
Prenosna oprema za črpanje in uporabo gasilnega sredstva in podporne operacije gašenja - Gasilski ročniki - 1. del: Splošne zahteve

Portable equipment for projecting extinguishing agents and firefighting support operations — Hand-held branchpipes for fire service use — Part 1: Common requirements

Tragbare Geräte zum Ausbringen von Löschmitteln und zur Unterstützung der Brandbekämpfung - Strahlrohre für die Brandbekämpfung - Teil 1: Allgemeine Anforderungen

Équipement portable de projection d'agents d'extinction et les opérations de soutien à la lutte contre les incendies — Lances à main destinées aux services d'incendie et de secours — Partie 1: Exigences communes

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13.220.10 Gašenje požara Fire-fighting

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EUROPEAN STANDARD
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DRAFT
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ICS 13.220.10

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English Version

**Portable equipment for projecting extinguishing agents
and firefighting support operations - Hand-held
branchpipes for fire service use - Part 1: Common
requirements**

Équipement portable de projection d'agents
d'extinction et les opérations de soutien à la lutte
contre les incendies - Lances à main destinées aux
services d'incendie et de secours - Partie 1: Exigences
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und zur Unterstützung der Brandbekämpfung -
Strahlrohre für die Brandbekämpfung - Teil 1:
Allgemeine Anforderungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 192.

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European foreword

This document (prEN 15182-1:2026) has been prepared by Technical Committee CEN/TC 192 “Fire and rescue service equipment”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15182-1:2019.

prEN 15182-1:2026 contains the following significant technical changes compared to EN 15182-1:2019:

- the first part of the title of the standard has been changed;
- scope: new wording and update of the list of exclusions;
- definitions 3.6.1 (reference pressure) and 3.6.2 (median pressure) has been updated;
- definitions 3.6.4 (test pressure) has been deleted as this term is not used in the document;
- Clause 4 has been updated;
- 6.1 has been updated and completed with a warning;
- 6.2.2 has been updated;
- 6.2.3 has been updated;
- 6.5.1: deletion of the list of pressures (not useful in this part);
- 6.5.2 and 6.5.3: hand protection is now required;
- 8.2 has been updated;
- Annex A: Figure A.1 has been updated;
- improvement of the wording/editorial changes

Introduction

This document has been created to provide a minimum level of safety and performance criteria.

Its purpose is not to define a specific branchpipe design but to help the user in understanding and choosing the correct equipment.

The Working Group in charge of this document has thoroughly addressed and discussed the issue of electrical safety in relation to using water branchpipes. However, an electrical test is not incorporated into this document as international experience, as well as research (NFPA handbook, French research, etc) have shown that any “artificial” or “laboratory style” testing will not take into account poor visibility and other conditions present on any fire ground, nor the problem of estimating distances under these conditions. When fighting fires in or near electrical installations, the power is cut off as soon as possible (see the operating instructions, 8.1). Also, it is best practice to maintain a maximum possible safety distance (at least 1 m up to 1 000 V) and to use a spray jet with a minimum spray angle of 30 °.

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1 Scope

This document specifies the minimum common safety and performance requirements of hand-held branchpipes used by fire and rescue service equipment.

This document defines:

- test methods;
- classification and designation;
- instructions for use and maintenance;
- marking.

NOTE The additional specific requirements applicable to hand-held branchpipes are defined in EN 15182-2¹ (combination branchpipes PN 16), EN 15182-3² (Smooth bore and/or one fixed spray jet angle branchpipes PN 16) and EN 15182-4³ (High pressure branchpipes PN 40).

This document is not applicable to:

- branchpipes covered by the EN 671 series;
- foam branchpipes covered by EN 16712-3;
- CAFS branchpipes;
- powder branchpipes;
- branchpipes with a maximum working pressure above 40 bar.

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 15182-2;¹ *Portable equipment for projecting extinguishing agents and firefighting support operations — Hand-held branchpipes for fire service use — Part 2: Combination branchpipes PN 16*

EN 15182-3;² *Portable equipment for projecting extinguishing agents and firefighting support operations — Hand-held branchpipes for fire service use — Part 3: Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16*

EN 15182-4;³ *Portable equipment for projecting extinguishing agents and firefighting support operations — Hand-held branchpipes for fire service use — Part 4: High pressure branchpipes PN 40*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

¹ Under preparation, currently: prEN 15182-2:2026.

² Under preparation, currently: prEN 15182-3:2026.

³ Under preparation, currently: prEN 15182-4:2026.

prEN 15182-1:2026(E)

— ISO Online browsing platform: available at <https://www.iso.org/obp/>

— IEC Electropedia: available at <https://www.electropedia.org/>

3.1**branchpipe**

combination of components that connects to a liquid extinguishing agent supply via a hose and coupling and projects liquid extinguishing agent according to the operators' requirements

3.2**closed branchpipe**

branchpipe where the main shut off valve is in the closed position

3.3**main shut off valve**

valve that is first in the flow line

3.4**open branchpipe**

branchpipe where all valves are in the fully open position

3.5**nozzle**

component of a branchpipe that controls the liquid extinguishing agent flow rate and/or pattern

3.6**pressures**

Note 1 to entry: Pressures expressed in bars are measured at the inlet of the branchpipe.

Note 2 to entry: 1 bar = 0,1 MPa (10^5 Pa).

3.6.1**reference pressure**

p_R

standard working pressure used to run hydraulic tests

Note 1 to entry: $p_R = (6 \pm 0,1)$ bar

3.6.2**median pressure**

p_m

average pressure of the pressure control range for type 4 branchpipes and type 4 high pressure branchpipes

Note 1 to entry: Type 4 branchpipes and type 4 high pressure branchpipes are respectively defined in EN 15182-2¹ and EN 15182-4³.

3.6.3**nominal pressure**

p_N

maximum working pressure

3.6.4**burst pressure** p_B

static pressure used for burst test

3.7**straight jet**

jet having the maximum throw and mechanical effect

3.8**spray jet**

any jet different to the straight jet

3.9**flush**

position allowing the branchpipe to clear debris

4 Description

The components of a branchpipe, where used or necessary, are named as followed and shown in Figure 1:

- nozzle;
- fitting system;
- gripping device;
- open and shut-off device (e.g. operated by a valve handle, a lever or a trigger, an open and shut-off device can also be accommodated in a twist shut-off nozzle);
- jet/spray adjustment system(s) (e.g. operated by a rotating operating element);
- flowrate adjustment system (e.g. operated by a valve handle, a rotating operating element or a trigger).

These components may consist of a single piece or several parts.