



**Strojirenský zkušební ústav, s.p. (Engineering Test Institute, Public Enterprise), Authorized Body 202**  
**Hudcova 424/56b, Medlánky, 621 00 Brno, Czech Republic**  
Authorization Decision No. 2/2023 dated 1.3.2023

# CONSTRUCTION TECHNICAL CERTIFICATE

Number: **202-STO-J-00098-24**

Product specification: **COMPRESSION FITTINGS WITH MALE NUT FOR POLYETHYLENE PIPE – MODEL 4800**  
**Coupling – Angles and Tee – Pipe dimensions 20-25-32-40-50-63**  
see page 2 and 3

Manufacturer and  
Manufacturing plant: **General Fittings SpA**  
**Via Golgi 73/75 Gussago**  
**25064 – Brescia, Italy**

Authorized Body 202 issues the present Construction Technical Certificate in accordance with the provisions of Art. 12 of Act 22/1997 Coll., on technical requirements for products and amendments to related acts, as amended, and pursuant to Art. 2 and Art. 3 of Government Regulation 163/2002 Coll., laying down technical requirements for selected construction products, as amended by Government Regulation 312/2005 Coll. and Government Regulation 215/2016 Coll.

The above-specified Authorized Body hereby defines the product technical characteristics with respect to the essential requirements for buildings, depending on the function which the products concerned are meant to fulfil within the construction project concerned.

The technical specifications are provided on the following pages 1 to 5, which are an integral part of the present Construction Technical Certificate.

The Construction Technical Certificate was issued for Order Ref. No. 30-16815.


The Construction Technical Certificate is valid through 21 January 2027 unless the facts under which it was issued cease to exist.

This document may be copied in its entirety without written consent of the Authorized Body. Partial copies are subject to approval.

Author of Construction Technical Certificate: Luděk Drašík.

In Brno, date: 22 January 2024



  
Ing. Pavel Štícha  
representative of the Authorized  
Body

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## Product identification and description, definition of its use within a building:

Brass fittings (compression fitting with male nut), model 4800, for polyethylene (PE) pressure piping systems with pipe diameters from 20 to 63 mm. They are designed for use in piping installations for the distribution, transport and storage of drinking water, domestic hot water and heating gases in civic amenities and public buildings.

### Material used:

- Fitting body Brass CW617N
- compression ring, cutting ring Brass CW617N
- Nuts Brass CW617N
- sealing O-ring NBR 70 Sh

### Maximum pressure:

- 16 bar (PN16) PE100 for water
- 12.5 bar (PN12) PE80 for water
- 10 bar (PN10) PE100 for heating gases
- 4 bar (PN4) PE80 for heating gases

Operating temperature: -20 °C to +40 °C

### Fitting types:

Marking	Name	Dimensions (mm)
480000H202000A	straight compression fitting with male nuts	ø20 x ø20
480000H252500A	straight compression fitting with male nuts	ø25 x ø25
480000H323200A	straight compression fitting with male nuts	ø32 x ø32
480000H404000A	straight compression fitting with male nuts	ø40 x ø40
480000H505000A	straight compression fitting with male nuts	ø50 x ø50
480000H636300A	straight compression fitting with male nuts	ø63 x ø63
480001H042000A	straight compression fitting with male nut and outer thread	1/2"x ø20
480001H052500A	straight compression fitting with male nut and outer thread	3/4"x ø25
480001H103200A	straight compression fitting with male nut and outer thread	1"x ø32
480001H124000A	straight compression fitting with male nut and outer thread	1"1/4x ø40
480001H145000A	straight compression fitting with male nut and outer thread	1"1/2x ø50
480001H206300A	straight compression fitting with male nut and outer thread	2"x ø63
480002H042000A	straight compression fitting with male nut and inner thread	1/2"x ø20
480002H052500A	straight compression fitting with male nut and inner thread	3/4"x ø25
480002H103200A	straight compression fitting with male nut and inner thread	1"x ø32
480002H124000A	straight compression fitting with male nut and inner thread	1"1/4x ø40
480002H145000A	straight compression fitting with male nut and inner thread	1"1/2x ø50
480002H206300A	straight compression fitting with male nut and inner thread	2"x ø63
480010H202020A	Tee compression fitting with male nuts	ø20 x ø20 x ø20
480010H252525A	Tee compression fitting with male nuts	ø25 x ø25 x ø25
480010H323232A	Tee compression fitting with male nuts	ø32 x ø32 x ø32
480010H404040A	Tee compression fitting with male nuts	ø40 x ø40 x ø40
480010H505050A	Tee compression fitting with male nuts	ø50 x ø50 x ø50
480010H636363A	Tee compression fitting with male nuts	ø63 x ø63 x ø63

