

INTERNATIONAL STANDARD

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Hydraulic agricultural sprayers — Data sheets —

Part 2:

Technical specifications related to
components

*Pulvérisateurs agricoles à jet projeté — Fiches techniques —
Partie 2: Spécifications techniques relatives aux composants*



Reference number
ISO 10627-2:1996(E)



Documents
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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10627-2 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*.

ISO 10627 consists of the following parts, under the general title *Hydraulic agricultural sprayers — Data sheets*:

- *Part 1: Typical layout*
- *Part 2: Technical specifications related to components*

Annex A forms an integral part of this part of ISO 10627. Annex B is for information only.

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Hydraulic agricultural sprayers — Data sheets —

Part 2:

Technical specifications related to components

1 Scope

This part of ISO 10627 establishes the technical specification of data sheet presentation, for the preparation of documents giving information about dimensions, materials, characteristics and design of component parts of non-air-assisted agricultural sprayers. Data sheets prepared according to this part of ISO 10627 will facilitate discussion between the manufacturers of sprayers and the manufacturers of component parts and accessories.

This part of ISO 10627 does not cover mass and dimensions of the sprayer in total, nor information related to the basic machine required by the manufacturer. Such information is given in ISO 10627-1.

This part of ISO 10627 applies during the conception of the data sheet by the manufacturer or importer of non-air-assisted agricultural sprayers, mounted, towed or self-propelled, used for the protection of crops and application of liquid fertilizers.

A list of International Standards related to this part of ISO 10627 is given in annex B.

2 General specifications

NOTE — Codes are explained in annex A.

2.1 Manufacturer

Name and address of manufacturer:

.....

.....

Distributor/importer:

.....

2.2 Type and year of manufacture

Implement type:

Year of manufacture:

Location of marking (code 101):

2.3 Trade-name(s)

.....

3 Tank specifications

	Principal tank	Rinsing tank	Other tank
3.1 Material (code 102)			
3.2 Volume			
Nominal volume:	l	l	l
Total volume:	l	l	l
3.3 Dimensions			
Length:	mm	mm	mm
Width:	mm	mm	mm
Height (to upper edge of filling opening):	mm	mm	mm
Location (code 304):			

3.4 Level indicator

	Principal tank	Rinsing tank	Other tank
Type (code 303):			
Indicating range:	from..... l to l	from..... l to..... l	from..... l to..... l
Graduation:	l	l	l
Location (code 304):			

3.5 Filling hole

	Principal tank	Rinsing tank	Other tank
Location (code 306):			
Diameter:	mm	mm	mm
Tank filling strainer			
material (code 102):			
diameter:	mm	mm	mm
depth:	mm	mm	mm
strainer surface:	mm ²	mm ²	mm ²
mesh width:	mm	mm	mm
Design of lid (code 305):			

3.6 Agitator

	Principal tank	Rinsing tank	Other tank
Type (code 307):			
Design (code 308):			
Location (code 310):			

3.7 Drainage device

	Principal tank	Rinsing tank	Other tank
Type (code 312):			
Design (code 313):			
Location (code 314):			

3.8 Filling device

	Principal tank	Rinsing tank	Other tank
Type (code 315):			
Design (code 316):			
Location (code 317):			
Volumetric flowrate with water:	l/min	l/min	l/min
Shut-off valve	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
location of shut-off valve:			
Filtration device	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
design (code 318):			
location (code 319):			

3.9 Dosing devices for crop protection products

Type (code 320):			
Design (code 321):			
Location (code 319):			
Measuring range:			
Measuring accuracy:			

4 Pump specifications**4.1 Main pump**

Manufacturer:	
Design (code 402):	
Designation:	
Location (code 403):	

Drive (code 404):

Connection:

Nominal pressure:

MPa

Nominal speed:

r/min

Volumetric flowrate

non-pressurized:

l/min

at nominal pressure:

l/min

Pressure pulsation damper

design (code 407):

material (code 102):

4.2 Other pumps

Function (code 405):

Manufacturer:

Design (code 402):

Designation:

Location (code 403):

Drive (code 404):

Connection:

Nominal pressure:

MPa

Nominal speed:

r/min

Volumetric flowrate

non-pressurized:

l/min

at nominal pressure:

l/min

Pressure pulsation damper

design (code 407):

material (code 102):

5 Spray boom specifications

5.1 General

Design (code 703):

Working width:

 m

Number of feeding lines:

Number of spray boom subdivisions:

Spray boom extension

 YES NO

additional working width:

 m

5.2 Suspension

Design:

 Rigid Mobile

If mobile, range of movement:

 ° up to °

5.3 Height adjustment (code 702)

mechanical, by means of

hydraulic, by means of

other means: which

height adjustment range:

 m

5.4 Safety device to maintain chosen height spray boom

Design:

5.5 Slope compensation system

Design (code 706):	
Function (code 707):	
Control (code 103):	
Swing range:	° up to°
Range of levelling:	up to° slope

5.6 Nozzles

Nozzle tips

designation:	
design (code 711):	
manufacturer:	
material (code 102):	
spray angle at 0,3 MPa:	°
nozzle spacing:	 cm
optimum distance to the target surface:	 mm
distance range to the target surface:	from m to m
optimum spray pressure:	 MPa
spraying pressure range:	from ... MPa to ... MPa
Nozzle holder:	Single Multiple
designation:	
design (code 715):	
function (code 716):	
control (code 103):	

material (code 102):

thread dimensions:

bayonet connections:

Anti-drip device

designation:

design (code 720):

material (code 102):

opening pressure:

 MPa

closing pressure:

 MPa**Individual shut-off device**

design (code 721):

function (code 721):

control (code 103):

Lateral distance:

 mm**Nozzle supply line**

design (code 801):

material (code 102):

inside diameter:

 mm

outside diameter:

 mm**5.7 Spray edge working device**

Designation:

Design: