Flat Fan DriftBETA™ 120° Nozzles

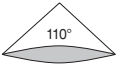
Significant reduction in drift from coarse air-filled droplets. For spraying in the widest weather window. Good results with cereal fungicides, broad-leaved and soil herbicides, but avoid for grass weed herbicides and potato fungicides. DriftBETA gave up to 4x improvement on low-drift and 6x improvement on standard nozzles*.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH	LERAPS RATING
Green	DB015F120 (100 #)	2.0	0.490	73	59	49	37	33	***
		3.0	0.600	90	72	60	45	40	
		4.0	0.693	104	83	69	52	46	
		5.0	0.775	116	93	77	58	52	
		6.0	0.849	127	102	85	64	57	
Yellow	DB02F120 (100 #)	2.0	0.653	98	78	65	49	44	***
		3.0	0.800	120	96	80	60	53	
		4.0	0.924	139	111	92	69	62	
		5.0	1.033	155	124	103	77	69	
		6.0	1.131	170	136	113	85	75	
Lilac	DB025F120 (100 #)	2.0	0.816	122	98	82	61	54	***
		3.0	1.000	150	120	100	75	67	
		4.0	1.155	173	139	115	87	77	
		5.0	1.291	194	155	129	97	86	
		6.0	1.414	212	170	141	106	94	
Blue	DB03F120 (100 #)	2.0	0.980	147	118	98	73	65	***
		3.0	1.200	180	144	120	90	80	***
		4.0	1.386	208	166	139	104	92	
		5.0	1.550	232	186	155	116	103	
		6.0	1.697	255	204	170	127	113	
Red	DB04F120 (50 #)	2.0	1.306	196	157	131	98	87	***
		3.0	1.600	240	192	160	120	107	***
		4.0	1.848	277	222	185	139	123	
		5.0	2.066	310	248	207	155	138	
		6.0	2.263	339	272	226	170	151	
Brown	DB05F120 (50 #)	2.0	1.633	245	196	163	122	109	***
		3.0	2.000	300	240	200	150	133	***
		4.0	2.309	346	277	231	173	154	***
		5.0	2.582	387	310	258	194	172	***
		6.0	2.828	424	339	283	212	189	***
Grey	DB06F120 (50 #)	2.0	1.960	294	235	196	147	131	***
		3.0	2.400	360	288	240	180	160	***
		4.0	2.771	416	333	277	208	185	***
		5.0	3.098	465	372	310	232	207	***
		6.0	3.394	509	407	339	255	226	***

Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings. ORDERING Use nozzle number prefixed by 30: e.g. 30-DB04F120

* Tests at Silsue Research Institute

Flat Fan Lo-Drift™ 110° Nozzles



The original drift reducing nozzle. Spray is typically coarser than conventional flat fan producing half the drift. Trials show these work well with cereal fungicides and autumn residual fungicides.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH	BCPC NOZZLE CODE
Green*	LD015F110	2.0	0.490	73	59	49	37	33	FRD110/0.60/3
	(100 #)	3.0	0.600	90	72	60	45	40	
		4.0	0.693	104	83	69	52	46	
Yellow*	LD02F110	2.0	0.653	98	78	65	49	44	FRD110/0.80/3
	(100 #)	3.0	0.800	120	96	80	60	53	
		4.0	0.924	139	111	92	69	62	
Lilac	LD025F110	2.0	0.816	122	98	82	61	54	FRD110/1.0/3
	(100 #)	3.0	1.000	150	120	100	75	67	
		4.0	1.155	173	139	115	87	77	
Blue*	LD03F110	2.0	0.980	147	118	98	73	65	FRD110/1.20/3
	(100 #)	3.0	1.200	180	144	120	90	80	
		4.0	1.386	208	166	139	104	92	
Red*	LD04F110	2.0	1.306	196	157	131	98	87	FRD110/1.60/3
	(50 #)	3.0	1.600	240	192	160	120	107	
		4.0	1.848	277	222	185	139	123	
Brown*	LD05F110	2.0	1.633	245	196	163	122	109	FRD110/2.00/3
	(50 #)	3.0	2.000	300	240	200	150	133	
		4.0	2.309	346	277	231	173	154	
Grey* Lerap rating at 2.0 bar	LD06F110	2.0	1.960	294	235	196	147	131	FRD110/2.40/3
	(50 #)	3.0	2.400	360	288	240	180	160	
		4.0	2.771	416	333	277	208	185	
White	LD08F110	2.0	2.613	392	314	261	196	174	FRD110/3.20/3
	(50 #)	3.0	3.200	480	384	320	240	213	
		4.0	3.695	554	443	370	277	246	

