



XRC TeeJet Extended Range

- Excellent spray distribution over a wide range of pressures 15–60 PSI
- Ideal for rigs equipped with sprayer controllers
- Reduces drift at lower pressures, better coverage at higher pressures
- XR TeeJet tip molded into Quick TeeJet cap provides automatic spray alignment
- Includes tightly fitting washer that stays put and assures a good seal

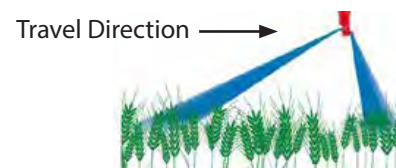


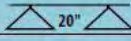
		DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	20"																GALLONS PER 1000 SQ. FT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Air Induction Dual Flat Pattern



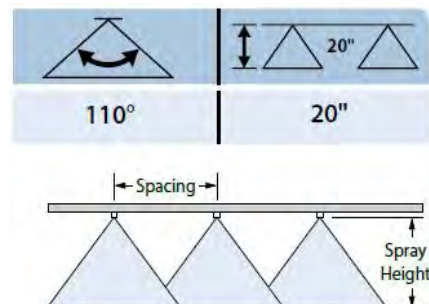
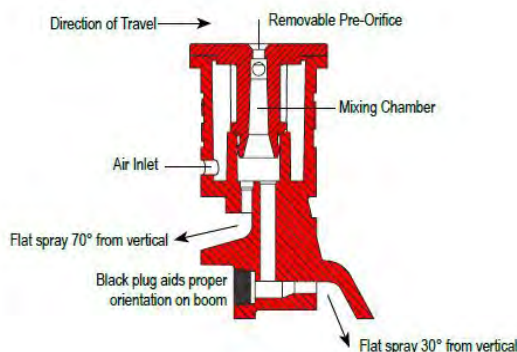
The AI3070 TeeJet dual flat spray tip, utilizing a patent-pending design, provides two spray patterns at complementary angles of 30° and 70° from vertical. The leading pattern provides coverage of the rear of the crop and penetration for coverage within the canopy. The trailing pattern provides thorough coverage across the top of the crop canopy. The AI3070 is ideal for fungicide application and disease control in cereal crops.



			PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE OZ/MIN	 20"													
							GPA								GALLONS PER 1000 SQ. FT.					
							4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH		
	AI3070-015VP (100)	20	VC	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15			
		30	C	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18			
		40	C	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20			
		50	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
		60	M	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
		75	M	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29			
	AI3070-02VP (100)	90	F	0.23	29	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31			
		20	XC	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19			
		30	VC	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23			
		40	C	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27			
		50	C	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
		60	C	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33			
	AI3070-025VP (100)	75	M	0.27	35	20	16.0	13.4	10.0	8.0	6.7	5.3	4.0	0.92	0.61	0.46	0.37			
		90	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
		20	XC	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24			
		30	VC	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30			
		40	C	0.25	32	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34			
		50	C	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
	AI3070-03VP (50)	60	C	0.31	40	23	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.1	0.70	0.53	0.42			
		75	C	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
		90	M	0.38	49	28	23	18.8	14.1	11.3	9.4	7.5	5.6	1.3	0.86	0.65	0.52			
		20	XC	0.21	27	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.71	0.48	0.36	0.29			
		30	XC	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35			
		40	VC	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41			
	AI3070-04VP (50)	50	C	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46			
		60	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50			
		75	C	0.41	52	30	24	20	15.2	12.2	10.1	8.1	6.1	1.4	0.93	0.70	0.56			
		90	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
		20	UC	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38			
		30	XC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
	AI3070-05VP (50)	40	VC	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54			
		50	VC	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61			
		60	VC	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67			
		75	C	0.55	70	41	33	27	20	16.3	13.6	10.9	8.2	1.9	1.2	0.94	0.75			
		90	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82			
		20	UC	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48			
		30	XC	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58			
		40	VC	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68			
		50	VC	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76			
		60	VC	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83			
		75	C	0.68	87	50	40	34	25	20	16.8	13.5	10.1	2.3	1.5	1.2	0.92			
		90	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0			

Note: Always double check your application rates.
 Tabulations are based on spraying water at 70°F (21°C).

Extremely Fine Very Fine Fine Medium Coarse Very Coarse Extremely Coarse Ultra Coarse

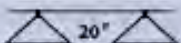




DG TeeJet Drift Guard



Pre-orifice design produces larger droplets and reduces the small drift-prone droplets, minimizing off-target spray contamination
Tapered edge flat spray pattern provides uniform coverage when adjacent nozzle patterns are overlapped in broadcast spraying
Automatic alignment when used with 114441-* CELR Quick TeeJet® cap and gasket
The color-coded pre-orifice is removable for any necessary cleaning operations
Available in both 80° & 110° spray angles with a durable stainless steel orifice

			DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	 20°													
						GPA								GALLONS PER 1000 SQ. FT.					
						4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH		
	DG80015 DG110015 (100)	30	M	M	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18	
		35	M	M	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	
		40	M	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20	
		50	M	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
		60	F	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24	
	DG8002 DG11002 (50)	30	M	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
		35	M	M	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26	
		40	M	M	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	
		50	M	M	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	
		60	M	M	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33	
	DG8003 DG11003 (50)	30	C	C	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35	
		35	M	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	
		40	M	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41	
		50	M	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46	
		60	M	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50	
	DG8004 DG11004 (50)	30	C	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	
		35	C	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50	
		40	C	M	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54	
		50	M	M	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61	
		60	M	M	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67	
	DG8005 DG11005 (50)	30	C	C	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58	
		35	C	C	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64	
		40	C	C	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68	
		50	M	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76	
		60	M	M	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83	

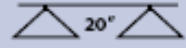


DG TwinJet Drift Guard


TeeJet®
 TECHNOLOGIES

- Dual 110°, tapered edge, flat fan spray patterns spraying 60° forward to back providing uniform coverage in broadcast spraying applications
- DG TwinJet offers larger droplets and improved drift control compared to a standard TwinJet spray tip of equal capacity
- Dual angled spray patterns help to better penetrate crop canopy and provide thorough leaf coverage
- Made of stainless steel with VisiFlo color-coding for excellent chemical and wear resistance
- Removable polymer pre-orifice.
- Available in six capacities with a recommended pressure range of 30-60 PSI (2-4 bar)
- Automatic alignment when used with 114443*-CELR Quick TeeJet® cap and gasket



		DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	 20°											
					GPA								GALLONS PER 1000 SQ. FT.			
					4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH
DGTJ60-110015 (100)	30	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18
	35	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
	40	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
	50	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	60	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24
DGTJ60-110002 (100)	30	M	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23
	35	M	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26
	40	M	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27
	50	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30
	60	F	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33
DGTJ60-110003 (100)	30	C	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
	35	M	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38
	40	M	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41
	50	M	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46
	60	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
DGTJ60-110004 (50)	30	C	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48
	35	C	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
	40	C	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54
	50	C	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
	60	M	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67
DGTJ60-110006 (50)	30	C	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71
	35	C	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
	40	C	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82
	50	C	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91
	60	C	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99
DGTJ60-110008 (50)	30	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
	35	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0
	40	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1
	50	C	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2
	60	C	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3

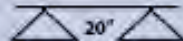




Stainless Steel TwinJet

- Penetrates crop residue or dense foliage
- Smaller droplets for thorough coverage
- Better spray distribution along boom than with hollow cone nozzles
- Available in stainless steel with VisiFlo color coding in 65°, 80° and 110° spray angles
- Recommended pressure rating 30-60 PSI (2-4 bar)
- Automatic alignment when used with 114443*-CELR Quick TeeJet® cap and gasket



			DROPSIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	 20"													
						GPA								GALLONS PER 1000 SQ. FT.					
						4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH		
	TJ60-6501 TJ60-8001 (100)	30	VF	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12		
		35	VF	0.094	12	7.0	5.6	4.7	3.5	2.8	2.3	1.9	1.4	0.32	0.21	0.16	0.13		
		40	VF	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14		
		50	VF	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15		
		60	VF	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16		
	TJ60-650134 (100)	30		0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16		
		35		0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18		
		40		0.134	17	9.9	8.0	6.6	5.0	4.0	3.3	2.7	2.0	0.46	0.30	0.23	0.18		
		50		0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20		
		60		0.16	20	11.9	9.5	7.9	5.9	4.8	4.0	3.2	2.4	0.54	0.36	0.27	0.22		
	TJ60-6502 TJ60-8002 TJ60-11002 (100)	30	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
		35	F	VF	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26	
		40	F	VF	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	
		50	F	VF	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30	
		60	F	VF	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33	
	TJ60-6503 TJ60-8003 TJ60-11003 (100)	30	F	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35	
		35	F	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38	
		40	F	F	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41	
		50	F	F	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46	
		60	F	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50	
	TJ60-6504 TJ60-8004 TJ60-11004 (50)	30	M	F	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48	
		35	M	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50	
		40	F	F	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54	
		50	F	F	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61	
		60	F	F	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67	
	TJ60-8005 TJ60-11005 (50)	30	M	M	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58	
		35	M	M	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.07	0.80	0.64	
		40	M	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.13	0.85	0.68	
		50	F	F	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76	
		60	F	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.04	0.83	
	TJ60-6506 TJ60-8006 TJ60-11006 (50)	30	M	M	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71	
		35	M	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76	
		40	M	M	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82	
		50	M	F	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91	
		60	M	F	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99	
	TJ60-6508 TJ60-8008 TJ60-11008 (50)	30	C	M	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94	
		35	M	M	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0	
		40	M	M	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1	
		50	M	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2	
		60	M	M	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3	
	TJ60-8010 TJ60-11010 (50)	30	C	M	0.87	111	65	52	43	32	26	22	17.2	12.9	3.0	2.0	1.5	1.2	
		35	C	M	0.94	120	70	56	47	35	28	23	18.6	14.0	3.2	2.1	1.6	1.3	
		40	C	M	1.00	128	74	59	50	37	30	25	19.8	14.9	3.4	2.3	1.7	1.4	
		50	M	M	1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5	
		60	M	M	1.22	156	91	72	60	45	36	30	24	18.1	4.1	2.8	2.1	1.7	

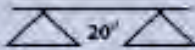




TP TeeJet Even Spray

- Tapered edge flat spray pattern for uniform coverage in broadcast spraying
- Automatic spray alignment with 114441-* CELR Quick TeeJet cap and gasket
- Automatic spray alignment for sizes 10-20 with 25610-NYR Quick TeeJet cap and Gasket



		DROP SIZE		CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.																
						GPA								GALLONS PER 1000 SQ. FT.							
		80°	TPO			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH				
TP8001 TP11001	30	F	F	0.087	11	6.5	5.2	4.3	3.2	2.6	2.2	1.7	1.3	0.30	0.20	0.15	0.12				
	35	F	F	0.094	12	7.0	5.6	4.7	3.5	2.8	2.3	1.9	1.4	0.32	0.21	0.16	0.13				
	40	F	F	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14				
	50	F	VF	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15				
TP80015 TP110015	60	F	VF	0.12	15	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16				
	30	F	F	0.13	17	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.29	0.22	0.18				
	35	F	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19				
	40	F	F	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20				
TP8002 TP11002	50	F	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	60	F	F	0.18	23	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.24				
	30	M	F	0.17	22	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23				
	35	M	F	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26				
TP8003 TP11003	40	F	F	0.20	26	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27				
	50	F	F	0.22	28	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.37	0.30				
	60	F	F	0.24	31	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.54	0.41	0.33				
	30	M	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35				
TP8004 TP11004	35	M	F	0.28	36	21	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.63	0.48	0.38				
	40	M	F	0.30	38	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.0	0.68	0.51	0.41				
	50	M	F	0.34	44	25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.2	0.77	0.58	0.46				
	60	F	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
TP8005 TP11005	30	M	M	0.35	45	26	21	17.3	13.0	10.4	8.7	6.9	5.2	1.2	0.79	0.60	0.48				
	35	M	M	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50				
	40	M	M	0.40	51	30	24	19.8	14.9	11.9	9.9	7.9	5.9	1.4	0.91	0.68	0.54				
	50	M	F	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61				
TP8006 TP11006	60	M	F	0.49	63	36	29	24	18.2	14.6	12.1	9.7	7.3	1.7	1.1	0.83	0.67				
	30	C	M	0.43	55	32	26	21	16.0	12.8	10.6	8.5	6.4	1.5	0.97	0.73	0.58				
	35	M	M	0.47	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.80	0.64				
	40	M	M	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68				
TP8008 TP11008	50	M	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76				
	60	M	F	0.61	78	45	36	30	23	18.1	15.1	12.1	9.1	2.1	1.4	1.0	0.83				
	30	C	M	0.52	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.2	0.88	0.71				
	35	C	M	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76				
TP8008 TP11008	40	C	M	0.60	77	45	36	30	22	17.8	14.9	11.9	8.9	2.0	1.4	1.0	0.82				
	50	C	M	0.67	86	50	40	33	25	19.9	16.6	13.3	9.9	2.3	1.5	1.1	0.91				
	60	C	M	0.73	93	54	43	36	27	22	18.1	14.5	10.8	2.5	1.7	1.2	0.99				
	30	C	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94				
TP8008 TP11008	35	C	C	0.75	96	56	45	37	28	22	18.6	14.9	11.1	2.6	1.7	1.3	1.0				
	40	C	C	0.80	102	59	48	40	30	24	19.8	15.8	11.9	2.7	1.8	1.4	1.1				
	50	C	M	0.89	114	66	53	44	33	26	22	17.6	13.2	3.0	2.0	1.5	1.2				
	60	C	M	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3				



TG Full Cone



- Provides coarse spray with full cone pattern
- Used frequently for tobacco plant sucker control.

	PSI	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	GPA (THREE NOZZLES PER ROW)							
				2 MPH	2.5 MPH	3 MPH	3.5 MPH	4 MPH	4.5 MPH	5 MPH	5.5 MPH
TG-1	20	0.14	18	26	21	17.3	14.9	13.0	11.6	10.4	9.5
	30	0.16	20	30	24	19.8	17.0	14.9	13.2	11.9	10.8
	40	0.19	24	35	28	24	20	17.6	15.7	14.1	12.8
	60	0.23	29	43	34	28	24	21	19.0	17.1	15.5
TG-2	20	0.28	36	52	42	35	30	26	23	21	18.9
	30	0.33	42	61	49	41	35	31	27	25	22
	40	0.38	49	71	56	47	40	35	31	28	26
	60	0.46	59	85	68	57	49	43	38	34	31
TG-3	20	0.41	52	76	61	51	43	38	34	30	28
	30	0.50	64	93	74	62	53	46	41	37	34
	40	0.57	73	106	85	71	60	53	47	42	38
	60	0.68	87	126	101	84	72	63	56	50	46
TG-4	20	0.55	70	102	82	68	58	51	45	41	37
	30	0.66	84	123	98	82	70	61	54	49	45
	40	0.76	97	141	113	94	81	71	63	56	51
	60	0.91	116	169	135	113	97	84	75	68	61
TG-5	20	0.69	88	128	102	85	73	64	57	51	47
	30	0.84	108	156	125	104	89	78	69	62	57
	40	1.00	128	186	149	124	106	93	83	74	68
	60	1.16	148	215	172	144	123	108	96	86	78
TG-6	20	0.82	105	152	122	101	87	76	68	61	55
	30	0.99	127	184	147	123	105	92	82	74	67
	40	1.14	146	212	169	141	121	106	94	85	77
	60	1.37	175	254	203	170	145	127	113	102	92
TG-8	20	1.10	141	204	163	136	117	102	91	82	74
	30	1.33	170	247	198	165	141	123	110	99	90
	40	1.51	193	280	224	187	160	140	125	112	102
	60	1.82	233	338	270	225	193	169	150	135	123

ConeJet Hollow Cone



- VisiFlo color-coded versions consist of stainless steel or ceramic orifice in a polypropylene body.
- Standard ConeJet spray nozzles (not color-coded) are available in brass and stainless steel with a 65° (TY) and 80° (TX) spray angles.
- Finely atomized hollow cone spray pattern provides thorough coverage.
 - Maximum pressure rating of 300 psi (20 bar).
 - Spray angle is 80° at 100 psi (7 bar).
- Excellent for use in directed applications in air blast spraying for orchards and vineyards and other specialty crops.
- Also well suited for applications of insecticides, fungicides, defoliants, and foliar fertilizers at pressures of 40 psi (3 bar) and above.
- Automatic alignment when used with 114445-* CELR Quick TeeJet® cap and gasket

	PSI	GPM																	
		30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI	140 PSI	160 PSI	180 PSI	200 PSI	220 PSI	240 PSI	260 PSI	280 PSI	300 PSI
TX-VS1	100	0.015	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.026	0.028	0.030	0.031	0.032	0.034	0.035	0.036	0.037	0.038
TX-VS2	100	0.029	0.033	0.037	0.040	0.043	0.045	0.047	0.050	0.054	0.058	0.061	0.064	0.067	0.070	0.073	0.075	0.078	0.080
TX-VK3	100	0.044	0.050	0.055	0.060	0.064	0.068	0.071	0.075	0.081	0.086	0.092	0.096	0.101	0.105	0.109	0.113	0.117	0.120
TX-VK4	50	0.058	0.067	0.074	0.080	0.086	0.091	0.096	0.101	0.110	0.118	0.125	0.132	0.139	0.145	0.151	0.157	0.162	0.167
TX-VK6	50	0.088	0.100	0.111	0.120	0.129	0.137	0.145	0.152	0.165	0.177	0.188	0.199	0.208	0.218	0.226	0.235	0.243	0.251
TX-VK8	50	0.116	0.133	0.148	0.162	0.174	0.186	0.196	0.207	0.225	0.243	0.259	0.274	0.288	0.301	0.314	0.326	0.338	0.349
TX-VK10	50	0.145	0.167	0.185	0.202	0.218	0.232	0.246	0.258	0.282	0.303	0.323	0.342	0.360	0.376	0.392	0.408	0.422	0.437
TX-VK12	50	0.174	0.200	0.223	0.243	0.261	0.279	0.295	0.310	0.338	0.364	0.388	0.410	0.432	0.452	0.471	0.489	0.507	0.524
TX-VK18	50	0.260	0.300	0.335	0.367	0.396	0.423	0.449	0.473	0.517	0.558	0.597	0.633	0.667	0.699	0.730	0.759	0.788	0.815
TX-VK26	50	0.376	0.433	0.484	0.530	0.572	0.611	0.648	0.683	0.747	0.807	0.862	0.914	0.963	1.01	1.05	1.10	1.14	1.18

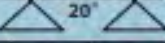




TQ Even Flat Spray Tips


TeeJet®
 TECHNOLOGIES

- Suggested for post-directed application with hose drops
- Automatic alignment when used with 114441-*CELR Quick TeeJet® cap and gasket
- 150° series stainless steel and brass

	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 										
			4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH
TQ150-01-SS (100)	20	0.071	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.8	1.5	1.3	1.2
	25	0.079	5.9	4.7	3.9	3.4	2.9	2.6	2.3	2.0	1.7	1.5	1.3
	30	0.087	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2	1.8	1.6	1.4
	40	0.10	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5	2.1	1.9	1.7
	50	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8
TQ150-015-SS (100)	20	0.11	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3	2.0	1.8
	25	0.12	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5	2.2	2.0
	30	0.13	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1
	40	0.15	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5
	50	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8
TQ150-02-SS (100)	20	0.14	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0	2.6	2.3
	25	0.16	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.0	3.4	3.0	2.6
	30	0.17	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6	3.2	2.8
	40	0.20	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3
	50	0.22	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6
TQ150-03-SS (100)	20	0.21	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5	3.9	3.5
	25	0.24	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1	4.5	4.0
	30	0.26	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3
	40	0.30	22	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0
	50	0.34	25	20	16.8	14.4	12.6	11.2	10.1	8.4	7.2	6.3	5.6
TQ150-04-SS (50)	20	0.28	21	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9	5.2	4.6
	25	0.32	24	19.0	15.8	13.6	11.9	10.6	9.5	7.9	6.8	5.9	5.3
	30	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8
	40	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6
	50	0.45	33	27	22	19.1	16.7	14.9	13.4	11.1	9.5	8.4	7.4
TQ150-05-SS (50)	20	0.35	26	21	17.3	14.9	13.0	11.6	10.4	8.7	7.4	6.5	5.8
	25	0.40	30	24	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6
	30	0.43	32	26	21	18.2	16.0	14.2	12.8	10.6	9.1	8.0	7.1
	40	0.50	37	30	25	21	18.6	16.5	14.9	12.4	10.6	9.3	8.3
	50	0.56	42	33	28	24	21	18.5	16.6	13.9	11.9	10.4	9.2
TQ150-06-SS (50)	20	0.42	31	25	21	17.8	15.6	13.9	12.5	10.4	8.9	7.8	6.9
	25	0.47	35	28	23	19.9	17.4	15.5	14.0	11.6	10.0	8.7	7.8
	30	0.52	39	31	26	22	19.3	17.2	15.4	12.9	11.0	9.7	8.6
	40	0.60	45	36	30	25	22	19.8	17.8	14.9	12.7	11.1	9.9
	50	0.67	50	40	33	28	25	22	19.9	16.6	14.2	12.4	11.1
TQ150-08-SS (50)	20	0.57	42	34	28	24	21	18.8	16.9	14.1	12.1	10.6	9.4
	25	0.63	47	37	31	27	23	21	18.7	15.6	13.4	11.7	10.4
	30	0.69	51	41	34	29	26	23	20	17.1	14.6	12.8	11.4
	40	0.80	59	48	40	34	30	26	24	19.8	17.0	14.9	13.2
	50	0.89	66	53	44	38	33	29	26	22	18.9	16.5	14.7
TQ150-09-SS (50)	20	0.64	48	38	32	27	24	21	19.0	15.8	13.6	11.9	10.6
	25	0.71	53	42	35	30	26	23	21	17.6	15.1	13.2	11.7
	30	0.78	58	46	39	33	29	26	23	19.3	16.5	14.5	12.9
	40	0.90	67	53	45	38	33	30	27	22	19.1	16.7	14.9
	50	1.01	75	60	50	43	37	33	30	25	21	18.7	16.7

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

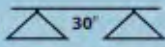




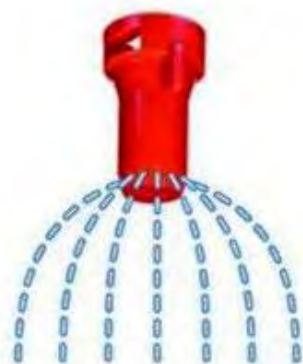
StreamJet Solid Stream Spray Nozzles

- Permits banding fluids on high speed units.
- Large orifices with no internal obstructions allow for minimum clogging.
- Lower speed drift potential.



		CAPACITY ONE NOZZLE IN GPM	GPA 								
			4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
TP0001-SS	10	0.050	2.5	1.7	1.2	0.99	0.83	0.71	0.62	0.55	0.50
	20	0.071	3.5	2.3	1.8	1.4	1.2	1.0	0.88	0.78	0.70
	30	0.087	4.3	2.9	2.2	1.7	1.4	1.2	1.1	0.96	0.86
	40	0.10	5.0	3.3	2.5	2.0	1.7	1.4	1.2	1.1	0.99
TP00015-SS	10	0.075	3.7	2.5	1.9	1.5	1.2	1.1	0.93	0.83	0.74
	20	0.11	5.4	3.6	2.7	2.2	1.8	1.6	1.4	1.2	1.1
	30	0.13	6.4	4.3	3.2	2.6	2.1	1.8	1.6	1.4	1.3
	40	0.15	7.4	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5
H1/4U-SS0002 TP0002-SS	10	0.10	5.0	3.3	2.5	2.0	1.7	1.4	1.2	1.1	0.99
	20	0.14	6.9	4.6	3.5	2.8	2.3	2.0	1.7	1.5	1.4
	30	0.17	8.4	5.6	4.2	3.4	2.8	2.4	2.1	1.9	1.7
	40	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0
H1/4U-SS0003 TP0003-SS	10	0.15	7.4	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5
	20	0.21	10.4	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.26	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6
	40	0.30	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
H1/4U-SS0004 TP0004-SS	10	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0
	20	0.28	13.9	9.2	6.9	5.5	4.6	4.0	3.5	3.1	2.8
	30	0.35	17.3	11.6	8.7	6.9	5.8	5.0	4.3	3.9	3.5
	40	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0
H1/4U-SS0006 TP0006-SS	10	0.30	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	20	0.42	21	13.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
	30	0.52	26	17.2	12.9	10.3	8.6	7.4	6.4	5.7	5.1
	40	0.60	30	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
H1/4U-SS0008 TP0008-SS	10	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0
	20	0.57	28	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6
	30	0.69	34	23	17.1	13.7	11.4	9.8	8.5	7.6	6.8
	40	0.80	40	26	19.8	15.8	13.2	11.3	9.9	8.8	7.9
H1/4U-SS0010 TP0010-SS	10	0.50	25	16.5	12.4	9.9	8.3	7.1	6.2	5.5	5.0
	20	0.71	35	23	17.6	14.1	11.7	10.0	8.8	7.8	7.0
	30	0.87	43	29	22	17.2	14.4	12.3	10.8	9.6	8.6
	40	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9
H1/4U-SS0015 TP0015-SS	10	0.75	37	25	19	14.9	12.4	10.6	9.3	8.3	7.4
	20	1.06	52	35	26	21	17.5	15.0	13.1	11.7	10.5
	30	1.30	64	43	32	26	21	18.4	16.1	14.3	12.9
	40	1.50	74	50	37	30	25	21	18.6	16.5	14.9
H1/4U-SS0020 TP0020-SS	10	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9
	20	1.41	70	47	35	28	23	19.9	17.4	15.5	14.0
	30	1.73	86	57	43	34	29	24	21	19.0	17.1
	40	2.00	99	66	50	40	33	28	25	22	19.8
H1/4U-SS0030 TP0030-SS	10	1.50	74	50	37	30	25	21	18.6	16.5	14.9
	20	2.12	105	70	52	42	35	30	26	23	21
	30	2.60	129	86	64	51	43	37	32	29	26
	40	3.00	149	99	74	59	50	42	37	33	30
H1/4U-SS0040 TP0040-SS	10	2.00	99	66	50	40	33	28	25	22	20
	20	2.83	140	93	70	56	47	40	35	31	28
	30	3.46	171	114	86	69	57	49	43	38	34
	40	4.00	198	132	99	79	66	57	50	44	40
H1/4U-SS0050	10	2.50	124	83	62	50	41	35	31	28	25
	20	3.54	175	117	88	70	58	50	44	39	35
	30	4.33	214	143	107	86	71	61	54	48	43
	40	5.00	248	165	124	99	83	71	62	55	50
H1/4U-SS0060	10	3.00	149	99	74	59	50	42	37	33	30
	20	4.24	210	140	105	84	70	60	52	47	42
	30	5.20	257	172	129	103	86	74	64	57	51
	40	6.00	297	198	149	119	99	85	74	66	59

