

<b>STN</b>	<b>Hydrometria</b> <b>Meranie prietoku kvapalín v otvorených korytách</b> <b>Stanovenie vzťahu medzi</b> <b>vodným stavom a prietokom</b>	<b>STN</b> <b>ISO 18320</b>  75 1204
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Hydrometry  
Measurement of liquid flow in open channels  
Determination of the stage-discharge relationship

Hydrométrie  
Mesurage du débit des cours d'eau  
Détermination de la relation hauteur-débit

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy ISO 18320: 2020 a má postavenie oficiálnej verzie.

This Slovak standard includes the English version of the International standard ISO 18320: 2020 and has the status of the official version.

#### **Nahradenie predchádzajúcich slovenských technických noriem**

Táto slovenská technická norma nahrádza STN ISO 1100-2 z júla 2003 v celom rozsahu.

**134840**

## Anotácia

Tento dokument špecifikuje metódy určovania vzťahu medzi vodným stavom a prietokom vo vodomernej stanici. Udáva presnosť pre definovanie vzťahu medzi vodným stavom a prietokom, založenú na dostatočnom počte meraní prietokov, doplnenom odpovedajúcimi meraniami vodných stavov.

V tomto dokumente sa berú do úvahy stabilné a nestabilné korytá a zahŕňa stručné popisy dopadov na vzťah medzi vodným stavom a prietokom, vplyvom prechodu prietokov v toku na prietoky pri vybrežení, zmien prietočnosti v merných profiloch, premenlivého vzdutia a hysterézy. Metódy na určovanie prietoku v staniách s dvoma vodočtami, v staniách s ultrazvukovým meraním rýchlostí a iné zložité merné krivky sa tu detailne neopisujú.

POZNÁMKA. – Tieto typy merných kriviek sú opísané v iných medzinárodných normách, technických špecifikáciách a technických správach, ktoré sú uvedené v Literatúre.

## Národný predhovor

### Normatívne referenčné dokumenty

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN možno získať na webovom sídle [www.unms.sk](http://www.unms.sk).

ISO 748 prijatá ako STN EN ISO 748 Hydrometria. Meranie prietoku kvapalín v otvorených korytách. Rýchlostno-plošné metódy využívajúce merania bodových rýchlostí (ISO 748) (75 1202)

ISO 772 prijatá ako STN EN ISO 772 Hydrometria. Slovník a značky (ISO 772) (75 0100)

### Vypracovanie slovenskej technickej normy

**Spracovateľ normy:** Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

**Technická komisia:** TK 64 Hydrológia a meteorológia

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 113, *Hydrometry*, Subcommittee SC 1, *Velocity area methods*.

This first edition of ISO 18320 cancels and replaces ISO 1100-2:2010, which has been technically revised.

The main changes compared to the previous edition are as follows.

- Major revisions have been made to [Clause 5](#), including a new figure of a stage–discharge relationship and shift curves.
- [Clause 7](#) has been revised to be consistent with new standards on uncertainty.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Hydrometry — Measurement of liquid flow in open channels — Determination of the stage–discharge relationship

## 1 Scope

This document specifies methods of determining the stage–discharge relationship for gauging stations. It specifies an accuracy for defining the stage–discharge relationship based on a sufficient number of discharge measurements, complete with corresponding stage measurements.

This document considers stable and unstable channels and includes brief descriptions of the effects on the stage–discharge relationship of the transition from inbank to overbank flows, shifting controls, variable backwater and hysteresis. Methods of determining discharge for twin-gauge stations, ultrasonic velocity-measurement stations and other complex rating curves are not described in detail.

NOTE These types of rating curves are described separately in other International Standards, Technical Specifications and Technical Reports, which are listed in the Bibliography.

## 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.

ISO 748, *Hydrometry — Measurement of liquid flow in open channels using current-meters or floats*

ISO 772, *Hydrometry — Vocabulary and symbols*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**