






NOZZLE OUTPUT CHARTS 2017



syngenta®

®

DEFY 3D Nozzles

Nozzle	Pressure bar	Flow l/min	Litres/ha @ Km/h						
			5	6	8	10	12	14	16
 80-03 Alternating forward and back	0.7 ¹	0.59	142	118	89	71	59	51	44
	1 ²	0.69	166	139	104	83	69	59	52
	1.5	0.85	204	170	127	102	85	73	64
	2	0.98	235	196	147	118	98	84	73
	2.5	1.10	263	219	164	131	110	94	82
	3	1.20	288	240	180	144	120	103	90
 80-035 Alternating forward and back	0.7 ¹	0.68	163	136	102	82	68	58	51
	1	0.81	194	162	121	97	81	69	61
	1.5	0.99	238	198	148	119	99	85	74
	2	1.14	274	229	171	137	114	98	86
	2.5	1.28	307	256	192	153	128	110	96
	3	1.40	336	280	210	168	140	120	105
 80-04 Alternating forward and back	0.7 ¹	0.79	190	158	119	95	79	68	59
	1 ²	0.92	222	185	139	111	92	79	69
	1.5	1.13	272	226	170	136	113	97	85
	2	1.31	314	261	196	157	131	112	98
	2.5	1.46	351	292	219	175	146	125	110
	3	1.60	384	320	240	192	160	137	120
 80-05 Alternating forward and back	0.7 ¹	0.98	234	195	146	117	98	84	73
	1 ²	1.15	276	230	173	138	115	99	86
	1.5	1.41	338	282	211	169	141	121	106
	2	1.63	390	325	244	195	163	139	122
	2.5	1.82	436	364	273	218	182	156	136
	3	1.99	478	398	299	239	199	171	149
 80-06 Alternating forward and back	0.7	1.25	300	250	188	150	125	107	94
	1	1.39	333	277	208	166	139	119	104
	1.5	1.70	408	340	255	207	170	146	128
	2	1.96	470	392	294	235	196	168	147
	3	2.40	576	480	360	288	240	206	180
	4	2.77	665	554	416	332	277	237	208





¹ Forwards 2* LERAP
² Forwards 2* LERAP
Backwards 2* LERAP
Alternating forwards & backwards
2* LERAP

¹ Forwards or backwards
2* LERAP

¹ Backwards 3* LERAP
² Forwards or backwards
2* LERAP

¹ Forwards 3* LERAP
² Forwards 1* LERAP
Alternating forwards & backwards
2* LERAP
Backwards 3* LERAP








Potato and Vegetable Nozzles

Nozzle	Pressure bar	Flow l/min	Litres/ha @ Km/h forward speed						
			5	6	8	10	12	14	16
 Syngenta Potato Nozzle Gold = VP 04 30° angle, 3 bar optimum Alternating forward and back 2 star LERAP up to 1.0 bar	1	0.93	222	185	139	111	93	79	69
	1.5	1.13	272	227	170	136	113	97	85
	2	1.31	314	262	196	157	131	112	98
	2.5	1.46	351	293	220	176	146	125	110
	3	1.60	385	321	241	192	160	137	120
	4	1.85	444	370	278	222	185	159	139
 Syngenta Potato Nozzle Orange = VP 05 30° angle, 3 bar optimum Alternating forward and back 3 Star LERAP up to 1.0 bar	1	1.15	276	230	173	138	115	99	86
	1.5	1.41	338	282	211	169	141	121	106
	2	1.63	390	325	244	195	163	139	122
	2.5	1.82	436	364	273	218	182	156	136
	3	1.99	478	398	299	239	199	171	149
	4	2.30	552	460	345	276	230	197	173
 Vegetable Nozzle Silver = 06 size Force spray into crop 65° flat fan nozzle (not 110° ff)	1	1.39	333	277	208	166	139	119	104
	2	1.96	470	392	294	235	196	168	147
	3	2.40	576	480	360	288	240	206	180
	4	2.77	665	554	416	333	277	238	208
	5	3.10	744	620	465	372	310	266	232
	 Vegetable Nozzle Gold = 08 size Force spray into crop 65° flat fan nozzle (not 110° ff)	1	1.85	443	370	277	222	185	158
2		2.61	627	523	392	314	261	224	196
3		3.20	768	640	480	384	320	274	240
4		3.70	887	739	554	443	370	317	277
5		4.13	991	826	620	496	413	354	310