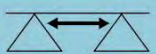
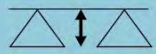




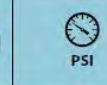
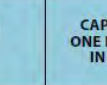
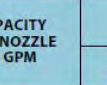
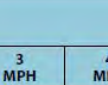
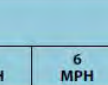
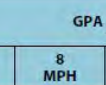
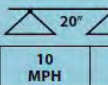
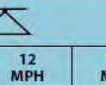
StreamJet 7-Hole Fertilizer Nozzles

- Excellent for application of liquid fertilizer
- Creates seven identical fluid streams of equal velocity and capacity
- Excellent spray distribution quality
- Removable metering orifice for easy cleaning
- Offered in a variety of sizes for a wide range of application rates
- VisiFlo® color-coding for easy capacity identification
- All acetal construction for excellent chemical resistance
- Recommended operating pressure: 20-60 PSI (1.5-4 bar)

Optimum Spray Height

	
20"	20"
30"	30"
40"	40"



	PSI	CAPACITY ONE NOZZLE IN GPM	GPA 										
			3 MPH	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
 SJ7-015-VP (100)	20	0.10	9.9	7.4	5.9	5.0	3.7	3.0	2.5	2.1	1.9	1.7	1.5
	30	0.12	11.9	8.9	7.1	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8
	40	0.15	14.9	11.1	8.9	7.4	5.6	4.5	3.7	3.2	2.8	2.5	2.2
	50	0.16	15.8	11.9	9.5	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4
 SJ7-02-VP (50)	60	0.18	17.8	13.4	10.7	8.9	6.7	5.3	4.5	3.8	3.3	3.0	2.7
	20	0.14	13.9	10.4	8.3	6.9	5.2	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.17	16.8	12.6	10.1	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
	40	0.20	19.8	14.9	11.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
 SJ7-03-VP (50)	50	0.23	23	17.1	13.7	11.4	8.5	6.8	5.7	4.9	4.3	3.8	3.4
	60	0.25	25	18.6	14.9	12.4	9.3	7.4	6.2	5.3	4.6	4.1	3.7
	20	0.22	22	16.3	13.1	10.9	8.2	6.5	5.4	4.7	4.1	3.6	3.3
	30	0.27	27	20	16.0	13.4	10.0	8.0	6.7	5.7	5.0	4.5	4.0
 SJ7-04-VP (50)	40	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	50	0.33	33	25	19.6	16.3	12.3	9.8	8.2	7.0	6.1	5.4	4.9
	60	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
	20	0.30	30	22	17.8	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5
 SJ7-05-VP (50)	30	0.35	35	26	21	17.3	13.0	10.4	8.7	7.4	6.5	5.8	5.2
	40	0.40	40	30	24	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	50	0.43	43	32	26	21	16.0	12.8	10.6	9.1	8.0	7.1	6.4
	60	0.46	46	34	27	23	17.1	13.7	11.4	9.8	8.5	7.6	6.8
 SJ7-06-VP (50)	20	0.38	38	28	23	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6
	30	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	40	0.50	50	37	30	25	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	50	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
 SJ7-08-VP	60	0.58	57	43	34	29	22	17.2	14.4	12.3	10.8	9.6	8.6
	20	0.45	45	33	27	22	16.7	13.4	11.1	9.5	8.4	7.4	6.7
	30	0.54	53	40	32	27	20	16.0	13.4	11.5	10.0	8.9	8.0
	40	0.60	59	45	36	30	22	17.8	14.9	12.7	11.1	9.9	8.9
 SJ7-10-VP	50	0.65	64	48	39	32	24	19.3	16.1	13.8	12.1	10.7	9.7
	60	0.70	69	52	42	35	26	21	17.3	14.9	13.0	11.6	10.4
	20	0.57	56	42	34	28	21	16.9	14.1	12.1	10.6	9.4	8.5
	30	0.72	71	53	43	36	27	21	17.8	15.3	13.4	11.9	10.7
 SJ7-15-VP	40	0.80	79	59	48	40	30	24	19.8	17.0	14.9	13.2	11.9
	50	0.87	86	65	52	43	32	26	22	18.5	16.1	14.4	12.9
	60	0.93	92	69	55	46	35	28	23	19.7	17.3	15.3	13.8
	20	0.71	70	53	42	35	26	21	17.6	15.1	13.2	11.7	10.5
 SJ7-15-VP	30	0.90	89	67	53	45	33	27	22	19.1	16.7	14.9	13.4
	40	1.00	99	74	59	50	37	30	25	21	18.6	16.5	14.9
	50	1.09	108	81	65	54	40	32	27	23	20	18.0	16.2
	60	1.16	115	86	69	57	43	34	29	25	22	19.1	17.2
	20	1.03	102	76	61	51	38	31	25	22	19.1	17.0	15.3
	30	1.29	128	96	77	64	48	38	32	27	24	21	19.2
	40	1.50	149	111	89	74	56	45	37	32	28	25	22
	50	1.64	162	122	97	81	61	49	41	35	30	27	24
	60	1.76	174	131	105	87	65	52	44	37	33	29	26

StreamJet 7-Hole Variable Rate Fertilizer Tips

The SJ7A-VR variable rate fertilizer spray tips feature a variable diameter orifice that produces a wide range of flow rates. This allows for a wider range of ground speeds and/or application rates from a single tip for improved productivity. These tips can also be used for variable rate prescription map applications. The elastomer metering orifice provides consistent flow rate performance while utilizing a simple, reliable design with no springs or moving parts.

- Produces seven identical fluid streams for excellent distributions in broadcast applications.
- Solid stream pattern minimizes leaf burn and virtually eliminates drift.
- Good wear life and chemical resistance due to acetal body and deflector plate construction.
- Reliable operation with a simple elastomer (EPDM) variable orifice.
- Recommended operating pressure: 30-80 PSI
- Intended for use with a flow meter based system only.
- Multiple capacities available for wider range of application rates.

WEIGHT OF SOLUTION	SPECIFIC GRAVITY	CONVERSION FACTOR
7.0 lbs./gal	0.84	0.92
8.0 lbs./gal	0.96	0.98
8.34 lbs./gal	1.00 - WATER	1.00
9.0 lbs./gal	1.08	1.04
10.0 lbs./gal	1.20	1.10
10.65 lbs./gal	1.28 - 28% NITROGEN	1.13
11.0 lbs./gal	1.32	1.15
12.0 lbs./gal	1.44	1.20
14.0 lbs./gal	1.68	1.30

*NOTE: Conversion factors must be used when spraying solutions heavier or lighter than water. First, multiply desired application rate by the appropriate conversion factor above. Then use the new application rate to select the most appropriate operating pressure from the application chart on this page.

	Nozzle	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GPA for 20" Spacing (water)									
				5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH
	SJ7A-VR-X0.5	30	0.16	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.0	2.6	2.4
		40	0.19	11.3	9.4	8.1	7.1	5.6	4.7	4.0	3.5	3.1	2.8
		50	0.22	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3
		60	0.26	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9
		70	0.30	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5
	SJ7A-VR-X1.0	80	0.35	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2
		30	0.28	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
		40	0.35	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2
		50	0.44	26	22	18.7	16.3	13.1	10.9	9.3	8.2	7.3	6.5
		60	0.55	33	27	23	20	16.3	13.6	11.7	10.2	9.1	8.2
	SJ7A-VR-X2.0	70	0.67	40	33	28	25	19.9	16.6	14.2	12.4	11.1	9.9
		80	0.80	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9
		30	0.70	42	35	30	26	21	17.3	14.9	13.0	11.6	10.4
		40	0.85	50	42	36	32	25	21	18.0	15.8	14.0	12.6
		50	1.00	59	50	42	37	30	25	21	18.6	16.5	14.9
		60	1.17	69	58	50	43	35	29	25	22	19.3	17.4
		70	1.35	80	67	57	50	40	33	29	25	22	20
		80	1.55	92	77	66	58	46	38	33	29	26	23

SPEED RANGE FOR VARIOUS APPLICATION RATES

Nozzle	Ground Speed Range (MPH) for 20" Spacing							
	5 GPA	10 GPA	15 GPA	20 GPA	25 GPA	30 GPA	35 GPA	40 GPA
SJ7A-VR-X0.5	9.5 - 21	4.8 - 10.4	3.2 - 6.9	2.4 - 5.2	1.9 - 4.2	1.6 - 3.5	1.4 - 3.0	1.2 - 2.6
SJ7A-VR-X1.0	17 - 48	8.3 - 24	5.5 - 16	4.2 - 12	3.3 - 9.5	2.8 - 7.9	2.4 - 6.8	2.1 - 5.9
SJ7A-VR-X2.0	-	21 - 46	14 - 31	10 - 23	8.3 - 18	6.9 - 15	5.9 - 13	5.2 - 12

OPTIMUM SPRAY HEIGHT *	
NOZZLE SPACING	SPRAY HEIGHT
20"	20"
30"	30"
40"	40"

* For best spray distribution maintain a 1:1 ratio of tip height to tip spacing.

FESI 6 Stream Fertilizer Nozzle



ALBUZ

- Recommended Boom Height is 20 inches from the target
- Minimum pressure: 15 PSI
- Pink ALBUZ® ceramic calibrated orifice (excellent precision and high wear resistance).
- ISO color coded and flow rated.
- Cap fitted with 7-10 degree offset from boom position.
- Orifices: 6 streams providing very coarse droplets, improving fertilizer distribution.



FLOW RATE CHART (gpm)

psi	BROWN 05	GREY 06	WHITE 08	LIGHT BLUE 010	LIGHT GREEN 015
15	0.315	0.378	0.505	0.631	0.946
20	0.361	0.433	0.578	0.722	1.083
30	0.437	0.524	0.699	0.874	1.310
35	0.470	0.564	0.751	0.939	1.409
40	0.5	0.6	0.8	1	1.5
50	0.528	0.666	0.888	1.111	1.666
60	0.605	0.726	0.968	1.21	1.815



15" Chafer Multi-Rate Stream Bar Chart

ORIFICE CODE	GALL/MIN WATER	PRESSURE P.S.I	GAL/MIN Liquid N	SPEED IN M.P.H							
				6	8	10	12	14	16	18	20
US GALLONS PER ACRE OF LIQUID NITROGEN											
1	0.30	20	0.27	17.6	13.2	10.6	8.8	7.5	6.6	5.9	5.3
	0.34	25	0.30	19.7	14.8	11.8	9.8	8.4	7.4	6.6	5.9
	0.37	30	0.33	21.5	16.2	12.9	10.8	9.2	8.1	7.2	6.5
	0.40	35	0.35	23.3	17.5	14.0	11.6	10.0	8.7	7.8	7.0
	0.43	40	0.38	24.9	18.7	14.9	12.4	10.7	9.3	8.3	7.5
	0.45	45	0.40	26.4	19.8	15.8	13.2	11.3	9.9	8.8	7.9
	0.48	50	0.42	27.8	20.9	16.7	13.9	11.9	10.4	9.3	8.3
0.50	55	0.44	29.2	21.9	17.5	14.6	12.5	10.9	9.7	8.8	
2	0.45	20	0.40	26.4	19.8	15.8	13.2	11.3	9.9	8.8	7.9
	0.48	25	0.42	28.0	21.0	16.8	14.0	12.0	10.5	9.3	8.4
	0.51	30	0.45	29.5	22.1	17.7	14.8	12.7	11.1	9.8	8.9
	0.53	35	0.47	31.0	23.2	18.6	15.5	13.3	11.6	10.3	9.3
	0.55	40	0.49	32.3	24.3	19.4	16.2	13.9	12.1	10.8	9.7
	0.58	45	0.51	33.7	25.2	20.2	16.8	14.4	12.6	11.2	10.1
	0.60	50	0.53	34.9	26.2	21.0	17.5	15.0	13.1	11.6	10.5
0.62	55	0.55	36.2	27.1	21.7	18.1	15.5	13.6	12.1	10.8	
3	0.65	20	0.57	37.8	28.4	22.7	18.9	16.2	14.2	12.6	11.3
	0.69	25	0.61	40.1	30.1	24.1	20.1	17.2	15.0	13.4	12.0
	0.72	30	0.64	42.3	31.7	25.4	21.1	18.1	15.9	14.1	12.7
	0.76	35	0.67	44.4	33.3	26.6	22.2	19.0	16.6	14.8	13.3
	0.79	40	0.70	46.3	34.7	27.8	23.2	19.9	17.4	15.4	13.9
	0.83	45	0.73	48.2	36.2	28.9	24.1	20.7	18.1	16.1	14.5
	0.86	50	0.76	50.0	37.5	30.0	25.0	21.4	18.8	16.7	15.0
0.89	55	0.78	51.8	38.8	31.1	25.9	22.2	19.4	17.3	15.5	
4	0.88	20	0.78	51.4	38.5	30.8	25.7	22.0	19.3	17.1	15.4
	0.93	25	0.83	54.5	40.9	32.7	27.3	23.4	20.4	18.2	16.4
	0.98	30	0.87	57.5	43.1	34.5	28.7	24.6	21.5	19.2	17.2
	1.03	35	0.91	60.3	45.2	36.2	30.1	25.8	22.6	20.1	18.1
	1.08	40	0.95	62.9	47.2	37.8	31.5	27.0	23.6	21.0	18.9
	1.12	45	0.99	65.5	49.1	39.3	32.8	28.1	24.6	21.8	19.7
	1.16	50	1.03	68.0	51.0	40.8	34.0	29.1	25.5	22.7	20.4
1.20	55	1.07	70.4	52.8	42.2	35.2	30.2	26.4	23.5	21.1	
5	1.11	20	0.98	65.0	48.7	39.0	32.5	27.8	24.4	21.7	19.5
	1.18	25	1.04	68.9	51.7	41.3	34.4	29.5	25.8	23.0	20.7
	1.24	30	1.10	72.6	54.5	43.6	36.3	31.1	27.2	24.2	21.8
	1.30	35	1.15	76.2	57.1	45.7	38.1	32.6	28.6	25.4	22.9
	1.36	40	1.21	79.6	59.7	47.7	39.8	34.1	29.8	26.5	23.9
	1.42	45	1.25	82.8	62.1	49.7	41.4	35.5	31.1	27.6	24.8
	1.47	50	1.30	85.9	64.4	51.6	43.0	36.8	32.2	28.6	25.8
1.52	55	1.35	88.9	66.7	53.4	44.5	38.1	33.4	29.6	26.7	
6	1.86	20	1.64	108.5	81.4	65.1	54.3	46.5	40.7	36.2	32.6
	1.97	25	1.74	115.1	86.3	69.1	57.5	49.3	43.2	38.4	34.5
	2.08	30	1.84	121.3	91.0	72.8	60.7	52.0	45.5	40.4	36.4
	2.18	35	1.93	127.2	95.4	76.3	63.6	54.5	47.7	42.4	38.2
	2.28	40	2.01	132.9	99.7	79.7	66.4	57.0	49.8	44.3	39.9
	2.37	45	2.10	138.3	103.7	83.0	69.2	59.3	51.9	46.1	41.5
	2.46	50	2.17	143.5	107.7	86.1	71.8	61.5	53.8	47.8	43.1
2.54	55	2.25	148.6	111.4	89.1	74.3	63.7	55.7	49.5	44.6	

CHARTS BASED ON FERTILIZER WITH 1.28 S.G. * FLOW RATE OF FERTILIZER IS AS A GUIDE ONLY AND COMPENSATION MAY NEED TO BE MADE TO RATE CONTROLLERS TO ACHIEVE EXACT RATES



20" Needham Ag Streambar

- Designed to evenly apply liquid fertilizers such as 28%, 30%, or 32% nitrogen to wheat and other crops
- Creates four identical fluid streams of equal distance, velocity, and capacity
- Excellent for no-till
- Produce vertical streams of fertilizer with no overlap, so product application is unaffected by boom height
- Minimal leaf scorch due to minimized stream contact with the crop
- Available for 15" (008515) and 20" (008520) spacing
- Adaptable for different product rates by using the sliding orifice selector



