



# *TeeJet*<sup>®</sup>

TECHNOLOGIES

## Catalog 51-M

Leaders in precision application components, control system technology, and application data management.



[www.teejet.com](http://www.teejet.com)

A Subsidiary of  *Spraying Systems Co.*<sup>®</sup>

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COMPANY NEWS • PRODUCT INFORMATION  
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## TABLE OF CONTENTS

### Selection Guide

TeeJet® Broadcast Nozzle Selection Guide .....	2
TeeJet Specialty Application Nozzle Selection Guide .....	3
TeeJet Liquid Fertilizer Nozzle Selection Guide.....	4

### Broadcast Nozzles

Turbo TeeJet® Wide Angle Flat Spray Tips .....	5
AI XR TeeJet Air Induction Flat Spray Tips.....	6
AI TeeJet Air Induction Flat Spray Tips .....	7
AIC TeeJet Air Induction Flat Spray Tips.....	8
Turbo TeeJet Induction Flat Spray Tips .....	9
XR TeeJet® Extended Range Flat Spray Tips .....	10
XRC TeeJet Extended Range Flat Spray Tips.....	11
TeeJet VisiFlo® Flat Spray Tips .....	12
DG TeeJet® Drift Guard Flat Spray Tips.....	13
Turbo TwinJet® Twin Flat Spray Tips .....	14
Air Induction Turbo TwinJet Twin Flat Spray Tips.....	15
TwinJet® Twin Flat Spray Tips.....	16
Turbo TeeJet Duo Dual Polymer Flat Fan Spray Tips..	17
DG TwinJet® Drift Guard Twin Flat Spray Tips.....	18
Turbo FloodJet® Wide Angle Flat Spray Tips .....	19
FloodJet® Wide Angle Flat Spray Tips .....	20
Quick Turbo FloodJet Wide Angle Flat Spray Tips.....	21
TurfJet Wide Angle Flat Fan Spray Nozzles.....	22
TeeJet Double Outlet Flat Spray Tips.....	23
TeeJet Off-Center Flat Spray Tips – Smaller Capacities.....	23
FullJet® Wide Angle Full Cone Spray Tips .....	24

### Boomless Nozzles

XP BoomJet® Boomless Flat Spray Nozzles .....	25
BoomJet® Boomless Nozzles with Extra Wide Flat Spray Projection .....	26
TeeJet Swivel Spray Nozzles with Off-Center Flat Spray Tips—Larger Capacities.....	26
FieldJet® Boomless Nozzles with Extra Wide Flat Spray Projection.....	27

### Banding Nozzles

ConeJet® VisiFlo Hollow Cone Spray Tips .....	28
AI TeeJet Air Induction Even Flat Spray Tips .....	29
DG TeeJet Drift Guard Even Flat Spray Tips .....	30
TeeJet Even Flat Spray Tips .....	31
TwinJet Even Flat Spray Tips .....	32
AIUB TeeJet Banding and Directed Spray Nozzles .....	33
TeeJet Full Cone Spray Tips .....	34
TeeJet UB—Underleaf Banding Spray Tips.....	34
ConeJet Ceramic VisiFlo Spray Tips .....	35

### Air Blast Nozzles

ConeJet VisiFlo Hollow Cone Spray Tips .....	36
ConeJet VisiFlo Hollow Cone Spray Tips .....	37
AITX ConeJet Air Induction Hollow Cone Spray Tip ...	38
ConeJet VisiFlo Hollow Cone Spray Tips .....	39
TeeJet VisiFlo Flat Spray Tips.....	39
TeeJet Disc-Core Type Hollow Cone Spray Tips.....	40
TeeJet Disc-Core Type Full Cone Spray Tips .....	41

### Fertilizer Nozzles

StreamJet SJ3 Fertilizer Nozzles.....	42
StreamJet SJ7 Fertilizer Nozzles.....	43
TeeJet Flow Regulators.....	44
StreamJet Solid Stream Spray Nozzles .....	45

### Tank Rinsing Nozzles

TeeJet Tank Rinsing Nozzles .....	46
TeeJet Container Rinsing Nozzles.....	46
TeeJet Eductor Nozzles .....	47
TeeJet Jet Agitators.....	47

### Boom Components

Quick TeeJet® Multiple Nozzle Body Assemblies for Dry Booms .....	48
TeeJet Vari-Spacing Clamps for Use on Dry Boom Quick TeeJet Bodies.....	48
Quick TeeJet Multiple Nozzle Body Assemblies for Dry Booms.....	49
Quick TeeJet Multiple Nozzle Body Assemblies .....	50
Quick TeeJet Multiple Nozzle Body Assemblies with Fertilizer Outlets for Dry Booms .....	50
Quick TeeJet Single Nozzle Bodies for Dry Booms.....	51
Quick TeeJet Multiple Nozzle Bodies for Wet Booms .....	52-53
Quick TeeJet Triple Nozzle Bodies for Wet Booms .....	54
Quick TeeJet Multiple Nozzle Body Assemblies with Fertilizer Outlets for Wet Booms.....	54
Quick TeeJet Multiple Nozzle Bodies for Wet Booms .....	55



Quick TeeJet Single Nozzle Bodies for Wet Booms ..... 56

Quick TeeJet Caps for Hardi® Nozzle Bodies..... 56

Quick TeeJet Caps ..... 57

Quick TeeJet Adapters and Accessories..... 58

TeeJet ChemSaver® Diaphragm Check Valves..... 59

TeeJet Nozzle Body ChemSaver Check Valves..... 60

TeeJet Speciality Fittings..... 61

TeeJet Row Application Kit ..... 61

TeeJet Swivel Nozzle Bodies ..... 62

TeeJet Hose Drops..... 62

TeeJet Hose Shank Nozzle Bodies..... 63

TeeJet Split Eyelet Nozzle Bodies ..... 63

TeeJet Nozzle Parts ..... 64-65

**Valves & Manifolds**

DirectoValve® B Style Electric Motors and Valves ..... 66

DirectoValve B Style Motors ..... 67

DirectoValve Electric Regulating Valves ..... 68

DirectoValve Flow Back Manifolds ..... 69

DirectoValve Electric Regulating Ball Valves..... 70-71

DirectoValve 344 Series Electric Shutoff Valves..... 72-73

DirectoValve 346 Series Shutoff Valves ..... 74-75

DirectoValve 356 Series Flanged Shutoff Valves..... 76-77

DirectoValve Normally-Open (Bypass) Valves ..... 78-79

DirectoValve 430 Series 2-Way Manifold ..... 80

DirectoValve 430 Series 3-Way Manifold ..... 81

DirectoValve 430 Series Flow Back Manifold ..... 82-83

DirectoValve Control Unit for TeeJet Controllers . 84-85

Individual 430 Manifold Accessories ..... 85

DirectoValve 440 Series Manifold Shutoff Valves ..... 86-87

DirectoValve 450 Series Shutoff Manifold ..... 88-89

DirectoValve 450 Series Flow Back Manifold ..... 90-91

DirectoValve 460 Series 2-Way Manifold ..... 92-93

DirectoValve 460 Series 3-Way Manifold ..... 94-95

DirectoValve 460 Series Flow Back Manifold ..... 96-97

DirectoValve 490 Series Shutoff Manifold ..... 98-99

DirectoValve 540 Series Shutoff Manifold ..... 100-101

DirectoValve Flange Fittings..... 102-103

DirectoValve Quick Connect Fittings..... 104

DirectoValve Electrical Connectors ..... 105

DirectoValve 2-Way Electrically Operated Solenoid Valves ..... 106

DirectoValve 3-Way Electrically Operated Solenoid Valves ..... 107

DirectoValve Solenoid Foam Marker Valves ..... 107

DirectoValve 340 Series 2-Way Manual Shutoff Ball Valves ..... 108

DirectoValve 340 Series 3-Way Manual Bypass Ball Valves ..... 109

DirectoValve Manual Pressure Relief/Regulating Valves..... 110

DirectoValve Manual Control Valves ..... 111

TeeValve® Control Valves ..... 111

TeeJet Throttling Valves ..... 111

**Strainers**

TeeJet Tip Strainers..... 112

TeeJet Line Strainers..... 112-115

**Spray Guns**

GunJet® Spray Guns ..... 116-117, 119

MeterJet® Spray Guns ..... 118

TeeJet Lawn Spray Guns..... 118

TriggerJet® Spray Guns ..... 120-121

ConeJet Adjustable Spray Tips..... 122

TeeJet Shutoff Valves and Spray Guns ..... 123

**Technical Information**

Formulas and Factors..... 124-125

Spray Coverage Information..... 125

Nozzle Nomenclature ..... 125

Universal Application Rate Chart ..... 126-127

Information About Spray Pressure ..... 128

Pressure Drop Through Sprayer Components..... 129

Area Measurement ..... 130

Sprayer Calibration ..... 131

Calibration/Adjustment Accessories ..... 132

Spray Tip Wear..... 133

Spray Distribution Quality ..... 134

Droplet Size and Drift Information ..... 135

Drop Size Classification ..... 136-137

Drift Causes and Control..... 138-139

Assesment of Nozzle Drift Control in Europe..... 140

















Plumbing Diagrams ..... 141

Notes..... 142-143

Terms and Conditions ..... 144



# TeeJet® Broadcast Nozzle Selection Guide

		HERBICIDES			FUNGICIDES		INSECTICIDES		DRIFT MANAGEMENT
		SOIL APPLIED	POST-EMERGENCE		CONTACT	SYSTEMIC	CONTACT	SYSTEMIC	
			CONTACT	SYSTEMIC					
	<b>Turbo TeeJet<sup>+</sup></b> Reference page 5		VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD
	<b>Turbo TeeJet<sup>+</sup></b> at pressures below 30 PSI (2.0 bar) Reference page 5	GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	VERY GOOD
	<b>Turbo TwinJet<sup>+</sup></b> Reference page 14	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	VERY GOOD
	<b>Turbo TwinJet<sup>+</sup></b> at pressures below 30 PSI (2.0 bar) Reference page 14	VERY GOOD	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	EXCELLENT
	<b>Turbo TeeJet<sup>+</sup> Induction</b> Reference page 9	EXCELLENT		EXCELLENT		EXCELLENT		EXCELLENT	EXCELLENT
	<b>Air Induction Turbo TwinJet<sup>+</sup></b> Reference page 15	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	EXCELLENT
	<b>XR, XRC TeeJet<sup>+</sup></b> Reference pages 10–11		EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	GOOD
	<b>XR, XRC TeeJet<sup>+</sup></b> at pressures below 30 PSI (2.0 bar) Reference pages 10–11	GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD	VERY GOOD
	<b>AIXR TeeJet<sup>+</sup></b> Reference page 6	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	EXCELLENT
	<b>AI, AIC TeeJet<sup>+</sup></b> Reference pages 7–8	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	EXCELLENT
	<b>TwinJet<sup>+</sup></b> Reference page 16		EXCELLENT		EXCELLENT		EXCELLENT		
	<b>DG TwinJet<sup>+</sup></b> Reference page 18	VERY GOOD	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD
	<b>Turbo FloodJet<sup>+</sup></b> Reference page 19	EXCELLENT		VERY GOOD		VERY GOOD		VERY GOOD	EXCELLENT
	<b>TurfJet<sup>+</sup></b> Reference page 22	EXCELLENT		EXCELLENT		EXCELLENT		EXCELLENT	EXCELLENT
	<b>QCTF Turbo FloodJet<sup>+</sup></b> Reference page 21	EXCELLENT							EXCELLENT
	<b>AirMatic<sup>®</sup> AirJet<sup>+</sup></b> Contact your regional sales office for additional information	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

**Note:** Consult the chemical manufacturer's product label for specific rate and application recommendations.



		HERBICIDES			FUNGICIDES		INSECTICIDES	
		PRE-EMERGENCE	POST-EMERGENCE		CONTACT	SYSTEMIC	CONTACT	SYSTEMIC
			CONTACT	SYSTEMIC				
BANDING	 <b>AI TeeJet<sup>EVEN</sup></b> Reference page 29	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 <b>TeeJet<sup>EVEN</sup></b> Reference page 31	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD
	 <b>TwinJet<sup>EVEN</sup></b> Reference page 32		EXCELLENT		EXCELLENT		EXCELLENT	
DIRECTED SPRAYING	 <b>AI TeeJet<sup>EVEN</sup></b> Reference page 29	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 <b>TeeJet<sup>EVEN</sup></b> Reference page 31	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
	 <b>TwinJet<sup>EVEN</sup></b> Reference page 32		VERY GOOD		VERY GOOD		VERY GOOD	
	 <b>AIUB TeeJet</b> Reference page 33		GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 <b>AITX ConeJet</b> Reference page 38		GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 <b>ConeJet</b> Reference pages 28 & 35		EXCELLENT		EXCELLENT		EXCELLENT	
AIR BLAST	 <b>ConeJet</b> Reference pages 36–37		EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
	 <b>Disc-Core</b> Reference pages 40–41		EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD

**Note:** Consult the chemical manufacturer's product label for specific rate and application recommendations.



	BROADCAST	DIRECTED
 <b>StreamJet</b> (7-ORIFICE) <i>Reference page 43</i>	EXCELLENT	VERY GOOD
 <b>StreamJet</b> (3-ORIFICE) <i>Reference page 42</i>	VERY GOOD	EXCELLENT
 <b>StreamJet</b> (SINGLE-ORIFICE) <i>Reference page 45</i>		EXCELLENT
 <b>CP4916</b> (ORIFICE PLATE) <i>Reference page 44</i>		EXCELLENT
 <b>TP TeeJet</b> (LARGE CAPACITY) <i>Reference page 12</i>	VERY GOOD	
 <b>AI TeeJet</b> <b>AIC TeeJet</b> (LOW VOLUME) <i>Reference pages 7-8</i>	VERY GOOD	
 <b>AIUB TeeJet</b> (LOW VOLUME) <i>Reference page 33</i>		VERY GOOD
 <b>Turbo TeeJet Induction</b> <i>Reference page 9</i>	EXCELLENT	
 <b>Turbo FloodJet</b> <i>Reference page 19</i>	EXCELLENT	
 <b>QCTF Turbo FloodJet</b> <i>Reference page 21</i>	EXCELLENT	

## LIQUID FERTILIZER APPLICATION

Just as in applying crop protection products, the proper application of liquid fertilizer is important. Delivering nutrients to the crop in a timely and effective manner while minimizing crop damage is essential. TeeJet Technologies offers an extensive selection of nozzles specifically designed to maximize the performance of your liquid fertilizer application.

Solid stream nozzles, offered in both single- and multiple-stream versions, are designed to deliver fertilizer to the soil surface where it can be effectively utilized by the crop. By creating solid liquid streams, these nozzles greatly reduce foliar coverage in standing crop in order to minimize leaf burn. TeeJet Technologies StreamJet nozzles provide the ideal blend of compact, reliable design, ease of installation and affordable pricing.

In some cases, the use of a broadcast nozzle for fertilizer application may be desirable. This could include combined fertilizer/pesticide applications, foliar feeding or broadcast liquid fertilization of bare ground. For these applications TeeJet Technologies offers a wide variety of low drift, flat spray nozzles.

## Liquid Density Conversion

When selecting a specific capacity tip for liquid fertilizer application, always correct for liquid density. Application charts shown in this catalog are based on spraying water. Many fertilizer solutions are denser than water, which will affect the application rate. Please see page 125 for a list of density conversion factors.

### Example:

Desired application rate is 100 l/ha of a liquid that has a density of 1.28 kg/l. Determine the correct nozzle size as follow:

$l/ha$  (liquid other than water)  $\times$  Conversion Factor =  $l/ha$  (from table in catalog)

$100 l/ha$  (1.28 kg/l solution)  $\times$  1.13 = 113 l/ha (water)

The applicator should choose a nozzle size that will supply 113 l/ha of water at the desired pressure.



**Note:** Consult the chemical manufacturer's product label for specific rate and application recommendations.

# Turbo TeeJet® Wide Angle Flat Spray Tips



## Typical Applications:

See selection guide on page 2 for recommended typical applications for Turbo TeeJet tips.

## Features:

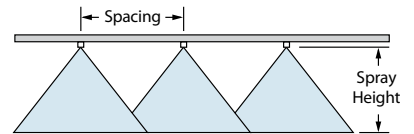
- Tapered edge wide angle flat spray pattern for uniform coverage in broadcast spraying.
- Large, rounded internal passage to minimize clogging.
- Excellent resistance to corrosive solutions.
- Superior wear characteristics.
- Larger droplets for less drift—15–90 PSI (1–6 bar).
- Automatic spray alignment with 25612-<sup>\*</sup>-NYR Quick TeeJet® cap and gasket. Reference page 57 for more information.
- Blockage-free passage means less clogging.
- Unique internal configuration means substantially longer wear life.



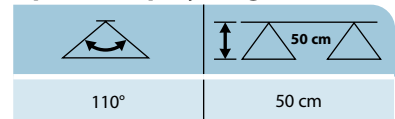
Icon	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	l/ha  50cm													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
TT11001 (100)	1.0	C	0.23	69.0	55.2	46.0	39.4	34.5	27.6	23.0	17.3	15.3	13.8	11.0	9.2	7.9	
	2.0	M	0.32	96.0	76.8	64.0	54.9	48.0	38.4	32.0	24.0	21.3	19.2	15.4	12.8	11.0	
	3.0	F	0.39	117	93.6	78.0	66.9	58.5	46.8	39.0	29.3	26.0	23.4	18.7	15.6	13.4	
	4.0	F	0.45	135	108	90.0	77.1	67.5	54.0	45.0	33.8	30.0	27.0	21.6	18.0	15.4	
	5.0	F	0.50	150	120	100	85.7	75.0	60.0	50.0	37.5	33.3	30.0	24.0	20.0	17.1	
6.0	F	0.55	165	132	110	94.3	82.5	66.0	55.0	41.3	36.7	33.0	26.4	22.0	18.9		
TT110015 (100)	1.0	C	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7	
	2.0	M	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5	
	3.0	M	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2	
	4.0	M	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	5.0	F	0.76	228	182	152	130	114	91.2	76.0	57.0	50.7	45.6	36.5	30.4	26.1	
6.0	F	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5		
TT11002 (50)	1.0	C	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8	
	2.0	C	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
	3.0	M	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
	4.0	M	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	M	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
6.0	F	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4		
TT110025 (50)	1.0	VC	0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5	
	2.0	C	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8	
	3.0	M	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	M	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	M	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
6.0	M	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0		
TT11003 (50)	1.0	VC	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	2.0	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	C	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	M	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	M	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
6.0	M	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3		
TT11004 (50)	1.0	XC	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	2.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	C	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	C	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	M	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
6.0	M	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5		
TT11005 (50)	1.0	XC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	2.0	VC	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	C	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	C	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	C	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
6.0	M	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7		
TT11006 (50)	1.0	XC	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0	
	2.0	VC	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	3.0	C	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	4.0	C	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	5.0	C	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	
6.0	M	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115		
TT11008 (50)	1.0	XC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	2.0	VC	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5	
	3.0	C	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108	
	4.0	C	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125	
	5.0	C	4.08	1224	979	816	699	612	490	408	306	272	245	196	163	140	
6.0	M	4.47	1341	1073	894	766	671	536	447	335	298	268	215	179	153		

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	VERY GOOD	VERY GOOD
GOOD*	EXCELLENT*	VERY GOOD*

\*At pressures below 30 PSI (2.0 bar)



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

TT11001-VP – Polymer with VisiFlo® color-coding



# AIXR TeeJet® Air Induction XR Flat Spray Tips

## Typical Applications:

See selection guide on page 2 for recommended typical applications for AIXR TeeJet tips.

