



SPRAY TIP SELECTION GUIDE FOR TARGET SPRAY APPLICATIONS

TeeJet[®]
TECHNOLOGIES

INTRODUCTION TO TARGET SPRAY

Target spray technology, particularly using green-on-brown or green-on-green systems, is designed to significantly reduce the amount of herbicide applied in an area, potentially achieving up to a 95% reduction compared to traditional broadcast sprayers. This reduction in herbicide usage not only benefits the environment but also minimizes costs for farmers and promotes more sustainable agriculture. The selection of appropriate spray tips is crucial in optimizing the performance of these systems.

There are two main approaches to activating spray tips in target spray technology:

Multiple Spray Tip Activation: Systems that utilize multiple spray tips activated at different times and locations based on weed detection rely on spray tips with tapered spray patterns for precise application. These spray tips are designed to deliver a pattern with a concentrated volume at the center, gradually tapering off toward the edges. This ensures overlapping spray patterns that provide uniform herbicide distribution across the target area. While boom height does not influence the pesticide dose, it plays a critical role in determining the distribution uniformity and minimizing spray drift.

Single Spray Tip Activation: The use of even tips for uniform spray application under one unique tip is crucial for precise herbicide delivery. Even application helps to maximize the effectiveness of the herbicide and minimize the risk of under - or over - application. However, the boom height directly impacts the band width where the herbicide is applied which will directly impact on the applied dose. Consistent and accurate boom heights are essential to ensure proper dose application and minimize spray drift.

Regardless of whether the equipment utilizes a single or multiple spray tip activation, it's essential to calibrate the system to ensure the best performance and savings in weed control. Calibration ensures that the right amount of herbicide is delivered to the target area without over-spraying or under-spraying.

TeeJet offers a wide selection of spray tips, boom components and controllers that are suitable for target spray applications. When choosing the right spray tips, factors like droplet size, flow rate, and spray angle are essential to consider, as they directly impact the precision and effectiveness of herbicide application.

You will find in this TeeJet Spray Selection Guide for Target Spray Application a selection of spray tips that best suit these applications. The guide provides information on different spray tip options and their characteristics, helping users make informed choices based on factors like droplet size, flow rate, spray angle, and other considerations.

1

SELECT THE SPRAY TIP THAT MOST FITS YOUR APPLICATION

SPRAY TIPS & DROPLET SIZE*	HERBICIDES	
	POST-EMERGENCE	
	CONTACT	SYSTEMIC
AI TeeJet⁺ AI-VS, AI-EVS		EXCELLENT
TeeJet⁺ TP, TP-E	VERY GOOD	GOOD
DGX TeeJet⁺ DGX-SS		EXCELLENT
DG TeeJet⁺ DG-VS	EXCELLENT	EXCELLENT
DG TeeJet⁺ DG-SS	EXCELLENT	EXCELLENT

Note: Consult the crop protection product label for specific rate and application recommendations. Droplet size categories shown are based on ISO 25358.

* (VF) Very Fine, (F) Fine, (M) Medium, (C) Coarse, (VC) Very Coarse, (XC) Extremely Coarse, (UC) Ultra Coarse.

2

CALCULATE THE CORRECT SPRAY TIP CAPACITY

To determine the right capacity, you must know the work speed, application rate, and spray tip spacing or band width, based on if you will use a tapered or even spray tip.

Examples:

A. For Tapered spray tips – Multiple spray tips activation

$$\text{Formula: } l/\text{min} = \frac{l/\text{ha} \times \text{km}/\text{h} \times W}{60,000} = \frac{120 \times 20 \times 40}{60,000} = 1.6 \text{ l/min (04 tip @ 3.1 bar)}$$

where l/ha is the application rate, km/h is the operating speed, **W is the spray tip spacing (cm) on the boom**, and 60,000 is the conversion factor.

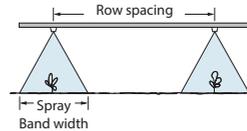
B. For Even spray tips – Single spray tip activation

$$\text{Formula: } l/\text{min} = \frac{l/\text{ha} \times \text{km}/\text{h} \times W}{60,000} = \frac{120 \times 20 \times 63.7}{60,000} = 2.54 \text{ l/min (06 tip @ 3.5 bar)}$$

where l/ha is the application rate, km/h is the operating speed, **W is the spray tip band width (cm)**, and 60,000 is the conversion factor.

If you are using a single tip, to find the l/ha on the spray band, multiply the tabulated l/ha from the spray tip page for row spacing by the conversion factors below.

 Width (cm)	 Height (cm)			l/ha Conversion Factors*		
	40°	65°	80°	25 cm spacing	40 cm spacing	50 cm spacing
7.5	10	5	5	3.33	5.33	6.67
15	15	12	8	1.67	2.67	3.33
20	27	16	12	1.25	2.00	2.50
25	34	20	15	1.00	1.60	2.00
30	41	24	18	0.83	1.33	1.67
40	55	31	24	0.63	1.00	1.25
50	69	39	30	0.50	0.80	1.00



Example:
 Spray tip spacing: 25 cm
 Band width = 20 cm (conversion factor = 1.25)
 TP6503E-SS at 3 bar at 10 km/h = 142 l/ha
 Corrected l/ha = 142 x 1.25 = 177.5 l/ha

3 SELECT THE ADEQUATE NOMINAL ANGLE FOR THE SPRAY TIP

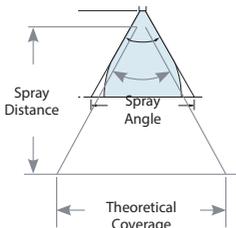
Different target spray technologies come with different boom configurations in spray tip spacing and orientation, factors that will impact on the selection of the best angle for the tip. If you are replacing the spray tips on your machine, follow the sprayer manufacturer's recommendations. If you are looking for how to select the proper nominal angle, follow the upcoming steps.