008520

20" STREAMBAR MR APPLICATION CHART

ORIFICE CODE	GALL/MIN WATER	PRESSURE P.S.I	GAL/MIN FERT	SPEED IN M.P.H							
				6	8	10	12	14	16	18	20
				GALLONS				PER ACRE			
1	0.26	15	0.23	11.4	8.6	6.9	5.7	4.9	4.3	3.8	3.4
	0.30	20	0.27	13.2	9.9	7.9	6.6	5.7	4.9	4.4	4.0
	0.34	25	0.30	14.8	11.1	8.9	7.4	6.3	5.5	4.9	4.4
	0.37	30	0.33	16.2	12.1	9.7	8.1	6.9	6.1	5.4	4.8
	0.40	35	0.35	17.5	13.1	10.5	8.7	7.5	6.5	5.8	5.2
	0.43	40	0.38	18.7	14.0	11.2	9.3	8.0	7.0	6.2	5.6
	0.45	45	0.40	19.8	14.8	11.9	9.9	8.5	7.4	6.6	5.9
	0.48	50	0.42	20.9	15.6	12.5	10.4	8.9	7.8	7.0	6.3
0.50	55	0.44	21.9	16.4	13.1	10.9	9.4	8.2	7.3	6.6	
2	0.42	15	0.37	18.5	13.9	11.1	9.3	7.9	6.9	6.2	5.6
	0.45	20	0.40	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	0.48	25	0.42	21.0	15.8	12.6	10.5	9.0	7.9	7.0	6.3
	0.51	30	0.45	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6
	0.53	35	0.47	23.2	17.4	13.9	11.6	10.0	8.7	7.7	7.0
	0.55	40	0.49	24.3	18.2	14.6	12.1	10.4	9.1	8.1	7.3
	0.58	45	0.51	25.2	18.9	15.1	12.6	10.8	9.5	8.4	7.6
	0.60	50	0.53	26.2	19.7	15.7	13.1	11.2	9.8	8.7	7.9
0.62	55	0.55	27.1	20.3	16.3	13.6	11.6	10.2	9.0	8.1	
3	0.61	15	0.54	26.5	19.9	15.9	13.3	11.4	10.0	8.8	8.0
	0.65	20	0.57	28.4	21.3	17.0	14.2	12.2	10.6	9.5	8.5
	0.69	25	0.61	30.1	22.6	18.1	15.0	12.9	11.3	10.0	9.0
	0.72	30	0.64	31.7	23.8	19.0	15.9	13.6	11.9	10.6	9.5
	0.76	35	0.67	33.3	25.0	20.0	16.6	14.3	12.5	11.1	10.0
	0.79	40	0.70	34.7	26.1	20.8	17.4	14.9	13.0	11.6	10.4
	0.83	45	0.73	36.2	27.1	21.7	18.1	15.5	13.6	12.1	10.9
	0.86	50	0.76	37.5	28.1	22.5	18.8	16.1	14.1	12.5	11.3
0.89	55	0.78	38.8	29.1	23.3	19.4	16.6	14.6	12.9	11.7	
4	0.82	15	0.73	36.1	27.0	21.6	18.0	15.5	13.5	12.0	10.8
	0.88	20	0.78	38.5	28.9	23.1	19.3	16.5	14.5	12.8	11.6
	0.93	25	0.83	40.9	30.7	24.5	20.4	17.5	15.3	13.6	12.3
	0.98	30	0.87	43.1	32.3	25.9	21.5	18.5	16.2	14.4	12.9
	1.03	35	0.91	45.2	33.9	27.1	22.6	19.4	17.0	15.1	13.6
	1.08	40	0.95	47.2	35.4	28.3	23.6	20.2	17.7	15.7	14.2
	1.12	45	0.99	49.1	36.9	29.5	24.6	21.1	18.4	16.4	14.7
	1.16	50	1.03	51.0	38.2	30.6	25.5	21.9	19.1	17.0	15.3
1.20	55	1.07	52.8	39.6	31.7	26.4	22.6	19.8	17.6	15.8	
5	1.04	15	0.92	45.6	34.2	27.3	22.8	19.5	17.1	15.2	13.7
	1.11	20	0.98	48.7	36.5	29.2	24.4	20.9	18.3	16.2	14.6
	1.18	25	1.04	51.7	38.8	31.0	25.8	22.1	19.4	17.2	15.5
	1.24	30	1.10	54.5	40.9	32.7	27.2	23.3	20.4	18.2	16.3
	1.30	35	1.15	57.1	42.8	34.3	28.6	24.5	21.4	19.0	17.1
	1.36	40	1.21	59.7	44.8	35.8	29.8	25.6	22.4	19.9	17.9
	1.42	45	1.25	62.1	46.6	37.3	31.1	26.6	23.3	20.7	18.6
	1.47	50	1.30	64.4	48.3	38.7	32.2	27.6	24.2	21.5	19.3
1.52	55	1.35	66.7	50.0	40.0	33.4	28.6	25.0	22.2	20.0	
6	1.74	15	1.54	76.1	57.1	45.7	38.1	32.6	28.5	25.4	22.8
	1.86	20	1.64	81.4	61.0	48.8	40.7	34.9	30.5	27.1	24.4
	1.97	25	1.74	86.3	64.7	51.8	43.2	37.0	32.4	28.8	25.9
	2.08	30	1.84	91.0	68.2	54.6	45.5	39.0	34.1	30.3	27.3
	2.18	35	1.93	95.4	71.6	57.3	47.7	40.9	35.8	31.8	28.6
	2.28	40	2.01	99.7	74.8	59.8	49.8	42.7	37.4	33.2	29.9
	2.37	45	2.10	103.7	77.8	62.2	51.9	44.5	38.9	34.6	31.1
	2.46	50	2.17	107.7	80.7	64.6	53.8	46.1	40.4	35.9	32.3
2.54	55	2.25	111.4	83.6	66.9	55.7	47.8	41.8	37.1	33.4	

CHARTS BASED ON FERTILISER WITH 1.28 SG * FLOW RATE OF FERTILISER IS AS A GUIDE ONLY AND COMPENSATION MAY NEED TO BE MADE TO RATE CONTROLLERS TO ACHIEVE EXACT RATES





Orifices

CP1322
1/4TT Body5053
StrainerCP4916
Orifice
PlateCP4928
Adapter
3/4" NPT (F)
OutletCP1325
Cap

Strainer Size Recommendation

FOR ORIFICE SIZE	USE MESH SIZE
15 and smaller	200
16-39	100
40-70	50
72 and larger	—

To determine the orifice plates you need, use the following equations:

$$\text{GPM (Per Nozzle)} = \frac{\text{GPA} \times \text{MPH} \times \text{W}}{5,940}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (Per Nozzle)}}{\text{MPH} \times \text{W}}$$

W = Nozzle spacing (in inches) for broadcast spraying.

= Spray width (in inches) for single nozzle, band spraying or boomless spraying.

= Row spacing (in inches) divided by the number of nozzles per row for directed spraying.

Spraying Liquids with a Density Other Than Water

Since all the tabulations in this catalog are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying liquids that are heavier or lighter than water. To determine the proper size nozzle for the liquid to be sprayed, first multiply the desired GPM or GPA of liquid by the water rate conversion factor. Then use the new converted GPM or GPA rate to select the proper size nozzle.

Example:

Desired application rate is 20 GPA of 28%N. Determine the correct nozzle size as follows:

GPA (liquid other than water) x
Conversion Factor
= GPA (from table in catalog)

20 GPA (28%) x 1.13
= 22.6 GPA (water)

The applicator should choose a nozzle size that will supply 22.6 GPA of water at the desired pressure.

WEIGHT OF SOLUTION	SPECIFIC GRAVITY	CONVERSION FACTOR
7.0 lbs./gal.	.84	.92
8.0 lbs./gal.	.96	.98
8.34 lbs./gal.	1.00 - WATER	1.00
9.0 lbs./gal.	1.08	1.04
10.0 lbs./gal.	1.20	1.10
10.65 lbs./gal.	1.28 - 28% nitrogen	1.13
11.0 lbs./gal.	1.32	1.15
12.0 lbs./gal.	1.44	1.20
14.0 lbs./gal.	1.68	1.30

	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-008	0.003	0.004	0.006	0.007	0.008	0.009	0.010
CP4916-10	0.005	0.007	0.009	0.011	0.013	0.015	0.016
CP4916-12	0.007	0.010	0.013	0.016	0.019	0.021	0.023
CP4916-14	0.009	0.013	0.018	0.022	0.025	0.028	0.031
CP4916-15	0.010	0.015	0.021	0.025	0.029	0.032	0.036
CP4916-16	0.012	0.017	0.023	0.029	0.033	0.037	0.040
CP4916-18	0.015	0.021	0.030	0.036	0.042	0.047	0.051
CP4916-20	0.018	0.026	0.037	0.045	0.052	0.058	0.064
CP4916-22	0.022	0.031	0.043	0.053	0.061	0.068	0.075
CP4916-24	0.026	0.037	0.052	0.064	0.074	0.083	0.091
CP4916-25	0.028	0.040	0.056	0.068	0.079	0.088	0.097
CP4916-26	0.030	0.043	0.061	0.074	0.086	0.096	0.105
CP4916-27	0.032	0.046	0.064	0.079	0.091	0.102	0.111
CP4916-28	0.035	0.049	0.069	0.085	0.098	0.110	0.120
CP4916-29	0.038	0.054	0.076	0.094	0.108	0.121	0.132
CP4916-30	0.040	0.057	0.081	0.099	0.114	0.127	0.140
CP4916-31	0.043	0.062	0.087	0.107	0.123	0.138	0.151
CP4916-32	0.048	0.068	0.095	0.117	0.135	0.151	0.165
CP4916-34	0.052	0.074	0.104	0.127	0.147	0.164	0.180
CP4916-35	0.056	0.079	0.111	0.136	0.157	0.176	0.192
CP4916-37	0.061	0.086	0.122	0.149	0.172	0.192	0.211
CP4916-39	0.068	0.096	0.135	0.165	0.191	0.214	0.234
CP4916-40	0.072	0.102	0.144	0.177	0.204	0.228	0.250
CP4916-41	0.075	0.106	0.149	0.183	0.211	0.236	0.258
CP4916-43	0.082	0.116	0.163	0.200	0.231	0.258	0.283
CP4916-45	0.088	0.125	0.177	0.217	0.250	0.280	0.306
CP4916-46	0.095	0.135	0.191	0.234	0.270	0.302	0.331