## Features:

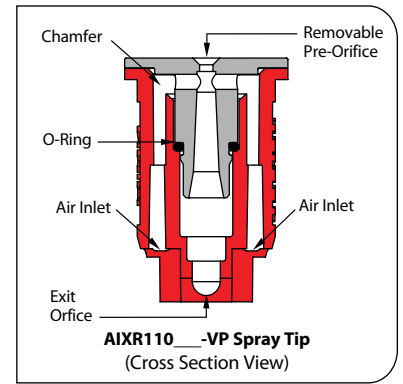
- 110° wide, tapered flat spray angle with air induction technology offers better drift management.
- Made of a two-piece UHMWPE polymer construction with VisiFlo® color-coding. UHMWPE provides excellent chemical resistance, including acids, as well as exceptional wear life.

- Compact size to prevent tip damage.
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator.
- Removable pre-orifice.
- Available in seven tip capacities with a wide operating pressure range: 15–90 PSI (1–6 bar).
- Automatic alignment when used with 25612-\*.N-VR Quick TeeJet® cap and gasket. Reference page 57 for more information.

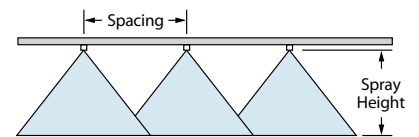


Tip Model	Pressure (bar)	Drop Size	Capacity One Nozzle (l/min)	Capacity (l/ha) @ 50cm													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
AIXR110015 (100)	1.0	XC	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7	
	2.0	VC	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5	
	3.0	C	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2	
	4.0	C	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	5.0	M	0.76	228	182	152	130	114	91.2	76.0	57.0	50.7	45.6	36.5	30.4	26.1	
6.0	M	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5		
AIXR11002 (50)	1.0	XC	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8	
	2.0	VC	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
	3.0	C	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
	4.0	C	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	C	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
6.0	M	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4		
AIXR110025 (50)	1.0	XC	0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5	
	2.0	XC	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8	
	3.0	VC	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	C	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	C	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
6.0	C	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0		
AIXR11003 (50)	1.0	XC	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	2.0	XC	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	VC	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	C	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	C	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
6.0	C	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3		
AIXR11004 (50)	1.0	UC	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	2.0	XC	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	VC	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	VC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	C	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
6.0	C	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5		
AIXR11005 (50)	1.0	UC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	2.0	XC	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	XC	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	VC	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	C	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
6.0	C	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7		
AIXR11006 (50)	1.0	UC	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0	
	2.0	XC	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	3.0	XC	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	4.0	VC	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	5.0	C	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	
6.0	C	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115		

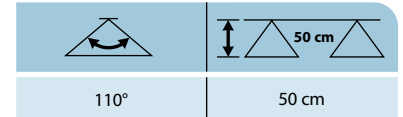
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

AIXR11004VP – Polymer with VisiFlo color-coding







# AIC TeeJet® Air Induction Flat Spray Tips

## Typical Applications:

See selection guide on page 2 for recommended typical applications for AIC TeeJet tips.

## Features:

- Produces a 110° tapered edge flat spray pattern for uniform coverage in broadcast spraying applications.
- Available with a polymer insert holder with stainless steel (015-15 capacities), ceramic (025-05 capacities) or polymer (02-10 capacities) inserts.
- Larger droplets for less drift.
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator.
- All TeeJet nozzle molded into Quick TeeJet® cap provides automatic spray alignment.
- Includes tightly fitting washer that stays put and assures a good seal.
- Recommended pressure rating 30-115 PSI (2-8 bar).

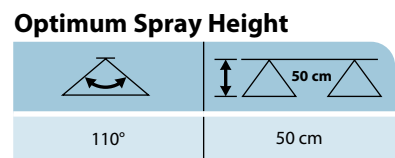
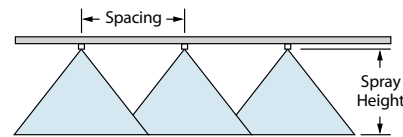


**Note:** Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

Nozzle Size	Drop Size (µm)	Capacity (l/min)	l/ha @ 50cm													
			4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
AIC110015 (100)			UC 0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
AIC11002 (50)			UC 0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
AIC110025 (50)			UC 0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8
AIC11003 (50)			UC 0.96	288	230	192	165	143	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
AIC11004 (50)			UC 1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
AIC11005 (50)			UC 1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
AIC11006 (50)			UC 1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
AIC11008 (50)			UC 2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
AIC11010			UC 3.23	969	775	646	554	485	388	323	242	215	194	155	129	111
AIC11015			UC 4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



- How to order:**  
Specify tip number.  
Examples:
- AIC11004-VS - Stainless Steel with VisiFlo® color-coding
  - AIC11003-VP - Polymer with VisiFlo color-coding
  - AIC11003-VK - Ceramic with VisiFlo color-coding

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124-140 for drop size classification, useful formulas and other information.

# Turbo TeeJet® Induction Flat Spray Tips

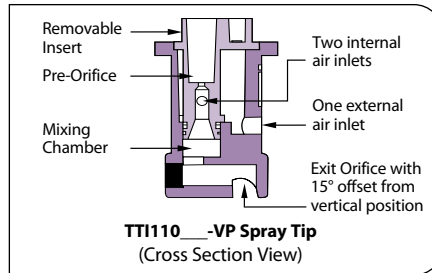


## Typical Applications:

See selection guide on page 2 for recommended typical applications for Turbo TeeJet Induction tips.

## Features:

- 110° wide angle, air induction, tapered flat spray tip pattern based on the patented outlet orifice design of the original Turbo TeeJet® nozzle.
- Patented orifice design provides large, round passages to minimize plugging.
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator resulting in less drift.
- All polymer construction for excellent chemical and wear resistance.
- Compact size to prevent tip damage.
- Removable pre-orifice.
- Ideal for use with automatic sprayer controllers.



**Note:** Due to pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.



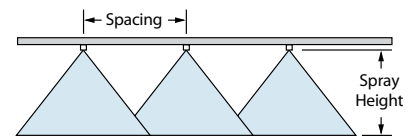
- Wide operating pressure range: 15–100 PSI (1–7 bar).
- Automatic alignment when used with 25598-\*/-NYR Quick TeeJet® cap and gasket. See page 57 for additional information.



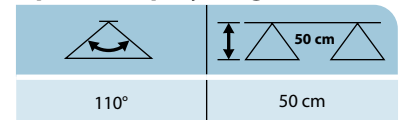
Tip Model	Pressure (bar)	Drop Size	Capacity One Nozzle (l/min)	I/ha (50cm)													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
TTI110015 (100)	1.0	UC	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7	
	2.0	UC	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5	
	3.0	UC	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2	
	4.0	XC	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	5.0	XC	0.76	228	182	152	130	114	91.2	76.0	57.0	50.7	45.6	36.5	30.4	26.1	
	6.0	XC	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5	
TTI11002 (50)	1.0	UC	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8	
	2.0	UC	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
	3.0	UC	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
	4.0	UC	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	XC	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
	6.0	XC	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
TTI110025 (50)	1.0	UC	0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5	
	2.0	UC	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8	
	3.0	UC	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	UC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	XC	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
	6.0	XC	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0	
TTI11003 (50)	1.0	UC	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
	2.0	UC	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	UC	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	UC	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	XC	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
	6.0	XC	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
TTI11004 (50)	1.0	UC	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	2.0	UC	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	UC	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	UC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	XC	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
	6.0	XC	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5	
TTI11005 (50)	1.0	UC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	2.0	UC	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	UC	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	UC	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	XC	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
	6.0	XC	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7	
TTI11006 (50)	1.0	UC	3.01	903	722	602	516	452	361	301	226	201	181	144	120	103	
	2.0	UC	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0	
	3.0	UC	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	4.0	UC	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	5.0	XC	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	6.0	XC	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

TTI11004-VP – Polymer with VisiFlo® color-coding



# XRC TeeJet® Extended Range Flat Spray Tips



## Typical Applications:

See selection guide on page 2 for recommended typical applications for XRC TeeJet tips.

## Features:

- Excellent spray distribution over a wide range of pressures—15–60 PSI (1–4 bar).
- Ideal for rigs equipped with sprayer controllers.
- Reduces drift at lower pressures, better coverage at higher pressures.

- 80° available in stainless steel (015, 02, 03–06 capacities) and ceramic (02, 03–08 capacities).
- 110° available in stainless steel (025–05 capacities), ceramic (02–08 capacities) and polymer (025–20 capacities).
- XR TeeJet tip molded into Quick TeeJet® cap provides automatic spray alignment.
- Includes tightly fitting washer that stays put and assures a good seal.



At 15 PSI (1 bar) Pressure

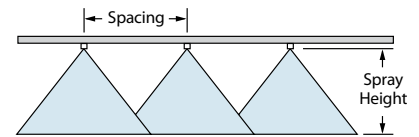
At 60 PSI (4 bar) Pressure

Icon	bar	DROP SIZE		CAPACITY ONE NOZZLE IN l/min	l/ha  50cm												
		80°	110°		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
		M	F		M	F	M	F	M	F	M	F	M	F	M	F	M
XRC80015 (100)	1.0	M		0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7
	1.5	M		0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8	14.4
	2.0	F		0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
	3.0	F		0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2
XRC8002 XRC11002 (50)	1.0	M	M	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8
	1.5	M	F	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2
	2.0	M	F	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
	3.0	F	F	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1
XRC110025 (50)	1.0	M		0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5
	1.5	M		0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0	24.0
	2.0	F		0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8
	3.0	F		0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9
XRC8003 XRC11003 (50)	1.0	M	M	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3
	1.5	M	M	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5
	2.0	M	F	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
	3.0	M	F	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
XRC8004 XRC11004 (50)	1.0	C	M	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2
	1.5	M	M	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4
	2.0	M	M	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
	3.0	M	M	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
XRC8005 XRC11005 (50)	1.0	C	C	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
	1.5	C	M	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6	47.7
	2.0	C	M	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
	3.0	M	M	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5
XRC8006 XRC11006 (50)	1.0	C	M	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8
	1.5	C	C	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0
	2.0	C	C	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6
	3.0	C	M	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
XRC8008 XRC11008 (50)	1.0	C	M	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
	1.0	VC	C	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
	1.5	VC	C	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5
	2.0	C	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
XRC11010	3.0	C	M	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108
	4.0	C	M	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125
	1.0	VC	C	2.28	684	547	456	391	342	274	228	171	152	137	109	91.2	78.2
	1.5	C		2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7
XRC11015	2.0	C		3.23	969	775	646	554	485	388	323	242	215	194	155	129	111
	3.0	C		3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135
	4.0	M		4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156
	1.0	XC		3.42	1026	821	684	586	513	410	342	257	228	205	164	137	117
XRC11020	1.5	XC		4.19	1257	1006	838	718	629	503	419	314	279	251	201	168	144
	2.0	VC		4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166
	3.0	C		5.92	1776	1421	1184	1015	888	710	592	444	395	355	284	237	203
	4.0	C		6.84	2052	1642	1368	1173	1026	821	684	513	456	410	328	274	235
XRC11020	1.0	XC		4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156
	1.5	XC		5.58	1674	1339	1116	957	837	670	558	419	372	335	268	223	191
	2.0	XC		6.44	1932	1546	1288	1104	966	773	644	483	429	386	309	258	221
	3.0	VC		7.89	2367	1894	1578	1353	1184	947	789	592	526	473	379	316	271
4.0	VC		9.11	2733	2186	1822	1562	1367	1093	911	683	607	547	437	364	312	



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	GOOD	GOOD
GOOD*	VERY GOOD*	VERY GOOD*

\*At pressures below 30 PSI (2.0 bar)



## Optimum Spray Height

Tip Angle	Optimum Spray Height
80°	75 cm
110°	50 cm

## How to order:

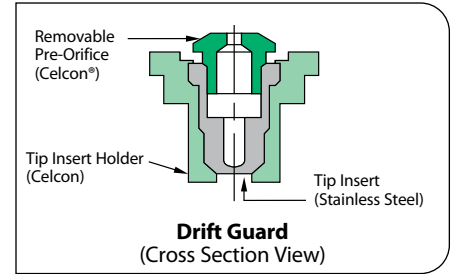
Specify tip number.

Examples:

- XRC11004-VS – Stainless Steel with VisiFlo® color-coding
- XRC11004-VP – Polymer with VisiFlo color-coding
- XRC11004-VK – Ceramic with VisiFlo color-coding

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.





**Note:** Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

## Features:

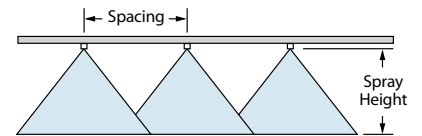
- Pre-orifice design produces larger droplets and reduces the small drift-prone droplets, minimizing off-target spray contamination.
- Tapered edge flat spray pattern provides uniform coverage when adjacent nozzle patterns are overlapped in broadcast spraying.
- The color-coded pre-orifice is removable for any necessary cleaning operations.
- Available in both 80° and 110° spray angles with a durable stainless steel orifice.
- Automatic spray alignment with 25612-\*-NYR Quick TeeJet® cap and gasket. Reference page 57 for more information.



Icon	bar	DROP SIZE		CAPACITY ONE NOZZLE IN l/min	I/ha $\Delta$ 50cm												
		80°	110°		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
DG80015† DG110015 (100)	2.0	M	M	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
	2.5	M	F	0.54	162	130	108	92.6	81.0	64.8	54.0	40.5	36.0	32.4	25.9	21.6	18.5
	3.0	M	F	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2
	4.0	M	F	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3
5.0	F	F	0.76	228	182	152	130	114	91.2	76.0	57.0	50.7	45.6	36.5	30.4	26.1	
DG8002† DG11002 (50)	2.0	C	M	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
	2.5	M	M	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7
	3.0	M	M	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1
	4.0	M	M	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2
5.0	M	M	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
DG8003† DG11003 (50)	2.0	C	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
	2.5	M	M	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0
	3.0	M	M	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
	4.0	M	M	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6
5.0	M	M	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
DG8004† DG11004 (50)	2.0	C	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
	2.5	C	C	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4
	3.0	M	M	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
	4.0	M	M	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
5.0	M	M	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
DG8005† DG11005 (50)	2.0	C	C	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
	2.5	C	C	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7
	3.0	C	C	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5
	4.0	M	M	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8
5.0	M	M	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

† Available in VisiFlo stainless steel only.



## Optimum Spray Height

Angle	Optimum Spray Height
80°	75 cm
110°	50 cm

## How to order:

Specify tip number.

Examples:

- DG8002VS – Stainless Steel with VisiFlo® color-coding
- DG11002-VP – Polymer with VisiFlo color-coding



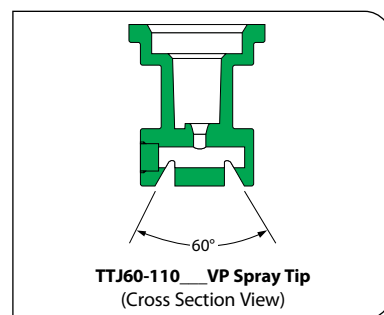
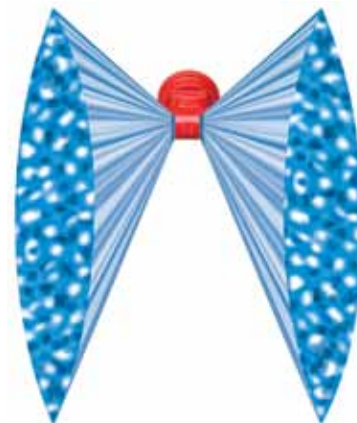
# Turbo TwinJet® Twin Flat Spray Tips

## Typical Applications:

See selection guide on page 2 for recommended typical applications for Turbo TwinJet tips.

## Features:

- Dual outlet design produces two 110° flat fan spray patterns using the patented technology from the Turbo TeeJet® nozzle. The angle between each spray pattern is 60° forward and back.
- Best suited for broadcast spraying where superior leaf coverage and canopy penetration is important.
- Droplet size range is slightly larger than for the same capacity Turbo TeeJet nozzle providing drift-reducing properties with increased canopy coverage and penetration.
- Molded polymer for excellent chemical and wear resistance.
- Available in six VisiFlo® color-coded capacities with pressure ranges from 20–90 PSI (1.5–6 bar).
- Ideal for use with automatic sprayer controllers.
- Automatic alignment when used with 25612-\*/-NYR Quick TeeJet® cap and gasket. See page 57 for additional information.

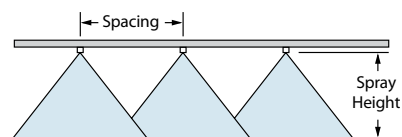


Icon	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	l/ha $\Delta$ 50cm													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
TTJ60-11002 (100)	1.5	C	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2	
	2.0	C	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
	3.0	C	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
	4.0	M	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	M	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
TTJ60-110025 (100)	1.5	VC	0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0	24.0	
	2.0	C	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8	
	3.0	C	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	C	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	M	1.28	384	304	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
TTJ60-11003 (100)	1.5	VC	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5	
	2.0	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	C	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	C	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	C	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
TTJ60-11004 (50)	1.5	VC	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
	2.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	C	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	C	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	C	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
TTJ60-11005 (50)	1.5	VC	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6	47.7	
	2.0	C	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	C	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	C	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	C	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
TTJ60-11006 (50)	1.5	XC	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6	
	2.0	VC	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	3.0	C	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	4.0	C	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	5.0	C	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	
6.0	C	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115		

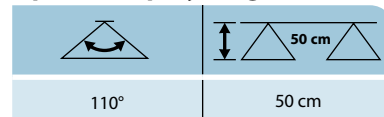
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

\*At pressures below 30 PSI (2.0 bar)



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

TTJ60-11004VP – Polymer with VisiFlo® color-coding



# Air Induction Turbo TwinJet® Twin Flat Spray Tips

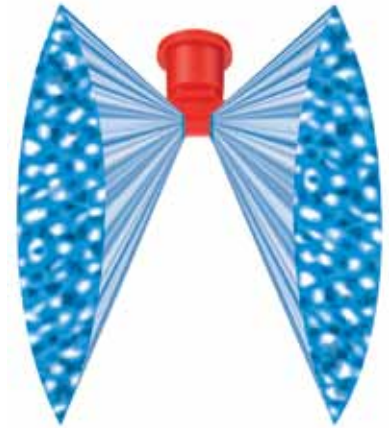


## Typical Applications:

See selection guide on page 2 for recommended typical applications for Air Induction Turbo TwinJet tips.

