

Popular Nozzle Types

Hypro produces a huge array of nozzles for every conceivable application, the following popular nozzle types cover the majority of agricultural application requirements:



GuardianAIR™ 110° Finer Air-inclusion Nozzles (see p13)

Good spray coverage, with reduced drift, ideal for lower water rates. Suitable for a wide variety of applications to cereals, oilseed rape and other combinable crops.

at 1-1.5 bar - up to 75% drift reduction



Flat Fan DriftBETA 120° Nozzles (see p10)

Significant reduction in drift from coarse air-filled droplets. Suitable for soil-active and translocated foliar sprays. Avoid for selective grass weed herbicides and potato fungicides.



Flat Fan Lo-Drift® 110° Nozzles (see p11)

The original drift reducing nozzle. Spray is typically coarser than a conventional flat fan nozzle producing half the drift. Suitable for cereal fungicides and autumn residual herbicides.



Hypro Flat Fan VP 110° Nozzles (see p12)

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



Hypro Flat Fan 110° & 80° Nozzles (see p14/15)

Versatile nozzle suitable for the overall application of herbicides, fungicides, insecticides and growth regulators. Mixed droplet spectrum suitable for a wide range of targets.



Evenspray 80° Nozzles (see p16)

Non-tapering spray pattern designed specifically for band spray applications of pre and post emergent herbicides. Ideal for use with knapsack sprayers.



Cone Spray SwirlTip Disc and Core 80° - 90° Nozzles (see p17)

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.



Flood Spray Polijet and Deflectip Anvil Nozzles (see p18)

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



Fastcap® ESI Liquid Fertiliser Nozzles (see p19)

One of the most compact liquid fertiliser nozzles on the market. A unique nozzle array and jet stabilising diffuser creates solid streams for excellent distribution and minimal scorch.



GuardianAIR™ Twin 110° Air-inclusion Nozzles (see p20)

A twin spray with 30° incline forward and rear to help penetration and coverage of denser crop canopies. Based on the finer air-inclusion spray quality of the GuardianAIR™ nozzle and featuring an integral FastCap™.



Hypro XT Nozzles for Boomless Spraying (see p21)

For applications where it is not possible to use a conventional spray boom or to extend spraying width at the boom end. Throws a coarse, even spray flat fan pattern. Ideal for use in forests or pastureland.



Hypro TwinCap

Accommodates two spray nozzles back-to-back in the same bayonet cap. Increase spray volume without coarsening spray quality. Ideal for potato blight fungicides and vegetable spraying.



Hypro Off Centre Nozzles (For details see www.hypro-eu.com)

Produce a similar spray pattern to standard 80° Flat Fan nozzles but with a foot-print that sprays off-centre to extend spray width. PART NUMBERS: 280C01 to 280C16.



Hypro FulcoTip (FCX) 80° Nozzles (For details see www.hypro-eu.com)

80° full cone pattern. Ideal for spot spraying with handheld sprayers. PART NUMBERS: 30FCX02 to 30FCX08.



Hypro HollowTip (HCX) 80° Nozzles (For details see www.hypro-eu.com)

Designed to give an 80° hollow cone pattern for overall spraying. Finer spray quality. PART NUMBERS: 30HCX2 to 30HCX18.



Misting Nozzles (For details see www.hypro-eu.com)

Designed to give extremely fine droplets suitable for humidification and evaporative cooling applications such as in grain storage, livestock areas and glasshouses.

All nozzles are designed to fit Hypro and most other standard caps. Threaded options are also available for most nozzle types. Most agricultural nozzles are manufactured from polyacetal material, other materials are also available.

