

Air-injector nozzles ID Air-injector nozzles IDN



G 1535	G 1548	G 1633
G 1536	G 1565	G 1644
G 1545	G 1566	G 1659
G 1546	G 1612	G 1695
G 1547	G 1618	G 1717

90 % Drift reduction
for 200 l/ha

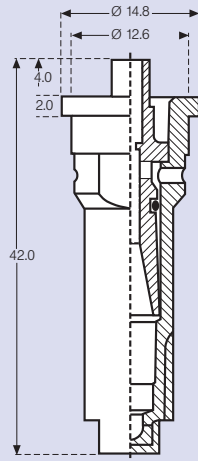


ID

ID-C

IDN*

* IDN-characteristic: body with white stripe



Spray angle: 120°/90°

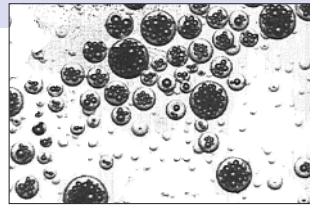
Material: POM, ceramic

Features

- Air-aspirating flat-spray nozzle
- Extremely low drift potential, even for higher pressures
- Significantly improved deposition structure thanks to aerated droplets
- Application in field crops and special cultures
- Pressure range ID-01 to -04 : 3.0 to 8.0 bar
ID-05 to -08 : 2.0 to 8.0 bar
IDN-025 to -03 : 2.0 to 8.0 bar
- Fits all bayonet cap systems with 10 mm AF and threaded caps
- Combines with IS end nozzle (of equal size), for sharply defined edges
- Included in the lists of »Drift-and-loss-reducing Techniques« **LERAP, JKI** (former BBA), **Staatscourant, SPF, Hjälpreda, ÖAIP and Equipement de limitation de la dérive de pulvérisation**

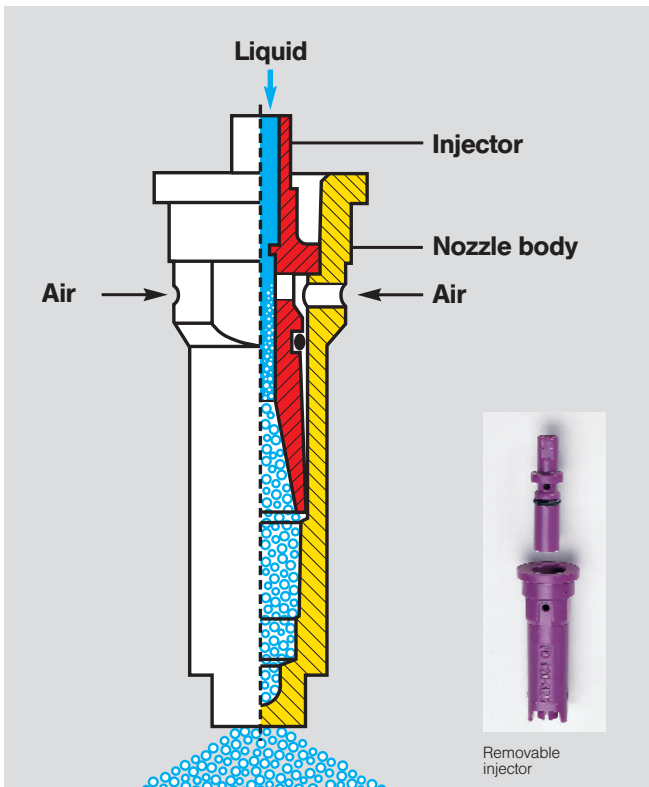
Range of application

- Application of plant protectants and growth regulators
- Particularly well-suited for application of liquid fertilizer (UAN); pressure range for pure UAN: ID 2.0 to 3.5 bar; IDN 2.0 to 4.0 bar



Aeration effect

**Lecher ID/IDN
are rated in several
countries for drift
reduction
90/75/66/50 %.**
Current List under
www.lechler-agri.com





Main benefits of ID nozzles

- Sturdy design
- Easily removable injector (e.g. for cleaning)
- Two aeration orifices, precluding all danger of clogging
- Hard-wearing and non-clogging thanks to round bores and ample free cross sections
- Same biological efficiency as that of conventional flat-spray nozzles
- Very good deposition structure and crop-canopy penetration
- Timely application, even under adverse weather conditions
- Designed for "good modern practice", i.e. for use at wind velocities up to 5 m/s and higher sprayer speeds

Additional benefits of IDN nozzles

- **Maximum drift reduction up to 90 % for standard liter-per-hectare rate of 200 l/ha**
- Extended pressure range thanks to a new type of internal geometry, producing relatively coarser droplets than the comparable ID nozzle size
- Meets the required buffer zone regulations without changing the concentration of spray liquid and without changing the nozzles for the standard liter-per-hectare rate of 200 l/ha