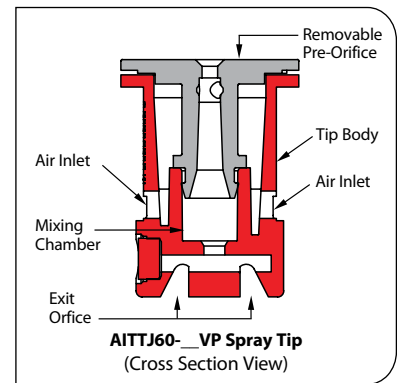
## Features:

- Air induction with dual 110° flat fan patterns
- 60° between leading and trailing spray patterns
- Good coverage with increased canopy penetration and best drift control
- Best suited for postemergence applications
- Excellent drift control with coarse to very coarse droplets
- Available in six VisiFlo® color coded capacities (02 through 06) – color represents total flow
- Pressure ranges from 20–90 PSI (1.5–6 bar)
- Automatic spray alignment when used with 25598\*-NYR Quick TeeJet® cap and gasket. See page 57 for additional information.

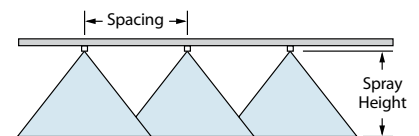


Icon	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	I/ha  50cm													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
AITTJ60-11002VP (100)	1.5	XC	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2	
	2.0	VC	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
	3.0	VC	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
	4.0	C	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	C	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
	6.0	C	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
AITTJ60-110025VP (100)	1.5	XC	0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0	24.0	
	2.0	VC	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8	
	3.0	VC	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	C	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	C	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
	6.0	C	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0	
AITTJ60-11003VP (50)	1.5	UC	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5	
	2.0	XC	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	VC	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	VC	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	C	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
	6.0	C	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
AITTJ60-11004VP (50)	1.5	UC	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
	2.0	XC	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	VC	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	VC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	C	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
	6.0	C	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5	
AITTJ60-11005VP (50)	1.5	UC	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6	47.7	
	2.0	XC	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	XC	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	VC	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	C	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
	6.0	C	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7	
AITTJ60-11006VP (50)	1.5	UC	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6	
	2.0	XC	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	3.0	XC	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	4.0	VC	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	5.0	C	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	
	6.0	C	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115	

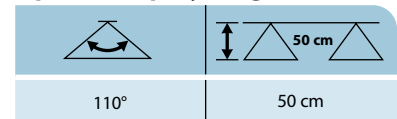
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

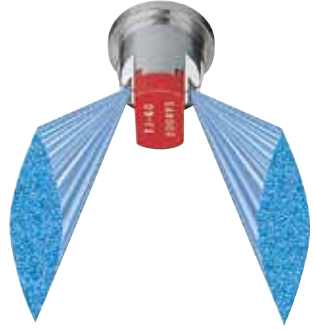
AITTJ60-11004VP – Polymer with VisiFlo® color-coding

## Typical Applications:

See selection guide on page 2 for recommended typical applications for TwinJet tips.

## Features:

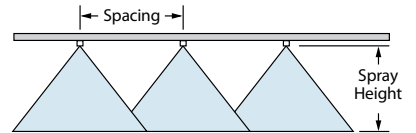
- Penetrates crop residue or dense foliage.
- Smaller droplets for thorough coverage.
- Better spray distribution along boom than with hollow cone nozzles.
- Available in stainless steel with VisiFlo® color-coding in 65°, 80° and 110° spray angles.
- Recommended pressure rating 30–60 PSI (2–4 bar).
- See page 32 for TwinJet even flat spray tips.
- Automatic spray alignment with 25598\*-NYR Quick TeeJet® cap and gasket. Reference page 57 for more information.
- Reference technical section, pages 135–140 for additional information on drift.



Icon	Clock icon	DROP SIZE		CAPACITY ONE NOZZLE IN l/min	l/ha														
		bar	<sup>80°</sup> <sub>110°</sub>		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h		
TJ60-6501 TJ60-8001 (100)	2.0	VF		0.32	96.0	76.8	64.0	54.9	48.0	38.4	32.0	24.0	21.3	19.2	15.4	12.8	11.0		
	2.5	VF		0.36	108	86.4	72.0	61.7	54.0	43.2	36.0	27.0	24.0	21.6	17.3	14.4	12.3		
	3.0	VF		0.39	117	93.6	78.0	66.9	58.5	46.8	39.0	29.3	26.0	23.4	18.7	15.6	13.4		
	3.5	VF		0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8	14.4		
TJ60-650134 (100)	2.0			0.43	129	103	86.0	73.7	64.5	51.6	43.0	32.3	28.7	25.8	20.6	17.2	14.7		
	2.5			0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5		
	3.0			0.53	159	127	106	90.9	79.5	63.6	53.0	39.8	35.3	31.8	25.4	21.2	18.2		
	3.5			0.57	171	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	27.4	22.8	19.5		
TJ60-6502 TJ60-8002 TJ60-11002 (100)	2.0	F	F	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3		
	2.5	F	VF	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7		
	3.0	F	VF	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1		
	3.5	F	VF	0.85	255	204	170	146	128	102	85.0	63.8	56.7	51.0	40.8	34.0	29.1		
TJ60-6503 TJ60-8003 TJ60-11003 (100)	2.0	F	F	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9		
	2.5	F	F	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0		
	3.0	F	F	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5		
	3.5	F	F	1.27	381	305	254	218	191	152	127	95.3	84.7	76.2	61.0	50.8	43.5		
TJ60-6504 TJ60-8004 TJ60-11004 (50)	2.0	M	F	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2		
	2.5	M	F	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4		
	3.0	M	F	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2		
	3.5	M	F	1.71	513	410	342	293	257	205	171	128	114	103	82.1	68.4	58.6		
TJ60-8005 TJ60-11005 (50)	2.0	M	M	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4		
	2.5	M	M	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2		
	3.0	M	M	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7		
	3.5	M	F	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5		
TJ60-6506 TJ60-8006 TJ60-11006 (50)	2.0	M	M	2.13	639	511	426	365	320	256	213	160	142	128	102	85.2	73.0		
	2.5	M	F	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8		
	3.0	M	M	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5		
	3.5	M	M	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1		
TJ60-6508 TJ60-8008 TJ60-11008 (50)	2.0	M	M	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3		
	2.5	M	F	2.56	768	614	512	439	384	307	256	192	171	154	123	102	87.8		
	3.0	M	F	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9		
	4.0	M	M	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
TJ60-8010 TJ60-11010 (50)	2.0	C	M	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7		
	2.5	C	M	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108		
	3.0	M	M	3.41	1023	818	682	585	512	409	341	256	227	205	164	136	117		
	4.0	M	M	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125		
TJ60-8010 TJ60-11010 (50)	2.0	C	M	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111		
	2.5	C	M	3.61	1083	866	722	619	542	433	361	271	241	217	173	144	124		
	3.0	C	M	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135		
	3.5	M	M	4.27	1281	1025	854	732	641	512	427	320	285	256	205	171	146		
4.0	M	M	4.56	1368	1094	912	782	684	547	452	342	304	274	219	182	156			

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	—	—



## Optimum Spray Height

65°	90 cm
80°	75 cm
110°	50 cm

## How to order:

Specify tip number.

Example:

TJ60-8002VS – Stainless Steel with VisiFlo color-coding

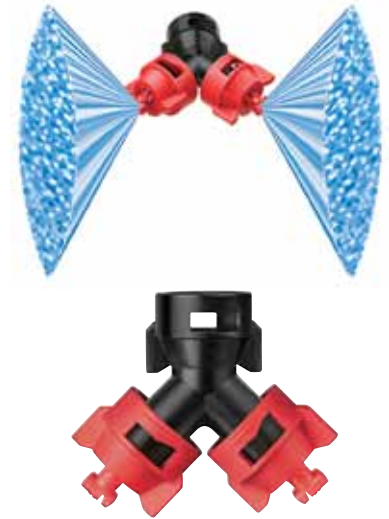
# Turbo TeeJet® Duo Dual Polymer Flat Fan Spray Tips



## Features:

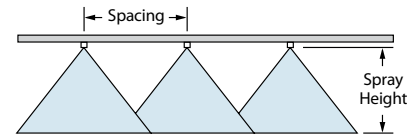
- Two Turbo TeeJet tapered edge flat fan spray tips using a QJ90-2-NYR adapter to produce a twin-type pattern spraying forward and back. See page 5 for more information on Turbo TeeJet spray tips.
- Provides more versatility than the standard twin-type spray tip. Depending on the Turbo TeeJet tip orientation, a 60°, 90° or 120° included angle can be achieved.
- Best suited for broadcast spraying where superior leaf coverage and canopy penetration is important.
- QJ90 adapter and Quick TeeJet® caps are made of nylon. Turbo TeeJet tips are made of Acetal for excellent wear life and chemical resistance. See page 58 for additional information about the QJ90-2-NYR adapter.
- Ideal for use with automatic sprayer controls.
- Recommended operating pressure range is 15–90 PSI (1–6 bar).
- Quick TeeJet caps (included) are colored to match the VisiFlo® color-coding of spray tips. See page 57 for additional information.

QJ90-2XTT11001 (100)	bar	DROP SIZE	CAPACITY ONE TT DUO IN l/min	l/ha <span style="border: 1px solid black; padding: 2px;">50cm</span>												
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
QJ90-2XTT11001 (100)	1.0	C	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8
	2.0	M	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
	3.0	F	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1
	4.0	F	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2
	5.0	F	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0
6.0	F	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
QJ90-2XTT110015 (100)	1.0	C	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3
	2.0	M	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
	3.0	M	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
	4.0	M	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6
	5.0	F	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1
6.0	F	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
QJ90-2XTT11002 (50)	1.0	C	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2
	2.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
	3.0	M	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
	4.0	M	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
	5.0	M	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9
6.0	F	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5	
QJ90-2XTT110025 (50)	1.0	VC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
	2.0	C	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
	3.0	M	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5
	4.0	M	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8
	5.0	M	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1
6.0	M	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7	
QJ90-2XTT11003 (50)	1.0	VC	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0
	2.0	C	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
	3.0	C	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3
	4.0	M	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
	5.0	M	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105
6.0	M	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115	
QJ90-2XTT11004 (50)	1.0	XC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
	2.0	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
	3.0	C	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108
	4.0	C	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125
	5.0	M	4.08	1224	979	816	699	612	490	408	306	272	245	196	163	140
6.0	M	4.47	1341	1073	894	766	671	536	447	335	298	268	215	179	153	
QJ90-2XTT11005 (50)	1.0	XC	2.28	684	547	456	391	342	274	228	171	152	137	109	91.2	78.2
	2.0	VC	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111
	3.0	C	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135
	4.0	C	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156
	5.0	C	5.10	1530	1224	1020	874	765	612	510	383	340	306	245	204	175
6.0	M	5.59	1677	1342	1118	958	839	671	559	419	373	335	268	224	192	
QJ90-2XTT11006 (50)	1.0	XC	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
	2.0	VC	3.87	1161	929	774	663	581	464	387	290	258	232	186	155	133
	3.0	C	4.74	1422	1138	948	813	711	569	474	356	316	284	228	190	163
	4.0	C	5.47	1641	1313	1094	938	821	656	547	410	365	328	263	219	188
	5.0	C	6.12	1836	1469	1224	1049	918	734	612	459	408	367	294	245	210
6.0	M	6.70	2010	1608	1340	1149	1005	804	670	503	447	402	322	268	230	
QJ90-2XTT11008 (50)	1.0	XC	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125
	2.0	VC	5.16	1548	1238	1032	885	774	619	516	387	344	310	248	206	177
	3.0	C	6.32	1896	1517	1264	1083	948	758	632	474	421	379	303	253	217
	4.0	C	7.30	2190	1752	1460	1251	1095	876	730	548	487	438	350	292	250
	5.0	C	8.16	2448	1958	1632	1399	1224	979	816	612	544	490	392	326	280
6.0	M	8.94	2682	2146	1788	1533	1341	1073	894	671	596	536	429	358	307	

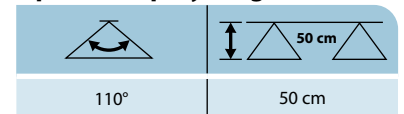


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

\*At pressures below 30 PSI (2.0 bar)



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

QJ90-2XTT11004-VP – Polymer with VisiFlo color-coding

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.



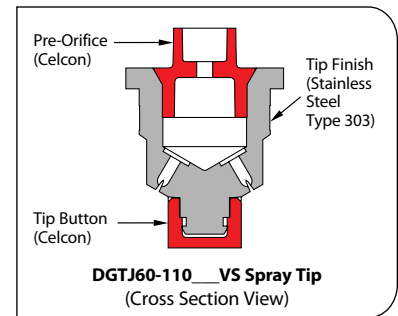
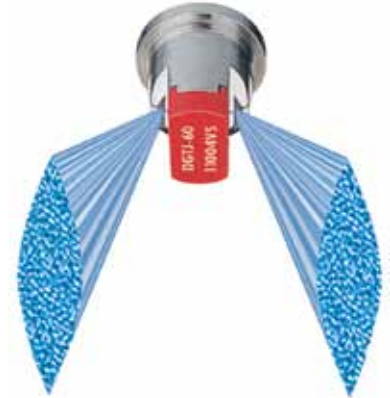
# DG TwinJet® Drift Guard Twin Flat Spray Tips

## Typical Applications:

See selection guide on page 2 for recommended typical applications for DG TwinJet tips.

## Features:

- 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 spray alignment when used with 25598-\*-NYR Quick TeeJet® cap and gasket. Reference page 57 for more information.

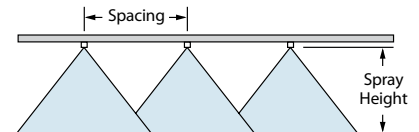


**Note:** Due to pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

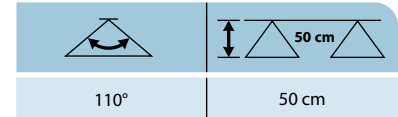
Icon	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	l/ha  50cm												
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
DGTJ60-110015 (100)	2.0	F	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
	2.5	F	0.54	162	130	108	92.6	81.0	64.8	54.0	40.5	36.0	32.4	25.9	21.6	18.5
	3.0	F	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2
	3.5	F	0.64	192	154	128	110	96.0	76.8	64.0	48.0	42.7	38.4	30.7	25.6	21.9
DGTJ60-11002 (100)	2.0	M	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3
	2.5	M	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7
	3.0	F	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1
	3.5	F	0.85	255	204	170	146	128	102	85.0	63.8	56.7	51.0	40.8	34.0	29.1
DGTJ60-11003 (100)	2.0	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9
	2.5	M	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0
	3.0	M	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
	3.5	M	1.27	381	305	254	218	191	152	127	95.3	84.7	76.2	61.0	50.8	43.5
DGTJ60-11004 (50)	2.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
	2.5	C	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4
	3.0	C	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
	3.5	C	1.71	513	410	342	293	257	205	171	128	114	103	82.1	68.4	58.6
DGTJ60-11006 (50)	2.0	C	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
	2.5	C	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1
	3.0	C	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3
	3.5	C	2.56	768	614	512	439	384	307	256	192	171	154	123	102	87.8
DGTJ60-11008 (50)	2.0	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
	2.5	C	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7
	3.0	C	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108
	3.5	C	3.41	1023	818	682	585	512	409	341	256	227	205	164	136	117
	4.0	C	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	EXCELLENT	VERY GOOD



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

DGTJ60-11004VS – Stainless Steel with VisiFlo color-coding

# Turbo FloodJet® Wide Angle Flat Spray Tips



## Typical Applications:

See selection guide on page 2 for recommended typical applications for Turbo FloodJet tips.

## Features:

- 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.
- Stainless steel or polymer with VisiFlo® color-coding band for easy size identification.
- Can be used with CP25600-\*-NYR Quick TeeJet® cap and gasket for automatic alignment. Reference page 57 for more information.

## QCT Cam Lever Coupling Adapter

- Provides easy changeover from high capacity to lower capacity nozzles.
- Adapter fits standard 3/4" Cam lever coupling.
- Corrosion-resistant stainless steel and polypropylene construction.
- Rated up to 100 PSI (7 bar).
- Use QJT-NYB to retrofit to Quick TeeJet.