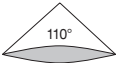
BCPC CODING MEDIUM COARSE

Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.

ORDERING Use nozzle number prefixed by 30: e.g. 30-LD04F110

*Also available as 80° nozzles

Hypro Flat Fan VP 110° Nozzles



Excellent spray distribution over variable pressures (VP) of 1 to 5 bar. Ideal for use with automatic sprayer control systems for spraying a wide range of pesticides.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH	BCPC NOZZLE CODE
Green*	VP015F110RG (100 #)	1.0	0.346	52	42	35	26	23	F110/0.6/3
		2.0	0.490	73	59	49	37	33	
		3.0	0.600	90	72	60	45	40	
		4.0	0.693	104	83	69	52	46	
		5.0	0.775	116	93	77	58	52	
Yellow*	VP02F110YE (100 #)	1.0	0.462	69	55	46	35	31	F110/0.8/3
		2.0	0.653	98	78	65	49	44	
		3.0	0.800	120	96	80	60	53	
		4.0	0.924	139	111	92	69	62	
		5.0	1.033	155	124	103	77	69	
Lilac	VP025F110VI (100 #)	1.0	0.577	87	69	58	43	38	F110/1.2/3
		2.0	0.816	122	98	82	61	54	
		3.0	1.000	150	120	100	75	67	
		4.0	1.155	173	139	115	87	77	
		5.0	1.291	194	155	129	97	86	
Blue*	VP03F110UB (100 #)	1.0	0.693	104	83	69	52	46	F110/1.2/3
		2.0	0.980	147	118	98	73	65	
		3.0	1.200	180	144	120	90	80	
		4.0	1.386	208	166	139	104	92	
		5.0	1.549	232	186	155	116	103	
Brown Red	VP035F110BR (100 #)	1.0	0.808	121	97	81	61	54	F110/1.4/3
		2.0	1.143	171	137	114	86	76	
		3.0	1.400	210	168	140	105	93	
		4.0	1.616	242	194	162	121	108	
		5.0	1.807	271	217	181	136	120	
Red*	VP04F110RE (50 #)	1.0	0.924	139	111	92	69	62	F110/1.6/3
		2.0	1.306	196	157	131	98	87	
		3.0	1.600	240	192	160	120	107	
		4.0	1.848	277	222	185	139	123	
		5.0	2.066	310	248	207	155	138	
Brown*	VP05F110LB (50 #)	1.0	1.155	173	139	115	87	77	F110/2.0/3
		2.0	1.633	245	196	163	122	109	
		3.0	2.000	300	240	200	150	133	
		4.0	2.309	346	277	231	173	154	
		5.0	2.582	387	310	258	194	172	
Grey*	VP06F110GY (50 #)	1.0	1.386	208	166	139	104	92	F110/2.4/3
		2.0	1.960	294	235	196	147	131	
		3.0	2.400	360	288	240	180	160	
		4.0	2.771	416	333	277	208	185	
		5.0	3.098	465	372	310	232	207	

BCPC CODING FINE MEDIUM COARSE

Additional sizes have been introduced - these are VP08, VP10, VP15. Please ask for further details.
Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
*Also available as 80° nozzles. ORDERING use nozzle number prefixed by 30: e.g. 30-VP0351110UB