The table below lists the theoretical band width of spray patterns as calculated from the nominal spray angle of the spray and the distance from the tip orifice. These values are based on the assumption that the spray angle remains the same throughout the entire spray distance.

If the desired spray height is not listed at this table, you can find the boom height by selecting an existing tip angle and calculating the boom height by :

$$\text{Tangent} \left(\frac{\text{Spray angle}}{2} \right) = 2 \left(\frac{\text{Theoretical coverage}}{\text{Spray distance}} \right)$$

THEORETICAL COVERAGE



INCLUDED SPRAY ANGLE	THEORETICAL COVERAGE AT VARIOUS SPRAY HEIGHTS							
	20 cm	30 cm	40 cm	50 cm	60 cm	70 cm	80 cm	90 cm
15°	5.3	7.9	10.5	13.2	15.8	18.4	21.1	23.7
20°	7.1	10.6	14.1	17.6	21.2	24.7	28.2	31.7
25°	8.9	13.3	17.7	22.2	26.6	31.0	35.5	39.9
30°	10.7	16.1	21.4	26.8	32.2	37.5	42.9	48.2
35°	12.6	18.9	25.2	31.5	37.8	44.1	50.5	56.8
40°	14.6	21.8	29.1	36.4	43.7	51.0	58.2	65.5
45°	16.6	24.9	33.1	41.4	49.7	58.0	66.3	74.6
50°	18.7	28.0	37.3	46.6	56.0	65.3	74.6	83.9
55°	20.8	31.2	41.7	52.1	62.5	72.9	83.3	93.7
60°	23.1	34.6	46.2	57.7	69.3	80.8	92.4	104
65°	25.5	38.2	51.0	63.7	76.5	89.2	102	115
73°	29.6	44.4	59.2	74.0	88.8	104	118	133
80°	33.6	50.4	67.1	83.9	101	118	134	151

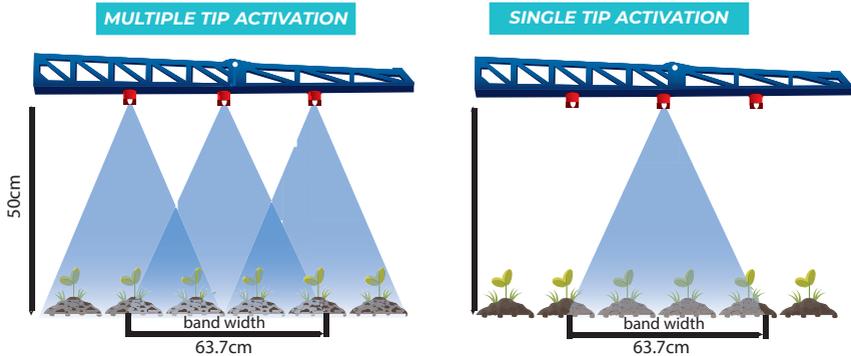
THEORETICAL COVERAGE

The proper theoretical band width is subject to change based on factors like operating pressure, tip nominal angle, and boom height. This aspect becomes even more critical when considering single tip activation or even tips, as the correct band width is essential for delivering the appropriate crop protection product dose.

In the example below, we can compare the applied dose of a tapered and even spray tip with a 65° angle at the same boom height. Using the same parameters from page 2, for the overlapping tips (tapered), the applied volume rate is calculated using the spray tip spacing of 40 cm resulting in an application rate of **1.6 l/min** for the tip. When calculating the flow rate parameters for systems with a single spray tip activation, ensure that the spray tip's band width is used as the "w" value in the equation. Using the same 65° spray tip example, at a 50 cm height provides a theoretical band width of 63.7 cm. Based on this, the correct calculated capacity for the spray tip would be **2.54 l/min** (using an 06 tip at 3.5 bar), rather than 1.6 l/min, where you would be under-applying by 0.94 l/min.

In the case of multiple tip activation with tapered spray tips, it is strongly suggested to have a minimum overlap of 100%* to guarantee the accurate delivery of the recommended dose.

When it comes to single tip activation with even spray tips, the general recommendation is to avoid any overlap. However, in practice, it's observed that the edges of even tips may carry less volume. Therefore, a 20% overlap is suggested when more than one tip is activated side by side simultaneously. This slight overlap compensates for the uneven distribution at the edges and helps maintain consistent coverage when using even spray tips. But before deciding if an overlap is needed or not for even spray tips, talk to a TeeJet representative to assist you and understand how you can optimize your application.



If you use the same spray tip capacity as calculated for a broadcast application for a single spray tip activation, you are under spraying the recommended dose. Let's consider as an example the recommended dose as **120 l/ha**.

$$l/ha = (1.6 \times 60,000) / (20 \times 63.7) = 75 l/ha \quad \times$$

$$l/ha = (2.54 \times 60,000) / (20 \times 63.7) = 120 l/ha \quad \checkmark$$

* Spray tips should be positioned to achieve 100% pattern overlap, with the edge of each spray pattern aligning at the center of the adjacent nozzle

DGX TEEJET®
DRIFT GUARD FLAT SPRAY TIPS

REDUCED DRIFT SPRAY TIP WITH SUPERIOR COVERAGE

The DGX65 is the first spray tip in our line of X Series Target Spray tips. It is designed specifically for precise application and exceptional coverage in target spraying applications. The DGX is now available in a 40° and 65° spray angle with a tapered spray pattern, in 4 capacity sizes, 03-06. The DGX is excellent for herbicide applications in target spraying and is highly versatile. *