Nozzle Selection - Cereals and Oilseed Rape

Nozzle type	Air induction		Conventional			Conventional		Low drift (pre-orifice)	
Spray Pattern	Flat fan		Flat fan			Hollow cone		Flat fan	
Spray quality	'Finer'	'Coarser'	Fine	Medium	Coarse	Fine	Medium	Medium	Coarse
Likely drift potential	Low	Low	High	Med/low	Low	High	High	Low	Low
Nozzle example (Use Hypro nozzle tables to select the appropriate nozzle size and pressure)									
Soil-acting herbicides									
Pre and early post emergence	✓	✓		✓	✓			✓	✓
Foliage-acting herbicides									
Small grasses (<3 leaves)			✓✓	✓		✓	✓		
Grasses (>3 leaves)	✓		✓	✓✓				✓	
Broad leaved weeds (up to 2 cm across)			✓✓	✓✓					
Broad leaved weeds (2 - 5 cm across)	✓✓		✓	✓✓			✓		
Broad leaved weeds (>5 cm across)	✓✓✓			✓✓			✓	✓	
Large weeds: non-selective (e.g. glyphosate)	✓✓✓	✓		✓✓	✓			✓✓	✓
Cereal PGRs and eyespot fungicides									
Pre and post GS32	✓✓✓			✓✓				✓	
Cereal fungicides									
T0 - up to GS23	✓✓		✓	✓✓			✓	✓	
T1 and T2 - GS 24-49	✓✓✓		✓	✓✓			✓	✓	
T3 - after GS50 (ear spray)	✓✓✓	✓		✓✓			✓		
Cereal insecticides									
Autumn	✓		✓	✓✓			✓		
Ear spray	✓✓		✓✓	✓		✓	✓		
Oilseed rape fungicides									
Vegetative phase	✓		✓	✓✓			✓	✓	
From green bud	✓✓✓		✓	✓✓			✓	✓	
Oilseed rape insecticides									
Vegetative stage			✓	✓✓			✓		
From green bud	✓✓✓		✓✓	✓		✓	✓		

✓ Acceptable efficacy ✓✓ Preferred efficacy ✓✓✓ Best efficacy

Always refer to the product label or latest application advice from the agrochemical manufacturer.

Flat Fan DriftBETA 120° Nozzles



Significant reduction in drift from coarse air-filled droplets. For spraying in the widest weather window. Suitable for soil-active and translocated foliar sprays on larger targets e.g. glyphosate, cereal fungicides. Avoid for selective grass weed herbicides and potato fungicides.

	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H						LERAP RATING
				8KPH	10KPH	12KPH	14KPH	16KPH	18KPH	
Green	DB015F120 (100 #)	2.0	0.490	73	59	49	42	37	33	***
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
		5.0	0.775	116	93	77	66	58	52	
		6.0	0.849	127	102	85	73	64	57	
Yellow	DB02F120 (100 #)	2.0	0.653	98	78	65	56	49	44	***
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
		5.0	1.033	155	124	103	89	77	69	
		6.0	1.131	170	136	113	97	85	75	
Lilac	DB025F120 (100 #)	2.0	0.816	122	98	82	70	61	54	***
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
		5.0	1.291	194	155	129	111	97	86	
		6.0	1.414	212	170	141	121	106	94	
Blue	DB03F120 (100 #)	2.0	0.980	147	118	98	84	73	65	*** ***
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
		5.0	1.550	232	186	155	133	116	103	
		6.0	1.697	255	204	170	145	127	113	
Red	DB04F120 (50 #)	2.0	1.306	196	157	131	112	98	87	*** ***
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
		5.0	2.066	310	248	207	177	155	138	
		6.0	2.263	339	272	226	194	170	151	
Brown	DB05F120 (50 #)	2.0	1.633	245	196	163	140	122	109	*** *** *** *** ***
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
		5.0	2.582	387	310	258	221	194	172	
		6.0	2.828	424	339	283	242	212	189	
Grey	DB06F120 (50 #)	2.0	1.960	294	235	196	168	147	131	*** *** *** *** ***
		3.0	2.400	360	288	240	206	180	160	
		4.0	2.771	416	333	277	238	208	185	
		5.0	3.098	465	372	310	266	232	207	
		6.0	3.394	509	407	339	291	255	226	

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



Flat Fan Lo-Drift® 110° Nozzles

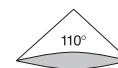


The original drift reducing nozzle. Spray is typically coarser than a conventional flat fan nozzle producing half the drift. Trials show these work well with cereal fungicides and autumn residual herbicides.