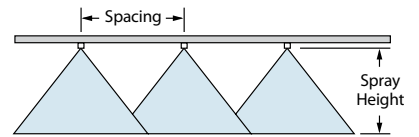


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	VERY GOOD	EXCELLENT

Nozzle Size	DROP SIZE (µm)	CAPACITY ONE NOZZLE (l/min)	l/ha															
			75 cm								100 cm							
			4	6	8	10	12	16	20	25	4	6	8	10	12	16	20	25
TF-†2 (50)	1.0 UC	0.91	182	121	91.0	72.8	60.7	45.5	36.4	29.1	137	91.0	68.3	54.6	45.5	34.1	27.3	21.8
	1.5 XC	1.11	222	148	111	88.8	74.0	55.5	44.4	35.5	167	111	83.3	66.6	55.5	41.6	33.3	26.6
	2.0 XC	1.29	258	172	129	103	86.0	64.5	51.6	41.3	194	129	96.8	77.4	64.5	48.4	38.7	31.0
	2.5 XC	1.44	288	192	144	115	96.0	72.0	57.6	46.1	216	144	108	86.4	72.0	54.0	43.2	34.6
3.0 VC	1.58	316	211	158	126	105	79.0	63.2	50.6	237	158	119	94.8	79.0	59.3	47.4	37.9	
TF-†2.5 (50)	1.0 UC	1.14	228	152	114	91.2	76.0	57.0	45.6	36.5	171	114	85.5	68.4	57.0	42.8	34.2	27.4
	1.5 UC	1.40	280	187	140	112	93.3	70.0	56.0	44.8	210	140	105	84.0	70.0	52.5	42.0	33.6
	2.0 XC	1.61	322	215	161	129	107	80.5	64.4	51.5	242	161	121	96.6	80.5	60.4	48.3	38.6
	2.5 XC	1.80	360	240	180	144	120	90.0	72.0	57.6	270	180	135	108	90.0	67.5	54.0	43.2
3.0 XC	1.97	394	263	197	158	131	98.5	78.8	63.0	296	197	148	118	98.5	73.9	59.1	47.3	
TF-†3 (50)	1.0 UC	1.37	274	183	137	110	91.3	68.5	54.8	43.8	206	137	103	82.2	68.5	51.4	41.1	32.9
	1.5 UC	1.68	336	224	168	134	112	84.0	67.2	53.8	252	168	126	101	84.0	63.0	50.4	40.3
	2.0 XC	1.94	388	259	194	155	129	97.0	77.6	62.1	291	194	146	116	97.0	72.8	58.2	46.6
	2.5 XC	2.17	434	289	217	174	145	109	86.8	69.4	326	217	163	130	109	81.4	65.1	52.1
3.0 XC	2.37	474	316	237	190	158	119	94.8	75.8	356	237	178	142	119	88.9	71.1	56.9	
TF-†4 (50)	1.0 UC	1.82	364	243	182	146	121	91.0	72.8	58.2	273	182	137	109	91.0	68.3	54.6	43.7
	1.5 UC	2.23	446	297	223	178	149	112	89.2	71.4	335	223	167	134	112	83.6	66.9	53.5
	2.0 UC	2.57	514	343	257	206	171	129	103	82.2	386	257	193	154	129	96.4	77.1	61.7
	2.5 XC	2.88	576	384	288	230	192	144	115	92.2	432	288	216	173	144	108	86.4	69.1
3.0 XC	3.15	630	420	315	252	210	158	126	101	473	315	236	189	158	118	94.5	75.6	
TF-†5 (50)	1.0 UC	2.28	456	304	228	182	152	114	91.2	73.0	342	228	171	137	114	85.5	68.4	54.7
	1.5 UC	2.79	558	372	279	223	186	140	112	89.3	419	279	209	167	140	105	83.7	67.0
	2.0 UC	3.22	644	429	322	258	215	161	129	103	483	322	242	193	161	121	96.6	77.3
	2.5 XC	3.60	720	480	360	288	240	180	144	115	540	360	270	216	180	135	108	86.4
3.0 XC	3.95	790	527	395	316	263	198	158	126	593	395	296	237	198	148	119	94.8	
TF-†7.5 (50)	1.0 UC	3.42	684	456	342	274	228	171	137	109	513	342	257	205	171	128	103	82.1
	1.5 UC	4.19	838	559	419	335	279	210	168	134	629	419	314	251	210	157	126	101
	2.0 UC	4.84	968	645	484	387	323	242	194	155	726	484	363	290	242	182	145	116
	2.5 XC	5.41	1082	721	541	433	361	271	216	173	812	541	406	325	271	203	162	130
3.0 XC	5.92	1184	789	592	474	395	296	237	189	888	592	444	355	296	222	178	142	
TF-†10 (50)	1.0 UC	4.56	912	608	456	365	304	228	182	146	684	456	342	274	228	171	137	109
	1.5 UC	5.58	1116	744	558	446	372	279	223	179	837	558	419	335	279	209	167	134
	2.0 UC	6.45	1290	860	645	516	430	323	258	206	968	645	484	387	323	242	194	155
	2.5 XC	7.21	1442	961	721	577	481	361	288	231	1082	721	541	433	361	270	216	173
3.0 XC	7.90	1580	1053	790	632	527	395	316	253	1185	790	593	474	395	296	237	190	

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

†Specify material.



## Optimum Spray Height

Spacing	Optimum Spray Height
50 cm	60 cm*
75 cm	75 cm*
100 cm	100 cm*

\*Wide angle spray nozzle height is influenced by nozzle orientation. The critical factor is to achieve a minimum 30% overlap.

## How to order:

Specify tip number.

Examples:

TF-VS4 – Stainless Steel with VisiFlo color-coding

TF-VP4 – Polymer with VisiFlo color-coding



# FloodJet® Wide Angle Flat Spray Tips

**How to order:** Specify tip number.

Examples:

- TK-VS5 – Stainless Steel with VisiFlo® color-coding
- TK-VP3 – Polymer with VisiFlo color-coding
- (B)1/4K-5 – Brass
- TK-SS5 – Stainless Steel
- (B)1/8K-SS5 – Stainless Steel
- QCK-SS100 – Stainless Steel with VisiFlo color-coding

**Nozzle Spacing**

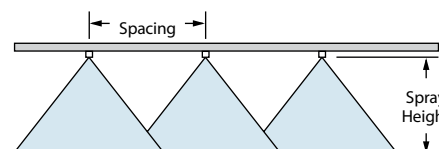
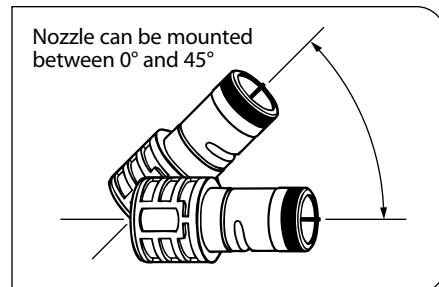
If the nozzle spacing on your boom is different than those tabulated, see page 124 for conversion factors.



Nozzle Model	bar	CAPACITY ONE NOZZLE IN l/min	I/ha  100 cm													
			4 km/h		6 km/h		8 km/h		10 km/h		12 km/h					
			km/h	l/min	km/h	l/min	km/h	l/min	km/h	l/min	km/h	l/min				
1/8K-50 TK-50 (100)	1.0	0.23	34.5	23.0	17.3	13.8	11.5	8.6	6.9	5.5						
	1.5	0.28	42.0	28.0	21.0	16.8	14.0	10.5	8.4	6.7						
	2.0	0.33	49.5	33.0	24.8	19.8	16.5	12.4	9.9	7.9						
1/8K-75 TK-75 (100)	1.0	0.34	51.0	34.0	25.5	20.4	17.0	12.8	10.2	8.2						
	1.5	0.42	63.0	42.0	31.5	25.2	21.0	15.8	12.6	10.1						
	2.0	0.48	72.0	48.0	36.0	28.8	24.0	18.0	14.4	11.5						
1/8K-1 TK-1 (100)	1.0	0.46	69.0	46.0	34.5	27.6	23.0	17.3	13.8	11.0						
	1.5	0.56	84.0	56.0	42.0	33.6	28.0	21.0	16.8	13.4						
	2.0	0.65	97.5	65.0	48.8	39.0	32.5	24.4	19.5	15.6						
1/8K-1.5 TK-1.5 (50)	1.0	0.68	102	68.0	51.0	40.8	34.0	25.5	20.4	16.3						
	1.5	0.83	125	83.0	62.3	49.8	41.5	31.1	24.9	19.9						
	2.0	0.96	144	96.0	72.0	57.6	48.0	36.0	28.8	23.0						
1/8K, 1/4K, TK]-2 TK-2 (50)	1.0	0.91	137	91.0	68.3	54.6	45.5	34.1	27.3	21.8						
	1.5	1.11	167	111	83.3	66.6	55.5	41.6	33.3	26.6						
	2.0	1.29	194	129	96.8	77.4	64.5	48.4	38.7	31.0						
1/8K, 1/4K, TK]-2.5 TK-2.5 (50)	1.0	1.14	171	114	85.5	68.4	57.0	42.8	34.2	27.4						
	1.5	1.40	210	140	105	84.0	70.0	52.5	42.0	33.6						
	2.0	1.61	242	161	121	96.6	80.5	60.4	48.3	38.6						
1/8K, 1/4K, TK]-3 TK]-3 (50)	1.0	1.37	206	137	103	82.2	68.5	51.4	41.1	32.9						
	1.5	1.68	252	168	126	101	84.0	63.0	50.4	40.3						
	2.0	1.94	291	194	146	116	97.0	72.8	58.2	46.6						
1/8K, TK]-4 TK-4 (50)	1.0	1.82	273	182	137	109	91.0	68.3	54.6	43.7						
	1.5	2.23	335	223	167	134	112	83.6	66.9	53.5						
	2.0	2.57	386	257	193	154	129	96.4	77.1	61.7						
1/8K, 1/4K, TK]-5 TK]-5 (50)	1.0	2.28	342	228	171	137	114	85.5	68.4	54.7						
	1.5	2.79	419	279	209	167	140	105	83.7	67.0						
	2.0	3.22	483	322	242	193	161	121	96.6	77.3						
1/8K, 1/4K, TK]-7.5 TK-7.5 (50)	1.0	3.42	513	342	257	205	171	128	101	82.1						
	1.5	4.19	629	419	314	251	210	157	126	101						
	2.0	4.84	726	484	363	290	242	182	145	116						
1/8K, 1/4K, TK]-10 TK-10 (50)	1.0	4.56	684	456	342	274	228	171	137	109						
	1.5	5.58	837	558	419	335	279	209	167	134						
	2.0	6.45	968	645	484	387	323	242	194	155						
1/8K, 1/4K]-12 TK]-12	1.0	5.47	821	547	410	328	274	205	164	131						
	1.5	6.70	1005	670	503	402	335	251	201	161						
	2.0	7.74	1161	774	581	464	387	290	232	186						
1/8K, 1/4K]-15 TK-15	1.0	6.84	1026	684	513	410	342	257	205	164						
	1.5	8.38	1257	838	629	503	419	314	251	201						
	2.0	9.67	1451	967	725	580	484	363	290	232						
1/8K, 1/4K]-18 TK]-18	1.0	8.20	1230	820	615	492	410	308	246	197						
	1.5	10.0	1500	1000	750	600	500	375	300	240						
	2.0	11.6	1740	1160	870	696	580	435	348	278						
1/8K, 1/4K]-20 TK-20 QCK-20	1.0	14.2	2130	1420	1065	852	710	533	426	341						
	1.0	9.12	1368	912	684	547	456	342	274	219						
	1.5	11.2	1680	1120	840	672	560	420	336	269						
1/4K-22	2.0	12.9	1935	1290	968	774	645	484	387	310						
	3.0	15.8	2370	1580	1185	948	790	593	474	379						
	1.0	10.0	1500	1000	750	600	500	375	300	240						
1/4K-24	1.5	12.2	1830	1220	915	732	610	458	366	293						
	2.0	14.1	2115	1410	1058	846	705	529	423	338						
	3.0	17.3	2595	1730	1298	1038	865	649	519	415						
1/4K-24	1.0	10.9	1635	1090	818	654	545	409	327	262						
	1.5	13.3	1995	1330	998	798	665	499	399	319						
	2.0	15.4	2310	1540	1155	924	770	578	462	370						
1/4K-24	3.0	18.9	2835	1890	1418	1134	945	709	567	454						

Nozzle Model	bar	CAPACITY ONE NOZZLE IN l/min	I/ha  150 cm													
			4 km/h		6 km/h		8 km/h		10 km/h		12 km/h					
			km/h	l/min	km/h	l/min	km/h	l/min	km/h	l/min	km/h	l/min				
1/4K-27	1.0	12.3	1230	820	615	492	410	308	246	197						
	1.5	15.1	1510	1007	755	604	503	378	302	242						
	2.0	17.4	1740	1160	870	696	580	435	348	278						
3/8K-30 TK-30 QCK-30	1.0	13.7	1370	913	685	548	457	343	274	219						
	1.5	16.8	1680	1120	840	672	560	420	336	269						
	2.0	19.4	1940	1293	970	776	647	485	388	310						
3/8K-35	3.0	23.7	2370	1580	1185	948	790	593	474	379						
	1.0	16.0	1600	1067	800	640	533	400	320	256						
	1.5	19.6	1960	1307	980	784	653	490	392	314						
[3/8K, 1/2K]-40 QCK-40	2.0	22.6	2260	1507	1130	904	753	565	452	362						
	3.0	27.7	2770	1847	1385	1108	923	693	554	443						
	1.0	18.2	1820	1213	910	728	607	455	364	291						
3/8K-45	1.5	22.3	2230	1487	1115	892	743	558	446	357						
	2.0	25.7	2570	1713	1285	1028	857	643	514	411						
	3.0	31.5	3150	2100	1575	1260	1050	788	630	504						
1/2K-50	1.0	20.5	2050	1367	1025	820	683	513	410	328						
	1.5	25.1	2510	1673	1255	1004	837	628	502	402						
	2.0	29.0	2900	1933	1450	1160	967	725	580	464						
QCK-50	3.0	35.5	3550	2367	1775	1420	1183	888	710	568						
	1.0	22.8	2280	1520	1140	912	760	570	456	365						
	1.5	27.9	2790	1860	1395	1116	930	698	558	446						
1/2K-60 QCK-60	2.0	32.2	3220	2147	1610	1288	1073	805	644	515						
	3.0	39.5	3950	2633	1975	1580	1317	988	790	632						
	1.0	27.3	2730	1820	1365	1092	910	683	546	437						
QCK-80	1.5	33.4	3340	2227	1670	1336	1113	835	668	534						
	2.0	38.6	3860	2573	1930	1544	1287	965	772	618						
	3.0	47.3	4730	3153	2365	1892	1577	1183	946	757						
1/2K-70	1.0	31.9	3190	2127	1595	1276	1063	798	638	510						
	1.5	39.1	3910	2607	1955	1564	1303	978	782	626						
	2.0	45.1	4510	3007	2255	1804	1503	1128	902	722						
[1/2K, 3/4K]-80 QCK-80	3.0	55.3	5530	3687	2765	2212	1843	1383	1106	885						
	1.0	36.5	3650	2433	1825	1460	1217	913	730	584						
	1.5	44.7	4470	2980	2235	1788	1490	1118	894	715						
[1/2K, 3/4K]-90 QCK-90	2.0	51.6	5160	3440	2580	2064	1720	1290	1032	826						
	3.0	63.2	6320	4213	3160	2528	2107									

# Quick Turbo FloodJet® Wide Angle Flat Spray Tips



### Optimum Spray Height\*

100 cm	100 cm
150 cm	150 cm

\*When nozzle is mounted parallel to the ground.

The revolutionary Quick Turbo FloodJet nozzle combines the precision and uniformity of a flat spray nozzle with the clog-resistance and wide angle pattern of flooding nozzles. It uses an exclusive new design to increase droplet size and distribution uniformity.

### Features:

- Patented turbulence chamber creates a dramatic improvement in pattern uniformity.
- Pre-orifice design produces larger droplets for reduced drift.
- Large, round orifice reduces clogging.
- 1.26" (32 mm) diameter tip body fits into  $\frac{3}{4}$ " cam lever coupling.

- Grooved side molding for automatic alignment.
- Stainless steel with color-coding for easy size identification.
- Available in standard sizes from 1.5 GPM up to 24.0 GPM (6.84 l/min to 94.73 l/min) at pressures of 10–40 PSI (1–3 bar).

### How to order:

Specify tip number.

Example:

QCTF-VS40 – Stainless Steel with VisiFlo® color-coding

SOIL INCORPORATED	PRE-EMERGENCE	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	EXCELLENT

NOZZLE INFORMATION	CAPACITY ONE NOZZLE IN l/min	I/ha  100cm												I/ha  150cm											
		I/ha  100cm												I/ha  150cm											
		4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	20 km/h	25 km/h	30 km/h	4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	20 km/h	25 km/h	30 km/h				
QCTF-VS15	1.0	6.84	1026	684	513	410	342	293	257	205	164	137	684	456	342	274	228	195	171	137	109	91.2			
	1.5	8.38	1257	838	629	503	419	359	314	251	201	168	838	559	419	335	279	239	210	168	134	112			
	2.0	9.67	1451	967	725	580	484	414	363	290	232	193	967	645	484	387	322	276	242	193	155	129			
	3.0	11.85	1778	1185	889	711	593	508	444	356	284	237	1185	790	593	474	395	339	296	237	190	158			
QCTF-VS20	1.0	9.12	1368	912	684	547	456	391	342	274	219	182	912	608	456	365	304	261	228	182	146	122			
	1.5	11.17	1676	1117	838	670	559	479	419	335	268	223	1117	745	559	447	372	319	279	223	179	149			
	2.0	12.90	1935	1290	968	774	645	553	484	387	310	258	1290	860	645	516	430	369	323	258	206	172			
	3.0	15.80	2370	1580	1185	948	790	677	593	474	379	316	1580	1053	790	632	527	451	395	316	253	211			
QCTF-VS30	1.0	13.67	2051	1367	1025	820	684	586	513	410	328	273	1367	911	684	547	456	391	342	273	219	182			
	1.5	16.64	2511	1674	1256	1004	837	717	628	502	402	335	1674	1116	937	670	558	478	419	335	268	223			
	2.0	19.33	2900	1933	1450	1160	967	828	725	580	464	387	1933	1289	967	773	644	552	483	387	309	258			
	3.0	23.68	3552	2368	1776	1421	1184	1015	888	710	568	474	2368	1579	1184	947	789	677	592	474	379	316			
QCTF-VS40	1.0	18.23	2735	1823	1367	1094	912	781	684	547	438	365	1823	1215	912	729	608	521	456	365	292	243			
	1.5	22.33	3350	2233	1675	1340	1117	957	837	670	536	447	2233	1489	1117	893	744	638	558	447	357	298			
	2.0	25.78	3867	2578	1934	1547	1289	1105	967	773	619	516	2578	1719	1289	1031	859	737	645	516	412	344			
	3.0	31.58	4737	3158	2369	1895	1579	1353	1184	947	758	632	3158	2105	1579	1263	1053	902	790	632	505	421			
QCTF-VS50	1.0	22.79	3419	2279	1709	1367	1140	977	855	684	547	456	2279	1519	1140	912	760	651	570	456	365	304			
	1.5	27.91	4187	2791	2093	1675	1396	1196	1047	837	670	558	2791	1861	1396	1116	930	797	698	558	447	372			
	2.0	32.23	4835	3223	2417	1934	1612	1381	1209	967	774	645	3223	2149	1612	1289	1074	921	806	645	516	430			
	3.0	39.47	5921	3947	2960	2368	1974	1692	1480	1184	947	789	3947	2631	1974	1579	1316	1128	987	789	632	526			
QCTF-VS60	1.0	27.35	4103	2735	2051	1641	1368	1172	1026	821	656	547	2735	1823	1368	1094	912	781	684	547	438	365			
	1.5	33.50	5025	3350	2513	2010	1675	1436	1256	1005	804	670	3350	2233	1675	1340	1117	957	838	670	536	447			
	2.0	38.68	5802	3868	2901	2321	1934	1658	1451	1160	928	774	3868	2579	1934	1547	1289	1105	967	774	619	516			
	3.0	47.37	7106	4737	3553	2842	2369	2030	1776	1421	1137	947	4737	3158	2369	1895	1579	1353	1184	947	758	632			
QCTF-VS80	1.0	36.46	5469	3646	2735	2188	1823	1563	1367	1094	875	729	3646	2431	1823	1458	1215	1042	912	729	583	486			
	1.5	44.65	6698	4465	3349	2679	2233	1914	1674	1340	1072	893	4465	2977	2233	1786	1488	1276	1116	893	714	595			
	2.0	51.56	7734	5156	3867	3094	2578	2210	1934	1547	1237	1031	5156	3437	2578	2062	1719	1473	1289	1031	825	687			
	3.0	63.15	9473	6315	4736	3789	3158	2706	2368	1895	1516	1263	6315	4210	3158	2526	2105	1804	1579	1263	1010	842			
QCTF-VS100	1.0	45.58	6837	4558	3419	2735	2279	1953	1709	1367	1094	912	4558	3039	2279	1823	1519	1302	1140	912	729	608			
	1.5	55.82	8373	5582	4187	3349	2791	2392	2093	1675	1340	1116	5582	3721	2791	2233	1861	1595	1396	1116	893	744			
	2.0	64.46	9669	6446	4835	3868	3223	2763	2417	1934	1547	1289	6446	4297	3223	2578	2149	1842	1612	1289	1031	859			
	3.0	78.95	11843	7895	5921	4737	3948	3384	2961	2369	1895	1579	7895	5263	3948	3158	2632	2256	1974	1579	1263	1053			
QCTF-VS120	1.0	54.69	8204	5469	4102	3281	2735	2344	2051	1641	1313	1094	5469	3646	2735	2188	1823	1563	1367	1094	875	729			
	1.5	66.98	10047	6698	5024	4019	3349	2871	2512	2009	1608	1340	6698	4465	3349	2679	2233	1914	1675	1340	1072	893			
	2.0	77.34	11601	7734	5801	4640	3867	3315	2900	2320	1856	1547	7734	5156	3867	3094	2578	2210	1934	1547	1237	1031			
	3.0	94.73	14210	9473	7105	5684	4737	4060	3552	2842	2274	1895	9473	6315	4737	3789	3158	2707	2368	1895	1516	1263			

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.



