TeeJet® TECHNOLOGIES

SPRAY TIP SELECTION GUIDE FOR TARGETED SPRAY APPLICATIONS

INTRODUCTION TO TARGETED SPRAY

Targeted 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 targeted 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 have direct impact on the applied application rate. 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 targeted 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 Targeted 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*	HERBICIDE POST-EMERGENCE CONTACT	HERBICIDE POST-EMERGENCE SYSTEMIC
VF F M C VC XC UC		
 *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, and (UC) Ultra Coarse.

2. Calculate the correct spray tip capacity

To determine the correct spray tip capacity, you must consider the operating speed, target application rate, and spray tip spacing or band width, which depends on the type of spray tip used—whether it produces a tapered or even spray pattern, respectively.

Examples:

A. For multiple spray tip activation – Tapered spray tips

Formula: $GPM = \frac{GPA \times MPH \times W}{5{,}940} = \frac{15 \times 12 \times 15}{5{,}940} = 0.45$ GPM (04 tip @ 50 PSI)

where GPA is the application rate, MPH is the operating speed, **W is the spray tip spacing (in) on the boom**, and 5,940 is the conversion factor.

B. For single spray tip activation – Even spray tips *

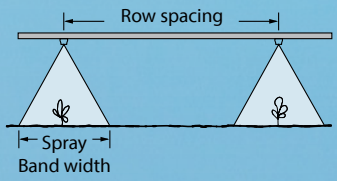
Formula: $GPM = \frac{GPA \times MPH \times W}{5{,}940} = \frac{15 \times 12 \times 25}{5{,}940} = 0.75$ GPM (06 tip @ 62.5 PSI)

where GPA is the application rate, MPH is the operating speed, **W is the spray tip band width (in)**, and 5,940 is the conversion factor.

* Also for single spray tip activation systems using tapered tips.

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

Width (in)	Height (in) 40°	65°	80°	GPA Conversion Factors* 10" spacing	15" spacing	20" spacing
3"	4"	2"	2"	3.33	5.00	6.67
6"	8"	5"	3"	1.67	2.50	3.33
8"	11"	6"	5"	1.25	1.88	2.50
10"	14"	8"	6"	1.00	1.50	2.00
12"	16"	9"	7"	0.83	1.25	1.67
15"	21"	12"	9"	0.67	1.00	1.33
20"	27"	16"	12"	0.50	0.75	1.00
25"	35"	20"	15"	0.40	0.60	0.80



Example:
Spray tip spacing: 10"
Band width = 8" (conversion factor = 1.25)
TP6503E-SS at 40 PSI at 6 MPH = 30 GPA
Corrected GPA = 30 x 1.25 = 47.5 GPA

3. Select the adequate nominal angle for the spray tip

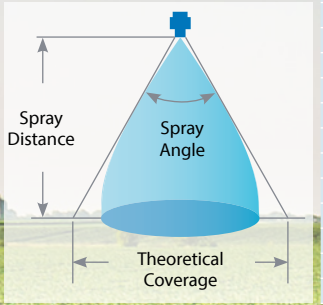
Most targeted spray technology offered today will come in varying boom configurations, tip spacing and orientation. These differences impact your decision when selecting the optimum angle for your tip.

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 (IN INCHES) 8"	10"	12"	15"	18"	24"	30"	36"
15°	2.1	2.6	3.2	3.9	4.7	6.3	7.9	9.5
20°	2.8	3.5	4.2	5.3	6.4	8.5	10.6	12.7
25°	3.5	4.4	5.3	6.6	8.0	10.6	13.3	15.9
30°	4.3	5.4	6.4	8.1	9.7	12.8	16.1	19.3
35°	5.0	6.3	7.6	9.5	11.3	15.5	18.9	22.7
40°	5.8	7.3	8.7	10.9	13.1	17.5	21.8	26.2
45°	6.6	8.3	9.9	12.4	14.9	19.9	24.8	29.8
50°	7.5	9.3	11.2	14.0	16.8	22.4	28.0	33.6
55°	8.3	10.3	12.5	15.6	18.7	25.0	31.2	37.5
60°	9.2	11.5	13.8	17.3	20.6	27.7	34.6	41.6
65°	10.2	12.7	15.3	19.2	22.9	30.5	38.2	45.8
73°	11.8	14.8	17.8	22.0	27.0	36.0	44.0	53.0
80°	13.4	16.8	20.2	25.2	30.3	40.3	50.4	60.4