	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-47	0.097	0.138	0.194	0.238	0.275	0.307	0.337
CP4916-48	0.101	0.143	0.202	0.248	0.286	0.320	0.350
CP4916-49	0.104	0.148	0.209	0.255	0.295	0.330	0.361
CP4916-51	0.116	0.165	0.233	0.285	0.329	0.368	0.403
CP4916-52	0.118	0.168	0.237	0.290	0.335	0.375	0.410
CP4916-54	0.127	0.180	0.255	0.312	0.360	0.402	0.441
CP4916-55	0.133	0.189	0.267	0.326	0.377	0.421	0.462
CP4916-57	0.141	0.200	0.283	0.346	0.400	0.447	0.490
CP4916-59	0.153	0.217	0.306	0.375	0.433	0.484	0.530
CP4916-61	0.165	0.233	0.330	0.404	0.466	0.521	0.571
CP4916-63	0.174	0.246	0.347	0.425	0.491	0.549	0.601
CP4916-65	0.185	0.261	0.369	0.452	0.522	0.584	0.639
CP4916-67	0.196	0.278	0.392	0.481	0.555	0.621	0.680
CP4916-68	0.203	0.287	0.405	0.496	0.573	0.641	0.702
CP4916-70	0.216	0.306	0.433	0.530	0.612	0.684	0.750
CP4916-72	0.226	0.320	0.453	0.554	0.640	0.716	0.784
CP4916-73	0.233	0.330	0.467	0.572	0.660	0.738	0.808
CP4916-75	0.245	0.347	0.491	0.601	0.694	0.776	0.850
CP4916-78	0.272	0.385	0.544	0.667	0.770	0.861	0.943
CP4916-80	0.280	0.397	0.561	0.687	0.793	0.887	0.971
CP4916-81	0.290	0.411	0.581	0.711	0.821	0.918	1.01
CP4916-83	0.317	0.449	0.634	0.777	0.897	1.00	1.10
CP4916-86	0.332	0.470	0.664	0.813	0.939	1.05	1.15
CP4916-89	0.346	0.490	0.693	0.849	0.980	1.10	1.20
CP4916-91	0.369	0.523	0.739	0.905	1.05	1.17	1.28
CP4916-93	0.387	0.547	0.774	0.947	1.09	1.22	1.34
CP4916-95	0.404	0.572	0.808	0.990	1.14	1.28	1.40

	GPM						
	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
CP4916-98	0.442	0.625	0.884	1.08	1.25	1.40	1.53
CP4916-103	0.461	0.653	0.923	1.13	1.31	1.46	1.60
CP4916-107	0.518	0.733	1.04	1.27	1.47	1.64	1.79
CP4916-110	0.548	0.775	1.10	1.34	1.55	1.73	1.90
CP4916-115	0.605	0.855	1.21	1.48	1.71	1.91	2.09
CP4916-120	0.629	0.890	1.26	1.54	1.78	1.99	2.18
CP4916-125	0.693	0.980	1.39	1.70	1.96	2.19	2.40
CP4916-128	0.721	1.02	1.44	1.77	2.04	2.28	2.50
CP4916-132	0.774	1.10	1.55	1.90	2.19	2.45	2.68
CP4916-136	0.840	1.19	1.68	2.06	2.38	2.66	2.91
CP4916-140	0.894	1.27	1.79	2.19	2.53	2.83	3.10
CP4916-144	0.926	1.31	1.85	2.27	2.62	2.93	3.21
CP4916-147	0.953	1.35	1.91	2.33	2.70	3.01	3.30
CP4916-151	1.04	1.47	2.08	2.55	2.94	3.29	3.60
CP4916-156	1.10	1.55	2.20	2.69	3.11	3.47	3.80
CP4916-161	1.15	1.63	2.31	2.83	3.27	3.65	4.00
CP4916-166	1.21	1.72	2.43	2.97	3.43	3.84	4.20
CP4916-170	1.30	1.84	2.61	3.19	3.69	4.12	4.51
CP4916-172	1.36	1.92	2.71	3.32	3.84	4.29	4.70
CP4916-177	1.41	2.00	2.83	3.46	4.00	4.47	4.90
CP4916-182	1.47	2.08	2.95	3.61	4.17	4.66	5.10
CP4916-187	1.56	2.21	3.12	3.82	4.41	4.93	5.40
CP4916-196	1.73	2.45	3.46	4.24	4.90	5.47	6.00
CP4916-205	1.88	2.65	3.75	4.59	5.31	5.93	6.50
CP4916-218	2.11	2.98	4.21	5.16	5.96	6.66	7.30
CP4916-234	2.45	3.47	4.91	6.01	6.94	7.76	8.50
CP4916-250	2.83	4.00	5.66	6.93	8.00	8.94	9.80



Turbo FloodJet Spray Tips

		PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM	CAPACITY ONE NOZZLE IN OZ./MIN.	40°								20°			
						GPA								GALLONS PER 1000 SQ. FT.			
						4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH
TF-12 (50)	10	UC	0.20	26	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.68	0.45	0.34	0.27	
	20	XC	0.28	36	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.95	0.63	0.48	0.38	
	30	XC	0.35	45	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48	
	40	VC	0.40	51	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	1.4	0.91	0.68	0.54	
TF-12.5 (50)	10	UC	0.25	32	9.3	7.4	6.2	4.6	3.7	3.1	2.5	1.9	0.85	0.57	0.43	0.34	
	20	UC	0.35	45	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6	1.2	0.79	0.60	0.48	
	30	XC	0.43	55	16.0	12.8	10.6	8.0	6.4	5.3	4.3	3.2	1.5	0.97	0.73	0.58	
	40	XC	0.50	64	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	1.7	1.1	0.85	0.68	
TF-13 (50)	10	UC	0.30	38	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	1.0	0.68	0.51	0.41	
	20	UC	0.42	54	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	1.4	0.95	0.71	0.57	
	30	XC	0.52	67	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	1.8	1.2	0.88	0.71	
	40	XC	0.60	77	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5	2.0	1.4	1.0	0.82	
TF-14 (50)	10	UC	0.40	51	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	1.4	0.91	0.68	0.54	
	20	UC	0.57	73	21	16.9	14.1	10.6	8.5	7.1	5.6	4.2	1.9	1.3	0.97	0.78	
	30	XC	0.69	88	26	20	17.1	12.8	10.2	8.5	6.8	5.1	2.3	1.6	1.2	0.94	
	40	XC	0.80	102	30	24	19.8	14.9	11.9	9.9	7.9	5.9	2.7	1.8	1.4	1.1	
TF-15	10	UC	0.50	64	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	1.7	1.1	0.85	0.68	
	20	UC	0.71	91	26	21	17.6	13.2	10.5	8.8	7.0	5.3	2.4	1.6	1.2	0.97	
	30	UC	0.87	111	32	26	22	16.1	12.9	10.8	8.6	6.5	3.0	2.0	1.5	1.2	
	40	XC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4	
TF-17.5	10	UC	0.75	96	28	22	18.6	13.9	11.1	9.3	7.4	5.6	2.6	1.7	1.3	1.0	
	20	UC	1.06	136	39	31	26	19.7	15.7	13.1	10.5	7.9	3.6	2.4	1.8	1.4	
	30	UC	1.30	166	48	39	32	24	19.3	16.1	12.9	9.7	4.4	2.9	2.2	1.8	
	40	XC	1.50	192	56	45	37	28	22	18.6	14.9	11.1	5.1	3.4	2.6	2.0	
TF-110	10	UC	1.00	128	37	30	25	18.6	14.9	12.4	9.9	7.4	3.4	2.3	1.7	1.4	
	20	UC	1.41	180	52	42	35	26	21	17.4	14.0	10.5	4.8	3.2	2.4	1.9	
	30	UC	1.73	221	64	51	43	32	26	21	17.1	12.8	5.9	3.9	2.9	2.4	
	40	XC	2.00	256	74	59	50	37	30	25	19.8	14.9	6.8	4.5	3.4	2.7	



- Excellent spray distribution for uniform coverage along the boom
- Nozzle design incorporates a pre-orifice to produce larger droplets for less drift
- Large, round orifice reduces clogging
- VisiFlo color-coding band for easy size identification
- Can be used with 25600*-NYR Quick TeeJet cap and gasket for automatic alignment

How to Order:

Specify tip number

Examples:

TF-VS4 - Stainless Steel with VisiFlo Color-Coding

TF-VP4 - Polymer with VisiFlo Color-Coding

FloodJet Spray Tips



*More options and sizes available

	PSI	CAPACITY ONE NOZZLE IN GPM	40°							
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH
TK-2 (50)	10	0.20	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5
	20	0.28	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1
	30	0.35	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6
	40	0.40	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0
TK-2.5 (50)	10	0.25	9.3	7.4	6.2	4.6	3.7	3.1	2.5	1.9
	20	0.35	13.0	10.4	8.7	6.5	5.2	4.3	3.5	2.6
	30	0.43	16.0	12.8	10.6	8.0	6.4	5.3	4.3	3.2
	40	0.50	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7
TK, TKT-3 (50)	10	0.30	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2
	20	0.42	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1
	30	0.52	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9
	40	0.60	22	17.8	14.9	11.1	8.9	7.4	5.9	4.5
TK-4 (50)	10	0.40	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0
	20	0.57	21	16.9	14.1	10.6	8.5	7.1	5.6	4.2
	30	0.69	26	20	17.1	12.8	10.2	8.5	6.8	5.1
	40	0.80	30	24	19.8	14.9	11.9	9.9	7.9	5.9
TK, TKT-5 (50)	10	0.50	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7
	20	0.71	26	21	17.6	13.2	10.5	8.8	7.0	5.3
	30	0.87	32	26	22	16.1	12.9	10.8	8.6	6.5
	40	1.00	37	30	25	18.6	14.9	12.4	9.9	7.4
TK-7.5 (50)	10	0.75	28	22	18.6	13.9	11.1	9.3	7.4	5.6
	20	1.06	39	31	26	19.7	15.7	13.1	10.5	7.9
	30	1.30	48	39	32	24	19.3	16.1	12.9	9.7
	40	1.50	56	45	37	28	22	18.6	14.9	11.1
TK-10 (50)	10	1.00	37	30	25	18.6	14.9	12.4	9.9	7.4
	20	1.41	52	42	35	26	21	17.4	14.0	10.5
	30	1.73	64	51	43	32	26	21	17.1	12.8
	40	2.00	74	59	50	37	30	25	19.8	14.9