# TurfJet Wide Angle Flat Fan Spray Nozzles

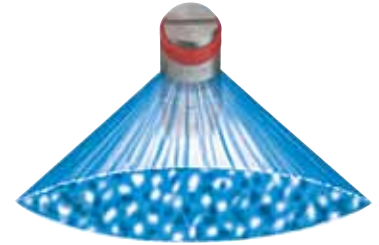
## Typical Applications:

See selection guide on page 2 for recommended typical applications for Wide Angle Flat Fan Spray Nozzles.

## Features:

- Can be used with Quick TeeJet® cap QJ4676\*-NYR.
- Very large droplets.

- Direct replacement for plastic hollow-cone, low-drift nozzles.
- More precise flow and distribution pattern.
- Large orifice reduces clogging.
- Nozzle spacing — 20–40" (50–100 cm).
- Spraying pressure — 25–75 PSI (1.5–5 bar).



NOZZLE SIZE	DROP SIZE	CAPACITY ONE NOZZLE IN /min	I/ha $\triangle$ 100cm												
			4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	16 km/h	20 km/h	25 km/h	30 km/h	35 km/h
1/4TTJ02 (50)	1.5 UC	0.56	84.0	67.2	56.0	48.0	42.0	37.3	33.6	28.0	21.0	16.8	13.4	11.2	9.6
	2.0 UC	0.65	97.5	78.0	65.0	55.7	48.8	43.3	39.0	32.5	24.4	19.5	15.6	13.0	11.1
	3.0 XC	0.79	119	94.8	79.0	67.7	59.3	52.7	47.4	39.5	29.6	23.7	19.0	15.8	13.5
	4.0 XC	0.91	137	109	91.0	78.0	68.3	60.7	54.6	45.5	34.1	27.3	21.8	18.2	15.6
	5.0 XC	1.02	153	122	102	87.4	76.5	68.0	61.2	51.0	38.3	30.6	24.5	20.4	17.5
1/4TTJ04 (50)	1.5 UC	1.12	168	134	112	96.0	84.0	74.7	67.2	56.0	42.0	33.6	26.9	22.4	19.2
	2.0 UC	1.29	194	155	129	111	96.8	86.0	77.4	64.5	48.4	38.7	31.0	25.8	22.1
	3.0 UC	1.58	237	190	158	135	119	105	94.8	79.0	59.3	47.4	37.9	31.6	27.1
	4.0 UC	1.82	273	218	182	156	137	121	109	91.0	68.3	54.6	43.7	36.4	31.2
	5.0 UC	2.04	306	245	204	175	153	136	122	102	76.5	61.2	49.0	40.8	35.0
1/4TTJ05 (50)	1.5 UC	1.39	209	167	139	119	104	92.7	83.4	69.5	52.1	41.7	33.4	27.8	23.8
	2.0 UC	1.61	242	193	161	138	121	107	96.6	80.5	60.4	48.3	38.6	32.2	27.6
	3.0 UC	1.97	296	236	197	169	148	131	118	98.5	73.9	59.1	47.3	39.4	33.8
	4.0 UC	2.27	341	272	227	195	170	151	136	114	85.1	68.1	54.5	45.4	38.9
	5.0 UC	2.54	381	305	254	218	191	169	152	127	95.3	76.2	61.0	50.8	43.5
1/4TTJ06 (50)	1.5 UC	1.68	252	202	168	144	126	112	101	84.0	63.0	50.4	40.3	33.6	28.8
	2.0 UC	1.94	291	233	194	166	146	129	116	97.0	72.8	58.2	46.6	38.8	33.3
	3.0 UC	2.37	356	284	237	203	178	158	142	119	88.9	71.1	56.9	47.4	40.6
	4.0 UC	2.74	411	329	274	235	206	183	164	137	103	82.2	65.8	54.8	47.0
	5.0 UC	3.06	459	367	306	262	230	204	184	153	115	91.8	73.4	61.2	52.5
1/4TTJ08	1.5 UC	2.23	335	268	223	191	167	149	134	112	83.6	66.9	53.5	44.6	38.2
	2.0 UC	2.58	387	310	258	221	194	172	155	129	96.8	77.4	61.9	51.6	44.2
	3.0 UC	3.16	474	379	316	271	237	211	190	158	119	94.8	75.8	63.2	54.2
	4.0 UC	3.65	548	438	365	313	274	243	219	183	137	110	87.6	73.0	62.6
	5.0 UC	4.08	612	490	408	350	306	272	245	204	153	122	97.9	81.6	69.9
1/4TTJ10	1.5 UC	2.79	419	335	279	239	209	186	167	140	105	83.7	67.0	55.8	47.8
	2.0 UC	3.23	485	388	323	277	242	215	194	162	121	96.9	77.5	64.6	55.4
	3.0 UC	3.95	593	474	395	339	296	263	237	198	148	119	94.8	79.0	67.7
	4.0 UC	4.56	684	547	456	391	342	304	274	228	171	137	109	91.2	78.2
	5.0 UC	5.10	765	612	510	437	383	340	306	255	191	153	122	102	87.4
1/4TTJ15	1.5 UC	4.19	629	503	419	359	314	279	251	210	157	126	101	83.8	71.8
	2.0 UC	4.83	725	580	483	414	362	322	290	242	181	145	116	96.6	82.8
	3.0 UC	5.92	888	710	592	507	444	395	355	296	222	178	142	118	101
	4.0 UC	6.84	1026	821	684	586	513	456	410	342	257	205	164	137	117
	5.0 UC	7.64	1146	917	764	655	573	509	458	382	287	229	183	153	131

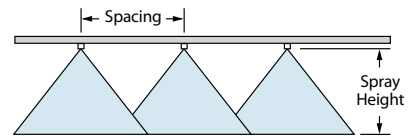
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

## QJ4676-90-1/4-NYR

- 90° fitting attaches to Quick TeeJet bodies—1/4" female threaded outlet.
- Simple installation of TurfJet nozzles on vertical nozzle bodies.
- Nylon construction.



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



## Optimum Spray Height

Spacing	Optimum Spray Height
50 cm	60 cm*
75 cm	75 cm*
100 cm	100 cm*

\*Wide angle spray nozzle height is influenced by nozzle orientation. The critical factor is to achieve a minimum 30% overlap.

## How to order:

Specify tip number.

Examples:

- 1/4TTJ04-VS – Stainless Steel with VisiFlo® color-coding
- 1/4TTJ06-VP – Polymer with VisiFlo color-coding





## 150° Series Stainless Steel and Brass

Suggested for post-directed application with hose drops.



### How to order:

Specify tip number and material.

Example: TQ150-03-SS –  
Stainless Steel



Icon	bar	CAPACITY ONE NOZZLE IN l/min	I/ha  50cm							
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h
TQ150-01-SS (100)	1.5	0.28	84.0	56.0	42.0	33.6	28.0	24.0	21.0	18.7
	2.0	0.32	96.0	64.0	48.0	38.4	32.0	27.4	24.0	21.3
	2.5	0.36	108	72.0	54.0	43.2	36.0	30.9	27.0	24.0
	3.0	0.39	117	78.0	58.5	46.8	39.0	33.4	29.3	26.0
TQ150-01-55 (100)	3.5	0.42	126	84.0	63.0	50.4	42.0	36.0	31.5	28.0
	1.5	0.42	126	84.0	63.0	50.4	42.0	36.0	31.5	28.0
	2.0	0.48	144	96.0	72.0	57.6	48.0	41.1	36.0	32.0
	2.5	0.54	162	108	81.0	64.8	54.0	46.3	40.5	36.0
TQ150-02-SS (100)	3.0	0.59	177	118	88.5	70.8	59.0	50.6	44.3	39.3
	3.5	0.64	192	128	96.0	76.8	64.0	54.9	48.0	42.7
	1.5	0.56	168	112	84.0	67.2	56.0	48.0	42.0	37.3
	2.0	0.65	195	130	97.5	78.0	65.0	55.7	48.8	43.3
TQ150-02-55 (100)	2.5	0.72	216	144	108	86.4	72.0	61.7	54.0	48.0
	3.0	0.79	237	158	119	94.8	79.0	67.7	59.3	52.7
	3.5	0.85	255	170	128	102	85.0	72.9	63.8	56.7
	1.5	0.83	249	166	125	99.6	83.0	71.1	62.3	55.3
TQ150-03-SS (100)	2.0	0.96	288	192	144	115	96.0	82.3	72.0	64.0
	2.5	1.08	324	216	162	130	108	92.6	81.0	72.0
	3.0	1.18	354	236	177	142	118	101	88.5	78.7
	3.5	1.27	381	254	191	152	127	109	95.3	84.7
TQ150-04-SS (50)	1.5	1.12	336	224	168	134	112	96.0	84.0	74.7
	2.0	1.29	387	258	194	155	129	111	96.8	86.0
	2.5	1.44	432	288	216	173	144	123	108	96.0
	3.0	1.58	474	316	237	190	158	135	119	105
TQ150-05-SS (50)	3.5	1.71	513	342	257	205	171	147	128	114
	1.5	1.39	417	278	209	167	139	119	104	92.7
	2.0	1.61	483	322	242	193	161	138	121	107
	2.5	1.80	540	360	270	216	180	154	135	120
TQ150-06-SS (50)	3.0	1.97	591	394	296	236	197	169	148	131
	3.5	2.13	639	426	320	256	213	183	160	142
	1.5	1.68	504	336	252	202	168	144	126	112
	2.0	1.94	582	388	291	233	194	166	146	129
TQ150-08-SS (50)	2.5	2.16	648	432	324	259	216	185	162	144
	3.0	2.37	711	474	356	284	237	203	178	158
	3.5	2.56	768	512	384	307	256	219	192	171
	1.5	2.23	669	446	335	268	223	191	167	149
TQ150-09-SS (50)	2.0	2.58	774	516	387	310	258	221	194	172
	2.5	2.88	864	576	432	346	288	247	216	192
	3.0	3.16	948	632	474	379	316	271	237	211
	3.5	3.41	1023	682	512	409	341	292	256	227
TQ150-09-SS (50)	1.5	2.51	753	502	377	301	251	215	188	167
	2.0	2.90	870	580	435	348	290	249	218	193
	2.5	3.24	972	648	486	389	324	278	243	216
	3.0	3.55	1065	710	533	426	355	304	266	237
	3.5	3.83	1149	766	575	460	383	328	287	255

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).  
See pages 124–140 for useful formulas and other information.

## TeeJet® Off-Center Flat Spray Tips — Smaller Capacities

TeeJet Off-Center spray tips are commonly installed in double and single swivel nozzle bodies. Because these bodies are adjustable for angular position, a wide spray swath is easily obtained.

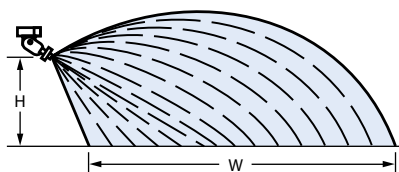


See page 62 for swivels and hose drops.

### How to order:

Specify tip number and material.

Example: OC-02 – Brass  
OC-SS06 – Stainless Steel



Icon	bar	CAPACITY ONE NOZZLE IN l/min	HEIGHT = 45 cm							HEIGHT = 60 cm			
			"W" cm	I/ha				"W" cm	I/ha				
				4 km/h	6 km/h	8 km/h	10 km/h		4 km/h	6 km/h	8 km/h	10 km/h	
OC-01 (100)	2.0	0.32	147	32.7	21.8	16.3	13.1	165	29.1	19.4	14.5	11.6	
	3.0	0.39	152	38.5	25.7	19.2	15.4	170	34.4	22.9	17.2	13.8	
	4.0	0.45	157	43.0	28.7	21.5	17.2	175	38.6	25.7	19.3	15.4	
OC-02 (50)	2.0	0.65	172	56.7	37.8	28.3	22.7	190	51.3	34.2	25.7	20.5	
	3.0	0.79	177	66.9	44.6	33.5	26.8	195	60.8	40.5	30.4	24.3	
	4.0	0.91	182	75.0	50.0	37.5	30.0	198	68.9	46.0	34.5	27.6	
OC-03 (50)	2.0	0.96	195	73.8	49.2	36.9	29.5	203	70.9	47.3	35.5	28.4	
	3.0	1.18	203	87.2	58.1	43.6	34.9	210	84.3	56.2	42.1	33.7	
	4.0	1.36	208	98.1	65.4	49.0	39.2	215	94.9	63.3	47.4	38.0	
OC-04 (50)	2.0	1.29	231	83.8	55.8	41.9	33.5	236	82.0	54.7	41.0	32.8	
	3.0	1.58	236	100	66.9	50.2	40.2	238	99.6	66.4	49.8	39.8	
	4.0	1.82	238	115	76.5	57.4	45.9	241	113	75.5	56.6	45.3	
OC-06 (50)	2.0	1.94	251	116	77.3	58.0	46.4	274	106	70.8	53.1	42.5	
	3.0	2.37	256	139	92.6	69.4	55.5	279	127	84.9	63.7	51.0	
	4.0	2.74	259	159	106	79.3	63.5	281	146	97.5	73.1	58.5	
OC-08 (50)	2.0	2.58	254	152	102	76.2	60.9	279	139	92.5	69.4	55.5	
	3.0	3.16	259	183	122	91.5	73.2	284	167	111	83.5	66.8	
	4.0	3.65	264	207	138	104	83.0	287	191	127	95.4	76.3	
OC-12	2.0	3.87	259	224	149	112	89.7	287	202	135	101	80.9	
	3.0	4.74	264	269	180	135	108	292	243	162	122	97.4	
	4.0	5.47	266	308	206	154	123	294	279	186	140	112	
OC-16	2.0	5.16	335	231	154	116	92.4	360	215	143	108	86.0	
	3.0	6.32	350	271	181	135	108	370	256	171	128	102	
	4.0	7.30	363	302	201	151	121	375	292	195	146	117	

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).  
See pages 124–140 for useful formulas and other information.

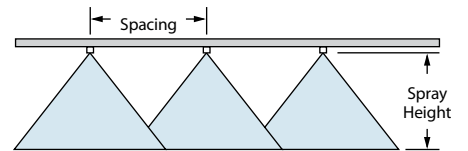


# FullJet® Wide Angle Full Cone Spray Tips



## Features:

- Large droplets to reduce drift.
- Excellent spray distribution over a range of pressures 15–40 PSI (1–3 bar).
- Ideal for use on rigs with sprayer controllers.
- Wide spray angle allows use on 40" (100 cm) spacings.
- Available in VisiFlo® color-coding system in all stainless steel or Celcon® with stainless steel vane.
- Can be used with CP25607-\* -NY for Quick TeeJet® connection. Reference page 57 for more information.

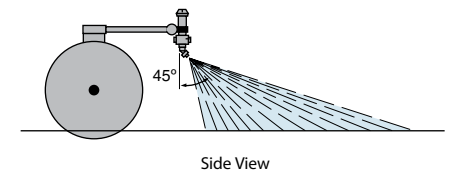


## Optimum Spray Height

50 cm	50 cm*
75 cm	75 cm*
100 cm	100 cm*

FullJet nozzles should be angled 30°–45° from vertical for uniform spray distribution.

\*Wide angle spray nozzle height is influenced by nozzle orientation. The critical factor is to achieve a minimum 30% overlap.



Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	l/ha  50cm						l/ha  100cm					
			4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
FL-5VS FL-5VC	1.0	1.19	357	238	179	143	95	71	179	119	89	71	48	36
	1.5	1.43	429	286	215	172	114	86	215	143	107	86	57	43
	2.0	1.69	507	338	254	203	135	101	254	169	127	101	68	51
	2.5	1.81	543	362	272	217	145	109	272	181	136	109	72	54
	3.0	1.97	591	394	296	236	158	118	296	197	148	118	79	59
FL-6.5VS FL-6.5VC	1.0	1.56	468	312	234	187	125	94	234	156	117	94	62	47
	1.5	1.89	567	378	284	227	151	113	284	189	142	113	76	57
	2.0	2.14	642	428	321	257	171	128	321	214	161	128	86	64
	2.5	2.34	702	468	351	281	187	140	351	234	176	140	94	70
	3.0	2.56	768	512	384	307	205	154	384	256	192	154	102	77
FL-8VS FL-8VC	1.0	1.90	570	380	285	228	152	114	285	190	143	114	76	57
	1.5	2.29	687	458	344	275	183	137	344	229	172	137	92	69
	2.0	2.60	780	520	390	312	208	156	390	260	195	156	104	78
	2.5	2.89	867	578	434	347	231	173	434	289	217	173	116	87
	3.0	3.15	945	630	473	378	252	189	473	315	236	189	126	95
FL-10VS FL-10VC	1.0	2.37	711	474	356	284	190	142	356	237	178	142	95	71
	1.5	2.86	858	572	429	343	229	172	429	286	215	172	114	86
	2.0	3.39	1017	678	509	407	271	203	509	339	254	203	136	102
	2.5	3.62	1086	724	543	434	290	217	543	362	272	217	145	109
	3.0	3.93	1179	786	590	472	314	236	590	393	295	236	157	118
FL-15VS FL-15VC	1.0	3.56	1068	712	534	427	285	214	534	356	267	214	142	107
	1.5	4.29	1287	858	644	515	343	257	644	429	322	257	172	129
	2.0	4.84	1452	968	726	581	387	290	726	484	363	290	194	145
	2.5	5.43	1629	1086	815	652	434	326	815	543	407	326	217	163
	3.0	5.90	1770	1180	885	708	472	354	885	590	443	354	236	177

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



### Typical Applications:

- Boomless field spray applications.
- Roadside and right-of-way applications.
- End row spraying.
- Orchard spraying.
- De-icing applications.
- Forestry.

