

3D NINETY NOZZLE

A UNIQUE SPRAY ANGLE AND INCLINE FOR 3D TARGET COVERAGE COMBINED WITH 90% DRIFT REDUCTION

The 3D Ninety nozzle represents a breakthrough in 90% drift reduction technology. Developed in partnership with Syngenta, the 3D Ninety is proven to provide spray effectiveness across a range of important targets including potato blight fungicides and pre-emergence herbicides.

Users can now be confident to select a 90% nozzle that eliminates almost all of the most driftable fine droplets without compromising spray effectiveness.

FEATURES

- ◆ A unique 55° incline and spray angle optimizes droplet momentum and spray coverage
- ◆ 6 nozzle sizes; 03 through to 08, ISO colour coded and moulded from polyacetal
- ◆ 90% drift reduction rating from Silsoe (UK) and ZNT (France) at 2-5 bar
- ◆ Includes an easy-twist Snaplock cap specifically sized for 3D Ninety nozzles
- ◆ Pre-orifice design is PWM compatible

BENEFITS

- ◆ Larger drops with more velocity land where intended and penetrate broad-leaved canopies getting more spray onto the target
- ◆ 90% drift reduction enables a wider spraying window and more timely spray applications
- ◆ Crop and application recommendations are based on field testing throughout nozzle development
- ◆ May be used with PWM systems for maximum control over drop size and coverage regardless of sprayer forward speed

APPLICATION ADVICE

- ◆ Alternate the spray incline along the boom for optimum '3D' spray coverage
- ◆ Optimised at 2-5 bar pressure, 50 cm nozzle spacing, 50 cm boom height and 12 kph
- ◆ For best results apply at higher water volumes (200 l/ha) to maintain number of drops
- ◆ Suitable for larger targets such as established plants and pre-emergences sprays onto soil. Not recommended for very small weeds
- ◆ Dedicated Snaplock cap designed for Easyfit 3 bayonets. Requires an adapter for use with Hardi, Jacto, Agrifac nozzle bodies
- ◆ Where the incline necessitates additional clearance, consider using with Hypro's bayonet extender (pt no. CAP-EXT) or reverse the inclination of spray in critical nozzle positions
- ◆ Install 3D Ninety nozzles facing the same direction for PWM systems at less than 30 Hz



PENTAIR® HYPRO™ 3D NINETY NOZZLES

PART NUMBER	PRESSURE (BAR)	SPRAY QUALITY	FLOW (L/MN)	APPLICATION RATES IN L/HA @ KM/HR (50 CM NOZZLE SPACING)												
				6	8	10	12	14	16	18	20	22	24	26	28	30
FC-3DN90-03	2	UC	1.070	214	161	128	107	92	80	71	64	58	54	49	46	43
	2.5	UC	1.135	227	170	136	114	97	85	76	68	62	57	52	49	45
	3	UC	1.200	240	180	144	120	103	90	80	72	65	60	55	51	48
	4	UC	1.380	276	207	166	138	118	104	92	83	75	69	64	59	55
	5	XC	1.510	302	227	181	151	129	113	101	91	82	76	70	65	60
	6	XC	1.630	326	245	196	163	140	122	109	98	89	82	75	70	65
FC-3DN90-035	2	UC	1.212	242	182	145	121	104	91	81	73	66	61	56	52	48
	2.5	UC	1.306	261	196	157	131	112	98	87	78	71	65	60	56	52
	3	UC	1.400	280	210	168	140	120	105	93	84	76	70	65	60	56
	4	UC	1.580	316	237	190	158	135	119	105	95	86	79	73	68	63
	5	XC	1.750	350	263	210	175	150	131	117	105	95	88	81	75	70
	6	XC	1.920	384	288	230	192	165	144	128	115	105	96	89	82	77
FC-3DN90-04	2	UC	1.420	284	213	170	142	122	107	95	85	77	71	66	61	57
	2.5	UC	1.510	302	227	181	151	129	113	101	91	82	76	70	65	60
	3	UC	1.600	320	240	192	160	137	120	107	96	87	80	74	69	64
	4	UC	1.870	374	281	224	187	160	140	125	112	102	94	86	80	75
	5	UC	2.010	402	302	241	201	172	151	134	121	110	101	93	86	80
	6	UC	2.190	438	329	263	219	188	164	146	131	119	110	101	94	88
FC-3DN90-05	2	UC	1.730	346	260	208	173	148	130	115	104	94	87	80	74	69
	2.5	UC	1.880	376	282	226	188	161	141	125	113	103	94	87	81	75
	3	UC	2.000	400	300	240	200	171	150	133	120	109	100	92	86	80
	4	UC	2.230	446	335	268	223	191	167	149	134	122	112	103	96	89
	5	XC	2.450	490	368	294	245	210	184	163	147	134	123	113	105	98
	6	XC	2.660	532	399	319	266	228	200	177	160	145	133	123	114	106
FC-3DN90-06	2	UC	2.100	420	315	252	210	180	158	140	126	115	105	97	90	84
	2.5	UC	2.270	454	341	272	227	195	170	151	136	124	114	105	97	91
	3	UC	2.400	480	360	288	240	206	180	160	144	131	120	111	103	96
	4	UC	2.720	544	408	326	272	233	204	181	163	148	136	126	117	109
	5	UC	2.970	594	446	356	297	255	223	198	178	162	149	137	127	119
	6	UC	3.210	642	482	385	321	275	241	214	193	175	161	148	138	128
FC-3DN90-08	2	UC	2.690	538	404	323	269	231	202	179	161	147	135	124	115	108
	2.5	UC	2.920	584	438	350	292	250	219	195	175	159	146	135	125	117
	3	UC	3.200	640	480	384	320	274	240	213	192	175	160	148	137	128
	4	UC	3.470	694	521	416	347	297	260	231	208	189	174	160	149	139
	5	UC	3.810	762	572	457	381	327	286	254	229	208	191	176	163	152
	6	UC	4.110	822	617	493	411	352	308	274	247	224	206	190	176	164

Nozzle size color coding based on ISO 10625:2005(E) standard.

Spray Quality classification and color coding based on ANSI/ASAE S572.3 standard.