FEATURES & BENEFITS

- Designed for multi-nozzle broadcast target spray applications
- Pre-orifice design with VisiFlo® color coding produces large droplets to reduce drift
- DGX TeeJet Drift Guard tips reduce small drift prone droplets, minimizing off target spray contamination
- Increased droplet size compared to the standard DG nozzle



USE WITH :



HERBICIDE
SYSTEMIC
EXCELLENT

PRESSURE



1.5-5 bar

DROPLET SIZE CLASSIFICATION :



VC
Very
Coarse



XC
Extremely
Coarse



UC
Ultra
Coarse

MATERIALS :



STAINLESS STEEL

SPRAY ANGLE :



40° AND 65°

SPRAY PATTERN :



TAPERED



DGX SPRAY APPLICATION CHARTS

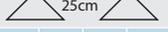
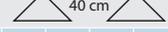
	 bar	DROP SIZE DGX40°	CAPACITY ONE NOZZLE IN I/MIN	LITERS PER HECTARE (l/ha)					
				 25cm					
				4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h
03 (50)	1.5	UC	0.83	498	332	249	199	166	125
	2.0	UC	0.96	576	384	288	230	192	144
	3.0	UC	1.18	708	472	354	283	236	177
	4.0	XC	1.36	816	544	408	326	272	204
	5.0	XC	1.52	912	608	456	365	304	228
04 (50)	1.5	UC	1.12	672	448	336	269	224	168
	2.0	UC	1.29	774	516	387	310	258	194
	3.0	XC	1.58	948	632	474	379	316	237
	4.0	XC	1.82	1092	728	546	437	364	273
	5.0	XC	2.04	1224	816	612	490	408	306
05 (50)	1.5	UC	1.39	834	556	417	334	278	209
	2.0	UC	1.61	966	644	483	386	322	242
	3.0	UC	1.97	1182	788	591	473	394	296
	4.0	XC	2.27	1362	908	681	545	454	341
	5.0	XC	2.54	1524	1016	762	610	508	381
06 (50)	1.5	UC	1.68	1008	672	504	403	336	252
	2.0	UC	1.94	1164	776	582	466	388	291
	3.0	XC	2.37	1422	948	711	569	474	356
	4.0	XC	2.74	1644	1096	822	658	548	411
	5.0	VC	3.06	1836	1224	918	734	612	459

HOW TO ORDER

Stainless Steel with
VisiFlo color-coding

DGX 6503SS

Tip Type Spray Capacity Angle Material Size Code

	 bar	DROP SIZE DGX65°	CAPACITY ONE NOZZLE IN I/MIN	LITERS PER HECTARE (l/ha)						LITERS PER HECTARE (l/ha)					
				 25cm						 40cm					
				4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h
03 (50)	1.5	UC	0.83	498	332	249	199	166	125	311	208	156	125	104	77.8
	2.0	UC	0.96	576	384	288	230	192	144	360	240	180	144	120	90.0
	3.0	XC	1.18	708	472	354	283	236	177	443	295	221	177	148	111
	4.0	XC	1.36	816	544	408	326	272	204	510	340	255	204	170	128
	5.0	VC	1.52	912	608	456	365	304	228	570	380	285	228	190	143
04 (50)	1.5	UC	1.12	672	448	336	269	224	168	420	280	210	168	140	105
	2.0	XC	1.29	774	516	387	310	258	194	484	323	242	194	161	121
	3.0	XC	1.58	948	632	474	379	316	237	593	395	296	237	198	148
	4.0	VC	1.82	1092	728	546	437	364	273	683	455	341	273	228	171
	5.0	VC	2.04	1224	816	612	490	408	306	765	510	383	306	255	191
05 (50)	1.5	UC	1.39	834	556	417	334	278	209	521	348	261	209	174	130
	2.0	UC	1.61	966	644	483	386	322	242	604	403	302	242	201	151
	3.0	XC	1.97	1182	788	591	473	394	296	739	493	369	296	246	185
	4.0	VC	2.27	1362	908	681	545	454	341	851	568	426	341	284	213
	5.0	VC	2.54	1524	1016	762	610	508	381	953	635	476	381	318	238
06 (50)	1.5	UC	1.68	1008	672	504	403	336	252	630	420	315	252	210	158
	2.0	XC	1.94	1164	776	582	466	388	291	728	485	364	291	243	182
	3.0	XC	2.37	1422	948	711	569	474	356	889	593	444	356	296	222
	4.0	VC	2.74	1644	1096	822	658	548	411	1028	685	514	411	343	257
	5.0	VC	3.06	1836	1224	918	734	612	459	1148	765	574	459	383	287

Note: Always double check your application rates. Droplet size classification shown is based on ISO 25358. Droplet size classification standard is subject to changes. Tabulations are based on spraying water at 70°F (21°C).

