



Prüfbericht Nr.:

Test Report No.:

B 21/12/3677

Datum:

Date:

06.12.2021

DVGW CERT- AZ.:

DVGW CERT File reference:

Already applied for, see Annex 1

Produkt-ID-Nr.:

Product – ID - No.:

will be issued

Art der Prüfung:

Species of the test:

Type examination of hose assemblies for liquid gas

Zweck der Prüfung:

Purpose of the test:

Initial test of the liquid gas hose lines type IGT_... according to DIN EN 16436-2

Antragsteller / Zertifikatinhaber:

Client:

Integrated Gas Technology ApS.
 Gydevang 39-41
 DK-3450 Allerød
 Denmark

Vertreiber:

Distributor:

Integrated Gas Technology ApS.
 Gydevang 39-41
 DK-3450 Allerød
 Denmark

Hersteller und Produktionsstätte:

Production plant:

Integrated Gas Technology ApS.
 Gydevang 39-41
 DK-3450 Allerød
 Denmark

Installationsart / Installation species:

Gas of the 3rd gas family according to DVGW G260

Produkt – Code:

Product – code:

4604

Produktart:

Productkind:

Components for gas installation

Produktbezeichnung:

Productdesignation:

Hose line for liquid gas

Baureihe / Modell:

Brand name / Model:

IGT_...

Prüfgrundlage:

Test basis:

DIN EN 16436-2

Ausgabe <i>Edition</i>	Titel (Kurzform) <i>Title (Short)</i>
10/2019	Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase – Part 2: Assemblies

Datum Auftrag /

date order:

12.05.2021

Prüfzeitraum /

test period:

08-09/2021

Prüfer /

tester:

Schubert, Schulze

Prüfort /

Test location:

Freiberg

[Signature]
 Aßmann
 Prüfstellenleiter
 Managing director of testing lab



[Signature]
 Schubert
 Prüflingenieur
 testing engineer





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Bericht Report

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Prüfgegenstände / Typ:
Test models / type:

6 test samples were provided for each version, 5x for equipment testing according to Annex 3, 1x reserve (Not used for test):

- IGT_RSH006, 30 bar, basic hose used: DREH0201; 6,3x3,5mm (IGT; DG-4603CL0539)
- IGT_PS006, 10 bar, basic hose used: DPE0201; 6,3x3,5mm (IGT; NG-4603CL0349)
- IGT_RS006, 10 bar, basic hose used: DRE0201; 6,3x3,5mm (IGT; DG-4603CL0539)

Additionally 2x connection parts each in individual parts

Mitgeltende Prüfungen:
Applicable examinations:

no

Erläuterungen / Besonderheiten:
Explanations / characteristics:

The company Integrated Gas Technology ApS. manufactures hose assemblies in various lengths and nominal pressures for liquid gas.

The subject of the test report is the type examination of the liquid gas hose assemblies type IGT... according to test specification DIN EN 16436-2 (10/2019), former DIN 4815-2.

For the hose lines IGT..., the basic hoses DPE..., DPEH... in the dimension 6,3x4,0mm from DELTEC® FU SHENG Rubber & Plastic Ind, Co., Ltd. (or Integrated Gas Technology ApS.) of class 2 and class 3 according to certification NG-4603CL0349 and DG-4603CL0539.

The hose lines are designed with union nut G $\frac{1}{4}$ -LH on one side and with union nut G $\frac{3}{8}$ -LH on the other side. The hose lines can also be designed with G $\frac{1}{4}$ -LH or G $\frac{3}{8}$ -LH on both sides.

A type test of the liquid gas hose lines IGT..., in pressure class 2 and class 3 according to DIN EN 16436-2 (10/2019) was carried out.



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Länder / Kategorien / Anschlussdrücke:
 Countries / categories / inlet pressures:

Land <i>country</i>	Kurzbe- zeichnung <i>abbreviation</i>	Kategorie <i>category</i>	MOP		Bemerkung <i>remark</i>
			Erdgas/ natural gas	Flüssiggas / LPG	
Germany	GER	Gas of the 3rd gas family according to DVGW G 260 (butane, propane and their mixtures) (vaporous)	-	Depending on version, up to max. 30 bar	National installation conditions must be observed



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Technische Daten:
Technical data:

Gase: <i>gases:</i>	3. Gasfamily acc. to DVGW G260/EN437
Druckklasse: <i>pressure classes:</i>	MOP 10 bar (class 2): IGT_PS006, IGT_RS006 MOP 30 bar (class 3): IGT_RSH006
Temperaturklasse: <i>temperatureclasses:</i>	-30°C (temperaturerange -30°C to +70°C for class 2 and class 3)
Anschlussarten: <i>connection types:</i>	Union nut with G $\frac{1}{4}$ -LH and/or G $\frac{3}{8}$ -LH
Werkstoffe Anschlusssteile: <i>materials connection:</i>	Brass CW617N (2.0380)

Ausführungsvarianten:
Execution variants:

Erläuterungen:
Explanations:

"IGT_..." Hose assembly for liquid gas, hose lengths in mm: 300, 400, 450, 500, 600, 750, 800, 1000, 1500, 2000, 2500, 3000, 4000, 5000, 6000 and optional depending on the intended use.
 Connection types for Class 2 and Class 3 hose assemblies:
 on both sides: union nut with ball nipple fitting to DIN EN 560 (1994) G $\frac{1}{4}$ -LH and/or G $\frac{3}{8}$ -LH



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Bemerkungen:
Remarks:

The material verification for CW617N of the connecting parts according to Annex 6 could be confirmed. The manufacturer was informed that the tin content (SN) of 0,3 % is just within the limit value according to DIN EN 12164 (11/2016) or DIN EN 12165 (11/2016).