Theoretical coverage

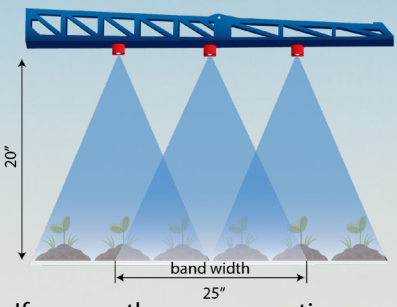
The proper theoretical band width is subject to change based on factors like operating pressure, tip nominal angle, and boom height. This aspect becomes even more critical when considering single tip activation or even tips, as the correct band width is essential for delivering the appropriate crop protection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

In the example below, we can compare the applied dose of a tapered and even spray tip with a 65º 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 15", resulting in an application rate of **0.45 GPM** 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 20" height provides a theoretical band width of 25". Based on this, the correct calculated capacity for the spray tip would be **0.75 GPM** (using an 06 tip at 62.5 PSI), rather than 0.45 GPM, where you would be under-applying by 0.30 GPM .

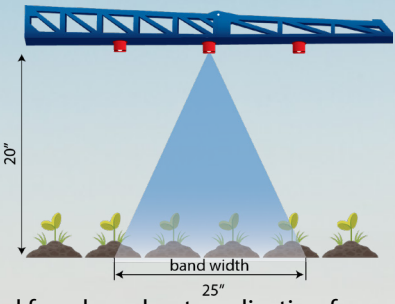
In the case of multiple tip activation with tapered spray tips, it is strongly suggested to have a minimum overlap of 100%* to guarantee the accurate delivery of the recommended dose.

When using tapered spray tips with single-tip activation, it is essential that the system is precisely calibrated to ensure the correct dose is delivered to the target. 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.

Multiple tip activation



Single tip activation



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 15 GPA.

GPA = (**0.45** x 5,940)/(12 x **25**) = 9 GPA ✗

GPA = (**0.75** x 5,940)/(12 x **25**) = 15 GPA ✓

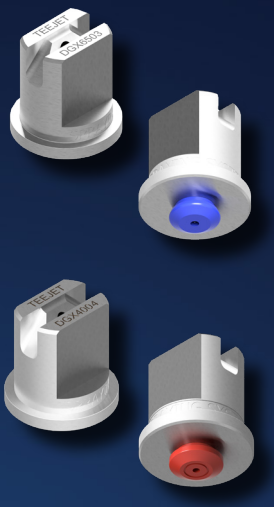
*** Spray tips should be positioned to achieve 100% pattern overlap, with the edge of each spray pattern aligning at the center of the adjacent nozzle.**

TARGETED SPRAY APPLICATIONS

DGX TEEJET®

DRIFT GUARD FLAT SPRAY TIPS

REDUCED DRIFT SPRAY TIP WITH SUPERIOR COVERAGE



The DGX65 is the first spray tip in our new X Series Targeted Spray tip line. It is engineered for precise application and exceptional coverage in targeted spraying. It is also now available in a 40° spray angle with a tapered spray pattern. Both angles are available in 4 capacity sizes, 03-06. The DGX is excellent for herbicide applications in targeted spraying and is highly versatile. *

Features & Benefits

- Designed for multi-nozzle broadcast targeted 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

SERIES

USE WITH:

HERBICIDE
SYSTEMIC
EXCELLENT

MATERIALS:
STAINLESS STEEL

SPRAY ANGLE:
40° AND 65°

PRESSURE:
20-70 PSI

SPRAY PATTERN:
TAPERED

DROP SIZE CLASSIFICATION:

VC Very Coarse
XC Extremely Coarse
UC Ultra Coarse

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

DGX SPRAY APPLICATION CHARTS

	PSI	DROP SIZE DGX40°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
03 (50)	20	UC	0.21	31	21	15.6	12.5	10.4	7.8
	30	UC	0.26	39	26	19.3	15.4	12.9	9.7
	40	UC	0.30	45	30	22	17.8	14.9	11.1
	50	XC	0.34	50	34	25	20	16.8	12.6
	60	XC	0.37	55	37	27	22	18.3	13.7
	70	XC	0.40	59	40	30	24	19.8	14.9
04 (50)	20	UC	0.28	42	28	21	16.6	13.9	10.4
	30	UC	0.35	52	35	26	21	17.3	13.0
	40	UC	0.40	59	40	30	24	19.8	14.9
	50	XC	0.45	67	45	33	27	22	16.7
	60	XC	0.49	73	49	36	29	24	18.2
	70	XC	0.53	79	52	39	31	26	19.7
05 (50)	20	UC	0.35	52	35	26	21	17.3	13.0
	30	UC	0.43	64	43	32	26	21	16.0
	40	UC	0.50	74	50	37	30	25	18.6
	50	XC	0.56	83	55	42	33	28	21
	60	XC	0.61	91	60	45	36	30	23
	70	XC	0.66	98	65	49	39	33	25
06 (50)	20	UC	0.42	62	42	31	25	21	15.6
	30	UC	0.52	77	51	39	31	26	19.3
	40	XC	0.60	89	59	45	36	30	22
	50	XC	0.67	99	66	50	40	33	25
	60	XC	0.73	108	72	54	43	36	27
	70	VC	0.79	117	78	59	47	39	29