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Marking	Name	Dimensions (mm)
480011H200420A	Tee compression fitting with two male nuts and outer thread	ø20 x 1/2" x ø20
480011H250525A	Tee compression fitting with two male nuts and outer thread	ø25 x 3/4" x ø25
480011H321032A	Tee compression fitting with two male nuts and outer thread	ø32 x 1" x ø32
480011H401240A	Tee compression fitting with two male nuts and outer thread	ø40 x 1"1/4 x ø40
480011H501450A	Tee compression fitting with two male nuts and outer thread	ø50 x 1"1/2 x ø50
480011H632063A	Tee compression fitting with two male nuts and outer thread	ø63 x 2" x ø63
480012H200420A	Tee compression fitting with two male nuts and inner thread	ø20 x 1/2" x ø20
480012H250525A	Tee compression fitting with two male nuts and inner thread	ø25 x 3/4" x ø25
480012H321032A	Tee compression fitting with two male nuts and inner thread	ø32 x 1" x ø32
480012H401240A	Tee compression fitting with two male nuts and inner thread	ø40 x 1"1/4 x ø40
480012H501450A	Tee compression fitting with two male nuts and inner thread	ø50 x 1"1/2 x ø50
480012H632063A	Tee compression fitting with two male nuts and inner thread	ø63 x 2" x ø63
480020H202000A	compression fitting angle with male nuts	ø20 x ø20
480020H252500A	compression fitting angle with male nuts	ø25 x ø25
480020H323200A	compression fitting angle with male nuts	ø32 x ø32
480020H404000A	compression fitting angle with male nuts	ø40 x ø40
480020H505000A	compression fitting angle with male nuts	ø50 x ø50
480020H636300A	compression fitting angle with male nuts	ø63 x ø63
480021H042000A	compression fitting angle with male nut and outer thread	1/2"x ø20
480021H052500A	compression fitting angle with male nut and outer thread	3/4"x ø25
480021H103200A	compression fitting angle with male nut and outer thread	1"x ø32
480021H124000A	compression fitting angle with male nut and outer thread	1"1/4x ø40
480021H145000A	compression fitting angle with male nut and outer thread	1"1/2x ø50
480021H206300A	compression fitting angle with male nut and outer thread	2"x ø63
480022H042000A	compression fitting angle with male nut and inner thread	1/2"x ø20
480022H052500A	compression fitting angle with male nut and inner thread	3/4"x ø25
480022H103200A	compression fitting angle with male nut and inner thread	1"x ø32
480022H124000A	compression fitting angle with male nut and inner thread	1"1/4x ø40
480022H145000A	compression fitting angle with male nut and inner thread	1"1/2x ø50
480022H206300A	compression fitting angle with male nut and inner thread	2"x ø63
480023H042000A	wall-mounted compression fitting angle with male nut and inner thread	1/2"x ø20
480023H052500A	wall-mounted compression fitting angle with male nut and inner thread	3/4"x ø25





**Technical characteristics of the product with respect to essential requirements for buildings:**

Essential req. no.	Monitored characteristic	Method of establishment	Required level
<b>1 Mechanical resistance and stability</b>			
1.1	Material – chemical composition	Chemical analysis	ČSN EN 1254-3:2000, Art. 4.2 ČSN EN 1254-4:2000, Art. 4.1 Ministry of Health Decree 409/2005 Coll., Art. 9 (1) (d) and (2)
1.2	Dimensions and limit deviations	Measurement of geometric variables	ČSN EN 1254-4:2000, Art. 4.3, 4.5
1.3	Surface condition	Visual inspection	ČSN EN 1254-3:2000, Art. 4.4.6
<b>3 Hygiene, health and the environment</b>			
3.1	Sealing – resistance to n-pentane	ČSN EN 549:2020, Art. 7.6	ČSN EN 549:2020, Art. 6.2
3.2	Health safety	Ministry of Health Decree 409/2005 Coll.	Act 258/2000 Coll., Art. 5 Ministry of Health Decree 409/2005 Coll., Art. 3 (1), Art. 9 (1) (d) and (2), Art. 11
<b>4 Safety and accessibility in use</b>			
4.1	Internal pressure tightness	ČSN EN 1254-3:2000, Art. 5.3.	ČSN EN 1254-3:2000, Art. 4.6.2
4.2	Internal pressure tightness with simultaneous bending	ČSN EN 1254-3:2000, Art. 5.5	ČSN EN 1254-3:2000, Art. 4.6.4
4.3	Resistance to extraction	ČSN EN 1254-3:2000, Art. 5.4	ČSN EN 1254-3:2000, Art. 4.6.3
4.4	Vacuum test	ČSN EN 1254-3:2000, Art. 5.7	ČSN EN 1254-3:2000, Art. 4.6.6
4.5	Marking	Visual inspection	ČSN EN 1254-3:2000, Art. 7 Act 258/2000 Coll., Art. 5 Ministry of Health Decree 409/2005 Coll., Art. 5 (1), (2), (3)

