**NEW**

## Air-injector flat spray nozzles ID3

# ID3

the new nozzle-generation

Lechler ID3 are rated in several countries for drift reduction 90/75/50 %  
Current list under [www.lechler-agri.com](http://www.lechler-agri.com)

Spray angle: 120°  
Material: POM, ceramic



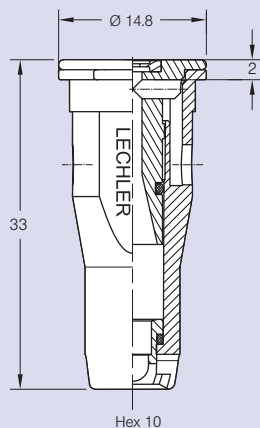
G 1965	G 1971
G 1966	G 1972
G 1968	G 1973
G 1969	G 1974
G 1970	



ID3



ID3-C



### Features

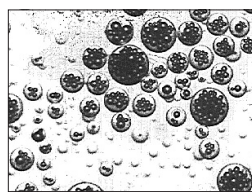
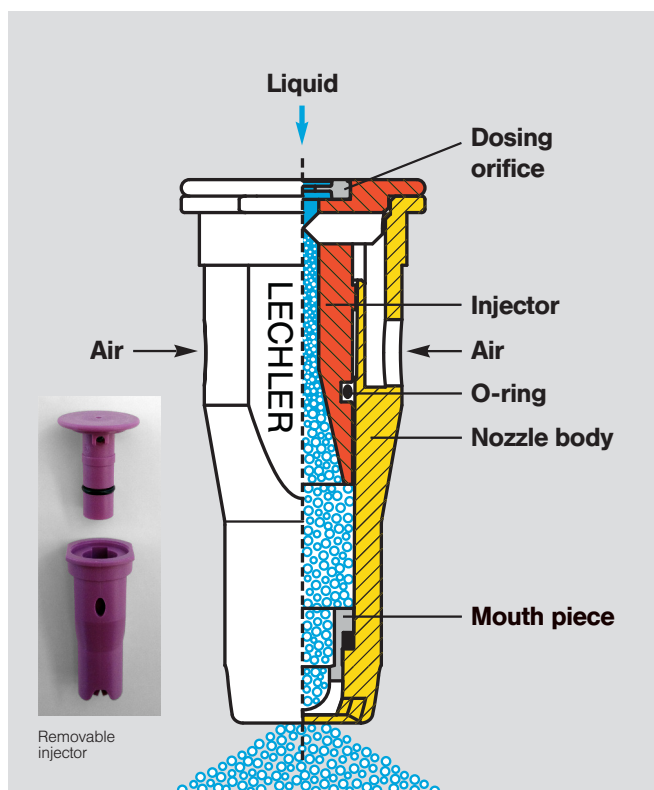
- Air-aspirating flat-spray nozzle
- Nozzle sizes 01 through 08
- Pressure range: ID-01 to -015 : 3.0 to 8.0 bar  
ID-02 to -08 : 2.0 to 8.0 bar
- Extremely low drift potential for whole pressure range
- Significantly improved deposition structure thanks to aerated droplets
- Combines with IS end nozzle (of equal size), for sharply defined edges
- Fits all bayonet cap systems with 10 mm AF and threaded caps (Ø 12.6 mm)

### Range of application

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




### Benefits of ID3 nozzles

- More solid design of nozzle body by filed construction
  - 0.9 cm shorter in comparison to ID range
  - Improved protection of nozzle tip by reinforced side walls
  - Easier cleaning of nozzle body by smooth transition
- Plane injector orifice
  - Easy wipe away of residues and dirt
  - Toolless removal and assembly of injector e.g. for cleaning purpose
  - Correct alignment of injector into the nozzle body by inside catch
  - Safe sealing between injector and nozzle body by o-ring
- Long injector design responsible for high drift stability
  - Reduced fine droplet fraction also at higher pressure
  - Increased work rate at higher speeds
  - Even better adaption of sprayer speed and l/ha-rate without changing of nozzles
  - Application in due time even under worse weather conditions
  - For use at wind speeds up to 5 m/s according to good agricultural practice
  - Potential of 90 % drift reduction at 2.0 bar
- Proved materials such as POM or ceramic available depending on application conditions
- Non sensitive towards clogging due to big cross sections
- Very good deposition structure and crop-canopy penetration ensures high biological performance