HOW TO ORDER

Stainless Steel with VisiFlo color-coding

DGX 6503 SS

Tip Type | Spray Angle | Capacity Size | Material Code

	PSI	DROP SIZE DGX65°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
03 (50)	20	UC	0.21	31	21	15.6	12.5	10.4	7.8	21	13.9	10.4	8.3	6.9	5.2
	30	UC	0.26	39	26	19.3	15.4	12.9	9.7	26	17.2	12.9	10.3	8.6	6.4
	40	XC	0.30	45	30	22	17.8	14.9	11.1	30	19.8	14.9	11.9	9.9	7.4
	50	XC	0.34	50	34	25	20	16.8	12.6	34	22	16.8	13.5	11.2	8.4
	60	XC	0.37	55	37	27	22	18.3	13.7	37	24	18.3	14.7	12.2	9.2
	70	VC	0.40	59	40	30	24	19.8	14.9	40	26	19.8	15.8	13.2	9.9
04 (50)	20	UC	0.28	42	28	21	16.6	13.9	10.4	28	18.5	13.9	11.1	9.2	6.9
	30	XC	0.35	52	35	26	21	17.3	13.0	35	23	17.3	13.9	11.6	8.7
	40	XC	0.40	59	40	30	24	19.8	14.9	40	26	19.8	15.8	13.2	9.9
	50	XC	0.45	67	45	33	27	22	16.7	45	30	22	17.8	14.9	11.1
	60	VC	0.49	73	49	36	29	24	18.2	49	32	24	19.4	16.2	12.1
	70	VC	0.53	79	52	39	31	26	19.7	52	35	26	21	17.5	13.1
05 (50)	20	UC	0.35	52	35	26	21	17.3	13.0	35	23	17.3	13.9	11.6	8.7
	30	XC	0.43	64	43	32	26	21	16.0	43	28	21	17.0	14.2	10.6
	40	XC	0.50	74	50	37	30	25	18.6	50	33	25	19.8	16.5	12.4
	50	XC	0.56	83	55	42	33	28	21	55	37	28	22	18.5	13.9
	60	VC	0.61	91	60	45	36	30	23	60	40	30	24	20	15.1
	70	VC	0.66	98	65	49	39	33	25	65	44	33	26	22	16.3
06 (50)	20	UC	0.42	62	42	31	25	21	15.6	42	28	21	16.6	13.9	10.4
	30	XC	0.52	77	51	39	31	26	19.3	51	34	26	21	17.2	12.9
	40	XC	0.60	89	59	45	36	30	22	59	40	30	24	19.8	14.9
	50	VC	0.67	99	66	50	40	33	25	66	44	33	27	22	16.6
	60	VC	0.73	108	72	54	43	36	27	72	48	36	29	24	18.1
	70	VC	0.79	117	78	59	47	39	29	78	52	39	31	26	19.6

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).

TARGETED SPRAY APPLICATIONS

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 targeted 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
- Available in Stainless steel with VisiFlo® color-coding and Stainless Steel

USE WITH:

HERBICIDE	
CONTACT	EXCELLENT
SYSTEMIC	EXCELLENT

MATERIALS:
VS STAINLESS STEEL
VP POLYMER

SPRAY ANGLE:
30°, 40°, 65° AND 80°

PRESSURE:
30- 60 PSI

SPRAY PATTERN:
TAPERED

DROP SIZE CLASSIFICATION:

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

	PSI	DROP SIZE DG30°	DROP SIZE DG40°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
03 (50)	30	XC	VC	0.26	39	26	19.3	15.4	12.9	9.7
	40	VC	VC	0.30	45	30	22	17.8	14.9	11.1
	50	VC	C	0.34	50	34	25	20	16.8	12.6
	60	C	C	0.37	55	37	27	22	18.3	13.7
04 (50)	30	XC	VC	0.35	52	35	26	21	17.3	13.0
	40	VC	VC	0.40	59	40	30	24	19.8	14.9
	50	C	C	0.45	67	45	33	27	22	16.7
	60	C	C	0.49	73	49	36	29	24	18.2

HOW TO ORDER

Stainless Steel with VisiFlo color-coding

DG 8002 VS

Tip Type | Spray Angle | Capacity Size | Material Code

	PSI	DROP SIZE DG65°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
02 (50)	30	M	0.17	25	16.8	12.6	10.1	8.4	6.3	16.8	11.2	8.4	6.7	5.6	4.2
	40	M	0.20	30	19.8	14.9	11.9	9.9	7.4	19.8	13.2	9.9	7.9	6.6	5.0
	50	M	0.22	33	22	16.3	13.1	10.9	8.2	22	14.5	10.9	8.7	7.3	5.4
	60	F	0.24	36	24	17.8	14.3	11.9	8.9	24	15.8	11.9	9.5	7.9	5.9
03 (50)	30	VC	0.26	39	26	19.3	15.4	12.9	9.7	26	17.2	12.9	10.3	8.6	6.4
	40	C	0.30	45	30	22	17.8	14.9	11.1	30	19.8	14.9	11.9	9.9	7.4
	50	C	0.34	50	34	25	20	16.8	12.6	34	22	16.8	13.5	11.2	8.4
	60	M	0.37	55	37	27	22	18.3	13.7	37	24	18.3	14.7	12.2	9.2
04 (50)	30	VC	0.35	52	35	26	21	17.3	13.0	35	23	17.3	13.9	11.6	8.7
	40	C	0.40	59	40	30	24	19.8	14.9	40	26	19.8	15.8	13.2	9.9
	50	C	0.45	67	45	33	27	22	16.7	45	30	22	17.8	14.9	11.1
	60	M	0.49	73	49	36	29	24	18.2	49	32	24	19.4	16.2	12.1
05 (50)	30	VC	0.43	64	43	32	26	21	16.0	43	28	21	17.0	14.2	10.6
	40	C	0.50	74	50	37	30	25	18.6	50	33	25	19.8	16.5	12.4
	50	C	0.56	83	55	42	33	28	21	55	37	28	22	18.5	13.9
	60	M	0.61	91	60	45	36	30	23	60	40	30	24	20	15.1
055 (50)	30	VC	0.48	71	48	36	29	24	17.8	48	32	24	19.0	15.8	11.9
	40	VC	0.55	82	54	41	33	27	20	54	36	27	22	18.2	13.6
	50	VC	0.61	91	60	45	36	30	23	60	40	30	24	20	15.1
	60	C	0.67	99	66	50	40	33	25	66	44	33	27	22	16.6
06 (50)	30	VC	0.52	77	51	39	31	26	19.3	51	34	26	21	17.2	12.9
	40	VC	0.60	89	59	45	36	30	22	59	40	30	24	19.8	14.9
	50	C	0.67	99	66	50	40	33	25	66	44	33	27	22	16.6
	60	C	0.73	108	72	54	43	36	27	72	48	36	29	24	18.1
08 (50)	30	VC	0.69	102	68	51	41	34	26	68	46	34	27	23	17.1
	40	VC	0.80	119	79	59	48	40	30	79	53	40	32	26	19.8
	50	VC	0.89	132	88	66	53	44	33	88	59	44	35	29	22
	60	C	0.98	146	97	73	58	49	36	97	65	49	39	32	24
10 (50)	30	XC	0.87	129	86	65	52	43	32	86	57	43	34	29	22
	40	VC	1.00	149	99	74	59	50	37	99	66	50	40	33	25
	50	VC	1.12	166	111	83	67	55	42	111	74	55	44	37	28
	60	VC	1.22	181	121	91	72	60	45	121	81	60	48	40	30

