


## HARDI 1299 Hollow cone nozzles





These nozzles are superior in fine droplet delivery for optimal coverage of plant protection compounds. The high durability of the ceramic material makes this nozzle extensively used in orchard / mistblower applications at high working pressure or when applying abrasive materials.


- High efficiency nozzles
- Best choice for orchard applications
- Flow rates from 0.21 – 4.24 (at 3 – 15 bar)
- Working pressure from 3 to 25 bar
- CERAMIC – superior durability at high working pressure


Useful on droplegs for under leaf spraying where turbulence is required for good coverage. Also used on hand-held sprayers for insecticide and fungicide application and for band spraying.


bar		l/min
<b>1299-06 White 371507</b>		
3.0	VF	0.21
5.0	VF	0.27
6.0	VF	0.30
8.0	VF	0.34
10.0	VF	0.38
15.0	VF	0.47


bar		l/min
<b>1299-12 Yellow 371510</b>		
3.0	F	0.57
5.0	VF	0.74
6.0	VF	0.81
8.0	VF	0.94
10.0	VF	1.05
15.0	VF	1.28


bar		l/min
<b>1299-17 Grey 371972</b>		
3.0	F	1.16
5.0	F	1.50
6.0	F	1.64
8.0	F	1.90
10.0	VF	2.12
15.0	VF	2.60


bar		l/min
<b>1299-08 Lilac 371508</b>		
3.0	VF	0.29
5.0	VF	0.37
6.0	VF	0.41
8.0	VF	0.47
10.0	VF	0.52
15.0	VF	0.64

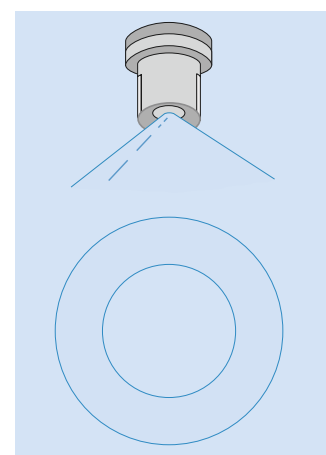
bar		l/min
<b>1299-14 Orange 371511</b>		
3.0	F	0.76
5.0	VF	0.98
6.0	VF	1.07
8.0	VF	1.24
10.0	VF	1.39
15.0	VF	1.70


bar		l/min
<b>1299-18 Green 371513</b>		
3.0	F	1.37
5.0	F	1.77
6.0	F	1.94
8.0	F	2.24
10.0	VF	2.50
15.0	VF	3.07

bar		l/min
<b>1299-10 Brown 371509</b>		
3.0	VF	0.37
5.0	VF	0.48
6.0	VF	0.53
8.0	VF	0.61
10.0	VF	0.68
15.0	VF	0.83

bar		l/min
<b>1299-16 Red 371512</b>		
3.0	F	1.08
5.0	F	1.39
6.0	F	1.52
8.0	VF	1.76
10.0	VF	1.97
15.0	VF	2.41

bar		l/min
<b>1299-19 Black 371973</b>		
3.0	F	1.55
5.0	F	2.00
6.0	F	2.19
8.0	F	2.53
10.0	F	2.83
15.0	VF	3.46



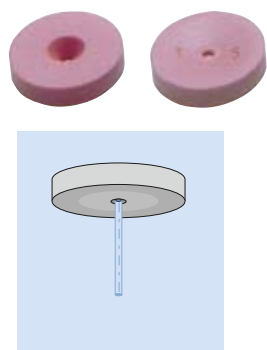
bar		l/min
<b>1299-20 Blue 371514</b>		
3.0	M	1.90
5.0	M	2.45
6.0	F	2.68
8.0	F	3.10
10.0	F	3.46
15.0	F	4.24

 = Spray quality:  
■ Very fine (VF), ■ Fine (F), ■ Medium (M), ■ Coarse (C), ■ Very Coarse (VC).

### 1099 Solid stream nozzles - CERAMIC

This nozzle disperses the spray liquid in a concentrated stream. Its main use is calibration of flows, often in connection with other nozzle components.

The capacity can be changed by placing the nozzle with or against the direction of flow.



1099 bar	1099-8		1099-10		1099-12		1099-15		1099-18		1099-20		1099-23		1099-30	
	l/min															
2.0	0.54	0.43	0.91	0.65	1.14	0.94	1.88	1.42	2.54	1.98	3.09	2.46	3.98	3.18	6.43	5.18
5.0	0.83	0.68	1.38	1.01	1.78	1.47	2.89	2.23	4.03	3.13	4.86	3.92	6.40	5.03	10.47	8.45
8.0	1.04	0.86	1.71	1.28	2.25	1.86	3.59	2.82	5.10	3.96	6.13	4.98	8.17	6.37	13.44	10.86
10.0	1.15	0.95	1.89	1.42	2.51	2.07	3.99	3.15	5.70	4.43	6.85	5.58	9.17	7.12	15.13	12.23
15.0	1.39	1.16	2.27	1.74	3.06	2.53	4.82	3.85	6.98	5.42	8.37	6.87	11.31	8.72	18.77	15.19
20.0	1.59	1.34	2.59	2.00	3.52	2.92	5.51	4.44	8.06	6.26	9.65	7.95	13.13	10.07	21.87	17.71
30.0	1.92	1.63	3.11	2.44	4.30	3.56	6.65	5.43	9.88	7.67	11.80	9.78	16.20	12.33	27.13	21.99
50.0	2.43	2.09	3.91	3.13	5.52	4.58	8.44	6.99	12.76	9.90	15.20	12.68	21.12	15.92	35.59	28.89
No	371309		371310		371311		371312		371313		371314		371315		371884	