### Features:

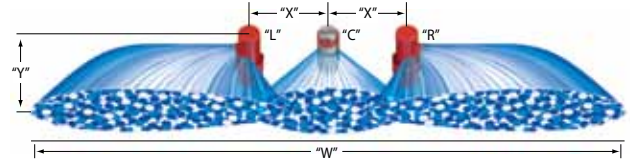
- Unique orifice geometry produces a wide spray pattern while maintaining superior distribution across entire width.
- Pre-orifice design minimizes drift.
- Extra wide spray pattern—up to 18.5' (5.5 meters)—using a single nozzle.
- Removable polymer pre-orifice.
- Acetal or stainless steel construction for excellent chemical resistance.
- Recommended spray pressure range: 20–60 PSI (1.5–4 bar).

- NPT or BSPT (male) threads for easy installation.
- Color-coding for easy capacity identification.
- 10 capacity only available in VP

**Mounting Note:** Position tip horizontal to ground with spray pattern down and to the side.

### How to order:

Specify part number. Example:  
(B)1/2XP80L(R)-VS –  
VisiFlo® Stainless Steel left boom spray

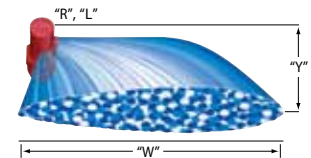


CENTER NOZZLE "C" "R", "L"		bar	DROP SIZE	CAPACITY THREE NOZZLES IN l/min	I/ha FOR THREE NOZZLES													
					SPRAY WIDTH "W" (meters)		NOZZLE SPACING "X" = 50 cm											
					60 cm HEIGHT	90 cm HEIGHT	HEIGHT "Y" = 60 cm						HEIGHT "Y" = 90 cm					
		4 km/h	8 km/h	12 km/h	16 km/h	24 km/h	32 km/h	4 km/h	8 km/h	12 km/h	16 km/h	24 km/h	32 km/h					
(B)1/4XP10R (B)1/4XP10L	1/4TTJ08	1.5 UC	7.85	6.2	7.0	190	95.0	63.3	47.5	31.7	23.7	168	84.1	56.1	42.1	28.0	21.0	
		2.0 UC	9.04	7.0	7.8	194	96.9	64.6	48.4	32.3	24.2	174	86.9	57.9	43.5	29.0	21.7	
		3.0 UC	11.1	7.8	8.6	213	107	71.2	53.4	35.6	26.7	194	96.8	64.5	48.4	32.3	24.2	
		3.5 UC	12.2	8.6	9.2	213	106	70.9	53.2	35.5	26.6	199	99.5	66.3	49.7	33.2	24.9	
(B)1/4XP20R (B)1/4XP20L	1/4TTJ08	1.5 UC	13.4	6.4	7.8	314	157	105	78.5	52.3	39.3	258	129	85.9	64.4	42.9	32.2	
		2.0 UC	15.4	8.0	8.4	289	144	96.3	72.2	48.1	36.1	275	138	91.7	68.8	45.8	34.4	
		3.0 UC	18.9	9.2	9.6	308	154	103	77.0	51.4	38.5	295	148	98.4	73.8	49.2	36.9	
		3.5 UC	20.7	9.8	10.2	317	158	106	79.2	52.8	39.6	304	152	101	76.1	50.7	38.1	
(B)1/4XP25R (B)1/4XP25L	1/4TTJ10	1.5 UC	16.5	7.4	7.8	334	167	111	83.6	55.7	41.8	317	159	106	79.3	52.9	39.7	
		2.0 UC	19.1	8.4	9.2	341	171	114	85.3	56.8	42.6	311	156	104	77.9	51.9	38.9	
		3.0 UC	23.5	9.2	9.8	383	192	128	95.8	63.9	47.9	360	180	120	89.9	59.9	45.0	
		3.5 UC	25.6	9.8	10.2	392	196	131	98.0	65.3	49.0	376	188	125	94.1	62.7	47.1	
(B)1/2XP40R (B)1/2XP40L	1/4TTJ15	1.5 UC	26.6	7.8	8.4	512	256	171	128	85.3	63.9	475	238	158	119	79.2	59.4	
		2.0 UC	31.0	9.0	9.8	517	258	172	129	86.1	64.6	474	237	158	119	79.1	59.3	
		3.0 UC	37.7	9.6	10.4	589	295	196	147	98.2	73.6	544	272	181	136	90.6	68.0	
		3.5 UC	40.8	10.2	10.8	600	300	200	150	100	75.0	567	283	189	142	94.4	70.8	
4.0 UC	44.4	10.8	11.6	617	308	206	154	103	77.1	574	287	191	144	95.7	71.8			

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

For lower chart only, application rates are identical for a two-tip setup. Swath width and flow capacity will be doubled for a two-tip setup.

(B)=BSPT



CENTER NOZZLE "C" "R", "L"		bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	I/ha FOR SINGLE NOZZLE																								
					SPRAY WIDTH "W" (meters)					HEIGHT "Y" = 60 cm										HEIGHT "Y" = 90 cm									
					60 cm HEIGHT	90 cm HEIGHT	4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	20 km/h	25 km/h	30 km/h	35 km/h	4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	20 km/h	25 km/h	30 km/h	35 km/h			
(B)1/4XP10R (B)1/4XP10L	1/4TTJ08	1.5 UC	2.81	2.6	3.0	162	108	81.1	64.8	54.0	40.5	32.4	25.9	21.6	18.5	141	93.7	70.3	56.2	46.8	35.1	28.1	22.5	18.7	16.1				
		2.0 UC	3.23	3.0	3.4	162	108	80.8	64.6	53.8	40.4	32.3	25.8	21.5	18.5	143	95.0	71.3	57.0	47.5	35.6	28.5	22.8	19.0	16.3				
		3.0 UC	3.95	3.4	3.8	174	116	87.1	69.7	58.1	43.6	34.9	27.9	23.2	19.9	156	104	78.0	62.4	52.0	39.0	31.2	24.9	20.8	17.8				
		3.5 UC	4.26	3.8	4.1	168	112	84.1	67.3	56.1	42.0	33.6	26.9	22.4	19.2	156	104	77.9	62.3	52.0	39.0	31.2	24.9	20.8	17.8				
(B)1/4XP20R (B)1/4XP20L	1/4TTJ08	1.5 UC	4.55	4.0	4.4	171	114	85.3	68.3	56.9	42.7	34.1	27.3	22.8	19.5	155	103	77.6	62.0	51.7	38.8	31.0	24.8	20.7	17.7				
		2.0 UC	5.56	2.7	3.4	309	206	154	124	103	77.2	61.8	49.4	41.2	35.3	24.5	164	123	98.1	81.8	61.3	49.1	39.2	32.7	28.0				
		3.0 UC	6.43	3.5	3.7	276	184	138	110	91.9	68.9	55.1	44.1	36.7	31.5	261	174	130	104	86.9	65.2	52.1	41.7	34.8	29.8				
		3.5 UC	8.52	4.4	4.6	290	194	145	116	96.0	72.6	58.1	46.5	38.7	33.2	278	185	139	111	91.5	69.5	55.6	44.5	37.0	31.8				
(B)1/4XP25R (B)1/4XP25L	1/4TTJ10	1.5 UC	9.12	4.6	4.9	297	198	149	119	99.1	74.3	59.5	47.6	39.7	34.0	279	186	140	112	93.1	69.8	55.8	44.7	37.2	31.9				
		2.0 UC	6.85	3.2	3.4	321	214	161	128	107	80.3	64.2	51.4	42.8	36.7	302	201	151	121	101	75.6	60.4	48.4	40.3	34.5				
		3.0 UC	7.95	3.7	4.1	322	215	161	129	107	80.6	64.5	51.6	43.0	36.8	291	194	145	116	97.0	72.7	58.2	46.5	38.8	33.2				
		3.5 UC	10.5	4.4	4.6	358	239	179	143	119	89.5	71.6	57.2	47.7	40.9	342	228	171	137	114	85.6	68.5	54.8	45.7	39.1				
(B)1/2XP40R (B)1/2XP40L	1/4TTJ15	1.5 UC	11.2	3.4	3.7	494	329	247	198	165	124	98.8	79.1	65.9	51.7	46.5	454	303	227	182	151	114	90.8	72.6	60.5	51.9			
		2.0 UC	13.1	4.0	4.4	491	328	246	197	164	123	98.3	78.6	65.5	56.1	447	298	223	179	149	112	90.8	71.5	59.5	51.0				
		3.0 UC	15.9	4.3	4.7	555	370	277	222	185	139	111	88.7	74.0	63.4	507	338	254	203	169	127	101	81.2	67.7	58.0				
		3.5 UC	17.0	4.6	4.9	554	370	277	222	185	139	111	88.7	73.9	63.4	520	347	260	208	173	130	104	83.3	69.4	59.5				
(B)1/2XP80R (B)1/2XP80L	1/4TTJ15	1.5 UC	18.4	4.9	5.3	563	376	282	225	188	141	113	90.1	75.1	64.4	521	347	260	208	174	130	104	83.3	69.4	59.5				
		2.0 UC	22.1	4.0	4.7	829	553	414	332	276	207	166	133	111	94.7	705	470	353	282	235	176	141	113	94.0	80.6				
		3.0 UC	31.1	4.9	5.3	952	635	476	381	317	238	190	152	127	109	880	587	440	352	293	220	176	141	117	101				
		4.0 UC	33.2	5.0	5.5	996	664	498	398	332	249	199	159	133	114	905	604	453	362	302	226	181	145	121	103				
4.0 UC	35.8	5.3	5.6	1013	675	507	405	338	253	203	162	135	116	959	639	479	384	320	240	192	153	128	110						



# BoomJet® Boomless Nozzles with Extra-Wide Flat Spray Projection

5430-3/4 NPT



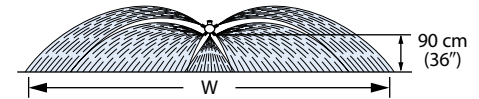
**5880-3/4 NPT Female**  
Back inlet connection.  
Weight: Brass 0.91 kg.

The 5430 and 5880 BoomJet nozzles are used for spraying areas not easily accessed with a boom sprayer. They combine two off-center tips and three VeeJet® nozzles to produce a wide swath flat spray. While not as uniform as a boom sprayer, the BoomJet provides good distribution.\* The 5880 features a 1/4" gauge port and is supplied with one additional 1/4" NPT pipe plug and one blank tip for spraying to one side only. The 5430 utilizes a swivel design which can be adjusted to modify the spray pattern width. Both models feature 3/4" NPT female inlet threads.

\*Uniformity can be optimized by double overlapping spray swaths on successive sprayer passes. Remember, this also doubles the application volume.

**How to order:**

Specify BoomJet nozzle number.  
Example: 5880-3/4-2TOC-06



W = Maximum effective coverage with nozzle mounted at 1 m height.

Icon	(2)	(2)	(1)	bar	l/min	"W" (meters)	l/ha				
							6 km/h	8 km/h	12 km/h	16 km/h	24 km/h
5430-3/4-2TOC06 5880-3/4-2TOC06	6733-OC06	H1/4VV-1506	H1/4VVL-9502 with 50 mesh strainer	1.5	7.26	10.2	71.2	53.4	35.6	26.7	17.8
				2.0	8.38	10.3	81.4	61.0	40.7	30.5	20.3
				2.5	9.37	10.5	89.2	66.9	44.6	33.5	22.3
5430-3/4-2TOC10 5880-3/4-2TOC10	OC10	H1/4U-0508HE	H1/4VVL-11004 with 50 mesh strainer	1.5	11.16	12.0	93.0	69.8	46.5	34.9	23.3
				2.0	12.89	12.1	107	79.9	53.3	39.9	26.6
				2.5	14.41	12.3	117	87.9	58.6	43.9	29.3
5430-3/4-2TOC20 5880-3/4-2TOC20	OC20	H1/4U-0520HE	H1/4VVL-9506 with 50 mesh strainer	1.5	24.00	14.3	168	126	83.9	62.9	42.0
				2.0	27.72	15.2	182	137	91.2	68.4	45.6
				2.5	30.99	15.8	196	147	98.1	73.6	49.0
5430-3/4-2TOC40 5880-3/4-2TOC40	OC40	H1/4U-0540HE	H1/4U-9510	1.5	47.44	17.1	277	208	139	104	69.4
				2.0	54.78	18.2	301	226	150	113	75.2
				2.5	61.25	19.2	319	239	160	120	79.8

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124-140 for useful formulas and other information.



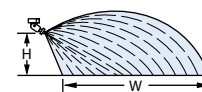
# TeeJet® Swivel Spray Nozzles with Off-Center Flat Spray Tips — Larger Capacities

Large capacity swivel nozzles, available in both single or double styles, are available with 3/4" NPT (F) inlet connections for use as boomless type nozzles. For double swivels the tabulated GPM (l/min) capacities are twice those shown for single swivels.

**How to order:**

Specify swivel number and material.  
Example: 4629-3/4-TOC10 Brass

**Extra Wide Flat Spray Coverage**



W = Maximum effective coverage with nozzle mounted at 1 m height.



**Type 4629-3/4-TOC Single Swivel**  
with 3/4" NPT (F) pipe connection. Brass.

**Type 4418-3/4-2TOC Double Swivel**  
with 3/4" NPT (F) pipe connection. Brass.



Icon	bar	l/min	"W" (meters)	HEIGHT = 90 cm		
				l/ha		
				8 km/h	16 km/h	24 km/h
4629-3/4-TOC10	2.0	3.23	5.4	44.9	22.4	15.0
	3.0	3.95	5.6	52.9	26.5	17.6
	4.0	4.56	5.6	61.1	30.5	20.4
4629-3/4-TOC20	2.0	6.45	7.1	68.1	34.1	22.7
	3.0	7.90	7.4	80.1	40.0	26.7
	4.0	9.12	7.4	92.4	46.2	30.8
4629-3/4-TOC40	2.0	12.89	7.9	122	61.2	40.8
	3.0	15.79	8.2	144	72.2	48.1
	4.0	18.23	8.2	167	83.4	55.6
4629-3/4-TOC80	2.0	25.78	8.8	220	110	73.3
	3.0	31.58	9.1	260	130	86.8
	4.0	36.47	9.1	301	150	100
4629-3/4-TOC150	2.0	48.34	9.3	390	195	130
	3.0	59.21	9.6	463	231	154
	4.0	68.37	9.6	534	267	178
4629-3/4-TOC300	2.0	96.68	9.7	748	374	249
	3.0	118.41	10.0	888	444	296
	4.0	136.73	10.2	1005	503	335

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124-140 for useful formulas and other information.

# FieldJet® Boomless Nozzles with Extra-Wide Flat Spray Projection

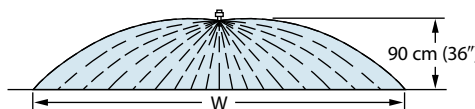


**Type 1/4-KLC and Type 3/4-KLC**  
 1/4" NPT male and 3/4" NPT male  
 pipe connections



The KLC FieldJet nozzle is typically used to spray areas not accessible with a boom sprayer. Its one-piece nozzle design projects spray to both sides to form a wide swath flat spray. The round orifice minimizes clogging. Uniformity across the swath is not as good as with a properly operated boom sprayer.\* Available in brass or stainless steel.

\*Uniformity can be optimized by double overlapping spray swaths on successive sprayer passes. Remember, this also doubles the application volume.



### How to order:

Specify part number and material.

Example: 1/4KLC-SS18 – Stainless Steel

Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	"W" IN meters	l/ha						
				3 km/h	4 km/h	5 km/h	6 km/h	8 km/h	10 km/h	12 km/h
1/4-KLC-5	0.7	1.91	4.3	88.8	66.6	53.3	44.4	33.3	26.7	22.2
	1.0	2.28	5.2	87.7	65.8	52.6	43.8	32.9	26.3	21.9
	2.0	3.23	5.5	117	88.1	70.5	58.7	44.0	35.2	29.4
	3.0	3.95	6.4	123	92.6	74.1	61.7	46.3	37.0	30.9
1/4-KLC-9	0.7	3.43	4.9	140	105	84.0	70.0	52.5	42.0	35.0
	1.0	4.10	5.5	149	112	89.5	74.5	55.9	44.7	37.3
	2.0	5.80	5.8	200	150	120	100	75.0	60.0	50.0
	3.0	7.10	6.4	222	166	133	111	83.2	66.6	55.5
1/4-KLC-18	0.7	6.86	5.5	249	187	150	125	93.5	74.8	62.4
	1.0	8.20	6.1	269	202	161	134	101	80.7	67.2
	2.0	11.6	6.4	363	272	218	181	136	109	90.6
	3.0	14.2	6.7	424	318	254	212	159	127	106
1/4-KLC-36	0.7	13.7	5.8	472	354	283	236	177	142	118
	1.0	16.4	6.7	490	367	294	245	184	147	122
	2.0	23.2	7.3	636	477	381	318	238	191	159
	3.0	28.4	7.9	719	539	431	359	270	216	180

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# ConeJet® **VisiFlo® Hollow Cone Spray Tips**

## Typical Applications:

See selection guide on page 3 for recommended typical applications for ConeJet tips.

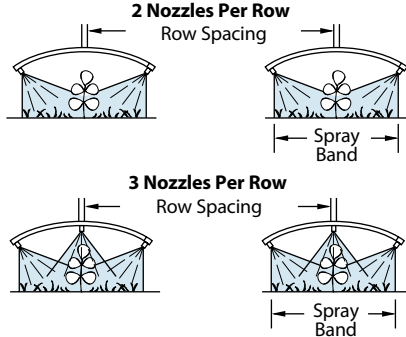
## Features:

- VisiFlo color-coded versions consist of stainless steel or ceramic orifice in a polypropylene body. Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Ideal for banding with two or three nozzles over the row.
- Finely atomized spray pattern provides thorough coverage.
- Standard ConeJet (not color-coded) available in brass and stainless steel in a wide range of capacities with 65° (TY) and 80° (TX) spray angles.

## How to order:

Specify tip number.

