2/2 **NG-5112CL0298**

Type *Typ*	**Technical Data** *Technische Daten*	**Remarks** *Bemerkungen*
TEC H16 GI-70 giallo	hardness range class: H3 temperature range: -30...+100 °C temperature class: C3	

Annex 2 Technical drawings and dimensions

Audit Test (AT) 2022 DG-4550CU0138

Test Report No.: A2 V220/22.2-2

台州市双赢铜业有限公司

TAIZHOU DOUBLE WINNERS COPPER CO.

Address: Unit B-1605, Joyance Tower, Jiaojiang Taizhou Zhejiang 31800(

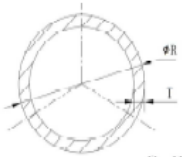
Tel: 0086-576-88220319 Fax: 0086-576-88203455

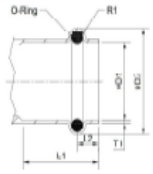
Web: www.double-winners.com Email: info@double-winners.com

Model：GPG4243G 受控

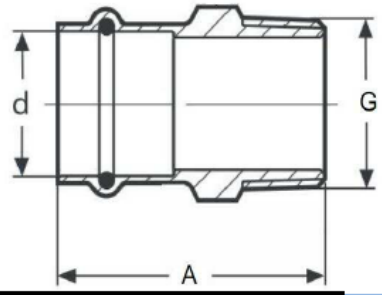
Apply：GAS/Water

O-Ring：GAS:Yellow Water：Black





O-Ring



GP Artikel Nr.	规格 dXG	GP4243GMaterial/Surface Treatment	O-Ring Material	O-Ring QTY	R±0.2	T ±0.8	D1		D2		L1		L2	A		R1	T1 min	G
							尺寸	公差	尺寸	公差	尺寸	公差		尺寸	公差			
GPG4243G0120300	GPG4243G 12 x 3/8 AG Rg	CC499K/copper color	EPDM	1	12.2	2.4	12.3	±0.05	19.6	±0.1	18	±0.5	7	38	±2.0	1.2	1.3	3/8
GPG4243G0120400	GPG4243G 12 x 1/2 AG Rg	CC499K/copper color	EPDM	1	12.2	2.4	12.3	±0.05	19.6	±0.1	18	±0.5	7	38	±2.0	1.2	1.3	1/2
GP4243G01503000	GP4243G 15 x 3/8 AG Rg	CC500K/copper color	EPDM	1	15.2	2.5	15.3	±0.05	22.8	±0.1	22	±0.5	10	41	±2.0	1.3	1.4	3/8
GPG4243G0150400	GPG4243G 15 x 1/2 AG Rg	CC499K/copper color	EPDM	1	15.2	2.5	15.3	±0.05	22.8	±0.1	22	±0.5	10	41	±2.0	1.3	1.4	1/2
GPG4243G0150600	GPG4243G 15 x 3/4 AG Rg	CC499K/copper color	EPDM	1	15.2	2.5	15.3	±0.05	22.8	±0.1	22	±0.5	10	41	±2.0	1.3	1.4	3/4
GPG4243G0180400	GPG4243G 18 x 1/2 AG Rg	CC499K/copper color	EPDM	1	18.2	2.5	18.3	±0.05	26	±0.1	23	±0.5	10	41	±2.0	1.35	1.4	1/2
GPG4243G0180600	GPG4243G 18 x 3/4 AG Rg	CC499K/copper color	EPDM	1	18.2	2.5	18.3	±0.05	26	±0.1	23	±0.5	10	41	±2.0	1.35	1.4	3/4
GPG4243G0220400	GPG4243G 22 x 1/2 AG Rg	CC499K/copper color	EPDM	1	22.3	3.2	22.3	±0.10	31	±0.1	24	±0.5	10	45	±2.0	1.6	1.4	1/2
GPG4243G0220600	GPG4243G 22 x 3/4 AG Rg	CC499K/copper color	EPDM	1	22.3	3.2	22.3	±0.10	31	±0.1	24	±0.5	10	47	±2.0	1.6	1.4	3/4
GPG4243G0220800	GPG4243G 22 x 1 AG Rg	CC499K/copper color	EPDM	1	22.3	3.2	22.3	±0.10	31	±0.1	24	±0.5	10	47	±2.0	1.6	1.4	1
GPG4243G0280600	GPG4243G 28 x 3/4 AG Rg	CC499K/copper color	EPDM	1	28.3	3	28.3	±0.10	37	±0.1	25	±0.5	10	49	±2.0	1.55	1.4	3/4
GPG4243G0280800	GPG4243G 28 x 1 AG Rg	CC499K/copper color	EPDM	1	28.3	3	28.3	±0.10	37	±0.1	25	±0.5	10	51	±2.0	1.55	1.4	1
GPG4243G0281000	GPG4243G 28 x 1 1/4 AG Rg	CC499K/copper color	EPDM	1	28.3	3	28.3	±0.10	37	±0.1	25	±0.5	10	58	±2.0	1.55	1.5	1-1/4
GPG4243G0350800	GPG4243G 35 x 1 AG Rg	CC499K/copper color	EPDM	1	35.4	3	35.3	±0.10	44	±0.1	26	±0.5	10	52	±2.0	1.55	1.5	1
GPG4243G0351000	GPG4243G 35 x 1 1/4 AG Rg	CC499K/copper color	EPDM	1	35.4	3	35.3	±0.10	44	±0.1	26	±0.5	10	60	±2.0	1.55	1.5	1-1/4
GPG4243G0351200	GPG4243G 35 x 1 1/2 AG Rg	CC499K/copper color	EPDM	1	35.4	3	35.3	±0.10	44	±0.1	26	±0.5	10	60	±2.0	1.55	1.5	1-1/2
GPG4243G0421000	GPG4243G 42 x 1 1/4 AG Rg	CC499K/copper color	EPDM	1	42.4	4	42.3	+0.00 +0.10	53.9	±0.1	36	±0.5	13	70	±2.0	2.13	1.8	1-1/4
GPG4243G0421200	GPG4243G 42 x 1 1/2 AG Rg	CC499K/copper color	EPDM	1	42.4	4	42.3	+0.00 +0.10	53.9	±0.1	36	±0.5	13	70	±2.0	2.13	1.8	1-1/2
GPG4243G0541200	GPG4243G 54 x 1 1/2 AG Rg	CC499K/copper color	EPDM	1	54.4	4	54.3	+0.00 +0.10	65.9	±0.1	40	±0.5	16	78	±2.0	2.13	1.8	1-1/2
GPG4243G0541600	GPG4243G 54 x 2 AG Rg	CC499K/copper color	EPDM	1	54.4	4	54.3	+0.00 +0.10	65.9	±0.1	40	±0.5	16	70	±2.0	2.13	1.8	2

制表： 王锋 审核： 核准：