	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H						BCPC NOZZLE CODE
				8KPH	10KPH	12KPH	14KPH	16KPH	18KPH	
Green*	LD110-015 (100 #)	2.0	0.490	73	59	49	42	37	33	FRD110/0,6/3
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
Yellow*	LD110-02 (100 #)	2.0	0.653	98	78	65	56	49	44	FRD110/0,8/3
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
Lilac	LD110-025 (100 #)	2.0	0.816	122	98	82	70	61	54	FRD110/1,3
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
Blue*	LD110-03 (100 #)	2.0	0.980	147	118	98	84	73	65	FRD110/1,2/3
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
Red*	LD110-04 (50 #)	2.0	1.306	196	157	131	112	98	87	FRD110/1,6/3
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
Brown*	LD110-04 (50 #)	2.0	1.633	245	196	163	140	122	109	FRD110/2,0/3
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
Grey*	LD110-06 (50 #)	2.0	1.960	294	235	196	168	147	131	FRD110/2,4/3
		3.0	2.400	360	288	240	206	180	160	
		4.0	2.771	416	333	277	238	208	185	
White	LD110-08 (50 #)	2.0	2.613	392	314	261	224	196	174	FRD110/3,2/3
		3.0	3.200	480	384	320	274	240	213	
		4.0	3.695	554	443	370	317	277	246	

*Also available as 80° nozzles

BCPC CODING **MEDIUM** **COARSE**



Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
ORDERING: Use part numbers shown.

Hypro Flat Fan VP 110° Nozzles

Excellent spray distribution over variable pressure of 1 to 5 bar. Ideal for use with automatic rate control systems for spraying a wide range of pesticides.



	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H					BCPC NOZZLE CODE	
				8KPH	10KPH	12KPH	14KPH	16KPH		18KPH
Green*	VP110-015 (100 #)	1.0	0.346	52	42	35	30	26	23	F110/0.6/3
		2.0	0.490	73	59	49	42	37	33	
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
		5.0	0.775	116	93	77	66	58	52	
Yellow*	VP110-02 (100 #)	1.0	0.462	69	55	46	40	35	31	F110/0.8/3
		2.0	0.653	98	78	65	56	49	44	
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
		5.0	1.033	155	124	103	89	77	69	
Lilac	VP110-025 (100 #)	1.0	0.577	87	69	58	49	43	38	F110/1.0/3
		2.0	0.816	122	98	82	70	61	54	
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
		5.0	1.291	194	155	129	111	97	86	
Blue*	VP110-03 (100 #)	1.0	0.693	104	83	69	59	52	46	F110/1.2/3
		2.0	0.980	147	118	98	84	73	65	
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
		5.0	1.549	232	186	155	133	116	103	
Brown Red	VP110-035 (100 #)	1.0	0.808	121	97	81	69	61	54	F110/1.4/3
		2.0	1.143	171	137	114	98	86	76	
		3.0	1.400	210	168	140	120	105	93	
		4.0	1.616	242	194	162	139	121	108	
		5.0	1.807	271	217	181	155	136	120	
Red*	VP110-04 (50 #)	1.0	0.924	139	111	92	79	69	62	F110/1.6/3
		2.0	1.306	196	157	131	112	98	87	
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
		5.0	2.066	310	248	207	177	155	138	
Brown*	VP110-05 (50 #)	1.0	1.155	173	139	115	99	87	77	F110/2.0/3
		2.0	1.633	245	196	163	140	122	109	
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
		5.0	2.582	387	310	258	221	194	172	
Grey*	VP110-06 (50 #)	1.0	1.386	208	166	139	119	104	92	F110/2.4/3
		2.0	1.960	294	235	196	168	147	131	
		3.0	2.400	360	288	240	206	180	160	
		4.0	2.771	416	333	277	238	208	185	
		5.0	3.098	465	372	310	266	232	207	

*Also available as 80° nozzles.

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.
ORDERING Use part numbers shown.



GuardianAIR™ 110° Finer Air-Inclusion Nozzles



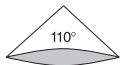
Better coverage than other Air-Inclusion nozzles with reduced drift. Ideal for lower water rates. Suitable for a wide variety of applications to cereals, oilseed rape and other combinable crops.