- Examples:
- TX-VS4 – Stainless Steel with VisiFlo color-coding
  - TX-4 – Brass
  - TX-SS4 – Stainless Steel
  - TX-VK4 – Ceramic with VisiFlo color-coding



	l/ha CONVERSION FACTORS*	
	50cm	75cm
20 cm	2.50	3.75
25 cm	2.00	3.00
30 cm	1.67	2.50
40 cm	1.25	1.88

\*To find l/ha rate on band widths, multiply the tabulated l/ha for ROW SPACING by conversion factors.

See pages 124–140 for useful formulas and other information.



Nozzle Model	bar	CAPACITY TWO NOZZLES IN l/min		l/ha 50cm				l/ha 75cm				bar	CAPACITY THREE NOZZLES IN l/min		l/ha 50cm				l/ha 75cm			
		IN l/min	IN l/min	4 km/h	6 km/h	8 km/h	10 km/h	4 km/h	6 km/h	8 km/h	10 km/h		IN l/min	IN l/min	4 km/h	6 km/h	8 km/h	10 km/h	4 km/h	6 km/h	8 km/h	10 km/h
TX-1	5.0	0.16	48.0	32.0	24.0	19.2	32.0	21.3	16.0	12.8	5.0	0.24	72.0	48.0	36.0	28.8	48.0	32.0	24.0	19.2		
TX-1	7.0	0.19	57.0	38.0	28.5	22.8	38.0	25.3	19.0	15.2	7.0	0.28	84.0	56.0	42.0	33.6	56.0	37.3	28.0	22.4		
TX-1 (100)	10.0	0.22	66.0	44.0	33.0	26.4	44.0	29.3	22.0	17.6	10.0	0.33	99.0	66.0	49.5	39.6	66.0	44.0	33.0	26.4		
	15.0	0.26	78.0	52.0	39.0	31.2	52.0	34.7	26.0	20.8	15.0	0.39	117	78.0	58.5	46.8	78.0	52.0	39.0	31.2		
	20.0	0.28	84.0	56.0	42.0	33.6	56.0	37.3	28.0	22.4	20.0	0.42	126	84.0	63.0	50.4	84.0	56.0	42.0	33.6		
TX-2	5.0	0.32	96.0	64.0	48.0	38.4	64.0	42.7	32.0	25.6	5.0	0.48	144	96.0	72.0	57.6	96.0	64.0	48.0	38.4		
TX-2	7.0	0.38	114	76.0	57.0	45.6	76.0	50.7	38.0	30.4	7.0	0.57	171	114	85.5	68.4	114	76.0	57.0	45.6		
TX-2 (100)	10.0	0.44	132	88.0	66.0	52.8	88.0	58.7	44.0	35.2	10.0	0.66	198	132	99.0	79.2	132	88.0	66.0	52.8		
	15.0	0.52	156	104	78.0	62.4	104	69.3	52.0	41.6	15.0	0.78	234	156	117	93.6	156	104	78.0	62.4		
	20.0	0.60	180	120	90.0	72.0	120	80.0	60.0	48.0	20.0	0.90	270	180	135	108	180	120	90.0	72.0		
TX-3	5.0	0.50	150	100	75.0	60.0	100	66.7	50.0	40.0	5.0	0.75	225	150	113	90.0	150	100	75.0	60.0		
TX-3	7.0	0.56	168	112	84.0	67.2	112	74.7	56.0	44.8	7.0	0.84	252	168	126	101	168	112	84.0	67.2		
TX-3 (100)	10.0	0.66	198	132	99.0	79.2	132	88.0	66.0	52.8	10.0	0.99	297	198	149	119	198	132	99.0	79.2		
	15.0	0.78	234	156	117	93.6	156	104	78.0	62.4	15.0	1.17	351	234	176	140	234	156	117	93.6		
	20.0	0.90	270	180	135	108	180	120	90.0	72.0	20.0	1.35	405	270	203	162	270	180	135	108		
TX-4	5.0	0.66	198	132	99.0	79.2	132	88.0	66.0	52.8	5.0	0.99	297	198	149	119	198	132	99.0	79.2		
TX-4	7.0	0.78	234	156	117	93.6	156	104	78.0	62.4	7.0	1.17	351	234	176	140	234	156	117	93.6		
TX-4 (50)	10.0	0.90	270	180	135	108	180	120	90.0	72.0	10.0	1.35	405	270	203	162	270	180	135	108		
	15.0	1.10	330	220	165	132	220	147	110	88.0	15.0	1.65	495	330	248	198	330	220	165	132		
	20.0	1.24	372	248	186	149	248	165	124	99.2	20.0	1.86	558	372	279	223	372	248	186	149		
TX-6	5.0	1.00	300	200	150	120	200	133	100	80.0	5.0	1.50	450	300	225	180	300	200	150	120		
TX-6	7.0	1.16	348	232	174	139	232	155	116	92.8	7.0	1.74	522	348	261	209	348	232	174	139		
TX-6 (50)	10.0	1.36	408	272	204	163	272	181	136	109	10.0	2.04	612	408	306	245	408	272	204	163		
	15.0	1.64	492	328	246	197	328	219	164	131	15.0	2.46	738	492	369	295	492	328	246	197		
	20.0	1.86	558	372	279	223	372	248	186	149	20.0	2.79	837	558	419	335	558	372	279	223		
TX-8	5.0	1.34	402	268	201	161	268	179	134	107	5.0	2.01	603	402	302	241	402	268	201	161		
TX-8	7.0	1.58	474	316	237	190	316	211	158	126	7.0	2.37	711	474	356	284	474	316	237	190		
TX-8 (50)	10.0	1.86	558	372	279	223	372	248	186	149	10.0	2.79	837	558	419	335	558	372	279	223		
	15.0	2.20	660	440	330	264	440	293	220	176	15.0	3.30	990	660	495	396	660	440	330	264		
	20.0	2.60	780	520	390	312	520	347	260	208	20.0	3.90	1170	780	585	468	780	520	390	312		
TX-10	5.0	1.68	504	336	252	202	336	224	168	134	5.0	2.52	756	504	378	302	504	336	252	202		
TX-10	7.0	1.96	588	392	294	235	392	261	196	157	7.0	2.94	882	588	441	353	588	392	294	235		
TX-10 (50)	10.0	2.40	720	480	360	288	480	320	240	192	10.0	3.60	1080	720	540	432	720	480	360	288		
	15.0	2.80	840	560	420	336	560	373	280	224	15.0	4.20	1260	840	630	504	840	560	420	336		
	20.0	3.20	960	640	480	384	640	427	320	256	20.0	4.80	1440	960	720	576	960	640	480	384		
TX-12	5.0	2.00	600	400	300	240	400	267	200	160	5.0	3.00	900	600	450	360	600	400	300	240		
TX-12	7.0	2.40	720	480	360	288	480	320	240	192	7.0	3.60	1080	720	540	432	720	480	360	288		
TX-12 (50)	10.0	2.80	840	560	420	336	560	373	280	224	10.0	4.20	1260	840	630	504	840	560	420	336		
	15.0	3.40	1020	680	510	408	680	453	340	272	15.0	5.10	1530	1020	765	612	1020	680	510	408		
	20.0	4.00	1200	800	600	480	800	533	400	320	20.0	6.00	1800	1200	900	720	1200	800	600	480		
TX-18	5.0	3.00	900	600	450	360	600	400	300	240	5.0	4.50	1350	900	675	540	900	600	450	360		
TX-18	7.0	3.60	1080	720	540	432	720	480	360	288	7.0	5.40	1620	1080	810	648	1080	720	540	432		
TX-18 (50)	10.0	4.40	1320	880	660	528	880	587	440	352	10.0	6.60	1980	1320	990	792	1320	880	660	528		
	15.0	5.20	1560	1040	780	624	1040	693	520	416	15.0	7.80	2340	1560	1170	936	1560	1040	780	624		
	20.0	6.00	1800	1200	900	720	1200	800	600	480	20.0	9.00	2700	1800	1350	1080	1800	1200	900	720		
TX-26	5.0	4.40	1320	880	660	528	880	587	440	352	5.0	6.60	1980	1320	990	792	1320	880	660	528		
TX-26	7.0	5.20	1560	1040	780	624	1040	693	520	416	7.0	7.80	2340	1560	1170	936	1560	1040	780	624		
TX-26 (50)	10.0	6.20	1860	1240	930	744	1240	827	620	496	10.0	9.30	2790	1860	1395	1116	1860	1240	930	744		
	15.0	7.60	2280	1520	1140	912	1520	1013	760	608	15.0	11.4	3420	2280	1710	1368	2280	1520	1140	912		
	20.0	8.80	2640	1760	1320	1056	1760	1173	880	704	20.0	13.2	3960	2640	1980	1584	2640	1760	1320	1056		

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

†Specify material.

# AI TeeJet® Air Induction Even Flat Spray Tips



## Typical Applications:

See selection guide on page 3 for recommended typical applications for AI TeeJet tips.

## Features:

- Available with stainless steel insert, polymer holder and pre-orifice with VisiFlo® color-coding.
- Larger droplets for less drift.

- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator.
- Ideal for banding over the row or in row middles.
- Automatic spray alignment with 25598\*-NYR Quick TeeJet® cap and gasket. Reference page 57 for more information.

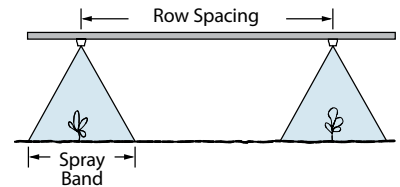


**Note:** Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.



TIPO	Pressure (bar)	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	I/ha $\triangle$ 50cm $\triangle$ Field Hectares						I/ha $\triangle$ 75cm $\triangle$ Field Hectares																																																					
				4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h																																																
				AI95015EVS (100)	2.0 UC 0.48 144 96.0 72.0 57.6 38.4 28.8 96.0 64.0 48.0 38.4 25.6 19.2	3.0 XC 0.59 177 118 88.5 70.8 47.2 35.4 118 78.7 59.0 47.2 31.5 23.6	4.0 XC 0.68 204 136 102 81.6 54.4 40.8 136 90.7 68.0 54.4 36.3 27.2	5.0 VC 0.76 228 152 114 91.2 60.8 45.6 152 101 76.0 60.8 40.5 30.4	6.0 VC 0.83 249 166 125 99.6 66.4 49.8 166 111 83.0 66.4 44.3 33.2	7.0 C 0.90 270 180 135 108 72.0 54.0 180 120 90.0 72.0 48.0 36.0	8.0 C 0.96 288 192 144 115 76.8 57.6 192 128 96.0 76.8 51.2 38.4	AI9502EVS (50)	2.0 UC 0.65 195 130 97.5 78.0 52.0 39.0 130 86.7 65.0 52.0 34.7 26.0	3.0 XC 0.79 237 158 119 94.8 63.2 47.4 158 105 79.0 63.2 42.1 31.6	4.0 XC 0.91 273 182 137 109 72.8 54.6 182 121 91.0 72.8 48.5 36.4	5.0 VC 1.02 306 204 153 122 81.6 61.2 204 136 102 81.6 54.4 40.8	6.0 VC 1.12 336 224 168 134 89.6 67.2 224 149 112 89.6 59.7 44.8	7.0 C 1.21 363 242 182 145 96.8 72.6 242 161 121 96.8 64.5 48.4	8.0 C 1.29 387 258 194 155 103 77.4 258 172 129 103 68.8 51.6	AI95025EVS (50)	2.0 UC 0.81 243 162 122 97.2 64.8 48.6 162 108 81.0 64.8 43.2 32.4	3.0 XC 0.99 297 198 149 119 79.2 59.4 198 132 99.0 79.2 52.8 39.6	4.0 XC 1.14 342 228 171 137 91.2 68.4 228 152 114 91.2 60.8 45.6	5.0 VC 1.28 384 256 192 154 102 76.8 256 171 128 102 68.3 51.2	6.0 VC 1.40 420 280 210 168 112 84.0 280 187 140 112 74.7 56.0	7.0 C 1.51 453 302 227 181 121 90.6 302 201 151 121 80.5 60.4	8.0 C 1.62 486 324 243 194 130 97.2 324 216 162 130 86.4 64.8	AI9503EVS (50)	2.0 UC 0.96 288 192 144 115 76.8 57.6 192 128 96.0 76.8 51.2 38.4	3.0 XC 1.18 354 236 177 142 94.4 70.8 236 157 118 94.4 62.9 47.2	4.0 XC 1.36 408 272 204 163 109 81.6 272 181 136 109 72.5 54.4	5.0 VC 1.52 456 304 228 182 122 91.2 304 203 152 122 81.1 60.8	6.0 VC 1.67 501 334 251 200 134 100 334 223 167 134 89.1 66.8	7.0 C 1.80 540 360 270 216 144 108 360 240 180 144 96.0 72.0	8.0 C 1.93 579 386 290 232 154 116 386 257 193 154 103 77.2	AI9504EVS (50)	2.0 UC 1.29 387 258 194 155 103 77.4 258 172 129 103 68.8 51.6	3.0 XC 1.58 474 316 237 190 126 94.8 316 211 158 126 84.3 63.2	4.0 XC 1.82 546 364 273 218 146 109 364 243 182 146 97.1 72.8	5.0 VC 2.04 612 408 306 245 163 122 408 272 204 163 109 81.6	6.0 VC 2.23 669 446 335 268 178 134 446 297 223 178 119 89.2	7.0 C 2.41 723 482 362 289 193 145 482 321 241 193 129 96.4	8.0 C 2.58 774 516 387 310 206 155 516 344 258 206 138 103	AI9505EVS (50)	2.0 UC 1.61 483 322 242 193 129 96.6 322 215 161 129 85.9 64.4	3.0 XC 1.97 591 394 296 236 158 118 394 263 197 158 105 78.8	4.0 XC 2.27 681 454 341 272 182 136 454 303 227 182 121 90.8	5.0 VC 2.54 762 508 381 305 203 152 508 339 254 203 135 102	6.0 VC 2.79 837 558 419 335 223 167 558 372 279 223 149 112	7.0 C 3.01 903 602 452 361 241 181 602 401 301 241 161 120	8.0 C 3.22 966 644 483 386 258 193 644 429 322 258 172 129	AI9506EVS (50)	2.0 UC 1.94 582 388 291 233 155 116 388 259 194 155 103 77.6	3.0 XC 2.37 711 474 356 284 190 142 474 316 237 190 126 94.8	4.0 XC 2.74 822 548 411 329 219 164 548 365 274 219 146 110	5.0 XC 3.06 918 612 459 367 245 184 612 408 306 245 163 122	6.0 VC 3.35 1005 670 503 402 268 201 670 447 335 268 179 134	7.0 VC 3.62 1086 724 543 434 290 217 724 483 362 290 193 145	8.0 C 3.87 1161 774 581 464 310 232 774 516 387 310 206 155	AI9508EVS (50)	2.0 UC 2.58 774 516 387 310 206 155 516 344 258 206 138 103	3.0 UC 3.16 948 632 474 379 253 190 632 421 316 253 169 126	4.0 XC 3.65 1095 730 548 438 292 219 730 487 365 292 195 146

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



ROW SPACING	95°	I/ha CONVERSION FACTORS*	
		$\triangle$ 50cm $\triangle$	$\triangle$ 75cm $\triangle$
20 cm	10 cm	2.50	3.75
25 cm	13 cm	2.00	3.00
30 cm	15 cm	1.67	2.50
40 cm	20 cm	1.25	1.88

\*To find I/ha rate on band widths, multiply the tabulated I/ha for ROW SPACING by conversion factors.

## How to order:

Specify tip number.

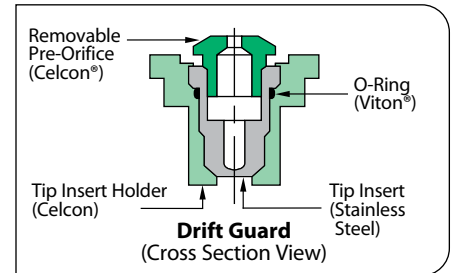
Example:

AI9504EVS – Stainless Steel with VisiFlo color-coding

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# DG TeeJet® Drift Guard Even Flat Spray Tips



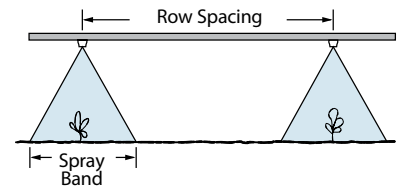
**Note:** Due to the pre-orifice design, this tip is not compatible with the 4193A check valve.

## Typical Applications:

Can be used for pre-emerge surface-applied herbicides or post-emerge systemic herbicide applications.

## Features:

- Pre-orifice design produces large droplets to reduce drift.
- Ideal for banding over the row or in row middles.
- Provides uniform distribution throughout the flat spray pattern.
- Easily mounted on spray boom or planter.
- Stainless steel with VisiFlo® color-coding.



Icon	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	l/ha $\triangle$ 50cm $\triangle$ Field Hectares						l/ha $\triangle$ 75cm $\triangle$ Field Hectares					
				4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
				4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
DG95015EVS (100)	2.0	M	0.48	144	96.0	72.0	57.6	38.4	28.8	96.0	64.0	48.0	38.4	25.6	19.2
	2.5	M	0.54	162	108	81.0	64.8	43.2	32.4	108	72.0	54.0	43.2	28.8	21.6
	3.0	F	0.59	177	118	88.5	70.8	47.2	35.4	118	78.7	59.0	47.2	31.5	23.6
	4.0	F	0.68	204	136	102	81.6	54.4	40.8	136	90.7	68.0	54.4	36.3	27.2
DG9502EVS (50)	2.0	M	0.65	195	130	97.5	78.0	52.0	39.0	130	86.7	65.0	52.0	34.7	26.0
	2.5	M	0.72	216	144	108	86.4	57.6	43.2	144	96.0	72.0	57.6	38.4	28.8
	3.0	M	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6
	4.0	M	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4
DG9503EVS (50)	2.0	C	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
	2.5	M	1.08	324	216	162	130	86.4	64.8	216	144	108	86.4	57.6	43.2
	3.0	M	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2
	4.0	M	1.36	408	272	204	163	109	81.6	272	181	136	109	72.5	54.4
DG9504EVS (50)	2.0	C	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6
	2.5	C	1.44	432	288	216	173	115	86.4	288	192	144	115	76.8	57.6
	3.0	M	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2
	4.0	M	1.82	546	364	273	218	146	109	364	243	182	146	97.1	72.8
DG9505EVS (50)	2.0	C	1.61	483	322	242	193	129	96.6	322	215	161	129	85.9	64.4
	2.5	C	1.80	540	360	270	216	144	108	360	240	180	144	96.0	72.0
	3.0	C	1.97	591	394	296	236	158	118	394	263	197	158	105	78.8
	4.0	M	2.27	681	454	341	272	182	136	454	303	227	182	121	90.8

Nozzle	95°	l/ha CONVERSION FACTORS*	
		50cm	75cm
20 cm	10 cm	2.50	3.75
25 cm	13 cm	2.00	3.00
30 cm	15 cm	1.67	2.50
40 cm	20 cm	1.25	1.88

\*To find l/ha rate on band widths, multiply the tabulated l/ha for ROW SPACING by conversion factors.

