

# SVENSK STANDARD

## SS-EN 16146:2012+A1:2014



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### **Sanitetsarmaturer – Utdragbara duschslangar för vattenförsörjningssystem typ 1 och typ 2 – Allmänna tekniska specifikationer**

### **Sanitary tapware – Extractable shower hoses for sanitary tapware for supply systems type 1 and type 2 – General technical specification**



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Denna standard ersätter SS-EN 16146:2012, utgåva 1.

The European Standard EN 16146:2012+A1:2014 has the status of a Swedish Standard. This document contains the official version of EN 16146:2012+A1:2014.

This standard supersedes the Swedish Standard SS-EN 16146:2012, edition 1.

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EUROPEAN STANDARD

**EN 16146:2012+A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2014

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Supersedes EN 16146:2012

English Version

## Sanitary tapware - Extractable shower hoses for sanitary tapware for supply systems type 1 and type 2 - General technical specification

Robinetterie sanitaire - Flexibles de douchettes extractibles pour robinetterie sanitaire pour les systèmes d'alimentation en eau de types 1 et 2 - Spécifications techniques générales

Sanitärarmaturen - Ausziehbare Brauseschläuche für Sanitärarmaturen für Wasserversorgungssysteme vom Typ 1 und Typ 2 - Allgemeine technische Spezifikation

This European Standard was approved by CEN on 10 November 2012 and includes Amendment 1 approved by CEN on 9 September 2014.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 16146:2012+A1:2014) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by May 2015, and conflicting national standards shall be withdrawn at the latest by May 2015.

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This document includes Amendment 1 approved by CEN on 9 September 2014.

This document supersedes EN 16146:2012.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

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## Introduction

In respect of potential adverse effects on the quality of water intended for human consumption caused by the product covered by this standard, this standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.

It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

# 1 Scope

This European Standard applies to hoses for extractable outlets of any material intended for equipping sanitary tapware for sinks and basins. Such hoses will only be connected downstream of the obturator of the tapware. The tapware will comply with EN 200, EN 817, EN 1111, EN 1286 or EN 1287 (see [1], [2], [3], [5] and [6]).

Hoses intended to connect sanitary tapware to the water supplies are not covered by this standard.

This European Standard specifies:

- the dimensional, mechanical and hydraulic characteristics with which the hose for extractable outlets shall comply;
- the procedures for testing these characteristics.

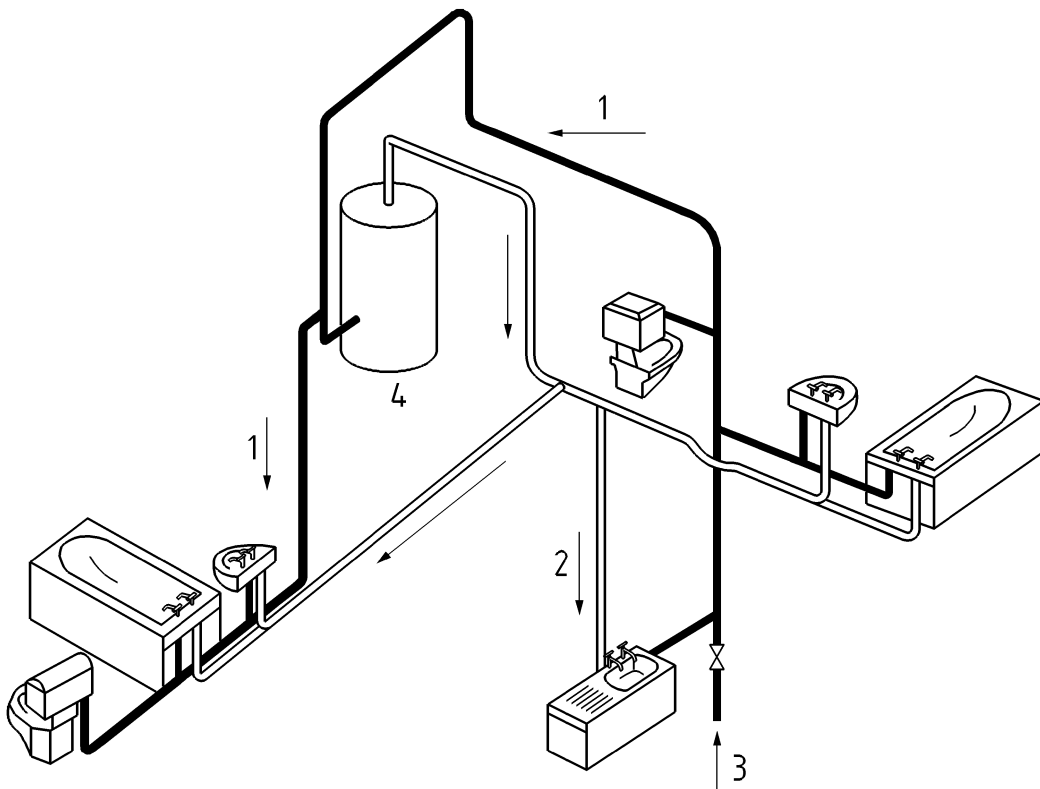
Details of pressures and temperatures are given in Table 1.



**Table 1 — Conditions of use/Classifications**

Water supply system	Operating range of hoses for extractable outlets		Flow rates ( $Q$ ) <sup>a</sup>
	Limits	Recommended	
Type 1 see Figure 1	<u>Dynamic Pressure</u> 0,05 MPa ≤ $P$ ≤ 0,5 MPa (0,5 bar ≤ $P$ ≤ 5 bar)	<u>Dynamic Pressure</u> 0,1 MPa to 0,3 MPa (1,0 bar to 3,0 bar)	Class 1: $Q \geq 0,25$ l/s (15 l/min)
			Class 2: $Q \geq 0,15$ l/s (9 l/min)
Type 2 see Figure 2	<u>Dynamic Pressure</u> 0,01 MPa to 0,2 MPa (0,1 bar to 2,0 bar)	<u>Dynamic Pressure</u> 0,02 MPa to 0,10 MPa (0,2 bar to 1,0 bar)	Class E: $0,06$ l/s < $Q$ < $0,18$ l/s (3,6 l/min < $Q$ < 10,8 l/min.)
			Class H: $0,18$ l/s ≤ $Q$ (10,8 l/min ≤ $Q$ )
Temperature	$T \leq 70^\circ\text{C}$	$T \leq 60^\circ\text{C}$	
<sup>a</sup> See details in Table 3.			



**Key**

- 1 cold water
- 2 hot water
- 3 mains supply pipe (Supply pressures up to 1,0 MPa (10 bar))
- 4 water heater

**Figure 1 — Type 1 – Supply system - with a pressure range of 0,05 MPa to 1,0 MPa (0,5 bar to 10 bar)**