



**SLOVENSKI STANDARD**  
**oSIST prEN 1106:2020**  
**01-maj-2020**

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**Ročne pipe za plinske aparate**

Manually operated taps for gas burning appliances

Handbetätigte Einstellgeräte für Gasgeräte

Robinets à commande manuelle pour appareils à gaz

**Ta slovenski standard je istoveten z: prEN 1106**

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**ICS:**

23.060.99	Drugi ventili	Other valves
27.060.20	Plinski gorilniki	Gas fuel burners

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## Manually operated taps for gas burning appliances

Robinets à commande manuelle pour appareils à gaz

Handbetätigte Einstellgeräte für Gasgeräte

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 58.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (prEN 1106:2020) 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 document is currently submitted to the CEN Enquiry.

This document will supersede EN 1106:2010.

This document has been prepared under a standardization request 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 13611:2019. This document refers to clauses of EN 13611:2019 or adapts clauses by stating "with the following modification", "with the following addition", "is replaced by the following" or "is not applicable" in the corresponding clause. This document adds clauses or subclauses to the structure of EN 13611:2019 which are particular to this standard. It should be noted that these clauses and subclauses are not indicated as an addition. Subclauses which are additional to those in EN 13611:2019 are numbered starting from 101. Additional Annexes are designed as Annex AA, BB, CC etc.

The following significant technical changes compared to the previous edition have been incorporated in this document:

- <https://standards.iteh.ai/catalog/standards/sist/4ee36302-9e88-4652-a9cf-5f500931e102/osist-pren-1106-2020>
- a) the Scope is enlarged to maximum inlet pressures up to and including 50 kPa (500 mbar);
  - b) alignment with EN 13611:2019;
  - 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 6.101.8 to 6.101.10);
  - e) requirements and tests relating to durability of elastomers in contact with gas (7.8 of this document) are now totally aligned with EN 13611:2019, 7.8.

**prEN 1106:2020 (E)****1 Scope**

This document 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 document 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 document is not applicable to:

- a) manual operated shut-off valves conforming to EN 331;
- b) controls which use auxiliary energy (e.g. electrical energy supplied externally);
- c) an assessment of the control regarding Performance Level (PL) and Safety Integrity Level (SIL).

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 13611:2019, *Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - General requirements*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 13611:2019 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