	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H					LERAP RATING	
				8KPH	10KPH	12KPH	14KPH	16KPH		18KPH
Green	GA110-015AZ (100 #)	1.0	0.346	52	42	35	30	26	23	*** 1-1.25 bar
		2.0	0.490	73	59	49	42	37	33	
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
		5.0	0.775	116	93	77	66	58	52	
Yellow	GA110-02AZ (100 #)	1.0	0.462	69	55	46	40	35	31	*** 1-1.25 bar
		2.0	0.653	98	78	65	56	49	44	
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
		5.0	1.033	155	124	103	89	77	69	
Lilac	GA110-025AZ (100 #)	1.0	0.577	87	69	58	49	43	38	*** 1-1.5 bar
		2.0	0.816	122	98	82	70	61	54	
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
		5.0	1.291	194	155	129	111	97	86	
Blue	GA110-03AZ (100 #)	1.0	0.693	104	83	69	59	52	46	*** 1-1.5 bar
		2.0	0.980	147	118	98	84	73	65	
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
		5.0	1.549	232	186	155	133	116	103	
Brown Red	GA110-035AZ (100 #)	1.0	0.808	121	97	81	69	61	54	*** 1-1.5 bar
		2.0	1.143	171	137	114	98	86	76	
		3.0	1.400	210	168	140	120	105	93	
		4.0	1.616	242	194	162	139	121	108	
		5.0	1.807	271	217	181	155	136	120	
Red	GA110-04AZ (50 #)	1.0	0.924	139	111	92	79	69	62	*** 1-1.5 bar
		2.0	1.306	196	157	131	112	98	87	
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
		5.0	2.066	310	248	207	177	155	138	
Brown	GA110-05AZ (50 #)	1.0	1.155	173	139	115	99	87	77	*** 1-1.5 bar
		2.0	1.633	245	196	163	140	122	109	
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
		5.0	2.582	387	310	258	221	194	172	

Spray quality is consistent across different nozzle sizes when used at the same pressure.



Up to 75% drift reduction.



Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
ORDERING - Use codes shown, also available as bags of 50 (order by adding _ bag 50 to code).

Hypro Flat Fan 110° Nozzles

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



	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H						BCPC NOZZLE CODE
				8KPH	10KPH	12KPH	14KPH	16KPH	18KPH	
Orange	F110-01 (100 #)	2.0	0.327	49	39	33	28	24	22	F110/0.4/3
		3.0	0.400	60	48	40	34	30	27	
		4.0	0.462	69	55	46	40	35	31	
Green	F110-015 (100 #)	2.0	0.490	73	59	49	42	37	33	F110/0.6/3
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
Yellow	F110-02 (100 #)	2.0	0.653	98	78	65	56	49	44	F110/0.8/3
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
Lilac	F110-025 (100 #)	2.0	0.816	122	98	82	70	61	54	F110/1.0/3
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
Blue	F110-03 (100 #)	2.0	0.980	147	118	98	84	73	65	F110/1.2/3
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
Red	F110-04 (50 #)	2.0	1.306	196	157	131	112	98	87	F110/1.6/3
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
Brown	F110-05 (50 #)	2.0	1.633	245	196	163	140	122	109	F110/2.0/3
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
Grey	F110-06 (50 #)	2.0	1.960	294	235	196	168	147	131	F110/2.4/3
		3.0	2.400	360	288	240	206	180	160	
		4.0	2.771	416	333	277	238	208	185	
White	F110-08 (50 #)	2.0	2.613	392	314	261	224	196	174	F110/3.2/3
		3.0	3.200	480	384	320	274	240	213	
		4.0	3.695	554	443	370	317	277	246	
Light Blue	F110-10 (30 #)	2.0	3.266	490	392	327	280	245	218	F110/4.0/3
		3.0	4.000	600	480	400	343	300	267	
		4.0	4.619	693	554	462	396	346	308	
Light Green	F110-15 (30 #)	2.0	4.899	735	588	490	420	367	327	F110/6.0/3
		3.0	6.000	900	720	600	514	450	400	
		4.0	6.928	1039	831	693	594	520	462	
Black	F110-20 (30 #)	2.0	6.532	980	784	653	560	490	435	F110/8.0/3
		3.0	8.000	1200	960	800	686	600	533	
		4.0	9.238	1386	1109	924	792	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 part numbers shown.