Stainless Steel

DG 65 055 -SS

Tip Type | Spray Angle | Capacity Size | Material Code

	PSI	DROP SIZE DG80°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 20" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
015 (100)	30	M	0.13	12.9	8.6	6.4	5.1	4.3	3.2	9.7	6.4	4.8	3.9	3.2	2.4
	40	F	0.15	14.9	9.9	7.4	5.9	5.0	3.7	11.1	7.4	5.6	4.5	3.7	2.8
	50	F	0.17	16.8	11.2	8.4	6.7	5.6	4.2	12.6	8.4	6.3	5.0	4.2	3.2
	60	F	0.18	17.8	11.9	8.9	7.1	5.9	4.5	13.4	8.9	6.7	5.3	4.5	3.3
02 (50)	30	C	0.17	16.8	11.2	8.4	6.7	5.6	4.2	12.6	8.4	6.3	5.0	4.2	3.2
	40	M	0.20	19.8	13.2	9.9	7.9	6.6	5.0	14.9	9.9	7.4	5.9	5.0	3.7
	50	M	0.22	22	14.5	10.9	8.7	7.3	5.4	16.3	10.9	8.2	6.5	5.4	4.1
	60	M	0.24	24	15.8	11.9	9.5	7.9	5.9	17.8	11.9	8.9	7.1	5.9	4.5
03 (50)	30	C	0.26	26	17.2	12.9	10.3	8.6	6.4	19.3	12.9	9.7	7.7	6.4	4.8
	40	M	0.30	30	19.8	14.9	11.9	9.9	7.4	22	14.9	11.1	8.9	7.4	5.6
	50	M	0.34	34	22	16.8	13.5	11.2	8.4	25	16.8	12.6	10.1	8.4	6.3
	60	M	0.37	37	24	18.3	14.7	12.2	9.2	27	18.3	13.7	11.0	9.2	6.9
04 (50)	30	C	0.35	35	23	17.3	13.9	11.6	8.7	26	17.3	13.0	10.4	8.7	6.5
	40	M	0.40	40	26	19.8	15.8	13.2	9.9	30	19.8	14.9	11.9	9.9	7.4
	50	M	0.45	45	30	22	17.8	14.9	11.1	33	22	16.7	13.4	11.1	8.4
	60	M	0.49	49	32	24	19.4	16.2	12.1	36	24	18.2	14.6	12.1	9.1
05 (50)	30	C	0.43	43	28	21	17.0	14.2	10.6	32	21	16.0	12.8	10.6	8.0
	40	C	0.50	50	33	25	19.8	16.5	12.4	37	25	18.6	14.9	12.4	9.3
	50	M	0.56	55	37	28	22	18.5	13.9	42	28	21	16.6	13.9	10.4
	60	M	0.61	60	40	30	24	20	15.1	45	30	23	18.1	15.1	11.3

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).

TARGETED SPRAY APPLICATIONS

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:

HERBICIDE
CONTACT
VERY GOOD
SYSTEMIC
GOOD

MATERIALS:

VS **STAINLESS STEEL**

VP **POLYMER**

SPRAY ANGLE:

15°, 25°, 30°, 40°, 65° AND 80°

TP150033VS, TP150050VS, TP250025VS, TP250050VS, TP400050VS ARE NOW AVAILABLE IN VISIFLO® COLOR-CODING IN STAINLESS STEEL

PRESSURE:

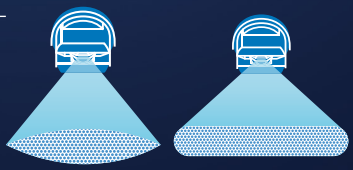
30 - 60 PSI

SPRAY PATTERN:

TAPERED AND EVEN

DROP SIZE CLASSIFICATION:

F	M	C	VC
Fine	Medium	Coarse	Very Coarse



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

TP SPRAY APPLICATION CHARTS

	PSI	DROP SIZE TP40°	TP40° E	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
02 (50)	30	M	M	0.17	25	16.8	12.6	10.1	8.4	6.3	16.8	11.2	8.4	6.7	5.6	4.2
	40	M	M	0.20	30	19.8	14.9	11.9	9.9	7.4	19.8	13.2	9.9	7.9	6.6	5.0
	60	F	F	0.24	36	24	17.8	14.3	11.9	8.9	24	15.8	11.9	9.5	7.9	5.9
03 (50)	30	C	C	0.26	39	26	19.3	15.4	12.9	9.7	26	17.2	12.9	10.3	8.6	6.4
	40	M	M	0.30	45	30	22	17.8	14.9	11.1	30	19.8	14.9	11.9	9.9	7.4
	60	M	M	0.37	55	37	27	22	18.3	13.7	37	24	18.3	14.7	12.2	9.2
04 (50)	30	C	C	0.35	52	35	26	21	17.3	13.0	35	23	17.3	13.9	11.6	8.7
	40	C	C	0.40	59	40	30	24	19.8	14.9	40	26	19.8	15.8	13.2	9.9
	60	M	M	0.49	73	49	36	29	24	18.2	49	32	24	19.4	16.2	12.1
05 (50)	30	VC	VC	0.43	64	43	32	26	21	16.0	43	28	21	17.0	14.2	10.6
	40	C	C	0.50	74	50	37	30	25	18.6	50	33	25	19.8	16.5	12.4
	60	M	M	0.61	91	60	45	36	30	23	60	40	30	24	20	15.1

