



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: TT160-11004VP – 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

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

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.

WHAT MAKES A TEEJET SPRAY TIP “PWM APPROVED”?

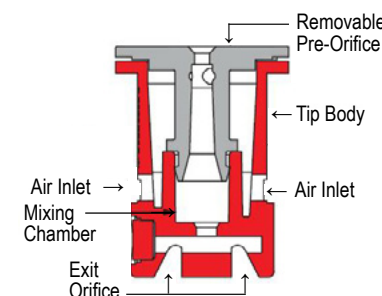
Based on a combination of field and laboratory testing, PWM approved spray tips must meet the following criteria at a variety of duty-cycles:

- 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

AITTJ60 SPRAY TIP



AITTJ60 SPRAY TIP CROSS-SECTION VIEW



DYNAJET® FLEX 7140
APPLICATION CHART

Speed Range Available for
Various Application Rates -
20" Tip Spacing

- PWM Nozzle Selection
Application Parameters:
- Application Rate
 - Tip Spacing
 - Average Field Speed
 - Optimum droplet size for chemical mode of action
 - Maximum / Minimum field speeds

TEEJET PWM APPROVED SPRAY TIPS -
FULL RANGE OF
DROPLET SIZES AVAILABLE

TeeJet now offers eight different series
of spray tips that can be used with PWM
systems and offer the following:

- Single Flat Spray
- Twin Flat Spray
- Air Induction or non-Air Induction
- 02-12 Capacity
- Very Fine (VF) to Ultra Coarse (UC)
Droplet Size Range

HOW TO USE THIS CHART:

- 1 Select target application rate - 15 GPA
- 2 Select your maximum ground speed - 15 MPH
(keep in mind your typical operating speeds)
- 3 Choose a tip and pressure that produce the desired
droplet size category or categories - UC & XC