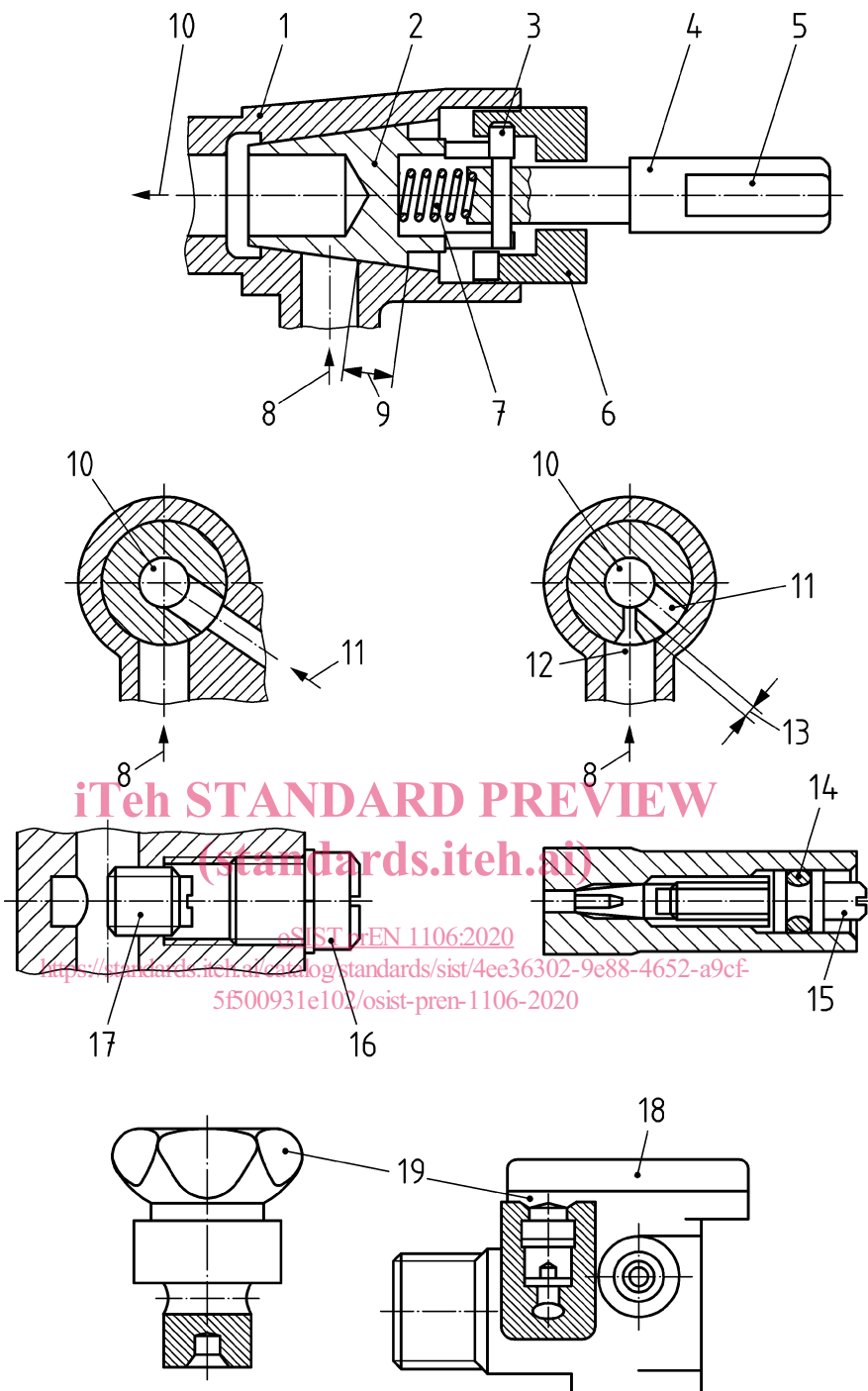
- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

**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

Note 1 to entry: Parts commonly used in taps are shown as examples in Figures 1 to 5.





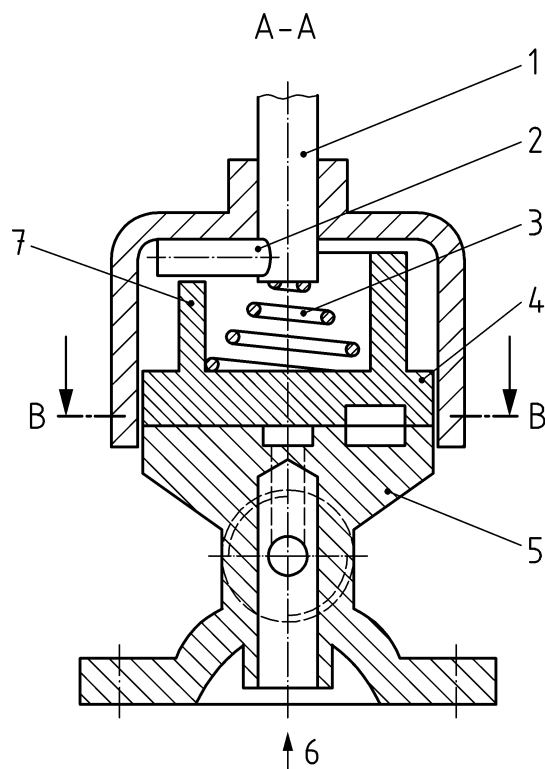
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**Key**

