



TEST REPORT

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



**Hollow cone nozzle John Deere PSHCCQ80015
(Ceramics, plastic-coated, green)**

Approved for spraying 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
9 May 2021

Assessment

The hollow cone nozzle John Deere PSHCCQ80015 (ceramics, plastic-coated, green) was tested with filter and bayonet cap (System TeeJet). The nozzle is suitable for 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 – between 3.0 and 15.0 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 comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume with and without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables
3.0	0.58	-3,20 %
4.0	0.67	-
5.0	0.75	-4.57 %
6.0	0.82	-
7.0	0.89	-
8.0	0.95	-
9.0	1.01	-
10.0	1.06	-4.79 %
11.0	1.11	-
12.0	1.16	-
13.0	1.21	-
14.0	1.26	-
15.0	1.30	-4.41 %

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 Technique in
Plant Protection
Messeweg 11-12,
38104 Braunschweig

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