



TEST REPORT

of the
Julius Kühn-Institut
Federal Research Institute
for Cultivated Plants, Braunschweig



**Injector hollow cone nozzle John Deere PSIHCCQ8001
(ceramics, plastic-coated, orange) identical with
Lechler ITR 80-01 C**

Approved for spraying in orchards and vineyards

Applicant

Hypro EU LTD
Station Road
Longstanton
CB24 3DS CAMBRIDGE, UK

Manufacturer

Lechler GmbH
Präzisionsdüsen – Tropfenabscheider
Ulmer Straße 128
72555 Metzingen

Approved on

23 April 2021

Assessment

The hollow cone nozzle John Deere PSIHCCQ8001 (ceramics, plastic-coated, orange) was tested with filter and bayonet cap. The nozzle is suitable for spraying in orchards and vineyards, provided that the following technical requirements are fulfilled:

1. Installation in nozzle tubes with a sufficient and a steady amount of liquid flow,
2. Spray pressure – measured in front of the nozzle – 3.0 and 20.0 bar; liquid volume flow per nozzle as stated in table below.

Suitable precautions should be taken to assure that the nozzles do not get blocked up or drip when in use. The colour coding of the nozzle complies with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Droplet spectrum (BCPC-Standard)
3.0	0.39	-2.14 %	very coarse
4.0	0.44	-	very coarse
5.0	0.49	-4.95 %	very coarse
6.0	0.54	-	very coarse
8.0	0.63	-	very coarse
10.0	0.70	-4.96 %	very coarse
12.0	0.77	-	coarse
15.0	0.86	-4.55 %	-
20.0	0.99	-	-

Basics for testing

The tests were carried out on basis of the Regulations for Testing Plant Protection Equipment (JKI-Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of ISO 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

Field testing:

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Technical testing:

Institute for Application Techniques in
Plant Protection
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