**DG TEEJET®
DRIFT GUARD FLAT SPRAY TIPS**

REDUCED DRIFT SPRAY TIP WITH SUPERIOR COVERAGE

Can be used for contact and systemic herbicide applications that require medium to very coarse droplet size. Available in 30°, 40°, 65° and 80° tapered spray angles ideal for target spray application.*

FEATURES & BENEFITS

- 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
- Stainless steel with VisiFlo® color-coding and Stainless Steel

<p>USE WITH :</p>  <table border="1"> <tr><td>HERBICIDE</td></tr> <tr><td>CONTACT</td></tr> <tr><td>EXCELLENT</td></tr> <tr><td>SYSTEMIC</td></tr> <tr><td>EXCELLENT</td></tr> </table>	HERBICIDE	CONTACT	EXCELLENT	SYSTEMIC	EXCELLENT	<p>MATERIALS :</p> <p>VS STAINLESS STEEL</p> <p>VP POLYMER</p>					
HERBICIDE											
CONTACT											
EXCELLENT											
SYSTEMIC											
EXCELLENT											
<p>PRESSURE :</p>  2-4 BAR	<p>SPRAY ANGLE :</p>  30°,40°,65° AND 80°										
<p>DROPLET SIZE CLASSIFICATION :</p> <table border="0"> <tr> <td> F</td> <td> M</td> <td> C</td> <td> VC</td> <td> XC</td> </tr> <tr> <td>Fine</td> <td>Medium</td> <td>Coarse</td> <td>Very Coarse</td> <td>Extremely Coarse</td> </tr> </table>	 F	 M	 C	 VC	 XC	Fine	Medium	Coarse	Very Coarse	Extremely Coarse	<p>SPRAY PATTERN :</p>  TAPERED
 F	 M	 C	 VC	 XC							
Fine	Medium	Coarse	Very Coarse	Extremely Coarse							



* For more information about our products, please check the complete catalog on our website www.teejet.com/target-spray

DG SPRAY APPLICATION CHARTS

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE IN L/MIN	LITERS PER HECTARE (l/ha)						
		bar	DG30°		DG40°	25cm					
						4	6	8	10	12	16
03 (50)	2.0	XC	VC	0.96	576	384	288	230	192	144	
	2.5	VC	VC	1.08	648	432	324	259	216	162	
	3.0	VC	VC	1.18	708	472	354	283	236	177	
	4.0	C	C	1.36	816	544	408	326	272	204	
04 (50)	2.0	XC	VC	1.29	774	516	387	310	258	194	
	2.5	VC	VC	1.44	864	576	432	346	288	216	
	3.0	VC	VC	1.58	948	632	474	379	316	237	
	4.0	C	C	1.82	1092	728	546	437	364	273	

HOW TO ORDER

Stainless Steel with VisiFlo color-coding

DG 80 02 VS

Tip Spray Capacity Material
Type Angle Size Code

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE L/MIN	LITERS PER HECTARE (l/ha)						LITERS PER HECTARE (l/ha)						
		bar	DGx65°		L/MIN	25cm						40cm					
						4	6	8	10	12	16	4	6	8	10	12	16
02 (50)	2.0	C	0.65	390	260	195	156	130	97.5	244	163	122	97.5	81.3	60.9		
	2.5	M	0.72	432	288	216	173	144	108	270	180	135	108	90.0	67.5		
	3.0	M	0.79	474	316	237	190	158	119	296	198	148	119	98.8	74.1		
	4.0	F	0.91	546	364	273	218	182	137	341	228	171	137	114	85.3		
03 (50)	2.0	VC	0.96	576	384	288	230	192	144	360	240	180	144	120	90.0		
	2.5	C	1.08	648	432	324	259	216	162	405	270	203	162	135	101		
	3.0	C	1.18	708	472	354	283	236	177	443	295	221	177	148	111		
	4.0	M	1.36	816	544	408	326	272	204	510	340	255	204	170	128		
04 (50)	2.0	VC	1.29	774	516	387	310	258	194	484	323	242	194	161	121		
	2.5	C	1.44	864	576	432	346	288	216	540	360	270	216	180	135		
	3.0	C	1.58	948	632	474	379	316	237	593	395	296	237	198	148		
	4.0	M	1.82	1092	728	546	437	364	273	683	455	341	273	228	171		
05 (50)	2.0	VC	1.61	966	644	483	386	322	242	604	403	302	242	201	151		
	2.5	C	1.80	1080	720	540	432	360	270	675	450	338	270	225	169		
	3.0	C	1.97	1182	788	591	473	394	296	739	493	369	296	246	185		
	4.0	M	2.27	1362	908	681	545	454	341	851	568	426	341	284	213		
055 (50)	2.0	XC	1.70	1020	680	510	408	340	255	638	425	319	255	213	159		
	2.5	VC	1.90	1140	760	570	456	380	285	713	475	356	285	238	178		
	3.0	VC	2.08	1248	832	624	499	416	312	780	520	390	312	260	195		
	4.0	C	2.40	1440	960	720	576	480	360	900	600	450	360	300	225		
06 (50)	2.0	VC	1.94	1164	776	582	466	388	291	728	485	364	291	243	182		
	2.5	VC	2.16	1296	864	648	518	432	324	810	540	405	324	270	203		
	3.0	VC	2.37	1422	948	711	569	474	356	889	593	444	356	296	222		
	4.0	C	2.74	1644	1096	822	658	548	411	1028	685	514	411	343	257		
08 (50)	2.0	VC	2.58	1548	1032	774	619	516	387	968	645	484	387	323	242		
	2.5	VC	2.88	1728	1152	864	691	576	432	1080	720	540	432	360	270		
	3.0	C	3.16	1896	1264	948	758	632	474	1185	790	593	474	395	296		
	4.0	C	3.65	2190	1460	1095	876	730	548	1369	913	684	548	456	342		
10 (50)	2.0	VC	3.23	1938	1292	969	775	646	485	1211	808	606	485	404	303		
	2.5	VC	3.61	2166	1424	1083	866	722	542	1354	903	677	542	451	338		
	3.0	VC	3.95	2370	1580	1185	948	790	593	1481	988	741	593	494	370		
	4.0	VC	4.56	2736	1824	1368	1094	912	684	1710	1140	855	684	570	428		

Stainless Steel

DG 65 055-SS

Tip Spray Capacity Material
Type Angle Size Code

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE IN L/MIN	LITERS PER HECTARE (l/ha)						LITERS PER HECTARE (l/ha)						
		bar	DG80°		L/MIN	40cm						50cm					
						4	6	8	10	12	16	4	6	8	10	12	16
015 (100)	2.0	M	0.48	180	120	90.0	72.0	60.0	45.0	144	96.0	72.0	57.6	48.0	36.0		
	2.5	M	0.54	203	135	101	81.0	67.5	50.6	162	108	81.0	64.8	54.0	40.5		
	3.0	F	0.59	221	148	111	88.5	73.8	55.3	177	118	88.5	70.8	59.0	44.3		
	4.0	F	0.68	255	170	128	102	85.0	63.8	204	136	102	81.6	68.0	51.0		
02 (50)	2.0	C	0.65	244	163	122	97.5	81.3	60.9	195	130	97.5	78.0	65.0	48.8		
	2.5	M	0.72	270	180	135	108	90.0	67.5	216	144	108	86.4	72.0	54.0		
	3.0	M	0.79	296	198	148	119	98.8	74.1	237	158	119	94.8	75.0	58.3		
	4.0	M	0.91	341	228	171	137	114	85.3	273	182	137	109	91.0	68.3		
03 (50)	2.0	C	0.96	360	240	180	144	120	90.0	288	192	144	115	96.0	72.0		
	2.5	M	1.08	405	270	203	162	135	101	324	216	162	130	108	81.0		
	3.0	M	1.18	443	295	221	177	148	111	354	236	177	142	118	88.5		
	4.0	M	1.36	510	340	255	204	170	128	408	272	204	163	136	102		
04 (50)	2.0	C	1.29	484	323	242	194	161	121	387	258	194	155	129	96.8		
	2.5	M	1.44	540	360	270	216	180	135	432	288	216	173	144	108		
	3.0	M	1.58	593	395	296	237	198	148	474	316	237	190	158	119		
	4.0	M	1.82	683	455	341	273	228	171	546	364	273	218	182	137		
05 (50)	2.0	C	1.61	604	403	302	242	201	151	483	322	242	193	161	121		
	2.5	C	1.80	675	450	338	270	225	169	540	360	270	216	180	135		
	3.0	M	1.97	739	493	369	296	246	185	591	394	296	236	197	148		
	4.0	M	2.27	851	568	426	341	284	213	681	454	341	272	227	170		

Note: Always double check your application rates. Droplet size classification shown is based on ISO 25358. Droplet size classification standard is subject to changes. Tabulations are based on spraying water at 70°F (21°C).

**TP TEEJET®
FLAT SPRAY TIPS**

MULTIPURPOSE SPRAY TIP FOR WHEN COVERAGE IS CRITICAL

A wide range of capacities and spray angles are available to meet your spray volume and droplet size requirements, ensuring optimal performance across various spray boom configurations. Available in 15°, 25°, 30°, 40°, 65°, and 80° spray angles, featuring both tapered and even spray patterns.*

FEATURES & BENEFITS

- Fast Pattern Formation - Faster pattern establishment saves time during spraying operations
- Precision application reduces the need for repeat passes, conserving resources
- High-Quality Stainless Steel provides reliable performance, even under demanding conditions
- Uniform spray patterns ensure even coverage, boosting effectiveness in targeted applications
- Available with Stainless steel and polymer holder with VisiFlo color-coding , VisiFlo® color-coding in stainless steel or all stainless steel

USE WITH :  <table border="1"><tr><td>HERBICIDE CONTACT</td></tr><tr><td>VERY GOOD</td></tr><tr><td>SYSTEMIC</td></tr><tr><td>GOOD</td></tr></table>	HERBICIDE CONTACT	VERY GOOD	SYSTEMIC	GOOD	MATERIALS : <table border="1"><tr><td>VS</td><td>STAINLESS STEEL</td></tr><tr><td>VP</td><td>POLYMER</td></tr></table>	VS	STAINLESS STEEL	VP	POLYMER
HERBICIDE CONTACT									
VERY GOOD									
SYSTEMIC									
GOOD									
VS	STAINLESS STEEL								
VP	POLYMER								
PRESSURE :  2-4 BAR	SPRAY ANGLE :  15°,25°,30°,40°,65° AND 80°								
DROPLET SIZE CLASSIFICATION : <table border="1"><tr><td>F Fine</td><td>M Medium</td><td>C Coarse</td><td>VC Very Coarse</td></tr></table>	F Fine	M Medium	C Coarse	VC Very Coarse	SPRAY PATTERN :  TAPERED AND EVEN  				
F Fine	M Medium	C Coarse	VC Very Coarse						

TP SPRAY APPLICATION CHARTS

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE IN /MIN	LITERS PER HECTARE (l/ha) 25cm						LITERS PER HECTARE (l/ha) 40cm						
		bar	40°		40° E	4	6	8	10	12	16	4	6	8	10	12	16
			km/h		km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
02 (50)	2.0	M	M	0.65	390	260	195	156	130	97.5	244	163	122	97.5	81.3	60.9	
	3.0	M	M	0.79	474	316	237	190	158	119	296	198	148	119	98.8	74.1	
	4.0	F	F	0.91	546	364	273	218	182	137	341	228	171	137	114	85.3	
03 (50)	2.0	C	C	0.96	576	384	288	230	192	144	360	240	180	144	120	90.0	
	3.0	M	M	1.18	708	472	354	283	236	177	443	295	221	177	148	111	
	4.0	M	M	1.36	816	544	408	326	272	204	510	340	255	204	170	128	
04 (50)	2.0	C	C	1.29	774	516	387	310	258	194	484	323	242	194	161	121	
	3.0	M	C	1.58	948	632	474	379	316	237	593	395	296	237	198	148	
	4.0	M	M	1.82	1092	728	546	437	364	273	683	455	341	273	228	171	
05 (50)	2.0	VC	VC	1.61	966	644	483	386	322	242	604	403	302	242	201	151	
	3.0	C	C	1.97	1182	788	591	473	394	296	739	493	369	296	246	185	
	4.0	M	M	2.27	1362	908	681	545	454	341	851	568	426	341	284	213	

