

ICS 13.220.10

English Version

Fire service equipment - Summary of water pressures specified in published CEN/TC 192 standards

Équipement des services d'incendie - Bilan des pressions
hydrauliques spécifiées dans les normes publiées du
CEN/TC 192

Ausrüstung für die Feuerwehr - Zusammenfassung von
Festlegungen zum Wasserdruck in veröffentlichten Normen
von CEN/TC 192

This Technical Report was approved by CEN on 30 August 2010. It has been drawn up by the Technical Committee CEN/TC 192.

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Foreword

This document (CEN/TR 16099:2010) has been prepared by Technical Committee CEN/TC 192 “Fire service equipment”, the secretariat of which is held by BSI.

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Introduction

Primarily this Technical Report is intended for use by the relevant CEN/TC 192 Working Groups when preparing new standards or revising existing ones. The Technical Report may also be of value to fire and rescue services when designing, selecting, operating or maintaining extinguishing equipment and also to other CEN committees or other organisations who may work on related matters.

The aim of this Technical Report, as well as providing a collation of existing water pressures contained in published CEN/TC192 standards, is to assist in working towards preparing more common definitions, values and descriptions within new or revised TC 192 standards and to ensure such definitions are clearer, more consistent and easier for the users of the standards.

NOTE Terms and definitions for pressures are given in the relevant EN standards listed in Clause 3. The equivalent definition for the terms within each section may not be identical.

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1 Scope

This Technical Report identifies the various elements of fire ground operations which work together to form a system for the delivery of water or other extinguishing media. The Technical Report also identifies the CEN/TC 192 Working Groups responsible for the standard(s) for that specific item(s) of equipment.

The pressures at which these various items of equipment operate at, as described in their respective standard, are identified and collated and an explanation as to what such pressures relate to is given.

Recommendations are provided in relation to the revision of existing standards and the preparation of new ones in respect of water pressures.

2 Fire ground system of operation

A schematic representation of a typical water delivery system for firefighting operations is shown in Figure 1, with following sections:

- Section 0: Hydrants (for information only);
- Section 1: Layflat hose for water supply;
- Section 2: Fire pump;
- Section 3: Fire appliance – plumbing & valve installation;
- Section 4: Semi rigid hose – to go on hose reel;
- Section 5: Layflat hose for fire attack;
- Section 6: Nozzles;
- Section 7: Fire ground equipment, dividers, etc.;
- Section 8: Portable monitors;
- Section 9: Suction hoses;
- Section 10: Vehicle mounted monitors.

Figure 2 identifies the individual components that form the system, the appropriate European Standards and the Working Groups of CEN/TC 192 responsible for preparing those standards.