TIP SIZE	Gauge Pressure PSI	Tip Pressure PSI	30% Minimum Duty Cycle							SPEED RANGE (MPH)																	
			TJ60	XR/ XRC	TT	TTJ60	ATTJ60	TTI60	TTI	5 GPA		7.5 GPA		10 GPA		12 GPA		15 GPA		17.5 GPA		20 GPA		25 GPA		30 GPA	
										Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
11002	20	19	-	F	VC	-	-	-	UC	2.5	8.3	1.7	5.5	1.2	4.2	1.0	3.5	0.8	2.8	0.7	2.4	0.6	2.1	0.5	1.7	0.4	1.4
	30	29	-	F	C	C	VC	UC	UC	3.0	10.1	2.0	6.7	1.5	5.0	1.3	4.2	1.0	3.4	0.9	2.9	0.8	2.5	0.6	2.0	0.5	1.7
	40	39	VF	F	M	M	C	XC	UC	3.6	11.9	2.4	7.9	1.8	5.9	1.5	5.0	1.2	4.0	1.0	3.4	0.9	3.0	0.7	2.4	0.6	2.0
	50	49	VF	F	M	M	C	XC	UC	3.9	13.1	2.6	8.7	2.0	6.5	1.6	5.4	1.3	4.4	1.1	3.7	1.0	3.3	0.8	2.6	0.7	2.2
	60	59	VF	F	M	M	C	VC	UC	4.3	14.3	2.9	9.5	2.1	7.1	1.8	5.9	1.4	4.8	1.2	4.1	1.1	3.6	0.9	2.9	0.7	2.4
	70	69	-	-	M	M	M	VC	XC	4.6	15.4	3.1	10.3	2.3	7.7	1.9	6.4	1.5	5.1	1.3	4.4	1.2	3.9	0.9	3.1	0.8	2.6
	80	79	-	-	F	M	M	VC	XC	5.0	16.6	3.3	11.1	2.5	8.3	2.1	6.9	1.7	5.5	1.4	4.8	1.2	4.2	1.0	3.3	0.8	2.8
90	88	-	-	F	M	M	VC	XC	5.3	17.8	3.6	11.9	2.7	8.9	2.2	7.4	1.8	5.9	1.5	5.1	1.3	4.5	1.1	3.6	0.9	3.0	
110025	20	19	-	M	VC	-	-	-	UC	3.2	10.7	2.1	7.1	1.6	5.3	1.3	4.5	1.1	3.6	0.9	3.1	0.8	2.7	0.6	2.1	0.5	1.8
	30	29	-	F	C	C	VC	UC	UC	3.9	13.1	2.6	8.7	2.0	6.5	1.6	5.4	1.3	4.4	1.1	3.7	1.0	3.3	0.8	2.6	0.7	2.2
	40	39	-	F	M	C	VC	XC	UC	4.5	14.9	3.0	9.9	2.2	7.4	1.9	6.2	1.5	5.0	1.3	4.2	1.1	3.7	0.9	3.0	0.7	2.5
	50	49	-	F	M	M	C	XC	UC	5.0	16.6	3.3	11.1	2.5	8.3	2.1	6.9	1.7	5.5	1.4	4.8	1.2	4.2	1.0	3.3	0.8	2.8
	60	58	-	F	M	M	C	VC	UC	5.5	18.4	3.7	12.3	2.8	9.2	2.3	7.7	1.8	6.1	1.6	5.3	1.4	4.6	1.1	3.7	0.9	3.1
	70	68	-	-	M	M	M	VC	XC	5.9	19.6	3.9	13.1	2.9	9.8	2.5	8.2	2.0	6.5	1.7	5.6	1.5	4.9	1.2	3.9	1.0	3.3
	80	78	-	-	F	M	M	VC	XC	6.2	21	4.2	13.9	3.1	10.4	2.6	8.7	2.1	6.9	1.8	5.9	1.6	5.2	1.2	4.2	1.0	3.5
90	88	-	-	F	M	M	VC	XC	6.8	23	4.5	15.0	3.4	11.3	2.8	9.4	2.3	7.5	1.9	6.4	1.7	5.6	1.4	4.5	1.1	3.8	
11003	20	19	-	M	VC	-	-	-	UC	3.7	12.5	2.5	8.3	1.9	6.2	1.6	5.2	1.2	4.2	1.1	3.6	0.9	3.1	0.7	2.5	0.6	2.1
	30	29	-	F	VC	C	C	XC	UC	4.5	14.9	3.0	9.9	2.2	7.4	1.9	6.2	1.5	5.0	1.3	4.2	1.1	3.7	0.9	3.0	0.7	2.5
	40	38	F	F	C	C	VC	UC	UC	5.2	17.2	3.4	11.5	2.6	8.6	2.2	7.2	1.7	5.7	1.5	4.9	1.3	4.3	1.0	3.4	0.9	2.9
	50	48	F	F	M	M	VC	UC	UC	5.9	19.6	3.9	13.1	2.9	9.8	2.5	8.2	2.0	6.5	1.7	5.6	1.5	4.9	1.2	3.9	1.0	3.3
	60	58	F	F	M	M	C	XC	UC	6.4	21	4.3	14.3	3.2	10.7	2.7	8.9	2.1	7.1	1.8	6.1	1.6	5.3	1.3	4.3	1.1	3.6