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE IN /MIN	LITERS PER HECTARE (l/ha) 25cm						LITERS PER HECTARE (l/ha) 40cm						
		bar	65°		65° E	4	6	8	10	12	16	4	6	8	10	12	16
			km/h		km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
02 (50)	2.0	M	F	0.65	390	260	195	156	130	97.5	244	163	122	97.5	81.3	60.9	
	3.0	F	F	0.79	474	316	237	190	158	119	296	198	148	119	98.8	74.1	
	4.0	F	F	0.91	546	364	273	218	182	137	341	228	171	137	114	85.3	
03 (50)	2.0	M	M	0.96	576	384	288	230	192	144	360	240	180	144	120	90.0	
	3.0	M	M	1.18	708	472	354	283	236	177	443	295	221	177	148	111	
	4.0	F	M	1.36	816	544	408	326	272	204	510	340	255	204	170	128	
04 (50)	2.0	C	C	1.29	774	516	387	310	258	194	484	323	242	194	161	121	
	3.0	M	M	1.58	948	632	474	379	316	237	593	395	296	237	198	148	
	4.0	M	M	1.82	1092	728	546	437	364	273	683	455	341	273	228	171	
05 (50)	2.0	C	C	1.61	966	644	483	386	322	242	604	403	302	242	201	151	
	3.0	M	M	1.97	1182	788	591	473	394	296	739	493	369	296	246	185	
	4.0	M	M	2.27	1362	908	681	545	454	341	851	568	426	341	284	213	
06 (50)	2.0	C	C	1.94	1164	776	582	466	388	291	728	485	364	291	243	182	
	3.0	C	M	2.37	1422	948	711	569	474	356	889	593	444	356	296	222	
	4.0	M	M	2.74	1644	1096	822	658	548	411	1028	685	514	411	343	257	

Nozzle Icon	Clock Icon	DROP SIZE		CAPACITY ONE NOZZLE IN /MIN	LITERS PER HECTARE (l/ha) 40cm						LITERS PER HECTARE (l/ha) 50cm						
		bar	80°		80° E	4	6	8	10	12	16	4	6	8	10	12	16
			km/h		km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
02 (50)	2.0	M	M	0.65	244	163	122	97.5	81.3	60.9	195	130	97.5	78.0	65.0	48.8	
	3.0	F	F	0.79	296	198	148	119	98.8	74.1	237	158	119	94.8	79.0	59.3	
	4.0	F	F	0.91	341	228	171	137	114	85.3	273	182	137	109	91.0	68.3	
03 (50)	2.0	M	M	0.96	360	240	180	144	120	90.0	288	192	144	115	96.0	72.0	
	3.0	M	F	1.18	443	295	221	177	148	111	354	236	177	142	118	88.5	
	4.0	F	F	1.36	510	340	255	204	170	128	408	272	204	163	136	102	
04 (50)	2.0	M	M	1.29	484	323	242	194	161	121	387	258	194	155	129	96.8	
	3.0	M	M	1.58	593	395	296	237	198	148	474	316	237	190	158	119	
	4.0	M	F	1.82	683	455	341	273	228	171	546	364	273	218	182	137	
05 (50)	2.0	M	M	1.61	604	403	302	242	201	151	483	322	242	193	161	121	
	3.0	M	M	1.97	739	493	369	296	246	185	591	394	296	236	197	148	
	4.0	M	M	2.27	851	568	426	341	284	213	681	454	341	272	227	170	
06 (50)	2.0	C	C	1.94	728	485	364	291	243	182	582	388	291	233	194	146	
	3.0	M	M	2.37	889	593	444	356	296	222	711	474	356	284	237	178	
	4.0	M	M	2.74	1028	685	514	411	343	257	822	548	411	329	274	206	

Note: Always double check your application rates. Droplet size classification shown is based on ISO 25358. Droplet size classification standard is subject to changes. Tabulations are based on spraying water at 70°F (21°C).

AI TEEJET®
AIR INDUCTION FLAT SPRAY TIPS

PERFECT SPRAY DISTRIBUTION WITH SUPERIOR DRIFT CONTROL

Available in 80° tapered and 65° even spray angles ideal for target spray application.*

FEATURES & BENEFITS

- Produces larger droplets, significantly minimizing drift and keeping spray on target
- Air-filled droplets, due to the Venturi system, improve coverage efficiency, ensuring consistent application without compromising efficacy
- Minimizes chemical loss due to drift, saving costs and reducing environmental impact
- Available in stainless steel insert, polymer holder and pre-orifice with VisiFlo® color-coding



USE WITH :



HERBICIDE
SYSTEMIC
EXCELLENT

MATERIALS :



STAINLESS STEEL

PRESSURE :



2-8 BAR

SPRAY ANGLE :



AI 80° TAPERED
AI 65° EVEN

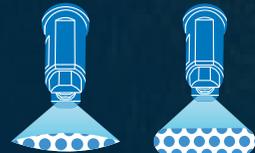
DROPLET SIZE CLASSIFICATION :



SPRAY PATTERN :



