



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. 288/2025

GCE, s.r.o.
with registered office Žižkova 381, 583 01 Chotěboř
Company Registration No. 27110991

for the Testing Laboratory No. **1748**
Testing laboratory by GCE

Scope of accreditation:

Testing of industrial and medical shut-off valves, pressure regulators and combination valves, including testing for resistance to ignition by oxygen pressure surges, testing of terminal units and quick couplers, and testing of materials for environmental conditions and oxygen compatibility to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 520/2022 of 01/11/2022, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **01/11/2027**

Prague: 12/06/2025



Signed in the Czech original:
Zdeňka Drdová on 12/06/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Testing laboratory locations:

- | | |
|-----------------------------|------------------------------|
| 1. Laboratory QC | Žižkova 381, 583 01 Chotěboř |
| 2. Oxygen laboratory | Žižkova 381, 583 01 Chotěboř |

The laboratory provides opinions and interpretations of the test results.

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1 ¹	Test of artificial ageing in Xenon-arc chamber	ZP_O_23-2 (ČSN EN ISO 4892-2)	Rubber and plastic products	-
2 ¹	Salt mist corrosion test – NSS method	ZP_O_15 (ČSN EN ISO 9227, except chapter 5.2.3 a 5.2.4)	Metallic products	-
3 ¹	Safety test during gas supply	ZP_M_03-1, chapter 2 (ČSN EN ISO 9170-1, chapter 5.1)	Terminal Units and quick couplers	-
4 ¹	Endurance test – connection/disconnection	ZP_M_03-1, chapter 10 (ČSN EN ISO 9170-1, chapter 7.2)	Terminal Units and quick couplers	-
5 ¹	Pressure drop test	ZP_M_03-1, chapter 11 (ČSN EN ISO 9170-1, chapter 7.3)	Terminal Units and quick couplers	-
6 ¹	Measuring of force and torque needed for connection	ZP_M_03-1, chapter 12 (ČSN EN ISO 9170-1, chapter 7.4)	Terminal Units and quick couplers	-
7 ¹	Measuring of force and torque needed for disconnection	ZP_M_03-1, chapter 13 (ČSN EN ISO 9170-1, chapter 7.5)	Terminal Units and quick couplers	-
8 ¹	Mechanical strength test	ZP_M_03-1, chapter 14 (ČSN EN ISO 9170-1, chapter 7.6)	Terminal Units and quick couplers	-
9 ¹	Leakage test	ZP_M_03-1, chapter 15 (ČSN EN ISO 9170-1, chapter 7.7)	Terminal Units and quick couplers	-
10 ¹	Gas specificity test	ZP_M_03-1, chapter 16 (ČSN EN ISO 9170-1, chapter 7.8)	Terminal Units and quick couplers	-
11 ¹	Effective connection of probe test	ZP_M_03-1, chapter 17 (ČSN EN ISO 9170-1, chapter 7.9)	Terminal Units and quick couplers	-

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
12 ¹	Outlet pressure variation limits measurement	ZP_M_05-3, chapter 2 (ČSN EN ISO 10524-3, chapter 8.3)	Medical pressure regulator integrated with cylinder valve equipped with pressure outlet	-
13 ¹	Test of pressure-relief valve function	ZP_M_05-3, chapter 3 (ČSN EN ISO 10524-3, chapter 8.4)	Medical pressure regulator integrated with cylinder valve	-
14 ¹	Leakage test	ZP_M_05-3, chapter 4 (ČSN EN ISO 10524-3, chapter 8.5)	Medical pressure regulator integrated with cylinder valve	-
15 ¹	Determination of stability and accuracy of flow	ZP_M_05-3, chapter 7 (ČSN EN ISO 10524-3, chapter 8.8)	Medical pressure regulator integrated with cylinder valve equipped with fixed orifices	-
16 ¹	Determination of flow-setting torques and determination of loosening torques	ZP_M_05-3, chapter 8 (ČSN EN ISO 10524-3, chapter 8.9)	Medical pressure regulator integrated with cylinder valve	-
17 ¹	Test of integrity of the filling port under high flow	ZP_M_05-3, chapter 9 (ČSN EN ISO 10524-3, chapter 8.10)	Medical pressure regulator integrated with cylinder valve	-
18 ¹	Flow selector endurance test	ZP_M_05-3, chapter 11 (ČSN EN ISO 10524-3, chapter 8.12)	Medical pressure regulator integrated with cylinder valve	-
19 ¹	Filling port non-return valve endurance test	ZP_M_05-3, chapter 12 (ČSN EN ISO 10524-3, chapter 8.13)	Medical pressure regulator integrated with cylinder valve	-
20 ¹	Pressure regulator endurance test	ZP_M_05-3, chapter 13 (ČSN EN ISO 10524-3, chapter 8.14)	Medical pressure regulator integrated with cylinder valve	-
21 ¹	Flame impingement test	ZP_I_05, chapter 3 (ČSN EN ISO 10297, chapter 6.10)	Shut-off valve	-
22 ¹	Excessive torque test	ZP_I_05, chapter 4 (ČSN EN ISO 10297, chapter 6.11)	Shut-off valve and VIPR type A	-
23 ¹	Leakage test	ZP_I_05, chapter 5 (ČSN EN ISO 10297, chapter 6.12)	Shut-off valve	-
24 ¹	Endurance test of valve operating mechanism	ZP_I_05, chapter 6 (ČSN EN ISO 10297, chapter 6.13)	Shut-off valve and VIPR type A	-