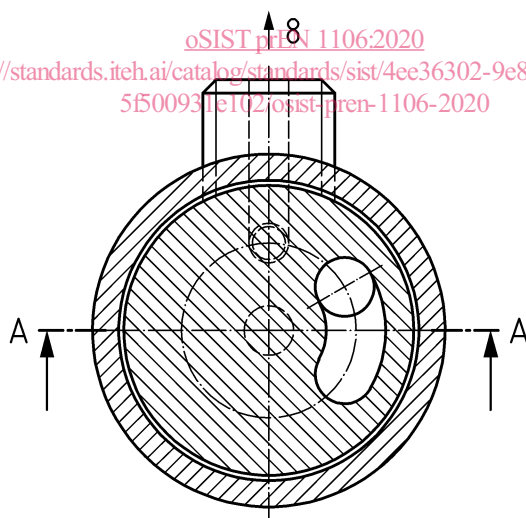
- |    |                              |    |                                     |
|----|------------------------------|----|-------------------------------------|
| 1  | body                         | 11 | reduced flow rate gas inlet         |
| 2  | plug                         | 12 | reduced flow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

**Figure 1 — Taper plug tap**



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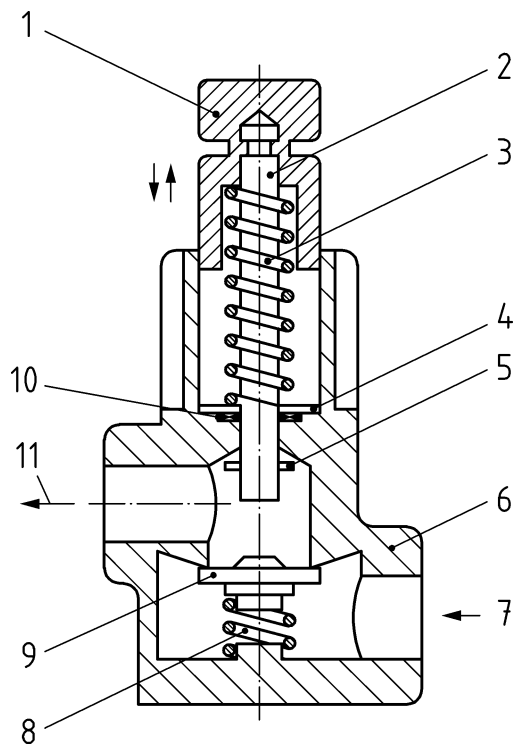
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**Key**

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

**Figure 2 — Disc tap**



**Key**

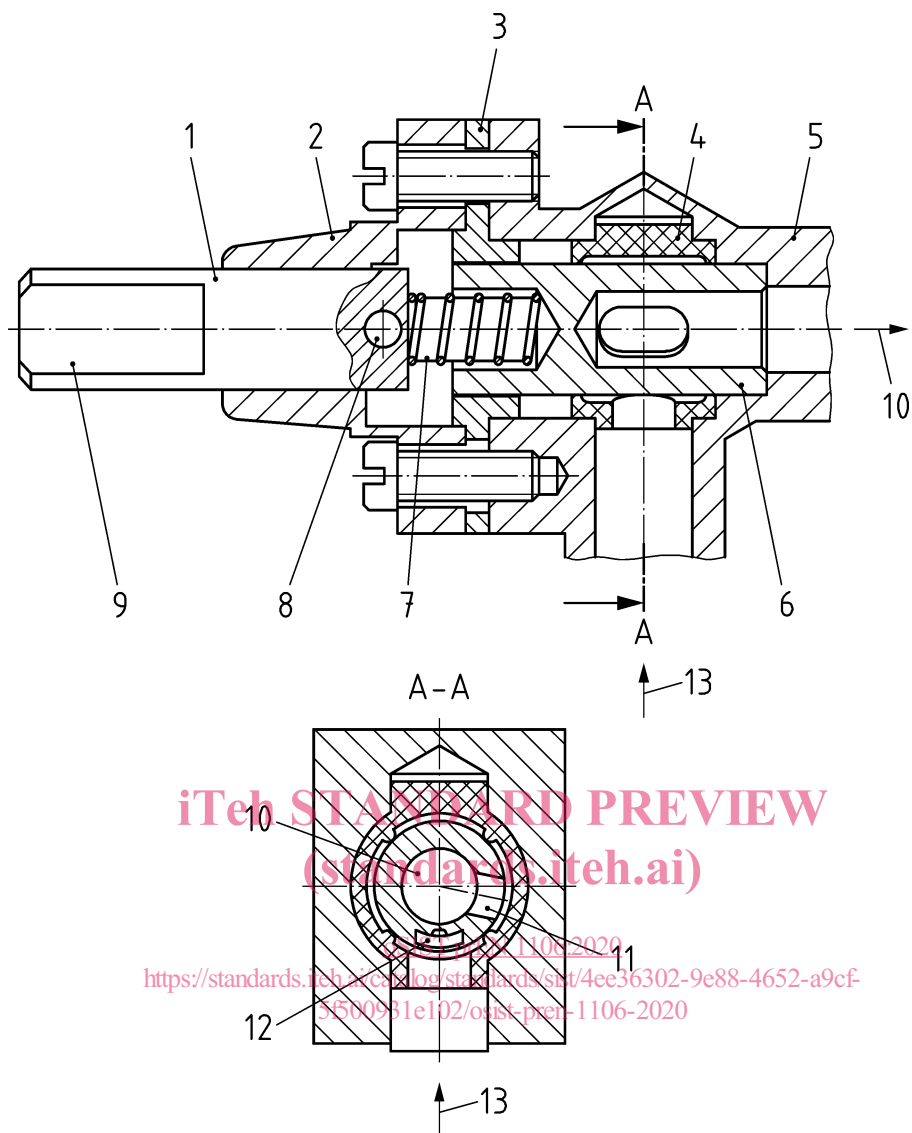
- 1 operating spindle
- 2 valve rod
- 3 spring for operating spindle
- 4 washer
- 5 spindle stop
- 6 tap body