	PSI	DROP SIZE TP65°	TP65° E	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 10" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
02 (50)	30	M	F	0.17	25	16.8	12.6	10.1	8.4	6.3	16.8	11.2	8.4	6.7	5.6	4.2
	40	F	F	0.20	30	19.8	14.9	11.9	9.9	7.4	19.8	13.2	9.9	7.9	6.6	5.0
	60	F	F	0.24	36	24	17.8	14.3	11.9	8.9	24	15.8	11.9	9.5	7.9	5.9
03 (50)	30	M	M	0.26	39	26	19.3	15.4	12.9	9.7	26	17.2	12.9	10.3	8.6	6.4
	40	M	M	0.30	45	30	22	17.8	14.9	11.1	30	19.8	14.9	11.9	9.9	7.4
	60	F	M	0.37	55	37	27	22	18.3	13.7	37	24	18.3	14.7	12.2	9.2
04 (50)	30	M	M	0.35	52	35	26	21	17.3	13.0	35	23	17.3	13.9	11.6	8.7
	40	M	M	0.40	59	40	30	24	19.8	14.9	40	26	19.8	15.8	13.2	9.9
	60	M	M	0.49	73	49	36	29	24	18.2	49	32	24	19.4	16.2	12.1
05 (50)	30	C	C	0.43	64	43	32	26	21	16.0	43	28	21	17.0	14.2	10.6
	40	M	M	0.50	74	50	37	30	25	18.6	50	33	25	19.8	16.5	12.4
	60	M	M	0.61	91	60	45	36	30	23	60	40	30	24	20	15.1
06 (50)	30	C	C	0.52	77	51	39	31	26	19.3	51	34	26	21	17.2	12.9
	40	C	C	0.60	89	59	45	36	30	22	59	40	30	24	19.8	14.9
	60	M	M	0.73	108	72	54	43	36	27	72	48	36	29	24	18.1

	PSI	DROP SIZE TP80°	TP80° E	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 20" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
02 (50)	30	M	F	0.17	16.8	11.2	8.4	6.7	5.6	4.2	12.6	8.4	6.3	5.0	4.2	3.2
	40	F	F	0.20	19.8	13.2	9.9	7.9	6.6	5.0	14.9	9.9	7.4	5.9	5.0	3.7
	60	F	F	0.24	24	15.8	11.9	9.5	7.9	5.9	17.8	11.9	8.9	7.1	5.9	4.5
03 (50)	30	M	M	0.26	26	17.2	12.9	10.3	8.6	6.4	19.3	12.9	9.7	7.7	6.4	4.8
	40	M	F	0.30	30	19.8	14.9	11.9	9.9	7.4	22	14.9	11.1	8.9	7.4	5.6
	60	F	F	0.37	37	24	18.3	14.7	12.2	9.2	27	18.3	13.7	11.0	9.2	6.9
04 (50)	30	M	M	0.35	35	23	17.3	13.9	11.6	8.7	26	17.3	13.0	10.4	8.7	6.5
	40	M	M	0.40	40	26	19.8	15.8	13.2	9.9	30	19.8	14.9	11.9	9.9	7.4
	60	F	F	0.49	49	32	24	19.4	16.2	12.1	36	24	18.2	14.6	12.1	9.1
05 (50)	30	M	M	0.43	43	28	21	17.0	14.2	10.6	32	21	16.0	12.8	10.6	8.0
	40	M	M	0.50	50	33	25	19.8	16.5	12.4	37	25	18.6	14.9	12.4	9.3
	60	M	M	0.61	60	40	30	24	20	15.1	45	30	23	18.1	15.1	11.3
06 (50)	30	C	C	0.52	51	34	26	21	17.2	12.9	39	26	19.3	15.4	12.9	9.7
	40	M	M	0.60	59	40	30	24	19.8	14.9	45	30	22	17.8	14.9	11.1
	60	M	M	0.73	72	48	36	29	24	18.1	54	36	27	22	18.1	13.6

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).