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
25 ¹	Endurance test	ZP_I_05, chapter 7 (ČSN EN ISO 10297, chapter 6.14)	VIPR type B and C	-
26 ¹	Filling port non-return valve endurance test	ZP_I_05, chapter 8 (ČSN EN ISO 10297, chapter 6.15)	Shut-off valve and VIPR	-
27 ¹	Visual examination	ZP_I_05, chapter 9 (ČSN EN ISO 10297, chapter 6.16)	Shut-off valve and VIPR	-
28 ¹	Impact test	ZP_I_05, chapter 10 (ČSN EN ISO 10297, chapter 6.17)	Shut-off valve (Pin-index)	-
29 ¹	Leakage test of pressure-relief valve	ZP_I_05, chapter 11 (ČSN EN ISO 10297, chapter 6.18)	Shut-off valve and VIPR	-
30 ¹	Impact test	ZP_I_05, chapter 12 (ČSN EN ISO 10297, Appendix A)	Shut-off valve	-
31 ¹	Leakage test	ZP_I_05, chapter 14 (ČSN EN ISO 10297, Appendix B.2)	Acetylene shut-off valve	-
32 ¹	Measuring of maximum discharge, Q_{max}	ZP_I_04, chapter 2 (ČSN EN ISO 2503, chapter 9.5.2)	Industrial cylinder pressure regulator without equipment for flow measurement	-
33 ¹	Measurement of standard discharge, Q_I	ZP_I_04, chapter 3 (ČSN EN ISO 2503, chapter 9.5.3)	Industrial cylinder pressure regulator without equipment for flow measurement	-
34 ¹	Determination of coefficient of pressure increase upon closure, R	ZP_I_04, chapter 4 (ČSN EN ISO 2503, chapter 9.5.4)	Industrial cylinder pressure regulator without equipment for flow measurement	-
35 ¹	Determination of irregularity coefficient, i	ZP_I_04, chapter 5 (ČSN EN ISO 2503, chapter 9.5.5)	Industrial cylinder pressure regulator without equipment for flow measurement	-
36 ¹	Accuracy classification test	ZP_I_04, chapter 6 (ČSN EN ISO 2503, chapter 9.6.1)	Industrial cylinder pressure regulator with equipment for flow measurement	-
37 ¹	Measurement of flow stability	ZP_I_04, chapter 7 (ČSN EN ISO 2503, chapter 9.6.2)	Industrial cylinder pressure regulator with equipment for flow measurement	-

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
38 ¹	Leakage test	ZP_I_04, chapter 9 (ČSN EN ISO 2503, chapter 9.7.3)	Industrial cylinder pressure regulator	-
39 ¹	Test of pressure-relief valve function	ZP_I_04, chapter 10 (ČSN EN ISO 2503, chapter 9.7.5)	Industrial cylinder pressure regulator	-
40 ¹	Test method for durability of markings and colour coding	ZP_C_01 (ČSN EN ISO 2503, chapter 9.8; ČSN EN ISO 7291, chapter 9.5; ČSN EN ISO 10524-1, chapter 8.12; ČSN EN ISO 10524-2, chapter 8.6; ČSN EN ISO 10524-3, chapter 8.11; ČSN EN ISO 10524-4, chapter 6.10; ČSN EN ISO 9170-1, chapter 5.10; ČSN EN ISO 5359, chapter 5.8; ČSN EN ISO 20417, Appendix C)	Industrial cylinder/manifold pressure regulator, Medical pressure regulator and pressure regulator equipped with equipment for flow measurement, Manifold and line medical pressure regulator, Industrial/medical pressure regulator integrated with cylinder valve, Low-pressure medical pressure regulator, Terminal unit and quick coupler, Flow-metering devices for connection to terminal units of medical gas pipeline systems, Low-pressure hose assemblies for use with medical gases, Medical equipment (coding and marking)	-

