



SLOVENSKI STANDARD

SIST EN 1106:2010

01-november-2010

Nadomešča:

SIST EN 1106:2002

Ročne pipe za plinske aparate

Manually operated taps for gas burning appliances

Handbetätigte Einstellgeräte für Gasgeräte

Robinets à commande manuelle pour appareils utilisant les combustibles gazeux

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Ta slovenski standard je istoveten z: ~~SIST EN 1106~~ EN 1106:2010

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ICS:

23.060.99	Drugi ventili	Other valves
27.060.20	Plinski gorilniki	Gas fuel burners

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1106

May 2010

ICS 23.060.40

Supersedes EN 1106:2001

English Version

Manually operated taps for gas burning appliances

Robinets à commande manuelle pour appareils à gaz

Handbetätigte Einstellgeräte für Gasgeräte

This European Standard was approved by CEN on 29 April 2010.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 1106:2010) has been prepared by Technical Committee CEN/TC 58 "Safety and control devices for burners and appliances burning gaseous or liquid fuels", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1106:2001.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This document is intended to be used in conjunction with EN 13611:2007. This document refers to clauses of EN 13611:2007 or adapts clauses by stating "with the following modification", "with the following addition", "is replaced with the following" or "is not applicable" in the corresponding clause. This European Standard adds clauses or subclauses to the structure of EN 13611:2007 which are particular to this standard. It should be noted that these clauses and subclauses are not indicated as an addition.

It should be noted that the following significant technical changes compared to the previous edition have been incorporated in this European Standard:

- a) scope is enlarged to maximum inlet pressures up to and including 50 kPa (500 mbar);
- b) alignment with EN 13611:2007;
- c) updating of Clause 2, Normative references;
- d) requirements from EN 126:2004 relating to "Open and closed position of a tap", "Compensation means for taps" and "Spring effect in taps" were included (refer to 6.101.9 to 6.101.11);
- e) requirements and tests relating to durability of elastomers in contact with gas (7.8 of this standard) are now totally aligned with EN 13611:2007, 7.8.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

EN 1106:2010 (E)**1 Scope**

This European Standard specifies the safety, construction and performance requirements for manually operated taps and pre-setting taps intended for use with gas appliances and similar use, hereafter referred to as "taps".

This European Standard is applicable to taps with declared maximum inlet pressures up to and including 50 kPa (500 mbar) of nominal connection sizes up to and including DN 50 for use with one or more fuel gases in accordance with EN 437.

This European Standard does not apply to manual operated shut-off valves conforming to EN 331.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13611:2007, *Safety and control devices for gas burners and gas burning appliances — General requirements*

3 Terms and definitions

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For the purposes of this document, the terms and definitions given in EN 13611:2007 and the following apply.

3.101**control tap**

direct or indirect manually operated devices with one or more outlets for the control of the flow of gas from an off to an on position and vice versa

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NOTE Parts commonly used in taps are shown as examples in Figures 1 to 5.

Key

- 1 body
- 2 plug
- 3 latch pin
- 4 operating spindle
- 5 flats for handle
- 6 latch pin guide
- 7 spring for operating spindle
- 8 gas inlet
- 9 bearing seal
- 10 gas outlet
- 11 reduced flow rate gas inlet
- 12 reduced flow rate gas way
- 13 overlapping seal
- 14 sealing ring
- 15 restricting screw
- 16 sealing screw for pre-setting screw
- 17 pre-setting screw
- 18 tap
- 19 reduced flow rate screw

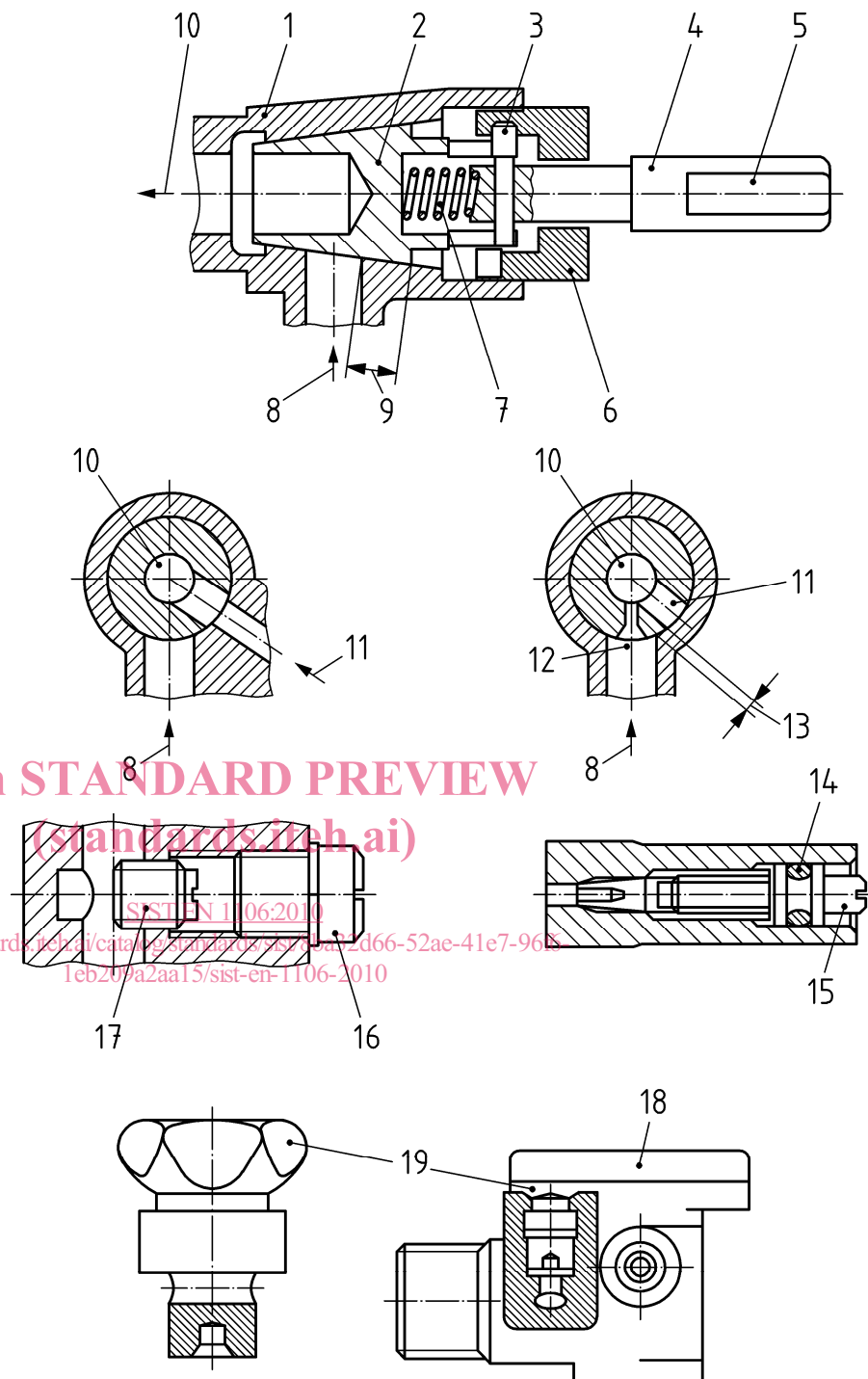
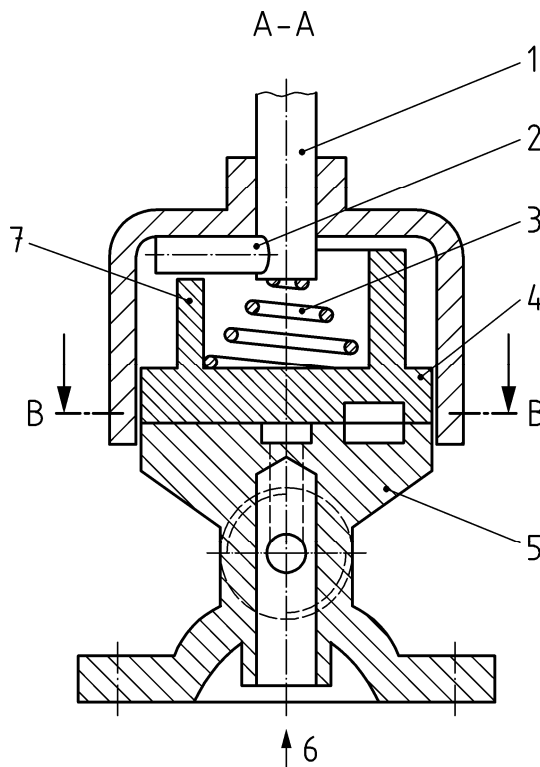


Figure 1 — Taper plug tap

Key

- 1 operating spindle
- 2 latch pin
- 3 spring for operating spindle
- 4 disc
- 5 body
- 6 gas inlet
- 7 latch pin guide
- 8 gas outlet



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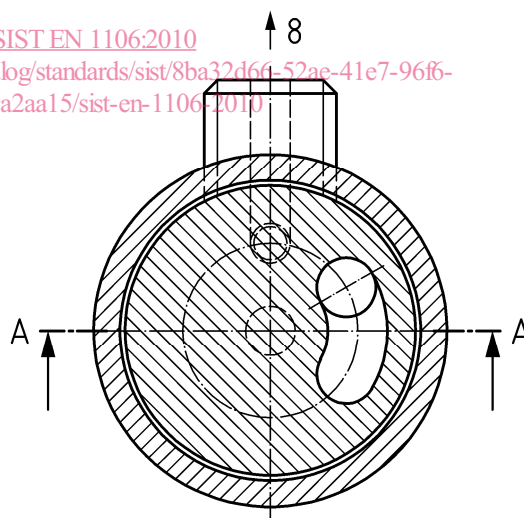
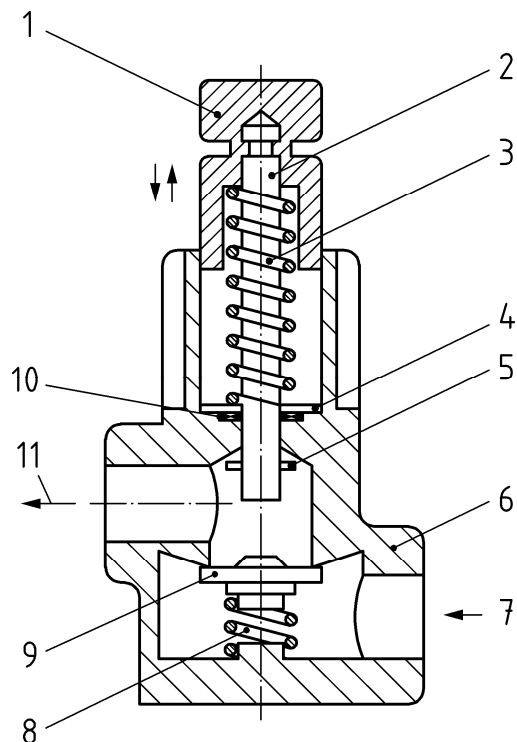