TARGETED SPRAY APPLICATIONS

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 targeted 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

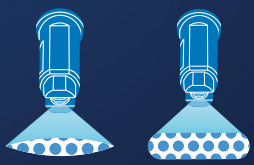
SPRAY ANGLE:
AI 80° TAPERED
AI 65° EVEN

PRESSURE:
30 - 115 PSI

SPRAY PATTERN:
TAPERED AND EVEN

DROP SIZE CLASSIFICATION:

C	VC	XC	UC
Coarse	Very Coarse	Extremely Coarse	Ultra Coarse



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

AI APPLICATION CHART

	PSI	DROP SIZE 65° E	DROP SIZE 80°	CAPACITY ONE NOZZLE IN GPM	GALLONS PER ACRE (GPA) 15" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	GALLONS PER ACRE (GPA) 20" 4 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH
015 (100)	30	-	XC	0.13	12.9	8.6	6.4	5.1	4.3	3.2	9.7	6.4	4.8	3.9	3.2	2.4
	40	-	XC	0.15	14.9	9.9	7.4	5.9	5.0	3.7	11.1	7.4	5.6	4.5	3.7	2.8
	50	-	VC	0.17	16.8	11.2	8.4	6.7	5.6	4.2	12.6	8.4	6.3	5.0	4.2	3.2
	60	-	VC	0.18	17.8	11.9	8.9	7.1	5.9	4.5	13.4	8.9	6.7	5.3	4.5	3.3
	70	-	VC	0.20	19.8	13.2	9.9	7.9	6.6	5.0	14.9	9.9	7.4	5.9	5.0	3.7
	80	-	C	0.21	21	13.9	10.4	8.3	6.9	5.2	15.6	10.4	7.8	6.2	5.2	3.9
	90	-	C	0.23	23	15.2	11.4	9.1	7.6	5.7	17.1	11.4	8.5	6.8	5.7	4.3
02 (50)	30	UC	XC	0.17	16.8	11.2	8.4	6.7	5.6	4.2	12.6	8.4	6.3	5.0	4.2	3.2
	40	XC	XC	0.20	19.8	13.2	9.9	7.9	6.6	5.0	14.9	9.9	7.4	5.9	5.0	3.7
	50	XC	VC	0.22	22	14.5	10.9	8.7	7.3	5.4	16.3	10.9	8.2	6.5	5.4	4.1
	60	VC	VC	0.24	24	15.8	11.9	9.5	7.9	5.9	17.8	11.9	8.9	7.1	5.9	4.5
	70	VC	VC	0.26	26	17.2	12.9	10.3	8.6	6.4	19.3	12.9	9.7	7.7	6.4	4.8
	80	VC	VC	0.28	28	18.5	13.9	11.1	9.2	6.9	21	13.9	10.4	8.3	6.9	5.2
	90	VC	C	0.30	30	19.8	14.9	11.9	9.9	7.4	22	14.9	11.1	8.9	7.4	5.6
025 (50)	30	UC	XC	0.22	22	14.5	10.9	8.7	7.3	5.4	16.3	10.9	8.2	6.5	5.4	4.1
	40	XC	XC	0.25	25	16.5	12.4	9.9	8.3	6.2	18.6	12.4	9.3	7.4	6.2	4.6
	50	XC	VC	0.28	28	18.5	13.9	11.1	9.2	6.9	21	13.9	10.4	8.3	6.9	5.2
	60	VC	VC	0.31	31	20	15.3	12.3	10.2	7.7	23	15.3	11.5	9.2	7.7	5.8
	70	VC	VC	0.33	33	22	16.3	13.1	10.9	8.2	25	16.3	12.3	9.8	8.2	6.1
	80	VC	VC	0.35	35	23	17.3	13.9	11.6	8.7	26	17.3	13.0	10.4	8.7	6.5
	90	VC	C	0.38	38	25	18.8	15.0	12.5	9.4	28	18.8	14.1	11.3	9.4	7.1
03 (50)	30	UC	XC	0.26	26	17.2	12.9	10.3	8.6	6.4	19.3	12.9	9.7	7.7	6.4	4.8
	40	XC	XC	0.30	30	19.8	14.9	11.9	9.9	7.4	22	14.9	11.1	8.9	7.4	5.6
	50	XC	VC	0.34	34	22	16.8	13.5	11.2	8.4	25	16.8	12.6	10.1	8.4	6.3
	60	VC	VC	0.37	37	24	18.3	14.7	12.2	9.2	27	18.3	13.7	11.0	9.2	6.9
	70	VC	VC	0.40	40	26	19.8	15.8	13.2	9.9	30	19.8	14.9	11.9	9.9	7.4
	80	VC	VC	0.42	42	28	21	16.6	13.9	10.4	31	21	15.6	12.5	10.4	7.8
	90	VC	C	0.45	45	30	22	17.8	14.9	11.1	33	22	16.7	13.4	11.1	8.4
04 (50)	30	UC	XC	0.35	35	23	17.3	13.9	11.6	8.7	26	17.3	13.0	10.4	8.7	6.5
	40	XC	XC	0.40	40	26	19.8	15.8	13.2	9.9	30	19.8	14.9	11.9	9.9	7.4
	50	XC	VC	0.45	45	30	22	17.8	14.9	11.1	33	22	16.7	13.4	11.1	8.4
	60	VC	VC	0.49	49	32	24	19.4	16.2	12.1	36	24	18.2	14.6	12.1	9.1
	70	VC	VC	0.53	52	35	26	21	17.5	13.1	39	26	19.7	15.7	13.1	9.8
	80	VC	VC	0.57	56	38	28	23	18.8	14.1	42	28	21	16.9	14.1	10.6
	90	C	C	0.60	59	40	30	24	19.8	14.9	45	30	22	17.8	14.9	11.1
05 (50)	30	UC	XC	0.43	43	28	21	17.0	14.2	10.6	32	21	16.0	12.8	10.6	8.0
	40	XC	XC	0.50	50	33	25	19.8	16.5	12.4	37	25	18.6	14.9	12.4	9.3
	50	XC	VC	0.56	55	37	28	22	18.5	13.9	42	28	21	16.6	13.9	10.4
	60	XC	VC	0.61	60	40	30	24	20	15.1	45	30	23	18.1	15.1	11.3
	70	VC	VC	0.66	65	44	33	26	22	16.3	49	33	25	19.6	16.3	12.3
	80	VC	VC	0.71	70	47	35	28	23	17.6	53	35	26	21	17.6	13.2
	90	VC	C	0.75	74	50	37	30	25	18.6	56	37	28	22	18.6	13.9
06 (50)	30	UC	XC	0.52	51	34	26	21	17.2	12.9	39	26	19.3	15.4	12.9	9.7
	40	XC	XC	0.60	59	40	30	24	19.8	14.9	45	30	22	17.8	14.9	11.1
	50	XC	XC	0.67	66	44	33	27	22	16.6	50	33	25	19.9	16.6	12.4
	60	XC	VC	0.73	72	48	36	29	24	18.1	54	36	27	22	18.1	13.6
	70	XC	VC	0.79	78	52	39	31	26	19.6	59	39	29	23	19.6	14.7
	80	VC	VC	0.85	84	56	42	34	28	21	63	42	32	25	21	15.8
	90	VC	VC	0.90	89	59	45	36	30	22	67	45	33	27	22	16.7

