


PWM SPRAY TIPS

SPRAY TIP	CAPACITIES	PRESSURE RANGE	QUICK TEEJET [®] CAP	HOW TO ORDER
 TURBO TEEJET[®] INDUCTION	015-15 (10 SIZES)	15-100 PSI 1-7 BAR	114443A-*CELR (015-06) 114502A-*CELR (08-15)	Example: TTI11004-VP – Polymer tip with VisiFlo [®] color-coding TTI11003-VP-CE – Polymer tip with VisiFlo color-coding, includes Quick TeeJet cap and gasket
 TTI TWINJET[®]	02-08 (7 SIZES)	20-100 PSI 1.5-7 BAR	—	Example: TTI60-11004VP – Polymer tip with VisiFlo [®] color-coding, includes Quick TeeJet cap and gasket
 AIR INDUCTION TURBO TWINJET[®]	02-15 (9 SIZES)	20-90 PSI 1.5-6 BAR	114443A-*CELR (02-06) 114502A-*CELR (08-15)	Example: AITTJ60-11004VP – Polymer tip with VisiFlo [®] color-coding AITTJ60-11004VP-CE – Polymer tip with VisiFlo color-coding, includes Quick TeeJet cap and gasket
 TURBO TWINJET[®]	02-10 (8 SIZES)	20-90 PSI 1.5-6 BAR	114441A-*CELR	Example: TTJ60-11004VP – Polymer tip with VisiFlo [®] color-coding TTJ60-11003VP-CE – Polymer tip with VisiFlo color-coding, includes Quick TeeJet cap and gasket
 TURBO TEEJET[®]	01-12 (11 SIZES)	15-90 PSI 1-6 BAR	114441A-*CELR (01-08) 114502A-*CELR (10 & 12)	Example: TT11001-VP – Polymer tip with VisiFlo [®] color-coding TT11002-VP-CE – Polymer tip with VisiFlo color-coding, includes Quick TeeJet cap and gasket
 XRC TEEJET[®]	015-20 (11 SIZES)	15-60 PSI 1-4 BAR	—	Example: XRC11004-VS – Stainless Steel tip with VisiFlo [®] color-coding XRC11004-VP – Polymer tip with VisiFlo color-coding XRC11004-VK – Ceramic tip with VisiFlo color-coding
 XR TEEJET[®]	01-15 (12 SIZES)	15-60 PSI 1-4 BAR	114441A-*CELR 25610-*NYR (10 & 15)	Example: XR11004VS – Stainless Steel tip with VisiFlo [®] color-coding XR11004-VP – Polymer tip with VisiFlo color-coding XR11004-VK – Ceramic tip with polypropylene VisiFlo color coding XR11010SS – Stainless Steel tip
 TWINJET[®]	01-10 (8 SIZES)	30-60 PSI 2-4 BAR	114443A-*CELR	Example: TJ60-11002VS – Stainless Steel tip with VisiFlo [®] color-coding

PWM SPRAY TIP SELECTION

YOUR BEST OPTIONS FOR PULSE WIDTH MODULATION
SPRAY TIP CONTROL SYSTEMS



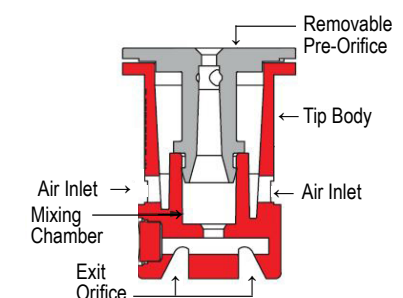
PWM spray tip control systems, like DynaJet[®], use a PWM (pulse width modulation) valve located at the nozzle body to adjust spray tip flow rate when changes in speed are detected. Spray tips that are paired with PWM controls are serving two main purposes - the formation of the spray pattern and droplet size. Target droplet size selection should be based on providing sufficient coverage for proper pest control while balancing out needs for drift management.

With air induction tips air is mixed with water through a venturi air aspirator that produces large air-filled droplets. When a PWM valve is used in conjunction with certain air induction tips, the mixing chamber and air inlet can fill with water as the PWM valve cycles. This can then result in water escaping out the air inlet holes, which can lead to poor distribution. New designs in air-induction tips however, have been proven to work well with PWM valves and nozzle control systems.

AITTJ60 SPRAY TIP



AITTJ60 SPRAY TIP
CROSS-SECTION VIEW



WHAT MAKES A TEEJET SPRAY TIP “PWM APPROVED”?