Hypro Flat Fan 80° Nozzles



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

	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H						BCPC NOZZLE CODE
				8KPH	10KPH	12KPH	14KPH	16KPH	18KPH	
Orange	F80-01 (100 #)	2.0	0.327	49	39	33	28	24	22	F80/0.4/3
		3.0	0.400	60	48	40	34	30	27	
		4.0	0.462	69	55	46	40	35	31	
Green	F80-015 (100 #)	2.0	0.490	73	59	49	42	37	33	F80/0.6/3
		3.0	0.600	90	72	60	51	45	40	
		4.0	0.693	104	83	69	59	52	46	
Yellow	F80-02 (100 #)	2.0	0.653	98	78	65	56	49	44	F80/0.8/3
		3.0	0.800	120	96	80	69	60	53	
		4.0	0.924	139	111	92	79	69	62	
Lilac	F80-025 (100 #)	2.0	0.816	122	98	82	70	61	54	F80/1.0/3
		3.0	1.000	150	120	100	86	75	67	
		4.0	1.155	173	139	115	99	87	77	
Blue	F80-03 (100 #)	2.0	0.980	147	118	98	84	73	65	F80/1.2/3
		3.0	1.200	180	144	120	103	90	80	
		4.0	1.386	208	166	139	119	104	92	
Red	F80-04 (50 #)	2.0	1.306	196	157	131	112	98	87	F80/1.6/3
		3.0	1.600	240	192	160	137	120	107	
		4.0	1.848	277	222	185	158	139	123	
Brown	F80-05 (50 #)	2.0	1.633	245	196	163	140	122	109	F80/2.0/3
		3.0	2.000	300	240	200	171	150	133	
		4.0	2.309	346	277	231	198	173	154	
Grey	F80-06 (50 #)	2.0	1.960	294	235	196	168	147	131	F80/2.4/3
		3.0	2.400	360	288	240	206	180	160	
		4.0	2.771	416	333	277	238	208	185	
White	F80-08 (50 #)	2.0	2.613	392	314	261	224	196	174	F80/3.2/3
		3.0	3.200	480	384	320	274	240	213	
		4.0	3.695	554	443	370	317	277	246	
Light Blue	F80-10 (30 #)	2.0	3.266	490	392	327	280	245	218	F80/4.0/3
		3.0	4.000	600	480	400	343	300	267	
		4.0	4.619	693	554	462	396	346	308	
Light Green	F80-15 (30 #)	2.0	4.899	735	588	490	420	367	327	F80/6.0/3
		3.0	6.000	900	720	600	514	450	400	
		4.0	6.928	1039	831	693	594	520	462	
Black	F80-20 (30 #)	2.0	6.532	980	784	653	560	490	435	F80/8.0/3
		3.0	8.000	1200	960	800	686	600	533	
		4.0	9.238	1386	1109	924	792	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 part numbers shown.



Evenspray 80° Nozzles

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



	PART NUMBER. (REC. FILTER MESH)	PRESS. BAR	FLOW L/MIN	BCPC NOZZLE CODE
Orange	E80-01 (100 #)	2.0	0.327	FE80/0.4/3
		3.0	0.400	
		4.0	0.462	
Green	E80-015 (100 #)	2.0	0.490	FE80/0.6/3
		3.0	0.600	
		4.0	0.693	
Yellow	E80-02 (80 #)	2.0	0.653	FE80/0.8/3
		3.0	0.800	
		4.0	0.924	
Blue	E80-03 (80 #)	2.0	0.980	FE80/1.2/3
		3.0	1.200	
		4.0	1.386	
Red	E80-04 (50 #)	2.0	1.306	FE80/1.6/3
		3.0	1.600	
		4.0	1.848	
Brown	E80-05 (50 #)	2.0	1.633	FE80/2.0/3
		3.0	2.000	
		4.0	2.309	
Grey	E80-06 (50 #)	2.0	1.960	FE80/2.4/3
		3.0	2.400	
		4.0	2.771	
White	E80-08 (50 #)	2.0	2.613	FE80/3.2/3
		3.0	3.200	
		4.0	3.695	

Application rates on this chart are based upon tests at 3 bar pressure.
ORDERING: use part numbers as shown.

BCPC CODING FINE MEDIUM COARSE

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.