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
41 ¹	Mechanical strength tests	ZP_C_03 (ČSN EN ISO 2503, chapter 9.7.2.1; ČSN EN ISO 7291, chapter 9.4.2.1; ČSN EN ISO 10524-1, chapter 8.6.1; ČSN EN ISO 10524-1, chapter 8.6.2; ČSN EN ISO 10524-2, chapter 8.3.7.1; ČSN EN ISO 10524-2, chapter 8.3.7.2; ČSN EN ISO 10524-3, chapter 8.6.2.1; ČSN EN ISO 10524-3, chapter 8.6.2.2; ČSN EN ISO 10524-4, chapter 6.5; ČSN EN ISO 10297, chapter 6.9; ČSN EN ISO 10297, Příloha B.1; ČSN EN ISO 22435, chapter 6.8; ČSN EN ISO 22435, chapter 6.10; ČSN EN ISO 15996, chapter 5.9.1; CGA V-9, chapter 7.1.1; CGA V-9, chapter 7.1.2; CGA E-18, chapter 8.5.1; CGA E-4, chapter 7.3.1; CGA E-4, chapter 7.3.2)	Industrial cylinder/manifold pressure regulator, medical pressure regulator and pressure regulator equipped with equipment for flow measurement, manifold and line medical pressure regulator, Industrial/medical pressure regulator integrated with cylinder valve, low-pressure medical pressure regulator, shut-off valve	-

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
42 ²	Pressure-retention test	ZP_C_03 (ČSN EN ISO 2503, chapter 9.7.2.2; ČSN EN ISO 7291, chapter 9.4.2.2; ČSN EN ISO 10524-1, chapter 8.6.3; ČSN EN ISO 10524-2, chapter 8.3.7.3; ČSN EN ISO 10524-3, chapter 8.6.2.3; ČSN EN ISO 22435, chapter 6.9; CGA E-18, chapter 8.5.2; CGA E-4, chapter 7.3.3)	Industrial cylinder/manifold pressure regulator, Medical pressure regulator and pressure regulator equipped with equipment for flow measurement, Manifold and line medical pressure regulator, Industrial/medical pressure regulator integrated with cylinder valve, Low-pressure medical pressure regulator	-
43 ²	Resistance to ignition test	ZP_C_02 (ČSN EN ISO 2503 chapter 9.7.4; ČSN EN ISO 10524-1 chapter 8.7; ČSN EN ISO 10524-2 chapter 8.3.8; ČSN EN ISO 10524-3 chapter 8.7; ČSN EN ISO 10297 Appendix C; ČSN EN ISO 15996 Appendix B; ČSN EN ISO 7291 chapter 9.4.4; ČSN EN ISO 21969, chapter 6.2.4; ASTM G175, chapter 8.1; CGA E-4, chapter 7.1)	Industrial/medical cylinder/manifold/line pressure regulator, Industrial/medical pressure regulator integrated with cylinder valve, Industrial/medical cylinder/manifold shut-off valve without or with residual pressure valve (RPV), Medical high-pressure flexible connection	-
44 ²	Promoted ignition test	ZP_M_02 (ASTM G175, chapter 8.2)	Medical cylinder pressure regulator, Medical pressure regulator integrated with cylinder valve	-
45 ²	Autogenous ignition temperature test in oxygen	ZP_O_01 (ČSN EN ISO 11114-3, chapter 6; ASTM G72/G72M, chapter 8)	Non-metallic material	-

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

**The Appendix is an integral part of
Certificate of Accreditation No: 288/2025 of 12/06/2025**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

GCE, s.r.o.
CAB number 1748, Testing laboratory by GCE
Žižkova 381, 583 01 Chotěboř

- ² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- ³ the laboratory does not apply a flexible approach to the scope of accreditation

Abbreviations:

VIPR – Valve with integrated pressure regulator

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."