Hypro Flat Fan 110° Nozzle

Versatile nozzle suitable for the overall application of herbicides, fungicides, insecticides and growth regulators. Mixed droplet spectrum allowing delivery of effective dose to wide range of targets.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH	BCPC NOZZLE CODE
Orange	01F110OR (100 #)	2.0	0.327	49	39	33	24	22	F110/0.40/3
		3.0	0.400	60	48	40	30	27	
		4.0	0.462	69	55	46	35	31	
Green	015F110RG (100 #)	2.0	0.490	73	59	49	37	33	F110/0.60/3
		3.0	0.600	90	72	60	45	40	
		4.0	0.693	104	83	69	52	46	
Yellow	02F110YE (100 #)	2.0	0.653	98	78	65	49	44	F110/0.80/3
		3.0	0.800	120	96	80	60	53	
		4.0	0.924	139	111	92	69	62	
Lilac	025F110VI (100 #)	2.0	0.816	122	98	82	61	54	F110/1.00/3
		3.0	1.000	150	120	100	75	67	
		4.0	1.155	173	139	115	87	77	
Blue	03F110UB (100 #)	2.0	0.980	147	118	98	73	65	F110/1.20/3
		3.0	1.200	180	144	120	90	80	
		4.0	1.386	208	166	139	104	92	
Red	04F110RE (50 #)	2.0	1.306	196	157	131	98	87	F110/1.60/3
		3.0	1.600	240	192	160	120	107	
		4.0	1.848	277	222	185	139	123	
Brown	05F110LB (50 #)	2.0	1.633	245	196	163	122	109	F110/2.00/3
		3.0	2.000	300	240	200	150	133	
		4.0	2.309	346	277	231	173	154	
Grey	06F110GY (50 #)	2.0	1.960	294	235	196	147	131	F110/2.40/3
		3.0	2.400	360	288	240	180	160	
		4.0	2.771	416	333	277	208	185	
White	08F110WH (50 #)	2.0	2.613	392	314	261	196	174	F110/3.20/3
		3.0	3.200	480	384	320	240	213	
		4.0	3.695	554	443	370	277	246	
Light Blue	10F110CB (30 #)	2.0	3.266	490	392	327	245	218	F110/4.00/3
		3.0	4.000	600	480	400	300	267	
		4.0	4.619	693	554	462	346	308	
Light Green	15F110LG (30 #)	2.0	4.899	735	588	490	367	327	F110/6.00/3
		3.0	6.000	900	720	600	450	400	
		4.0	6.928	1039	831	693	520	462	
Black	20F110BL (30 #)	2.0	6.532	980	784	653	490	435	F110/8.00/3
		3.0	8.000	1200	960	800	600	533	
		4.0	9.238	1386	1109	924	693	616	

BCPC CODING FINE MEDIUM COARSE

Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
ORDERING Use nozzle number prefixed by 30: e.g. 30-04F110RE