Hypro Boom X Tender XT

Best used for the following types of spraying:

- Fence rows
- Ditches
- Boomless

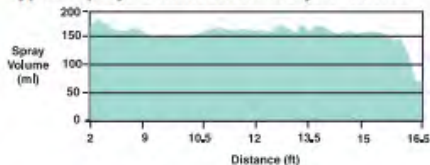


Features	
Common Use	Weeds
Pattern	Boomless Fan
Technology	Pre-Drifice
Material	Stainless or Polyacetal
Spray Angle	105°
Pressure Range	30-60 PSI (2-5 bar)
Configuration	MNPT & FastCap

BROADCAST and TURF Applications				Application Rate (GPA) at MPH								US Gal/1000 sq. ft. at MPH				Overall Swath (ft) @ 40PSI
Thread*	XT model	PSI	US GPM	4	5	6	7	8	10	12	14	2	3	4	5	
1/4" MNPT	XT010 FC-XT010	30	0.9	8.6	6.9	5.7	4.3	3.4	2.9	2.3	1.7	0.39	0.26	0.20	0.16	13
		40	1.0	9.5	7.6	6.3	4.8	3.8	3.2	2.5	1.9	0.44	0.29	0.22	0.17	
		50	1.1	10.5	8.4	7.0	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	
		60	1.2	11.4	9.1	7.6	5.7	4.6	3.8	3.0	2.3	0.52	0.35	0.26	0.21	
1/4" MNPT	XT020 FC-XT020	30	1.7	14.0	11.2	9.4	7.0	5.6	4.7	3.7	2.8	0.64	0.43	0.32	0.26	15
		40	2.0	16.5	13.2	11.0	8.3	6.6	5.5	4.4	3.3	0.76	0.51	0.38	0.30	
		50	2.2	18.2	14.5	12.1	9.1	7.3	6.1	4.8	3.6	0.83	0.56	0.42	0.33	
		60	2.4	19.8	15.8	13.2	9.9	7.9	6.6	5.3	4.0	0.91	0.61	0.45	0.36	
1/4" MNPT	XT024 FC-XT024	30	2.1	16.2	13.0	10.8	8.1	6.5	5.4	4.3	3.2	0.75	0.50	0.37	0.30	16
		40	2.4	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.86	0.57	0.43	0.34	
		50	2.7	20.9	16.7	13.9	10.4	8.4	7.0	5.6	4.2	0.96	0.64	0.48	0.38	
		60	2.9	22.4	17.9	15.0	11.2	9.0	7.5	6.0	4.5	1.03	0.69	0.51	0.41	
3/8" MNPT	XT043 FC-XT043	30	3.7	32.7	26.2	21.8	16.4	13.1	10.9	8.7	6.5	1.50	1.00	0.75	0.60	14
		40	4.3	38.0	30.4	25.3	19.0	15.2	12.7	10.1	7.6	1.75	1.16	0.87	0.70	
		50	4.8	42.4	33.9	28.3	21.2	17.0	14.1	11.3	8.5	1.95	1.30	0.97	0.78	
		60	5.3	46.8	37.5	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.08	0.86	
1/2" MNPT	XT080	30	6.9	65.7	52.5	43.8	32.8	26.3	21.9	17.5	13.1	3.02	2.01	1.51	1.21	13
		40	8.0	76.2	60.9	50.8	38.1	30.5	25.4	20.3	15.2	3.50	2.33	1.75	1.40	
		50	8.9	84.7	67.8	56.5	42.4	33.9	28.2	22.6	16.9	3.89	2.59	1.94	1.56	
		60	9.8	93.3	74.6	62.2	46.6	37.3	31.1	24.9	18.7	4.28	2.86	2.14	1.71	
3/4" MNPT	XT167	30	14.5	119.6	95.7	79.8	59.8	47.9	39.9	31.9	23.9	5.49	3.66	2.75	2.20	15
		40	16.7	138	110.2	91.9	68.9	55.1	45.9	36.7	27.6	6.33	4.22	3.16	2.53	
		50	18.7	154	123	102.9	77.1	61.7	51.4	41.1	30.9	7.08	4.72	3.54	2.83	
		60	20.5	169	135	112.8	84.6	67.7	56.4	45.1	33.8	7.77	5.18	3.88	3.11	
3/4" MNPT	XT215	30	18.6	144	115.1	95.9	71.9	57.5	48.0	38.4	28.8	6.61	4.40	3.30	2.64	16
		40	21.5	166	133	110.9	83.1	66.5	55.4	44.3	33.3	7.63	5.09	3.82	3.05	
		50	24.0	186	149	123.8	92.8	74.3	61.9	49.5	37.1	8.52	5.68	4.26	3.41	
		60	26.3	203	163	136	101.7	81.4	67.8	54.2	40.7	9.34	6.23	4.67	3.74	

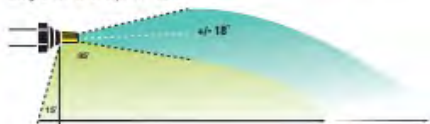
Note: Application rates are based on overall swath widths listed at 48" height. Refer to operating instructions if using a different swath. *Thread sizes applicable to standard models with threaded stainless steel body only.

Typical Spray Pattern Produced by XT Series

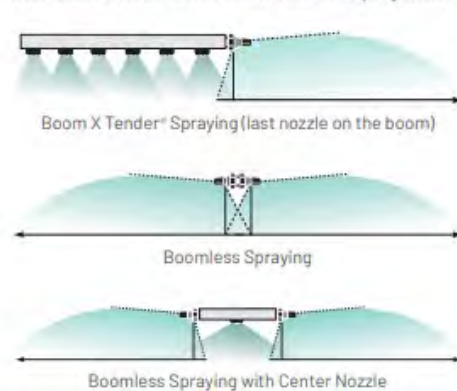


Adjustable Swath Width

Swath width can be increased or decreased by adjusting the angle of the tip +/- 18°.



Common Uses of the Boom X Tender® Spray Nozzles



Boominator Boomless Spray Nozzles

BOOMINATOR® Boomless Spray Nozzles produce a very even large droplet pattern for minimal drift and better penetration. They can easily spray around obstacles and over rough terrain while eliminating the cost of spray booms and boom maintenance. They have a superior wear and chemical resistance, designed to save time and money.

BOOMINATOR® Boomless Spray Nozzles can be used in a variety of applications:

- ATV sprayers
- De-icing on roads, bridges, sidewalks, runways, and parking lots
- Pull behind sprayers
- Spraying fence lines
- Lawn, turf, and nurse applications
- Grass fire fighting
- Ponds, lakes, canals for aquatic pest and weed control
- Insect control
- Disinfecting and disease control in livestock and poultry barns
- Pasture spraying
- Roadside spraying
- Forestry spraying
- Ride on sprayers

Nozzle

UB1160L

UB1160R

UB1165L

UB1165R

UB1250L

UB1250R

UB1400L

UB1400R

UB1870L

1160 RIGHT or LEFT	(1/4" MNPT)			SPEED (MPH)						
	PSI	GPM	PATTERN	2	3	4	5	6	7	
	GALLONS PER ACRE									
	20	1.0	16 ft.	15.5	10	8	6	5	4.5	
1165 RIGHT or LEFT	PSI	GPM	PATTERN	2	3	4	5	6	7	8
	GALLONS PER ACRE									
	20	1	5 ft.	49.5	33	24.5	20	16.5	14	12
	30	1.2	5 ft.	59.5	39.5	30	23.5	20	17	15
1250 RIGHT or LEFT	PSI	GPM	PATTERN	1	2	3	4	5	6	7
	GALLONS PER ACRE									
	20	1.5	16 ft.	46	23	16	12	9	8	7
	30	1.7	16 ft.	53	26	18	13	11	9	8
1400 RIGHT or LEFT	PSI	GPM	PATTERN	2	3	4	5	6	7	8
	GALLONS PER ACRE									
	20	1.7	17 ft.	25	17	12	10	8	7	6
	30	2.0	17 ft.	30	19	15	12	10	8	7
1870 RIGHT or LEFT	PSI	GPM	PATTERN	2	3	4	5	6	7	8
	GALLONS PER ACRE									
	20	3.0	18 ft.	41	28	21	17	14	12	10
	30	3.5	18 ft.	48	32	24	19	16	14	12