TAPERED AND EVEN



AI APPLICATION CHART

		DROP SIZE		CAPACITY ONE NOZZLE IN /MIN	LITERS PER HECTARE (l/ha)						LITERS PER HECTARE (l/ha)						
		bar	80°														
			65°		E	80°	4	6	8	10	12	16	4	6	8	10	12
km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h		
015 (100)	2.0	-	XC	0.48	180	120	90.0	72.0	60.0	45.0	144	96.0	72.0	57.6	48.0	36.0	
	3.0	-	VC	0.59	221	148	111	88.5	73.8	55.3	177	118	88.5	70.8	59.0	44.3	
	4.0	-	VC	0.68	255	170	128	102	85.0	63.8	204	136	102	81.6	68.0	51.0	
	5.0	-	VC	0.76	285	190	143	114	95.0	71.5	228	152	114	91.2	76.0	57.0	
	6.0	-	C	0.83	311	208	156	125	104	77.8	249	166	125	99.6	83.0	62.3	
	7.0	-	C	0.90	338	225	169	135	113	84.4	270	180	135	108	90.0	67.5	
8.0	-	C	0.96	360	240	180	144	120	90.0	288	192	144	115	96.0	72.0		
02 (50)	2.0	UC	XC	0.65	244	163	122	97.5	81.3	60.9	195	130	97.5	78.0	65.0	48.8	
	3.0	XC	XC	0.79	296	198	148	119	98.8	74.1	237	158	119	94.8	79.0	59.3	
	4.0	VC	VC	0.91	341	228	171	137	114	85.3	273	182	137	109	91.0	68.3	
	5.0	VC	VC	1.02	383	255	191	153	128	95.6	306	204	153	122	102	76.5	
	6.0	VC	C	1.12	420	280	210	168	140	105	336	224	168	134	112	84.0	
	7.0	C	C	1.21	454	303	227	182	151	113	363	242	182	145	121	90.8	
8.0	C	C	1.29	484	323	242	194	161	121	387	258	194	155	129	96.8		
025 (50)	2.0	UC	XC	0.81	304	203	152	122	101	75.9	243	162	122	97.2	81.0	60.8	
	3.0	XC	XC	0.99	371	248	186	149	124	92.8	297	198	149	119	99.0	74.3	
	4.0	XC	VC	1.14	428	285	214	171	143	107	342	228	171	137	114	85.5	
	5.0	VC	VC	1.28	480	320	240	192	160	120	384	256	192	154	128	96.0	
	6.0	VC	C	1.40	525	350	263	210	175	131	420	280	210	168	140	105	
	7.0	VC	C	1.51	566	378	283	227	189	142	453	302	227	181	151	113	
8.0	C	C	1.62	608	405	304	243	203	152	486	324	243	194	162	122		
03 (50)	2.0	UC	XC	0.96	360	240	180	144	120	90.0	288	192	144	115	96.0	72.0	
	3.0	XC	XC	1.18	443	295	221	177	148	111	354	236	177	142	118	88.5	
	4.0	XC	VC	1.36	510	340	255	204	170	128	408	272	204	163	136	102	
	5.0	VC	VC	1.52	570	380	285	228	190	143	456	304	228	182	152	114	
	6.0	VC	C	1.67	626	418	313	251	209	157	501	334	251	200	167	125	
	7.0	C	C	1.80	675	450	338	270	225	169	540	360	270	216	180	135	
8.0	C	C	1.93	724	483	362	290	241	181	579	386	290	232	193	145		
04 (50)	2.0	UC	XC	1.29	484	323	242	194	161	121	387	258	194	155	129	96.8	
	3.0	XC	XC	1.58	593	395	296	237	198	148	474	316	237	190	158	119	
	4.0	VC	VC	1.82	683	455	341	273	228	171	546	364	273	218	182	137	
	5.0	VC	VC	2.04	765	510	383	306	255	191	612	408	306	245	204	153	
	6.0	C	C	2.23	836	558	418	335	279	209	669	446	335	268	223	167	
	7.0	C	C	2.41	904	603	452	362	301	226	723	482	362	289	241	181	
8.0	C	C	2.58	968	645	484	387	323	242	774	516	387	310	258	194		
05 (50)	2.0	UC	XC	1.61	604	403	302	242	201	151	483	322	242	193	161	121	
	3.0	XC	XC	1.97	739	493	369	296	246	185	591	394	296	236	197	148	
	4.0	XC	VC	2.27	851	568	426	341	284	213	681	454	341	272	227	170	
	5.0	VC	VC	2.54	953	635	476	381	318	238	762	508	381	305	254	191	
	6.0	VC	VC	2.79	1046	698	523	419	349	262	837	558	419	335	279	209	
	7.0	VC	C	3.01	1129	753	564	452	376	282	903	602	452	361	301	226	
8.0	VC	C	3.22	1208	805	604	483	403	302	966	644	483	386	322	242		
06 (50)	2.0	UC	XC	1.94	728	485	364	291	243	182	582	388	291	233	194	146	
	3.0	XC	XC	2.37	889	593	444	356	296	222	711	474	356	284	237	178	
	4.0	XC	VC	2.74	1028	685	514	411	343	257	822	548	411	329	274	206	
	5.0	XC	VC	3.06	1148	765	574	459	383	287	918	612	459	367	306	230	
	6.0	VC	VC	3.35	1256	838	628	503	419	314	1005	670	503	402	335	251	
	7.0	VC	VC	3.62	1358	905	679	543	453	339	1086	724	543	434	362	272	
8.0	VC	VC	3.87	1451	968	726	581	484	363	1161	774	581	464	387	290		

Note: Always double check your application rates. Droplet size classification shown is based on ISO 25358. Droplet size classification standard is subject to changes. Tabulations are based on spraying water at 70°F (21°C).