L/min
per nozzle

$\frac{L/ha \times km/hr \times band \ width \ (m)}{600}$

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



Cone Spray SwirlTip Disc and Core 80° - 90° 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	CORE	PART NUMBERS (SPRAY ANGLE)	PRESSURE BAR	FLOW LPM	APPLICATION RATES L/HA AT KM/H			BCPC NOZZLE CODE
					8KPH	10KPH	12KPH	
		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	

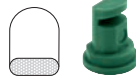
BCPC CODING FINE MEDIUM COARSE



Application rates shown on this chart are based upon tests at 3 bar and 50cm nozzle spacings.
ORDERING: Both disc and core are required. Use disc and core number prefixed by 30: e.g. 30-DC04/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.



	PART NUMBER (REC. FILTER MESH)	SPRAY ANGLE	PRESSURE BAR	FLOW LPM (50CM HEIGHT)	APPLICATION RATES L/HA AT KM/H				BCPC CODING	
					2KPH	3KPH	4KPH	5KPH		
Orange	DT0.5 (100#)	80°	1.0	0.23		81	54	41	33	D/0.23/1
			2.0	0.33	0.8m	115	77	58	46	
			3.0	0.40		141	94	71	56	
Green	DT0.75 (100#)	95°	1.0	0.35		94	63	47	38	D/0.35/1
			2.0	0.49	1.1m	133	89	66	53	
			3.0	0.59		163	109	81	65	
Yellow	DT1.0 (100#)	105°	1.0	0.46		105	70	52	42	D/0.46/1
			2.0	0.65	1.3m	148	99	74	59	
			3.0	0.80		182	121	91	73	
Blue	DT1.5 (50#)	105°	1.0	0.68		157	105	79	63	D/0.68/1
			2.0	0.97	1.3m	223	148	111	89	
			3.0	1.17		273	182	136	109	
Red	DT2.0 (50#)	105°	1.0	0.91		210	140	105	84	D/0.91/1
			2.0	1.29	1.3m	297	198	148	119	
			3.0	1.58		364	242	182	145	
Brown	DT2.5 (50#)	110°	1.0	1.14		239	160	120	96	D/1.14/1
			2.0	1.61	1.4m	339	226	169	135	
			3.0	1.98		415	276	207	166	
Grey	DT3.0 (50#)	110°	1.0	1.37		287	192	144	115	D/1.37/1
			2.0	1.93	1.4m	406	271	203	163	
			3.0	2.37		498	332	249	199	
Yellow	AN0.6 (100#)	55°	1.0	0.60		360	240	180	144	D/0.6/1
			2.0	0.85	0.5m	510	340	255	204	
			3.0	1.04		624	416	312	250	
Green	AN1.2 (50#)	90°	1.0	1.20		360	240	180	144	D/1.2/1
			2.0	1.70	1.0m	510	340	255	204	
			3.0	2.08		624	416	312	250	
Blue	AN1.8 (50#)	110°	1.0	1.80		360	240	180	144	D/1.8/1
			2.0	2.55	1.5m	510	340	255	204	
			3.0	3.12		624	416	312	250	
Red	AN2.4 (50#)	130°	1.0	2.40		360	240	180	144	D/2.4/1
			2.0	3.39	2.0m	510	340	255	204	
			3.0	4.16		624	416	312	250	

BCPC CODING FINE MEDIUM COARSE

Application rates given refer to single nozzle application at 50 cm above target. Swath widths are given at 1 bar pressure.
ORDERING: use tip number prefixed by 30: e.g. 30AN1.8

Additional DeflecTip nozzle sizes are available: DT4.0, DT5.0, DT7.5, DT10, DT15 & DT20, please see www.hypro-eu.com for application rates.

Fastcap® ESI Liquid Fertiliser Nozzle



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

Available in sizes 015 to 06 with plastic metering discs.
Available in sizes 08, 10 and 15 with ceramic metering discs.