To get the best results we recommend the following: Apply at a boom height of 0.5–0.75 metres with an operating pressure of at 0.7–3 bar. (Pressures below 1 bar may not be achievable on sprayers with diaphragm check valves governing the nozzle on/off.) Nozzles should be alternately forward and backward along the boom to give an even coverage on the front and back of targets. Works most effectively at speeds between 12-14kph. DEFY 3D nozzles should be used from the pre-emergence timing up to and including T0 in cereals. They are also the nozzle of choice for Syngenta products for early season applications in oilseed rape.

AMISTAR Nozzles

3 bar optimum pressure. Air induction, low drift, fine drops, good coverage.

Nozzle	Pressure bar	Flow l/min	Litres/ha @ Km/h forward speed							
			5	6	8	10	12	14	16	18
Amistar 110-015 3 star LERAP @ 1.0-1.25 bar 	1	0.34	82	68	51	41	34	29	26	23
	2	0.49	117	97	73	58	49	42	36	32
	3	0.60	144	120	90	72	60	51	45	40
	4	0.68	164	137	103	82	68	59	51	46
	5	0.77	184	154	115	92	77	66	58	51
Amistar 110-02 3 star LERAP @ 1.0-1.25 bar 	1	0.46	109	91	68	55	46	39	34	30
	2	0.65	156	130	97	78	65	56	49	43
	3	0.80	192	160	120	96	80	69	60	53
	4	0.91	219	182	137	109	91	78	68	61
	5	1.02	246	205	154	123	102	88	77	68
Amistar 110-025 3 star LERAP @ 1.0-1.5 bar 	1	0.57	137	114	86	68	57	49	43	38
	2	0.81	194	162	122	97	81	69	61	54
	3	1.00	240	200	150	120	100	86	75	67
	4	1.14	274	228	171	137	114	98	86	76
	5	1.28	307	256	192	154	128	110	96	85
Amistar 110-03 3 star LERAP @ 1.0-1.5 bar 	1	0.68	164	137	103	82	68	59	51	46
	2	0.97	233	194	146	117	97	83	73	65
	3	1.20	288	240	180	144	120	103	90	80
	4	1.37	328	274	205	164	137	117	103	91
	5	1.54	369	307	230	184	154	132	115	102
Amistar 110-035 3 star LERAP @ 1.0-1.5 bar 	1	0.80	192	160	120	96	80	68	60	53
	2	1.13	272	227	170	136	113	97	85	76
	3	1.40	336	280	210	168	140	120	105	93
	4	1.60	383	319	239	192	160	137	120	106
	5	1.79	430	358	269	215	179	154	134	119
Amistar 110-04 3 star LERAP @ 1.0-1.5 bar 	1	0.91	219	182	137	109	91	78	68	61
	2	1.30	311	259	194	156	130	111	97	86
	3	1.60	384	320	240	192	160	137	120	107
	4	1.82	438	365	274	219	182	156	137	122
	5	2.05	492	410	307	246	205	176	154	137
Amistar 110-05 3 star LERAP @ 1.0-1.5 bar 	1	1.14	274	228	171	137	114	98	86	76
	2	1.62	389	324	243	194	162	139	122	108
	3	2.00	480	400	300	240	200	171	150	133
	4	2.28	547	456	342	274	228	195	171	152
	5	2.56	614	512	384	307	256	219	192	171



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