Figure 2 — Disc tap

Key

- 1 operating spindle
- 2 valve rod
- 3 spring for operating spindle
- 4 washer
- 5 spindle stop
- 6 tap body
- 7 gas inlet
- 8 disk spring
- 9 tap disk
- 10 O-ring seal
- 11 gas outlet



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Figure 3 — Linear disc tap
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Key

- 1 operating spindle
- 2 latch pin guide
- 3 adjustable stop
- 4 plug seal
- 5 body
- 6 plug
- 7 spring for operating spindle
- 8 latch pin
- 9 flat(s) for handle
- 10 gas outlet
- 11 main flow rate gas way
- 12 reduced flow rate gas way
- 13 gas inlet

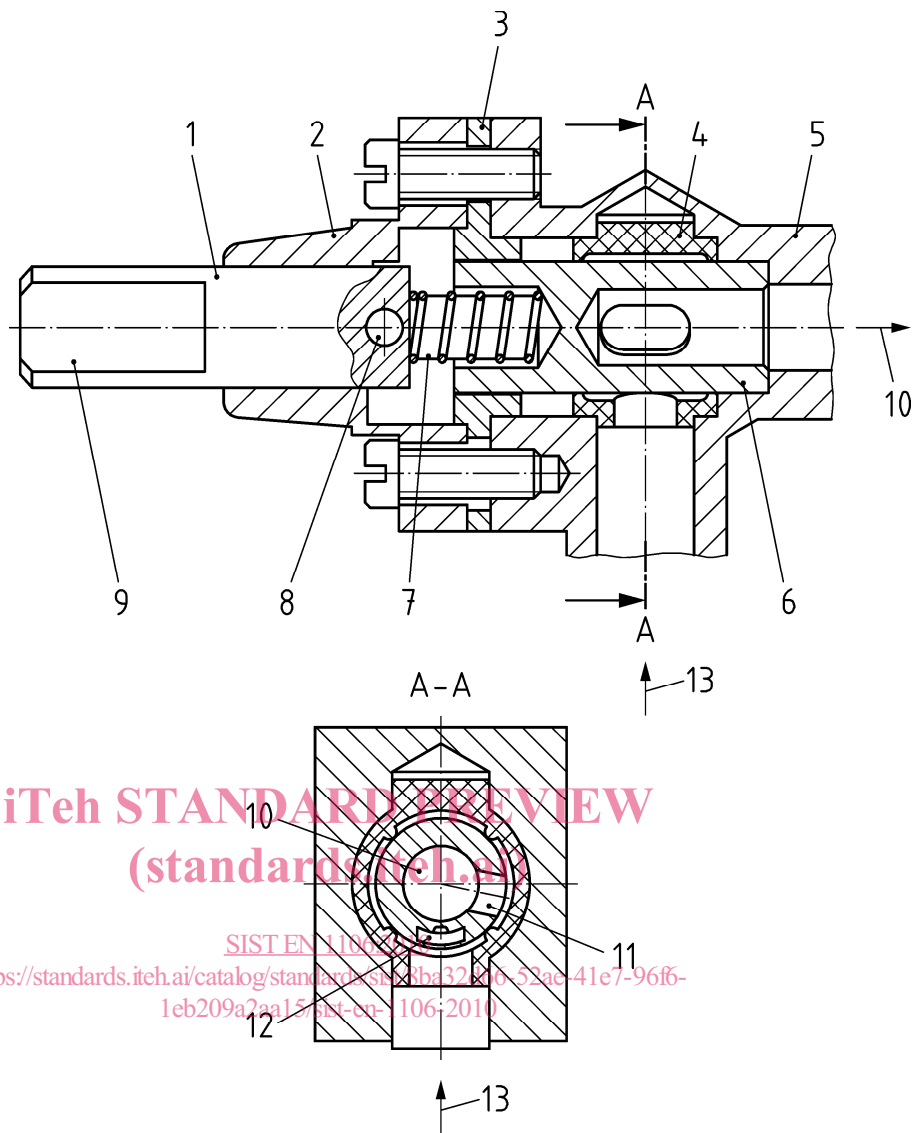


Figure 4 — Parallel plug tap