	PART NUMBER.	PRESS. BAR	FLOW L/MIN	APPLICATION RATES L/HA AT KM/H					
				8KPH	10KPH	12KPH	14KPH	16KPH	18KPH
Green	FC-HESI-110015P (6 pack)	1.0	0.346	52	42	35	30	26	23
		2.0	0.490	73	59	49	42	37	33
		3.0	0.600	90	72	60	51	45	40
		4.0	0.693	104	83	69	59	52	46
Yellow	FC-HESI-11002P (6 pack)	1.0	0.462	69	55	46	40	35	31
		2.0	0.653	98	78	65	56	49	44
		3.0	0.800	120	96	80	69	60	53
		4.0	0.924	139	111	92	79	69	62
Blue	FC-HESI-11003P (6 pack)	1.0	0.693	104	83	69	59	52	46
		2.0	0.980	147	118	98	84	73	65
		3.0	1.200	180	144	120	103	90	80
		4.0	1.386	208	166	139	119	104	92
Red	FC-HESI-11004P (6 pack)	1.0	0.924	139	111	92	79	69	62
		2.0	1.306	196	157	131	112	98	87
		3.0	1.600	240	192	160	137	120	107
		4.0	1.848	277	222	185	158	139	123
Brown	FC-HESI-11005P (6 pack)	1.0	1.155	173	139	115	99	87	77
		2.0	1.633	245	196	163	140	122	109
		3.0	2.000	300	240	200	171	150	133
		4.0	2.309	346	277	231	198	173	154
Grey	FC-HESI-11006P (6 pack)	1.0	1.386	208	166	139	119	104	92
		2.0	1.960	294	235	196	168	147	131
		3.0	2.400	360	288	240	206	180	160
		4.0	2.771	416	333	277	238	208	185
White	FC-HESI-11008 (6 pack)	1.0	1.848	277	222	185	158	139	123
		2.0	2.613	392	314	261	224	196	174
		3.0	3.200	480	384	320	274	240	213
		4.0	3.695	554	443	370	317	277	246
Light Blue	FC-HESI-11010 (6 pack)	1.0	2.309	346	277	231	198	173	154
		2.0	3.266	490	392	327	280	245	218
		3.0	4.000	600	480	400	343	300	267
		4.0	4.619	693	554	462	396	346	308
Light Green	FC-HESI-11015 (6 pack)	1.0	3.464	520	416	346	297	260	231
		2.0	4.899	735	588	490	420	367	327
		3.0	6.000	900	720	600	514	450	400
		4.0	6.928	1039	831	693	594	520	462

NB: Application rates shown in this chart are based upon tests at 3 bar, 50cm nozzle spacing and 50cm boom height. Flow rates are based on water and allowance must be made for liquids with different viscosity and specific gravity. For calculation see p.36.

ORDERING: Use codes shown

GuardianAIR™ Twin 110° Air-inclusion Nozzles

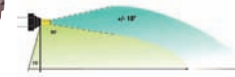


A twin spray with 30° incline forward and rear to help penetration and coverage of denser crop canopies.
Based on the finer air-inclusion spray quality of the GuardianAIR™ nozzle and featuring an integral FastCap™.

PART NUMBER.	PRESS. BAR	FLOW L/MIN	LITRES/HECTARE AT KM/H							
			6KPH	8KPH	10KPH	12KPH	14KPH	16KPH	18KPH	
02	GAT110-02	2.0	0.653	131	98	78	65	56	49	44
		3.0	0.800	160	120	96	80	69	60	53
		4.0	0.924	185	139	111	92	79	69	62
		5.0	1.033	207	155	124	103	89	77	69
		6.0	1.131	226	170	136	113	97	85	75
025	GAT110-025	2.0	0.816	163	122	98	82	70	61	54
		3.0	1.000	200	150	120	100	86	75	67
		4.0	1.155	231	173	139	115	99	87	77
		5.0	1.291	258	194	155	129	111	97	86
		6.0	1.414	283	212	170	141	121	106	94
03	GAT110-03	2.0	0.980	196	147	118	98	84	73	65
		3.0	1.200	240	180	144	120	103	90	80
		4.0	1.386	277	208	166	139	119	104	92
		5.0	1.549	310	232	186	155	133	116	103
		6.0	1.697	339	255	204	170	145	127	113
04	GAT110-04	2.0	1.306	261	196	157	131	112	98	87
		3.0	1.600	320	240	192	160	137	120	107
		4.0	1.848	370	277	222	185	158	139	123
		5.0	2.066	413	310	248	207	177	155	138
		6.0	2.263	453	339	272	226	194	170	151
05	GAT110-05	2.0	1.633	327	245	196	163	140	122	109
		3.0	2.000	400	300	240	200	171	150	133
		4.0	2.309	462	346	277	231	198	173	154
		5.0	2.582	516	387	310	258	221	194	172
		6.0	2.828	566	424	339	283	242	212	189
06	GAT110-06	2.0	1.960	392	294	235	196	168	147	131
		3.0	2.400	480	360	288	240	206	180	160
		4.0	2.771	554	416	333	277	238	208	185
		5.0	3.098	620	465	372	310	266	232	207
		6.0	3.394	679	509	407	339	291	255	226
08	GAT110-08	2.0	2.613	523	392	314	261	224	196	174
		3.0	3.200	640	480	384	320	274	240	213
		4.0	3.695	739	554	443	370	317	277	246
		5.0	4.131	826	620	496	413	354	310	275
		6.0	4.525	905	679	543	453	388	339	302