Hypro Flat Fan 80° Nozzle

Versatile nozzle suitable for the overall application of herbicides, fungicides, insecticides and growth regulators. Mixed droplet spectrum allowing delivery of effective dose to wide range of targets.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH	BCPC NOZZLE CODE
Orange	01F80OR (100 #)	2.0	0.327	49	39	33	24	22	F80/0.40/3
		3.0	0.400	60	48	40	30	27	
		4.0	0.462	69	55	46	35	31	
Green	015F80RG (100 #)	2.0	0.490	73	59	49	37	33	F80/0.60/3
		3.0	0.600	90	72	60	45	40	
		4.0	0.693	104	83	69	52	46	
Yellow	02F80YE (100 #)	2.0	0.653	98	78	65	49	44	F80/0.80/3
		3.0	0.800	120	96	80	60	53	
		4.0	0.924	139	111	92	69	62	
Lilac	025F80VI (100 #)	2.0	0.816	122	98	82	61	54	F80/1.00/3
		3.0	1.000	150	120	100	75	67	
		4.0	1.155	173	139	115	87	77	
Blue	03F80UB (100 #)	2.0	0.980	147	118	98	73	65	F80/1.20/3
		3.0	1.200	180	144	120	90	80	
		4.0	1.386	208	166	139	104	92	
Red	04F80RE (50 #)	2.0	1.306	196	157	131	98	87	F80/1.60/3
		3.0	1.600	240	192	160	120	107	
		4.0	1.848	277	222	185	139	123	
Brown	05F80LB (50 #)	2.0	1.633	245	196	163	122	109	F80/2.00/3
		3.0	2.000	300	240	200	150	133	
		4.0	2.309	346	277	231	173	154	
Grey	06F80GY (50 #)	2.0	1.960	294	235	196	147	131	F80/2.40/3
		3.0	2.400	360	288	240	180	160	
		4.0	2.771	416	333	277	208	185	
White	08F80WH (50 #)	2.0	2.613	392	314	261	196	174	F80/3.20/3
		3.0	3.200	480	384	320	240	213	
		4.0	3.695	554	443	370	277	246	
Light Blue	10F80CB (30 #)	2.0	3.266	490	392	327	245	218	F80/4.00/3
		3.0	4.000	600	480	400	300	267	
		4.0	4.619	693	554	462	346	308	
Light Green	15F80LG (30 #)	2.0	4.899	735	588	490	367	327	F80/6.00/3
		3.0	6.000	900	720	600	450	400	
		4.0	6.928	1039	831	693	520	462	
Black	20F80BL (30 #)	2.0	6.532	980	784	653	490	435	F80/8.00/3
		3.0	8.000	1200	960	800	600	533	
		4.0	9.238	1386	1109	924	693	616	

BCPC CODING FINE MEDIUM COARSE

Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
ORDERING Use nozzle number prefixed by 30: e.g. 30-04F80RE

Flat Fan Evenspray 80° Nozzles

Designed specifically for band spray applications of pre and post emergent herbicides.
Ideal for use with knapsack sprayers.

	HYPRO TIP REF. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	BCPC NOZZLE CODE
Orange	01E80OR (100 #)	2.0 3.0 4.0	0.327 0.400 0.462	FE80/0.40/3
Green	015E80RG (100 #)	2.0 3.0 4.0	0.490 0.600 0.693	FE80/0.60/3
Yellow	02E80YE (80 #)	2.0 3.0 4.0	0.653 0.800 0.924	FE80/0.80/3
Blue	03E80UB (80 #)	2.0 3.0 4.0	0.980 1.200 1.386	FE80/1.20/3
Red	04E80RE (50 #)	2.0 3.0 4.0	1.306 1.600 1.848	FE80/1.60/3
Brown	05E80LB (50 #)	2.0 3.0 4.0	1.633 2.000 2.309	FE80/2.00/3
Grey	06E80GY (50 #)	2.0 3.0 4.0	1.960 2.400 2.771	FE80/2.40/3
White	08E80WH (50 #)	2.0 3.0 4.0	2.613 3.200 3.695	FE80/3.20/3

Application rates on this chart are based upon tests at 3 bar pressure.
ORDERING: use nozzle number prefixed by 30: e.g. 30-OIE800R

SELECTING THE CORRECT NOZZLE FOR BAND SPRAYING

Using the chemical manufacturer's recommended rate (L/ha) use the following formulae to calculate the flow rate required per nozzle.

$$\text{L/min per nozzle} = \frac{\text{application rate l/ha x km/h x band width(m)}}{600}$$

Use this calculation to select the appropriate Evenspray 80° nozzle from the selection chart above. Ensure that the chosen nozzle provides the spray quality as recommended on the manufacturer's chemical label.