HOW TO ORDER

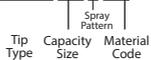
Stainless Steel with VisiFlo color-coding

A18004VS



Stainless Steel with VisiFlo color-coding

A16504EVS



TEEJET NOZZLE BODIES & ACCESORIES



191500
**DYNAJET®
VALVE**



116950
**ECOSTOP™
VALVE**



116280
**DYNAJET®
HIGH FLOW
VALVE**

DynaJet valves are a solenoid-actuated shutoff compatible with a wide range of TeeJet® nozzle bodies equipped with a diaphragm check valve. It is primarily intended to use with PWM control systems. EcoStop valve is designed for tip shutoff in individual nozzle control applications, such as Target Spraying.



QJS



24216A



QJ17560A



QJ-PTC



QJ22187

* For more details, see the latest TeeJet Catalog or visit www.teejet.com

QJ30 QUICK TEEJET® 30° OUTLET ADAPTER

- Optimized flow passage for improved spray tip shutoff performance and clean out
- Nylon body construction for strength and durability, with EPDM gasket (FKM Optional)
- Lugs are designed to maintain parallel alignment of spray pattern and the boom
- Fits standard Quick TeeJet nozzle bodies for easy use
- Maximum pressure: 20 bar



SPRAY TIPS AVAILABLE FOR TARGET SPRAY APPLICATION

TAPERED

15°

TP150025-SS
TP150033-SS
TP150050-SS
TP150067-SS

TP1501-SS
TP15015-SS
TP1502-SS
TP1503-SS
TP1504-SS
TP1505-SS
TP1506-SS
TP1508-SS

25°

TP250025-SS
TP250033-SS
TP250050-SS
TP250067-SS
TP2501-SS
TP25015-SS
TP2502-SS
TP2503-SS
TP2504-SS
TP2505-SS
TP25055-SS
TP2506-SS
TP2508-SS

30°

TP3003-SS

TP3004-SS
TP3005-SS
DG3003-SS
DG3004-SS

40°

TP400025-SS
TP400033-SS
TP400050-SS
TP400067-SS
TP4001-SS
TP40015-SS
TP4002-SS
TP4003-SS
TP4004-SS
TP4005-SS
TP4006-SS
TP4008-SS
DG4003-SS
DG4004-SS
DGX4003SS
DGX4004SS
DGX4005SS
DGX4006SS

50°

TP500025-SS
TP500033-SS
TP500050-SS
TP500067-SS
TP5001-SS
TP50015-SS
TP5002-SS

TP5003-SS
TP5004-SS
TP5005-SS
TP5006-SS
TP5008-SS

65°

TP650025-SS
TP650033-SS
TP650050-SS
TP650067-SS
TP6501-SS
TP65015-SS
TP6502-SS
TP65025-SS
TP6503-SS
TP6504-SS
TP6505-SS
TP6506-SS
TP6508-SS
DG65055-SS
DGX6503SS
DGX6504SS
DGX6505SS
DGX6506SS

80°

TP800050-SS
TP800067-SS
TP8001-SS
TP80015-SS

TP8002-SS
TP8003-SS
TP8004-SS
TP8005-SS
TP8006-SS
TP8008-SS
DG80015VS
DG8002VS
DG8003VS
DG8004VS
DG8005VS
A180015VS
A18002VS
A18003VS
A18004VS
A18005VS
A18006VS
A1XR80015VK
A1XR8002VK
A1XR80025VK
A1XR8003VK
A1XR8004VK
A1XR8005VK

95°

TP950050-SS
TP950067-SS
TP9501-SS
TP9502-SS
TP95025-SS
TP9503-SS
TP9504-SS

TP9505-SS
TP9506-SS
TP9508-SS

110°

TP1100033-SS
TP1100050-SS
TP1100067-SS
TP11001-SS
TP110015-SS
TP11002-SS
TP110025-SS
TP11003-SS
TP11004-SS
TP11005-SS
TP11006-SS
TP11008-SS
A1XR110015VP
A1XR11002VP
A1XR110025VP
A1XR11003VP
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A1XR11005VP
A1XR11006VP
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A1XR110015VK
A1XR11002VK
A1XR110025VK
A1XR11003VK
A1XR11004VK
A1XR11005VK
A1XR11006VK

EVEN

30°

TP3002E-SS
TP3003E-SS

40°

TP4001E-SS
TP40015E-SS
TP4002E-SS
TP4003E-SS
TP4004E-SS
TP4005E-SS
TP4006E-SS

50°

TP5001E-SS
TP50015E-SS
TP5002E-SS
TP5003E-SS
TP5004E-SS
TP5005E-SS
TP5006E-SS

65°

TP6501E-SS

TP65015E-SS
TP6502E-SS
TP6503E-SS
TP6504E-SS
TP6505E-SS
TP6506E-SS
TP6508E-SS
A16502EVS
A165025EVS
A16503EVS
A16504EVS
A16505EVS

A16506EVS

80°

TP8001E-SS
TP80015E-SS
TP8002E-SS
TP8003E-SS
TP8004E-SS
TP8005E-SS
TP8006E-SS
TP8008E-SS

95°

TP9501EVS
TP95015EVS
TP9502EVS
TPU9503EVS
TP9504EVS
TPU9505EVS
TP9506EVS
TP9508EVS

Additional capacities and spray angles may be available. Contact your TeeJet representative for more information



TeeJet[®]
TECHNOLOGIES

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LI-TJ458M