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- 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**

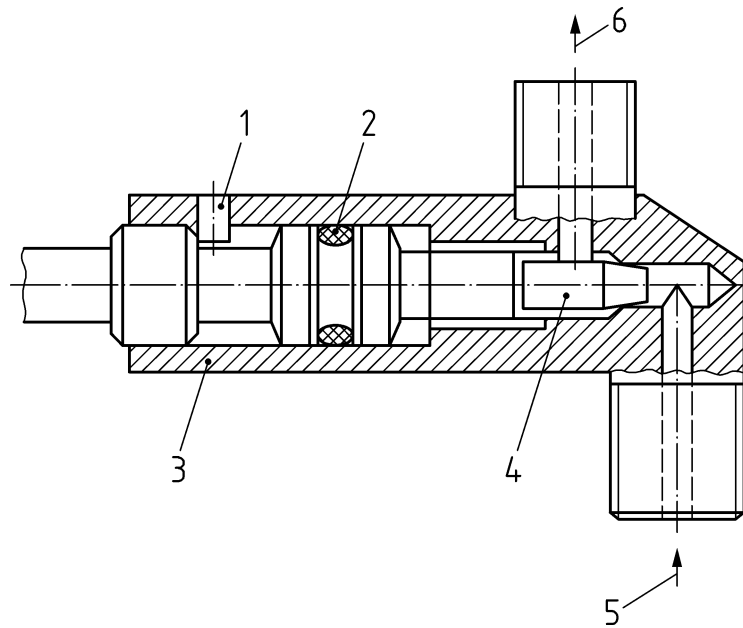


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**Key**

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

**Figure 4 — Parallel plug tap**

**Key**

- |   |           |   |            |
|---|-----------|---|------------|
| 1 | latch pin | 4 | needle     |
| 2 | seal      | 5 | gas inlet  |
| 3 | body      | 6 | gas outlet |

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**Figure 5 — Needle valve**

**3.102****tap closure member**

part of the tap which releases, varies or shuts off the gas flow

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**3.103****gas rate pre-setting device**

device for pre-setting the gas rate to a given value

Note 1 to entry: The setting can be either discontinuous (by change of calibrated orifices) or continuous (by setting screw).

**3.104****flow rate curve**

curve which indicates the air flow in relation to the angle of opening

**3.105****bearing seal**

shortest distance between gas-carrying parts and the atmosphere measured along the length of the sealing surfaces