BCPC CODING FINE MEDIUM COARSE

Cone Spray SwirlTip Disc and Cone 80°- 95° Nozzles

Finely atomised droplets in hollow cone pattern. Designed for band spraying of contact acting chemicals. Can also be used with air blast and mist sprayers at higher pressure.

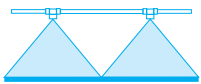
DISC	CONE	PART NUMBERS (SPRAY ANGLE)	PRESSURE BAR	FLOW LPM	APPLICATION RATES L/HA AT KM/H 10	12	16	BCPC CODING
		DC04/CR13 (80°)	3	0.47	56	47	35	HC/0.47/3
			4	0.54	65	54	41	
			5	0.61	73	61	46	
		DC04/CR23 (80°)	3	0.59	71	59	44	HC/0.59/3
			4	0.68	82	68	51	
			5	0.76	91	76	57	
		DC05/CR23 (90°)	3	0.71	85	71	53	HC/0.71/3
			4	0.82	98	82	62	
			5	0.92	110	92	69	
		DC06/CR23 (90°)	3	0.83	100	83	62	HC/0.83/3
			4	0.96	115	96	72	
			5	1.07	129	107	80	
		DC05/CR25 (80°)	3	1.38	166	138	104	HC/1.38/3
			4	1.59	191	159	119	
			5	1.78	214	178	134	
		DC06/CR25 (85°)	3	1.74	209	174	131	HC/1.74/3
			4	2.00	240	200	150	
			5	2.24	269	224	168	
		DC07/CR25 (90°)	3	2.05	246	205	154	HC/2.05/3
			4	2.37	284	237	178	
			5	2.65	318	265	199	
		DC06/CR45 (95°)	3	2.29	275	229	172	HC/2.29/3
			4	2.64	317	264	198	
			5	2.96	355	296	222	
		DC08/CR25 (80°)	3	2.41	289	241	181	HC/2.41/3
			4	2.78	334	278	209	
			5	3.11	373	311	233	
		DC07/CR45 (85°)	3	2.68	322	268	201	HC/2.68/3
			4	3.10	371	310	232	
			5	3.46	415	346	260	
		DC08/CR45 (90°)	3	3.32	398	332	249	HC/3.32/3
			4	3.83	460	383	287	
			5	4.29	514	429	321	

BCPC CODING FINE MEDIUM COARSE

Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.

ORDERING: Both disc and cone are required.

Use disc and core number prefixed by 30: e.g. 30-DC-04/CR13.



Flood Spray PoliJet and DeflecTip Anvil Nozzles

Coarse spray, with very uniform distribution. Very resistant to clogging. Good for soil acting herbicides. Ideal for use with knapsack sprayers.