Spray quality is consistent across different nozzle sizes when used at the same pressure.
Application rates shown in this chart are based on tests at 3 bar and 50 cm nozzle spacing.
ORDERING: use codes shown.

Hypro XT Nozzles for boomless spraying



For applications where it is not possible to use a conventional spray boom or to extend spraying width at the boom end. Throws a coarse, even spray flat fan pattern up to 4.9 metres. Ideal for use in forests or pastureland where there are obstructions to spraying. Available with threaded stainless steel body or with integral FastCap® bayonet attachment (sizes 010, 020, 024, and 043 only).

PART NUMBER	BAR/L/MIN	APPLICATION RATES L/HA AT KM/H																SWATH WIDTH (M) @ 3BAR	XT THREAD
		4	5	6	7	8	10	12	14	16	18	20							
Green	XT010 & XT010FC	2 3.2	124	99	83	71	62	50	41	35	31	28	25	3.9	¾"				
	3 3.9	152	121	101	87	76	61	51	43	38	34	30							
	4 4.6	175	140	117	100	88	70	58	50	44	39	35							
Blue	XT020 & XT020FC	2 6.4	201	161	134	115	101	81	67	58	50	45	40	4.8	¾"				
	3 7.9	247	197	165	141	123	99	82	71	62	55	49							
	4 9.1	265	228	190	163	142	114	95	81	71	63	57							
Yellow	XT024 & XT024FC	2 7.7	237	189	158	135	118	95	79	68	59	53	47	4.9	¾"				
	3 9.5	290	232	193	166	145	116	97	83	73	64	58							
	4 10.9	335	268	223	191	167	134	112	96	84	74	67							
Orange	XT043 & XT043FC	2 13.9	473	378	315	270	236	189	158	135	118	105	95	4.4	¾"				
	3 17.0	579	463	386	331	289	232	193	165	145	129	116							
	4 19.6	668	535	446	382	334	267	223	191	167	149	134							
Red	XT080	2 25.8	992	793	661	567	496	397	331	283	248	220	198	3.9	½"				
	3 31.6	1215	972	810	694	607	486	405	347	304	270	243							
	4 36.5	1403	1122	935	802	701	561	468	401	351	312	281							
White	XT167	2 53.8	1878	1502	1252	1073	939	751	626	537	469	417	376	4.3	¾"				
	3 65.9	2300	1840	1533	1314	1150	920	767	657	575	511	460							
	4 76.1	2656	2125	1771	1518	1328	1062	885	759	664	590	531							
Grey	XT215	2 69.3	2122	1697	1414	1212	1061	849	707	606	530	471	424	4.9	¾"				
	3 84.9	2598	2079	1732	1485	1299	1039	866	742	650	577	520							
	4 98.0	3000	2400	2000	1715	1500	1200	1000	857	750	667	600							

Application rates are based on the swath widths listed at 3 bar pressure and boom Height 1.2m. Use the following calculation if using a different swath.

$$L/ha = \frac{L/min \times 600}{KM/H \times swath \ width}$$

Ordering - Use codes shown. (FC = Fastcap Option). Holder available, part no. 15Q3570A

Flow rates are based on water, allowance must be made for liquids of different viscosity and specific gravity, (e.g. liquid fertiliser). For calculation see p.36.