Aeration effect

# Spray table for air-injector flat spray nozzles ID3

 ID- 120-01 (80/60 M)	BCPC/ ASABE	 [bar]	l/min	l/ha 								
				5.0 km/h	6.0 km/h	7.0 km/h	8.0 km/h	10.0 km/h	12.0 km/h	14.0 km/h	16.0 km/h	18.0 km/h
ID-120-01 (80/60 M)	EC	3.0	0.39	94	78	67	59	47	39	33	29	26
	VC	4.0	0.45	108	90	77	68	54	45	39	34	30
	VC	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
	C	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 (60 M)	EC	3.0	0.59	142	118	101	89	71	59	51	44	39
	VC	4.0	0.68	163	136	117	102	82	68	58	51	45
	VC	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 (60 M)	EC	2.0	0.65	156	130	111	98	78	65	56	49	43
	EC	3.0	0.80	192	160	137	120	96	80	69	60	53
	VC	4.0	0.92	221	184	158	138	110	92	79	69	61
	VC	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
M	8.0	1.30	312	260	223	195	156	130	111	98	87	
ID-120-025 (60 M)	EC	2.0	0.81	194	162	139	122	97	81	69	61	54
	VC	3.0	0.99	238	198	170	149	119	99	85	74	66
	C	4.0	1.15	276	230	197	173	138	115	99	86	77
	C	5.0	1.28	307	256	219	192	154	128	110	96	85
	C	6.0	1.40	336	280	240	210	168	140	120	105	93
	M	7.0	1.52	365	304	261	228	182	152	130	114	101
M	8.0	1.62	389	324	278	243	194	162	139	122	108	
ID-120-03 (60 M)	EC	2.0	0.97	233	194	166	146	116	97	83	73	65
	VC	3.0	1.19	286	238	204	179	143	119	102	89	79
	C	4.0	1.37	329	274	235	206	164	137	117	103	91
	C	5.0	1.53	367	306	262	230	184	153	131	115	102
	C	6.0	1.68	403	336	288	252	202	168	144	126	112
	M	7.0	1.81	434	362	310	272	217	181	155	136	121
M	8.0	1.94	466	388	333	291	233	194	166	146	129	
ID-120-04 (60 M)	EC	2.0	1.29	310	258	221	194	155	129	111	97	86
	VC	3.0	1.58	379	316	271	237	190	158	135	119	105
	C	4.0	1.82	437	364	312	273	218	182	156	137	121
	C	5.0	2.04	490	408	350	306	245	204	175	153	136
	C	6.0	2.23	535	446	382	335	268	223	191	167	149
	M	7.0	2.41	578	482	413	362	289	241	207	181	161
M	8.0	2.58	619	516	442	387	310	258	221	194	172	
ID-120-05 (25M)	EC	2.0	1.61	386	322	276	242	193	161	138	121	107
	VC	3.0	1.97	473	394	338	296	236	197	169	148	131
	C	4.0	2.28	547	456	391	342	274	228	195	171	152
	C	5.0	2.55	612	510	437	383	306	255	219	191	170
	C	6.0	2.79	670	558	478	419	335	279	239	209	186
	M	7.0	3.01	722	602	516	452	361	301	258	226	201
M	8.0	3.22	773	644	552	483	386	322	276	242	215	
ID-120-06 (25 M)	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
	VC	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
	C	7.0	3.61	866	722	619	542	433	361	309	271	241
C	8.0	3.86	926	772	662	579	463	386	331	290	257	
ID-120-08 (25 M)	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
	VC	4.0	3.65	876	730	626	548	438	365	313	274	243
	VC	5.0	4.08	979	816	699	612	490	408	350	306	272
	VC	6.0	4.47	1073	894	766	671	536	447	383	335	298
	C	7.0	4.83	1159	966	828	725	580	483	414	362	322
C	8.0	5.16	1238	1032	885	774	619	516	442	387	344	



Matching air-injector off center nozzles IS, see page 28

### BCPC/ASABE 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.

### Sample order

Type + spray angle + int'l nozzle size + material = order number  
 ID3 120° 025 (POM) = ID-120-025  
 ID3 120° 025 C (ceramic) = ID-120-025C