Based on a combination of field and laboratory testing, PWM approved spray tips must meet the following criteria at a variety of duty-cycles:

- Excellent spray distribution in the direction of travel
- Rapid and complete spray pattern formation
- Excellent spray distribution across the boom
- Skip-free application
- Droplet size consistency

Note: Only spray tips producing 110° or greater spray angles should be used with PWM control systems.

DYNAJET® FLEX 7140 APPLICATION CHART

HOW TO USE THIS CHART:

- Select target application rate - 350 l/ha
- Select your maximum ground speed - 10 km/h (keep in mind your typical operating speeds)
- Choose a tip and pressure that produce the desired droplet size category or categories - UC & XC

* Droplet size specifications shown are in accordance with ISO 25358

TIP SIZE	Gauge Pressure BAR	Tip Pressure BAR	30% Minimum Duty Cycle								SPEED RANGE (km/h)																					
			TJ60	XR/XRC	TT	TTJ60	ARTTJ60	TTT60	TTT	50 l/ha		100 l/ha		150 l/ha		200 l/ha		250 l/ha		300 l/ha		350 l/ha		400 l/ha		500 l/ha						
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max				
11004	1.5	1.4	-	M	VC	VC	XC	UC	UC	7.8	52	3.9	26	2.6	17.3	1.9	13.0	1.6	10.4	1.3	8.6	1.1	7.4	1.0	6.5	0.8	5.2					
	11005	1.5	1.3	-	M	VC	VC	XC	UC	UC	9.5	63	4.8	32	3.2	21	2.4	15.8	1.9	12.7	1.6	10.6	1.4	9.1	1.2	7.9	1.0	6.3				
		11006	1.5	1.3	-	M	VC	VC	XC	UC	UC	11.2	75	5.6	37	3.7	25	2.8	18.7	2.2	15.0	1.9	12.5	1.6	10.7	1.4	9.4	1.1	7.5			
			11008	1.5	1.2	-	C	XC	-	-	-	-	14.1	94	7.1	47	4.7	31	3.5	24	2.8	18.8	2.4	15.7	2.0	13.4	1.8	11.8	1.4	9.4		
				11010	1.5	1.0	-	C	XC	VC	UC	-	-	16.4	109	8.2	55	5.5	36	4.1	27	3.3	22	2.7	18.2	2.3	15.6	2.1	13.7	1.6	10.9	
					11012	2	1.1	-	-	XC	-	-	-	-	20	136	10.2	68	6.8	45	5.1	34	4.1	27	3.4	23	2.9	19.4	2.5	17.0	2.0	13.6

DUAL TIP SETUP l/ha

TIP SIZE	Gauge Pressure BAR	Tip Pressure BAR	30% Minimum Duty Cycle								SPEED RANGE (km/h)																					
			TJ60	XR/XRC	TT	TTJ60	ARTTJ60	TTT60	TTT	50 l/ha		75 l/ha		100 l/ha		125 l/ha		150 l/ha		175 l/ha		200 l/ha		250 l/ha		300 l/ha						
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max				
11004	1.5	1.4	-	M	VC	VC	XC	UC	UC	7.8	26	5.2	17.3	3.9	13.0	3.1	10.4	2.6	8.6	2.2	7.4	1.9	6.5	1.6	5.2	1.3	4.3					
	11005	1.5	1.3	-	M	VC	VC	XC	UC	UC	9.5	32	6.3	21	4.8	15.8	3.8	12.7	3.2	10.6	2.7	9.1	2.4	7.9	1.9	6.3	1.6	5.3				
		11006	1.5	1.3	-	M	VC	VC	XC	UC	UC	11.2	37	7.5	25	5.6	18.7	4.5	15.0	3.7	12.5	3.2	10.7	2.8	9.4	2.2	7.5	1.9	6.2			
			11008	1.5	1.2	-	C	XC	-	-	-	-	14.1	47	9.4	31	7.1	24	5.6	18.8	4.7	15.7	4.0	13.4	3.5	11.8	2.8	9.4	2.4	7.8		
				11010	1.5	1.0	-	C	XC	VC	UC	-	-	16.4	55	10.9	36	8.2	27	6.6	22	5.5	18.2	4.7	15.6	4.1	13.7	3.3	10.9	2.7	9.1	
					11012	2	1.1	-	-	XC	-	-	-	-	20	68	13.6	45	10.2	34	8.2	27	6.8	23	5.8	19.4	5.1	17.0	4.1	13.6	3.4	11.3

SINGLE TIP SETUP l/ha