**Overview of applied technical regulations, technical standards, technical documents, and source materials submitted to the Authorized Body:**

- Act 22/1997 Coll., on technical requirements for products and on the amendment of certain acts, as amended
- Government Regulation 163/2002 Coll., laying down the technical requirements for selected construction products, as amended by Government Regulation 312/2005 Coll., and Government Regulation 215/2016 Coll.
- Act 258/2000 Coll., on public health protection and on the amendment of certain related acts, as amended

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- Ministry of Health Decree 409/2005 Coll., on sanitary requirements for products coming into direct contact with water and used for water treatment, as amended
- ČSN EN 1254-3:2000 Copper and copper alloys – Fittings – Part 3: Fittings with ends for joining plastic pipes by means of compression
- ČSN EN 1254-4:2000 Copper and copper alloys – Fittings – Part 4: Fittings combining different ends for joining with soldered or compressed ends
- ČSN EN 549:2020 Rubber materials for sealing and membranes for gas appliances and equipment burning gas
- Technical Instructions No. TN 07.08.11.a.b.c, TN 07.09.11, TN 07.10.07.b.c
- Catalogue GENERAL FITTINGS – SERIES 4800 – pg. 184 to pg. 194
- Purpose and area of application of series 4800 fittings – GENERAL FITTINGS, Scopo e campo di applicazione (cz, en, it)
- Specification of the product (and its versions) (cz)
- Technical data sheet – material 01/B70NBR dated 2020-09-16 (rev3) Technical Datasheet Basic Polymer NBR model 01/B70NBR (LAV.EL.GOMMA S.r.l.)
- Expert assessment of health characteristics of fittings and seals Ref. No. 360/2013 EX 130169 dated 8 March 2013, National Institute of Public Health, Prague 10
- Drawing documentation – drawings: 480082H250000H, 80081H250000H, SC4801H052500H, OR0010H243600H, CV4800

#### **More specific requirements for assessment of products and factory production control:**

Within the meaning of Art. 3 (2) (b) of the above-specified Government Regulation, the Authorized Body defined the technical characteristics of the product relating to the essential requirements and determined their levels with respect to the intended use of the product for construction purposes.

The manufacturer provided the Authorized Body with a written statement according to the technical assessment of the product characteristics was not commissioned to another Authorized Body.

The product belongs to the group of products indicated in Annex 2 of the Government Regulation specified above, List of Products 7, Group 8a), 9, 10a) with the determined procedure for the assessment of conformity pursuant to Art. 8, Art. 5 and Art. 7.

The Authorized Body shall certify the product to Art. 5 (2) (a), (b) of the said Government Regulation; it shall also examine the submitted documents, perform the initial product type testing of the sample and the initial inspection at the production facility, as well as an assessment of the factory production control pursuant to Art. 5 (2) (c) of the said Government Regulation.

The surveillance of the due functioning of the manufacturer's factory production control at the manufacturer's facility shall be conducted in accordance with the provisions of Art. 5 (4) of the Government Regulation specified above.

#### **Rules for using the Construction Technical Certificate:**

The Construction Technical Certificate may only be used for the assessment of conformity as long as the legal regulations, technical standards or technical documents applied in the Construction Technical Certificate do not change as regards the facts stated in Art. 3 (2) (b) of Government Regulation 163/2002 Coll., as amended by Government Regulation 312/2005 Coll. and Government Regulation 215/2016 Coll., or as long as other facts critical from the perspective of conformity assessment under which the Construction Technical Certificate was issued remain unchanged. The Construction Technical Certificate may not be used as a document evidencing conformity assessment.