	70	67	-	-	M	M	C	XC	UC	6.9	23	4.6	15.4	3.5	11.6	2.9	9.7	2.3	7.7	2.0	6.6	1.7	5.8	1.4	4.6	1.2	3.9
	80	77	-	-	M	M	C	VC	XC	7.3	24	4.9	16.2	3.7	12.2	3.0	10.1	2.4	8.1	2.1	7.0	1.8	6.1	1.5	4.9	1.2	4.1
90	87	-	-	F	M	M	VC	XC	7.8	26	5.2	17.4	3.9	13.1	3.3	10.9	2.6	8.7	2.2	7.5	2.0	6.5	1.6	5.2	1.3	4.4	
11004	20	19	-	M	VC	-	-	-	UC	4.8	16.0	3.2	10.7	2.4	8.0	2.0	6.7	1.6	5.3	1.4	4.6	1.2	4.0	1.0	3.2	0.8	2.7
	30	28	-	M	C	C	C	XC	UC	6.1	20	4.0	13.5	3.0	10.1	2.5	8.4	2.0	6.7	1.7	5.8	1.5	5.0	1.2	4.0	1.0	3.4
	40	37	F	M	C	C	C	XC	UC	6.9	23	4.6	15.4	3.5	11.6	2.9	9.7	2.3	7.7	2.0	6.6	1.7	5.8	1.4	4.6	1.2	3.9
	50	47	F	F	M	M	VC	UC	UC	7.8	26	5.2	17.4	3.9	13.1	3.3	10.9	2.6	8.7	2.2	7.5	2.0	6.5	1.6	5.2	1.3	4.4
	60	56	F	F	M	M	C	XC	UC	8.6	29	5.7	19.0	4.3	14.3	3.6	11.9	2.9	9.5	2.4	8.1	2.1	7.1	1.7	5.7	1.4	4.8
	70	66	-	-	M	M	C	XC	UC	9.1	30	6.1	20	4.5	15.1	3.8	12.6	3.0	10.1	2.6	8.7	2.3	7.6	1.8	6.1	1.5	5.0
	80	75	-	-	M	M	M	VC	XC	9.8	33	6.5	22	4.9	16.3	4.1	13.6	3.3	10.9	2.8	9.3	2.5	8.2	2.0	6.5	1.6	5.4
90	85	-	-	F	M	M	VC	XC	10.3	34	6.9	23	5.2	17.2	4.3	14.4	3.4	11.5	3.0	9.8	2.6	8.6	2.1	6.9	1.7	5.7	
11005	20	18	-	M	VC	-	-	-	UC	5.9	19.6	3.9	13.1	2.9	9.8	2.5	8.2	2.0	6.5	1.7	5.6	1.5	4.9	1.2	3.9	1.0	3.3
	30	27	-	M	VC	C	C	XC	UC	7.3	24	4.9	16.2	3.7	12.2	3.0	10.1	2.4	8.1	2.1	7.0	1.8	6.1	1.5	4.9	1.2	4.1
	40	36	M	M	C	C	C	XC	UC	8.6	29	5.7	19.0	4.3	14.3	3.6	11.9	2.9	9.5	2.4	8.1	2.1	7.1	1.7	5.7	1.4	4.8
	50	46	F	F	M	C	VC	UC	UC	9.4	31	6.3	21	4.7	15.7	3.9	13.1	3.1	10.5	2.7	9.0	2.4	7.9	1.9	6.3	1.6	5.2
	60	55	F	F	M	M	VC	XC	UC	10.3	34	6.9	23	5.2	17.2	4.3	14.4	3.4	11.5	3.0	9.8	2.6	8.6	2.1	6.9	1.7	5.7
	70	64	-	-	M	M	VC	XC	UC	11.2	37	7.5	25	5.6	18.7	4.7	15.6	3.7	12.5	3.2	10.7	2.8	9.4	2.2	7.5	1.9	6.2
	80	73	-	-	F	M	C	XC	UC	12.1	40	8.1	27	6.1	20	5.0	16.8	4.0	13.5	3.5	11.5	3.0	10.1	2.4	8.1	2.0	6.7
90	82	-	-	F	M	C	VC	XC	12.8	43	8.6	29	6.4	21	5.3	17.8	4.3	14.3	3.7	12.2	3.2	10.7	2.6	8.6	2.1	7.1	
11006	20	17	-	C	XC	-	-	-	UC	6.9	23	4.6	15.4	3.5	11.6	2.9	9.7	2.3	7.7	2.0	6.6	1.7	5.8	1.4	4.6	1.2	3.9
	30	26	-	M	VC	VC	C	XC	UC	8.6	29	5.7	19.0	4.3	14.3	3.6	11.9	2.9	9.5	2.4	8.1	2.1	7.1	1.7	5.7	1.4	4.8
	40	35	M	M	C	C	C	XC	UC	10.0	33	6.7	22	5.0	16.6	4.2	13.9	3.3	11.1	2.9	9.5	2.5	8.3	2.0	6.7	1.7	5.5
	50	44	M	M	M	C	VC	UC	UC	11.2	37	7.5	25	5.6	18.7	4.7	15.6	3.7	12.5	3.2	10.7	2.8	9.4	2.2	7.5	1.9	6.2
	60	53	F	M	M	C	VC	UC	UC	12.3	41	8.2	27	6.1	20	5.1	17.1	4.1	13.7	3.5							