As part of the next surveillance test, a check of the material is to be carried out and confirmed in accordance with CW617N.

Elektrische Daten:
Electrical data:

no

Installationsarten:
Installation species:

The installation and operating instructions must be observed.



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Registrierungspflichtige Bauteile:

Registration- requiring components:

Bauteil <i>component</i>	Typ <i>type</i>	Hersteller <i>manufacturer</i>	Registriernummer <i>registrationnumber</i>
Components for gas installation: Hose for liquid gas (4603)	DRE ...; DREH ...	DELTEC® FU SHENG Rubber & Plastic Ind, Co., Ltd. No. 789, sec. 1, Yulin Road TW- Taoyuan City 32842	DG-4603CL0539
Rubber hose for liquid gas with textile insert		Integrated Gas Technologies ApS. Gydevang 39-41 DK-3450 Allerød	
Components for gas installation: Hose for liquid gas (4603)	DRE ...; DREH ...	DELTEC® FU SHENG Rubber & Plastic Ind, Co., Ltd. No. 789, sec. 1, Yulin Road TW- Taoyuan City 32842	NG-4603CL0349
PVC hose for liquid gas with textile insert		Integrated Gas Technologies ApS. Gydevang 39-41 DK-3450 Allerød	

Auflagen:

Supports:

no



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Prüfergebnisse:
Inspection results:

The type examination of the liquid gas hose line type "IGT_..." with the used hoses DRE..., DREH... (Deltec/ IGT) has shown that the requirements of the test specification DIN EN 16436-2:2019-10 are fulfilled for the hoses mentioned according to DIN EN 16436-1 (04/2016).

The material verification for CW617N of the connecting parts according to Annex 6 could be confirmed. The manufacturer was informed that the tin content SN of 0,3 % is just within the limit value according to DIN EN 12164 (11/2016) or DIN EN 12165 (11/2016).

Dieser Testbericht dient zur Vorlage bei der DVGW CERT GmbH (DVGW CERT GmbH, Josef – Wirmer – Strasse 1 – 3, D – 53123 Bonn) als Nachweis der Regelkonformität. Veröffentlichung und Weitergabe an Dritte ist nur in vollständiger, ungekürzter Form zulässig. Veröffentlichung oder Verbreitung von Auszügen, Zusammenfassungen, Wertungen oder sonstige Bearbeitungen und Umgestaltungen, insbesondere zu Werbungszwecken, ist nur mit vorheriger schriftlicher Zustimmung der DBI-GTI gGmbH Freiberg zulässig.

Die in diesem Bericht dargestellten Prüfergebnisse beziehen sich ausschließlich auf den Prüfgegenstand. Bei Konformitätsaussagen wurden die Messunsicherheiten der Messergebnisse nicht berücksichtigt, insoweit die ausgewiesenen Prüfgrundlagen keine anderslautenden Anforderungen enthalten. Die Akkreditierung gilt nur für den in der Urkundenanlage (D-PL-11072-01-00) aufgeführten Umfang. Die mit einem Stern (*) gekennzeichneten Prüfverfahren befinden sich außerhalb der DAkkS-Akkreditierung. Bewertung und Ergebnisse hinsichtlich der Erfüllung der sicherheitstechnischen Grundsätze des DVGW im Rahmen dieses Berichtes erfolgen informativ für den Auftraggeber und stellen keine Beurteilung im Sinne der Konformitätsbewertungsverfahrens zur Erlangung der DIN - DVGW – Baumusterprüfbescheinigung dar, die der DVGW-Zertifizierungsstelle vorbehalten ist.

This test report is written for the certification by DVGW CERT GmbH (DVGW CERT GmbH, Josef – Wirmer – Strasse 1 – 3, D–53123 Bonn) as confirmation of the conformity.

Publication and passing on to third are permissible only in complete, unabridged form. Publication or spreading of excerpts, summaries, valuations or other working on and transformations, in particular for advertisement purposes, is permissible only with previous written agreement of the DBI-GTI gGmbH Freiberg.

The publication of the page 1 (first page) is permitted.

The inspection results represented in this report exclusively refer to the test samples. The uncertainty of measurement of the measurement results are not taken into account in case of statement of conformity unless required by indicated test basis.

The accreditation is valid only for the scope listed in the annex of the certificate (D-PL-11072-01-00).

Test procedures indicated with star () are out of the scope of DAkkS-accreditation.*

Evaluations of the results regarding the fulfilment of the essential safety requirements of the DVGW in the context of this report take place informatively for the client. It represents no evaluation in the sense of the conformity procedure for the type approval certificate, which is reserved only by the DVGW-certification body.