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

AI8004VS

Tip Type | Spray Angle | Capacity Size | Material Code

Stainless Steel with VisiFlo color-coding

AI6504EVS

Tip Type | Capacity Size | Spray Pattern | Material Code

TARGETED SPRAY APPLICATION

TEEJET® NOZZLE BODIES & ACCESSORIES

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 Targeted 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 shut-off 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: 300 PSI**

SPRAY TIPS AVAILABLE FOR TARGETED SPRAY APPLICATION

Tapered

15°

TP150025-SS
TP150033-SS
TP150033VS
TP150050-SS
TP150050VS
TP150067-SS
TP1501-SS
TP15015-SS
TP1502-SS
TP1503-SS
TP1504-SS
TP1505-SS
TP1506-SS
TP1508-SS

25°

TP250025-SS
TP250025VS
TP250033-SS
TP250050-SS
TP250050VS
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
TP400050VS
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
AI80015VS
AI8002VS
AI8003VS
AI8004VS
AI8005VS
AI8006VS
AIXR80015VK
AIXR8002VK
AIXR80025VK
AIXR8003VK
AIXR8004VK
AIXR8005VK

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
AIXR110015VP
AIXR11002VP
AIXR110025VP
AIXR11003VP
AIXR11004VP
AIXR11005VP
AIXR11006VP
AIXR11008VP
AIXR110015VK
AIXR11002VK
AIXR110025VK
AIXR11003VK
AIXR11004VK
AIXR11005VK
AIXR11006VK

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
AI6502EVS
AI65025EVS
AI6503EVS
AI6504EVS
AI6505EVS
AI6506EVS

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

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