Spray table for air-injector nozzles ID/IDN

	BCPC/ASAE			I/min	l/ha									
	ID	IDN			[bar]	5.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	18.0
						km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
ID 120-01 90-01 (80/60 M)	C		3.0	0.39	94	78	67	59	47	39	33	29	26	
	C		4.0	0.45	108	90	77	68	54	45	39	34	30	
	C		5.0	0.51	122	102	87	77	61	51	44	38	34	
	C		6.0	0.55	132	110	94	83	66	55	47	41	37	
	M		7.0	0.60	144	120	103	90	72	60	51	45	40	
	M		8.0	0.64	154	128	110	96	77	64	55	48	43	
ID 120-015 90-015 (60 M)	VC		3.0	0.59	142	118	101	89	71	59	51	44	39	
	C		4.0	0.68	163	136	117	102	82	68	58	51	45	
	C		5.0	0.76	182	152	130	114	91	76	65	57	51	
	C		6.0	0.83	199	166	142	125	100	83	71	62	55	
	C		7.0	0.90	216	180	154	135	108	90	77	68	60	
	M		8.0	0.96	230	192	165	144	115	96	82	72	64	
ID 120-02 90-02 (60 M)	VC		3.0	0.80	192	160	137	120	96	80	69	60	53	
	C		4.0	0.92	221	184	158	138	110	92	79	69	61	
	C		5.0	1.03	247	206	177	155	124	103	88	77	69	
	C		6.0	1.13	271	226	194	170	136	113	97	85	75	
	C		7.0	1.22	293	244	209	183	146	122	105	92	81	
	C		8.0	1.30	312	260	223	195	156	130	111	98	87	
IDN 120-025 90-025 (60 M)		EC	2.0*	0.81	194	162	139	122	97	81	69	61	54	
	VC	VC	3.0	0.99	238	198	170	149	119	99	85	74	66	
	VC	VC	4.0	1.15	276	230	197	173	138	115	99	86	77	
	VC	VC	5.0	1.28	307	256	219	192	154	128	110	96	85	
	C	C	6.0	1.40	336	280	240	210	168	140	120	105	93	
	C	C	7.0	1.52	365	304	261	228	182	152	130	114	101	
IDN 120-03 90-03 (60 M)		EC	2.0*	0.97	233	194	166	146	116	97	83	73	65	
	VC	EC	3.0	1.19	286	238	204	179	143	119	102	89	79	
	VC	VC	4.0	1.37	329	274	235	206	164	137	117	103	91	
	VC	VC	5.0	1.53	367	306	262	230	184	153	131	115	102	
	C	VC	6.0	1.68	403	336	288	252	202	168	144	126	112	
	C	C	7.0	1.81	434	362	310	272	217	181	155	136	121	
ID 120-04 90-04 (60 M)		EC	3.0	1.58	379	316	271	237	190	158	135	119	105	
	VC		4.0	1.82	437	364	312	273	218	182	156	137	121	
	VC		5.0	2.04	490	408	350	306	245	204	175	153	136	
	VC		6.0	2.23	535	446	382	335	268	223	191	167	149	
	C		7.0	2.41	578	482	413	362	289	241	207	181	161	
	C		8.0	2.58	619	516	442	387	310	258	221	194	172	
ID 120-05 90-05 (25M)		EC	2.0	1.61	386	322	276	242	193	161	138	121	107	
	EC		3.0	1.97	473	394	338	296	236	197	169	148	131	
	VC		4.0	2.28	547	456	391	342	274	228	195	171	152	
	VC		5.0	2.55	612	510	437	383	306	255	219	191	170	
	VC		6.0	2.79	670	558	478	419	335	279	239	209	186	
	VC		7.0	3.01	722	602	516	452	361	301	258	226	201	
ID 120-06 90-06 (25 M)		VC	8.0	3.22	773	644	552	483	386	322	276	242	215	
	EC		2.0	1.93	463	386	331	290	232	193	165	145	129	
	EC		3.0	2.36	566	472	405	354	283	236	202	177	157	
	EC		4.0	2.73	655	546	468	410	328	273	234	205	182	
	VC		5.0	3.05	732	610	523	458	366	305	261	229	203	
	VC		6.0	3.34	802	668	573	501	401	334	286	251	223	
ID 120-08 (25 M)	VC		7.0	3.61	866	722	619	542	433	361	309	271	241	
	VC		8.0	3.86	926	772	662	579	463	386	331	290	257	
	EC		2.0	2.58	619	516	442	387	310	258	221	194	172	
	EC		3.0	3.16	758	632	542	474	379	316	271	237	211	
	EC		4.0	3.65	876	730	626	548	438	365	313	274	243	
	EC		5.0	4.08	979	816	699	612	490	408	350	306	272	
ID 120-08 (25 M)	VC		6.0	4.47	1073	894	766	671	536	447	383	335	298	
	VC		7.0	4.83	1159	966	828	725	580	483	414	362	322	
	VC		8.0	5.16	1238	1032	885	774	619	516	442	387	344	



Matching air-injector off center nozzles IS, see page 34

BCPC/ASAE Droplet size classification

VF	Very fine
F	Fine
M	Medium
C	Coarse
VC	Very coarse
EC	Extreme Coarse

Classifications are subject to change

- Spray pressure at the nozzle tip (gauged with a diaphragm valve).
- The stated liter-per-hectare rates apply to water.
- Prior to each spraying season, verify the table data by gauging the flow rates.
- Make sure that all nozzles have the same settings.

* 2.0 bar only for IDN

Sample order

Type + spray angle + int'l nozzle size + material	=	order number
ID 120° 025 (POM)	=	ID 120-025
ID 120° 025 C (ceramic)	=	ID 120-025C
IDN 120° 025 (POM)	=	IDN 120-025