Polijet 55° - 130°

	PART NUMBER (REC. FILTER MESH)	PRESSURE BAR	FLOW LPM	COVERAGE @0.5M	APPLICATION RATES L/HA AT KM/H 2	3	4	5	BCPC CODING
Yellow	AN0.6 (100#)	1	0.60		360	240	180	144	D/0.6/1
		2	0.85	0.5	510	340	255	204	
		3	1.04		624	416	312	250	
Green	AN1.2 (50#)	1	1.20		360	240	180	144	D/1.2/1
		2	1.70	1.0	510	340	255	204	
		3	2.08		624	416	312	250	
Blue	AN1.8 (50#)	1	1.80		360	240	180	144	D/1.8/1
		2	2.55	1.5	510	340	255	204	
		3	3.12		624	416	312	250	
Red	AN2.4 (50#)	1	2.40		360	240	180	144	D/2.4/1
		2	3.39	2.0	510	340	255	204	
		3	4.16		624	416	312	250	
DeflecTip 80° - 145°									
Orange	DT0.5 (100#)	1	0.23		81	54	41	33	D/0.23/1
		2	0.33	0.8	115	77	58	46	
		3	0.40		141	94	71	56	
Green	DT0.75 (100#)	1	0.35		94	63	47	38	D/0.35/1
		2	0.49	1.1	133	89	66	53	
		3	0.59		163	109	81	65	
Yellow	DT1.0 (100#)	1	0.46		105	70	52	42	D/0.46/1
		2	0.65	1.3	148	99	74	59	
		3	0.80		182	121	91	73	
Blue	DT1.5 (50#)	1	0.68		157	105	79	63	D/0.68/1
		2	0.97	1.3	223	148	111	89	
		3	1.17		273	182	136	109	
Red	DT2.0 (50#)	1	0.91		210	140	105	84	D/0.91/1
		2	1.29	1.3	297	198	148	119	
		3	1.58		364	242	182	145	
Brown	DT2.5 (50#)	1	1.14		239	160	120	96	D/1.14/1
		2	1.61	1.4	339	226	169	135	
		3	1.98		415	276	207	166	
Grey	DT3.0 (50#)	1	1.37		287	192	144	115	D/1.37/1
		2	1.93	1.4	406	271	203	163	
		3	2.37		498	332	249	199	
White	DT4.0 (50#)	1	1.82		316	211	158	126	D/1.82/1
		2	2.58	1.7	447	298	223	179	
		3	3.15		547	365	274	219	
Light Blue	DT5.0 (50#)	1	2.28		356	237	178	142	D/2.82/1
		2	3.22	1.9	503	336	252	201	
		3	3.95		617	411	308	247	

ORDERING: use tip number prefixed by 30: e.g. 30-AN1.8

Additional DeflecTip sizes have been introduced - these are DT7.5, DT10, DT15, DT20. Please ask for further details.

Fastcap® ESI

Hypro's new liquid fertiliser dribble cap is one of the most compact on the market. Unique nozzle array and jet stabilising diffuser creates solid streams for excellent distribution & minimal scorch.

Available in sizes 04, 05 and 06 with plastic metering discs.
Available in sizes 08, 10 and 15 with ceramic metering discs.

	HYPRO TIP REF.	PRESS. BAR	FLOW L/MIN	APPLICATION RATES L/HA AT KM/H 8KPH	10KPH	12KPH	16KPH	18KPH
Red	FC-HESI-11004P (6 pack)	1.0	0.924	139	111	92	69	62
		2.0	1.306	196	157	131	98	87
		3.0	1.600	240	192	160	120	107
		4.0	1.848	277	222	185	139	123
Brown	FC-HESI-11005P (6 pack)	1.0	1.155	173	139	115	87	77
		2.0	1.633	245	196	163	122	109
		3.0	2.000	300	240	200	150	133
		4.0	2.309	346	277	231	173	154
Grey	FC-HESI-11006P (6 pack)	1.0	1.386	208	166	139	104	92
		2.0	1.960	294	235	196	147	131
		3.0	2.400	360	288	240	180	160
		4.0	2.771	416	333	277	208	185
White	FC-HESI-11008 (6 pack)	1.0	1.848	277	222	185	139	123
		2.0	2.613	392	314	261	196	174
		3.0	3.200	480	384	320	240	213
		4.0	3.695	554	443	370	277	246
Light Blue	FC-HESI-110010 (6 pack)	1.0	2.309	346	277	231	173	154
		2.0	3.266	490	392	327	245	218
		3.0	4.000	600	480	400	300	267
		4.0	4.619	693	554	462	346	308
Light Green	FC-HESI-110015 (6 pack)	1.0	3.464	520	416	346	260	231
		2.0	4.899	735	588	490	367	327
		3.0	6.000	900	720	600	450	400
		4.0	6.928	1039	831	693	520	462

NB: Application rates shown in this chart are based upon tests at 3 bar and upon 50cm nozzle settings. These flow rates are based on water and allowance must be made for liquids having different viscosity and specific gravity. Use following formula;

$$\text{Liquid flow rate} = \text{water flow rate} \sqrt{\frac{1}{\text{SG of liquid}}}$$

Recommended boom height = 50cm

ORDERING: Use codes shown