
**Kmetijski in gozdarski stroji - Okoljevarstvene zahteve za škropilnice - 4. del:
Stalno nameščene in polprenosne škropilnice (ISO/DIS 16119-4:2026)**

Agricultural and forestry machinery - Environmental requirements for sprayers - Part 4:
Fixed and semi-mobile sprayers (ISO/DIS 16119-4:2026)

Land- und Forstmaschinen - Umweltanforderungen an Pflanzenschutzgeräte - Teil 4:
Fest installierte und teilbewegliche Geräte (ISO/DIS 16119-4:2026)

Matériel agricole et forestier - Exigences environnementales pour les pulvérisateurs -
Partie 4: Pulvérisateurs fixes et semi-mobiles (ISO/DIS 16119-4:2026)

Ta slovenski standard je istoveten z: prEN ISO 16119-4

ICS:

65.060.40 Oprema za nego rastlin Plant care equipment

oSIST prEN ISO 19119-4:2026

en,fr,de

Sample Document

get full document from standards.iteh.ai



DRAFT International Standard

ISO/DIS 16119-4

Agricultural and forestry machinery — Environmental requirements for sprayers —

Part 4: Fixed and semi-mobile sprayers

*Matériel agricole et forestier — Exigences environnementales
pour les pulvérisateurs —*

Partie 4: Pulvérisateurs fixes et semi-mobiles

ICS: 65.060.40

ISO/TC 23/SC 6

Secretariat: **AFNOR**

Voting begins on:
2026-10-06

Voting terminates on:
2026-12-29

This document has not been edited by the ISO Central Secretariat.

ISO/CEN PARALLEL PROCESSING

Reference number
ISO/DIS 16119-4:2026(en)

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

© ISO 2026

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO/DIS 16119-4:2026(en)

Contents

Page

Introduction	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements	3
4.1 Pump/tank unit	3
4.1.1 Static leaks	3
4.1.2 Residual volume	3
4.1.3 Spray tank(s)	3
4.1.4 Pump	6
4.1.5 Lines (hoses and pipes)	6
4.1.6 Filters	7
4.1.7 Measuring systems	7
4.1.8 Provisions for connecting testing equipment	7
4.2 Adjustment of the dose/volume application rate	8
4.2.1 General	8
4.2.2 Pressure adjustment devices	8
4.2.3 Direct injection system (if provided)	8
4.2.4 Calibration aids	9
4.3 Application unit	9
4.3.1 Controls	9
4.3.2 Pressure drop	9
4.3.3 Nozzles	9
4.3.4 Horizontal spray boom	9
4.3.5 Vertical spray boom and other non-horizontal spray booms	10
4.3.6 Spray gun and lance	11
4.3.7 Autonomous application units	11
4.3.8 Control of spray drift	12
4.4 Cleaning	12
4.4.1 Rinse water tank	12
4.4.2 Cleaning systems	12
4.5 Plant protection product container cleaning device	13
4.6 Additional requirements for modules	13
4.6.1 General	13
5 Verification	13
6 Marking	15
7 Operator's manual	15
Annex A (normative) Verification of pulsations of the pump	16
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation (EU) 2023/1230 aimed to be covered	17
Bibliography	18

ISO/DIS 16119-4:2026(en)**Introduction**

The requirements of this part of EN ISO 16119 are based on the test methods given in ISO 5682-2:1997, which were primarily developed for hydraulic sprayers. For other types of sprayers, other test methods and/or test criteria may be needed and may be the subject of future investigation and a revision of this part of EN ISO 16119.

This document is a type C standard as stated in EN ISO 12100.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

Sample Document

get full document from standards.iteh.ai

Agricultural and forestry machinery — Environmental requirements for sprayers —

Part 4: Fixed and semi-mobile sprayers

1 Scope

This part of EN ISO 16119 specifies requirements and the means for their verification for the design and performance of fixed and semi-mobile sprayers, with regard to minimizing the potential risk of environmental contamination during use, including misuse foreseeable by the manufacturer.

This type of spraying system is generally a combination of separate elements (main tank, pump and application unit) that can be assembled in fixed installations (fixed sprayers) or with moving parts (semi-mobile sprayers).

It does not apply to sprayers with thermal droplet production and foggers, in particular if they are intended to be application equipment for space/spatial treatments.

It is intended to be used with EN ISO 16119-1, which gives general requirements common to all the sprayer types covered by EN ISO 16119. When requirements of this part of EN ISO 16119 are different from those stated in EN ISO 16119-1, the requirements of this part of EN ISO 16119 take precedence over the requirements of EN ISO 16119-1 for machines within the scope of this part of EN ISO 16119. This part of EN ISO 16119 does not cover safety aspects (see EN ISO 4254-6).

This part of EN ISO 16119 is not applicable to sprayers manufactured before the date of its publication.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 837-1:1997, *Pressure gauges – Part 1: Bourdon tube pressure gauges – Dimensions, metrology, requirements and testing*

ISO 4102:1984, *Equipment for crop protection — Sprayers — Connection threading*

EN ISO 4254-6:20XX, *Agricultural machinery — Safety — Part 6: Sprayers and liquid fertilizer distributors*

ISO 4444:2022, *Agricultural sprayers — Recording of spray drift parameters*

ISO 5681:2020, *Equipment for crop protection — Vocabulary*

ISO 5682-1:2017, *Equipment for crop protection — Spraying equipment — Part 1: Test methods for sprayer nozzles*

ISO 5682-2:2017, *Equipment for crop protection — Spraying equipment — Part 2: Test methods to assess the horizontal transverse distribution for hydraulic sprayers*

ISO 5682-3:2017, *Equipment for crop protection — Spraying equipment — Part 3: Test method to assess the performance of volume/area adjustment systems*