## How to order:

Specify tip number.

Example:

DG95015EVS – Stainless Steel with VisiFlo color-coding

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.





## Typical Applications:

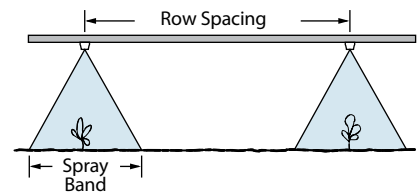
See selection guide on page 3 for recommended typical applications for TeeJet tips.

## Features:

- Ideal for banding over the row or in row middles.
- Provides uniform distribution throughout the flat spray pattern.
- Easily mounted on spray boom or planter.
- Available with VisiFlo® color-coding in stainless steel or all stainless steel, hardened stainless steel and brass.



Tip	bar	CAPACITY ONE NOZZLE IN l/min	I/ha $\triangle$ 50 cm $\triangle$ Field Hectares						I/ha $\triangle$ 75 cm $\triangle$ Field Hectares					
			4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
			TP4001E†	2.0	0.32	96.0	64.0	48.0	38.4	25.6	19.2	64.0	42.7	32.0
TP6501E†	2.5	0.36	108	72.0	54.0	43.2	28.8	21.6	72.0	48.0	36.0	28.8	19.2	14.4
TP8001E	3.0	0.39	117	78.0	58.5	46.8	31.2	23.4	78.0	52.0	39.0	31.2	20.8	15.6
TP9501E (100)	4.0	0.45	135	90.0	67.5	54.0	36.0	27.0	90.0	60.0	45.0	36.0	24.0	18.0
TP40015E†	2.0	0.48	144	96.0	72.0	57.6	38.4	28.8	96.0	64.0	48.0	38.4	25.6	19.2
TP65015E†	2.5	0.54	162	108	81.0	64.8	43.2	32.4	108	72.0	54.0	43.2	28.8	21.6
TP80015E	3.0	0.59	177	118	88.5	70.8	47.2	35.4	118	78.7	59.0	47.2	31.5	23.6
TP95015E (100)	4.0	0.68	204	136	102	81.6	54.4	40.8	136	90.7	68.0	54.4	36.3	27.2
TP4002E†	2.0	0.65	195	130	97.5	78.0	52.0	39.0	130	86.7	65.0	52.0	34.7	26.0
TP6502E†	2.5	0.72	216	144	108	86.4	57.6	43.2	144	96.0	72.0	57.6	38.4	28.8
TP8002E	3.0	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6
TP9502E (50)	4.0	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4
TP4003E†	2.0	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
TP6503E†	2.5	1.08	324	216	162	130	86.4	64.8	216	144	108	86.4	57.6	43.2
TP8003E	3.0	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2
TP9503E (50)	4.0	1.36	408	272	204	163	109	81.6	272	181	136	109	72.5	54.4
TP4004E†	2.0	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6
TP6504E†	2.5	1.44	432	288	216	173	115	86.4	288	192	144	115	76.8	57.6
TP8004E	3.0	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2
TP9504E (50)	4.0	1.82	546	364	273	218	146	109	364	243	182	146	97.1	72.8
TP4005E†	2.0	1.61	483	322	242	193	129	96.6	322	215	161	129	85.9	64.4
TP6505E†	2.5	1.80	540	360	270	216	144	108	360	240	180	144	96.0	72.0
TP8005E	3.0	1.97	591	394	296	236	158	118	394	263	197	158	105	78.8
TP9505E (50)	4.0	2.27	681	454	341	272	182	136	454	303	227	182	121	90.8
TP4006E†	2.0	1.94	582	388	291	233	155	116	388	259	194	155	103	77.6
TP6506E†	2.5	2.16	648	432	324	259	173	130	432	288	216	173	115	86.4
TP8006E	3.0	2.37	711	474	356	284	190	142	474	316	237	190	126	94.8
TP9506E (50)	4.0	2.74	822	548	411	329	219	164	548	365	274	219	146	110
TP6508E†	2.0	2.58	774	516	387	310	206	155	516	344	258	206	138	103
TP11008E†	2.5	2.88	864	576	432	346	230	173	576	384	288	230	154	115
TP8008E	3.0	3.16	948	632	474	379	253	190	632	421	316	253	169	126
TP9508E (50)	4.0	3.65	1095	730	548	438	292	219	730	487	365	292	195	146
TP4010E†	2.0	3.23	969	646	485	388	258	194	646	431	323	258	172	129
TP6510E†	2.5	3.61	1083	722	542	433	289	217	722	481	361	289	193	144
TP8010E†	3.0	3.95	1185	790	593	474	316	237	790	527	395	316	211	158
TP11010E† (24)	4.0	4.56	1368	912	684	547	365	274	912	608	456	365	243	182
TP6515E†	2.0	4.83	1449	966	725	580	386	290	966	644	483	386	258	193
TP8015E†	2.5	5.40	1620	1080	810	648	432	324	1080	720	540	432	288	216
TP9515E†	3.0	5.92	1776	1184	888	710	474	355	1184	789	592	474	316	237
TP11015E†	4.0	6.84	2052	1368	1026	821	547	410	1368	912	684	547	365	274



Tip	Angle					I/ha CONVERSION FACTORS*	
	40°	65°	80°	95°	110°	50 cm	75 cm
20 cm	27 cm	16 cm	12 cm	9 cm	7 cm	2.50	3.75
25 cm	34 cm	20 cm	15 cm	11 cm	9 cm	2.00	3.00
30 cm	41 cm	24 cm	18 cm	14 cm	11 cm	1.67	2.50
40 cm	55 cm	31 cm	24 cm	18 cm	14 cm	1.25	1.88

\*To find I/ha rate on band widths, multiply the tabulated I/ha for ROW SPACING by conversion factors.

## How to order:

Specify tip number.

Examples:

- TP8002EVS – Stainless Steel with VisiFlo color-coding
- TP8002E-HSS – Hardened Stainless Steel
- TP8002E-SS – Stainless Steel
- TP8002E – Brass

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information. †Available in brass and/or stainless steel and/or hardened stainless steel.



# TwinJet® Even Flat Spray Tips



## 40° and 80° E Series

TwinJet even tips combine the advantages of twin flat spray patterns with even distribution across the pattern. The twin flat sprays provide improved coverage of crop or weed without sacrificing uniformity. The smaller droplet size makes this tip ideal for providing a thorough, penetrating coverage with post-emergence contact herbicides.

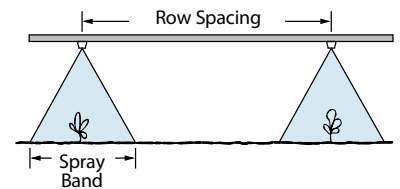
These tips also provide good pre-emergence coverage on cloddy fields and fields covered with crop residue.

See selection guide on page 3 for recommended typical applications for TwinJet tips.



## Features:

- Ideal for banding over or between crop rows.
- Provides uniform distribution throughout the spray pattern.
- Available in 80° and 40° twin flat spray patterns.
- Made of stainless steel with VisiFlo® coding.
- Can be used with 25598 Quick TeeJet® cap. See page 57 for more information.



Tip Model	DROPS PER MIN	DROP SIZE (µm)	CAPACITY ONE NOZZLE IN l/min	50cm Field Hectares						75cm Field Hectares					
				4 km/h		6 km/h		8 km/h		4 km/h		6 km/h		8 km/h	
				l/ha	km/h	l/ha	km/h	l/ha	km/h	l/ha	km/h	l/ha	km/h	l/ha	km/h
TJ60-4002EVS TJ60-8002EVS (100)	2.0	F	0.65	195	130	97.5	78.0	52.0	39.0	130	86.7	65.0	52.0	34.7	26.0
	2.5	F	0.72	216	144	108	86.4	57.6	43.2	144	96.0	72.0	57.6	38.4	28.8
	3.0	F	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6
	4.0	F	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4
TJ60-4003EVS TJ60-8003EVS (100)	2.0	F	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
	2.5	F	1.08	324	216	162	130	86.4	64.8	216	144	108	86.4	57.6	43.2
	3.0	F	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2
	4.0	F	1.36	408	272	204	163	109	81.6	272	181	136	109	72.5	54.4
TJ60-4004EVS TJ60-8004EVS (50)	2.0	M	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6
	2.5	M	1.44	432	288	216	173	115	86.4	288	192	144	115	76.8	57.6
	3.0	F	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2
	4.0	F	1.82	546	364	273	218	146	109	364	243	182	146	97.1	72.8
TJ60-8006EVS (50)	2.0	M	1.94	582	388	291	233	155	116	388	259	194	155	103	77.6
	2.5	M	2.16	648	432	324	259	173	130	432	288	216	173	115	86.4
	3.0	M	2.37	711	474	356	284	190	142	474	316	237	190	126	94.8
	4.0	M	2.74	822	548	411	329	219	164	548	365	274	219	146	110

Tip Model	ROW SPACING		l/ha CONVERSION FACTORS*	
	40°	80°	50cm	75cm
20cm	25cm	13cm	2.50	3.75
25cm	30cm	15cm	2.00	3.00
30cm	36cm	18cm	1.67	2.50
40cm	48cm	23cm	1.25	1.88

\*To find l/ha rate on band widths, multiply the tabulated l/ha for ROW SPACING by conversion factors.

## How to order:

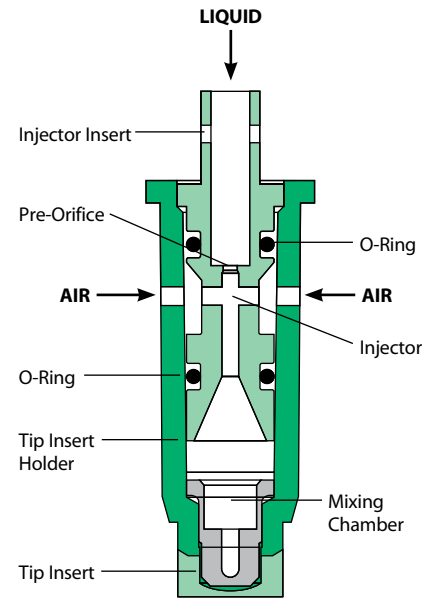
Specify tip number.  
Example:  
TJ60-4002EVS – Stainless Steel with VisiFlo color-coding

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.



## Air Induction Underleaf Banding Spray Tip

- Larger droplets for less drift.
- Off-center spray pattern with flat spray characteristics.
- Underleaf banding of pesticides or liquid fertilizers.
- Used at the end of the spray boom around the perimeter of the field to protect sensitive areas.
- Spraying pressure of 30–115 PSI (2–8 bar).
- Can be used with 25598\*-NYR Quick TeeJet® cap. See page 57 for more information.



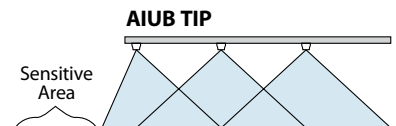
**Note:** Due to the pre-orifice design, this tip is not compatible with the 4193A check valve.

Nozzle	bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	I/ha  50cm						I/ha  75cm					
				4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
				AIUB8502 (50)	2.0 UC	0.65	195	130	97.5	78.0	52.0	39.0	130	86.7	65.0
	3.0 XC	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6	
	4.0 XC	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4	
	5.0 VC	1.02	306	204	153	122	81.6	61.2	204	136	102	81.6	54.4	40.8	
	6.0 VC	1.12	336	224	168	134	89.6	67.2	224	149	112	89.6	59.7	44.8	
	7.0 C	1.21	363	242	182	145	96.8	72.6	242	161	121	96.8	64.5	48.4	
	8.0 C	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6	
AIUB85025 (50)	2.0 UC	0.81	243	162	122	97.2	64.8	48.6	162	108	81.0	64.8	43.2	32.4	
	3.0 XC	0.99	297	198	149	119	79.2	59.4	198	132	99.0	79.2	52.8	39.6	
	4.0 XC	1.14	342	228	171	137	91.2	68.4	228	152	114	91.2	60.8	45.6	
	5.0 VC	1.28	384	256	192	154	102	76.8	256	171	128	102	68.3	51.2	
	6.0 VC	1.40	420	280	210	168	112	84.0	280	187	140	112	74.7	56.0	
	7.0 C	1.51	453	302	227	181	121	90.6	302	201	151	121	80.5	60.4	
	8.0 C	1.62	486	324	243	194	130	97.2	324	216	162	130	86.4	64.8	
AIUB8503 (50)	2.0 UC	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4	
	3.0 XC	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2	
	4.0 XC	1.36	408	272	204	163	109	81.6	272	181	136	109	72.5	54.4	
	5.0 VC	1.52	456	304	228	182	122	91.2	304	203	152	122	81.1	60.8	
	6.0 VC	1.67	501	334	251	200	134	100	334	223	167	134	89.1	66.8	
	7.0 C	1.80	540	360	270	216	144	108	360	240	180	144	96.0	72.0	
	8.0 C	1.93	579	386	290	232	154	116	386	257	193	154	103	77.2	
AIUB8504 (50)	2.0 UC	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6	
	3.0 XC	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2	
	4.0 XC	1.82	546	364	273	218	146	109	364	243	182	146	97.1	72.8	
	5.0 VC	2.04	612	408	306	245	163	122	408	272	204	163	109	81.6	
	6.0 VC	2.23	669	446	335	268	178	134	446	297	223	178	119	89.2	
	7.0 C	2.41	723	482	362	289	193	145	482	321	241	193	129	96.4	
	8.0 C	2.58	774	516	387	310	206	155	516	344	258	206	138	103	

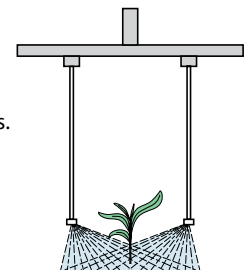
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.

## Typical Applications:

- Used at the end of the spray boom around the perimeter of the field to protect sensitive areas.



- Underleaf banding of pesticides or liquid fertilizers.



## How to order:

Specify tip number.

Example:

AIUB85025-VS – Stainless Steel with VisiFlo® color-coding

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



See pages 124–140 for useful formulas and other information.

Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	l/ha (THREE NOZZLES PER ROW)							
			110cm				120cm			
			4 km/h	5 km/h	6 km/h	8 km/h	4 km/h	5 km/h	6 km/h	8 km/h
TG-1	3.0	0.74	303	242	202	151	278	222	185	139
	4.0	0.85	348	278	232	174	319	255	213	159
	5.0	0.94	385	308	256	192	353	282	235	176
TG-2	3.0	1.49	610	488	406	305	559	447	373	279
	4.0	1.70	695	556	464	348	638	510	425	319
	5.0	1.88	769	615	513	385	705	564	470	353
TG-3	3.0	2.23	912	730	608	456	836	669	558	418
	4.0	2.55	1043	835	695	522	956	765	638	478
	5.0	2.82	1154	923	769	577	1058	846	705	529
TG-4	3.0	3.08	1260	1008	840	630	1155	924	770	578
	4.0	3.56	1456	1165	971	728	1335	1068	890	668
	5.0	3.98	1628	1303	1085	814	1493	1194	995	746
TG-5	3.0	3.72	1522	1217	1015	761	1395	1116	930	698
	4.0	4.25	1739	1391	1159	869	1594	1275	1063	797
	5.0	4.71	1927	1541	1285	963	1766	1413	1178	883
TG-6	3.0	4.59	1878	1502	1252	939	1721	1377	1148	861
	4.0	5.30	2168	1735	1445	1084	1988	1590	1325	994
	5.0	5.92	2422	1937	1615	1211	2220	1776	1480	1110
TG-8	3.0	6.17	2524	2019	1683	1262	2314	1851	1543	1157
	4.0	7.12	2913	2330	1942	1456	2670	2136	1780	1335
	5.0	7.96	3256	2605	2171	1628	2985	2388	1990	1493

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

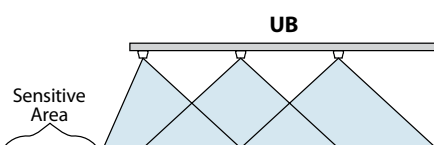
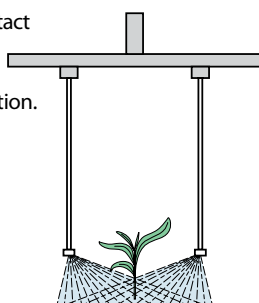
## Features:

- Off-center tip with tapered flat spray characteristics.
- 85° spray angle.
- Available in brass or stainless steel.
- Operating pressure 20–60 PSI (1.5–4 bar).
- Uniform distribution.
- Capacities of 0075 to 04.

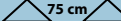


## Typical Applications:

- Underleaf band application of contact herbicides in combination with mechanical cultivation.
- Band application of contact herbicides or liquid fertilizer.



See pages 124–140 for useful formulas and other information.

Nozzle	bar	CAPACITY TWO NOZZLES IN l/min	l/ha  (TWO NOZZLES PER ROW)										
			3 km/h	3.5 km/h	4 km/h	4.5 km/h	5 km/h	5.5 km/h	6 km/h	6.5 km/h	7 km/h	7.5 km/h	8 km/h
D25143-UB-850075 (100)	1.5	0.42	112	96.0	84.0	74.7	67.2	61.1	56.0	51.7	48.0	44.8	42.0
	2.0	0.48	128	110	96.0	85.3	76.8	69.8	64.0	59.1	54.9	51.2	48.0
	2.5	0.54	144	123	108	96.0	86.4	78.5	72.0	66.5	61.7	57.6	54.0
	3.0	0.59	157	135	118	105	94.4	85.8	78.7	72.6	67.4	62.9	59.0
	3.5	0.64	171	146	128	114	102	93.1	85.3	78.8	73.1	68.3	64.0
D25143-UB-8501 (100)	1.5	0.56	149	128	112	99.6	89.6	81.5	74.7	68.9	64.0	59.7	56.0
	2.0	0.65	173	149	130	116	104	94.5	86.7	80.0	74.3	69.3	65.0
	2.5	0.72	192	165	144	128	115	105	96.0	88.6	82.3	76.8	72.0
	3.0	0.79	211	181	158	140	126	115	105	97.2	90.3	84.3	79.0
	3.5	0.85	227	194	170	151	136	124	113	105	97.1	90.7	85.0
D25143-UB-85015 (80)	1.5	0.83	221	190	166	148	133	121	111	102	94.9	88.5	83.0
	2.0	0.96	256	219	192	171	154	140	128	118	110	102	96.0
	2.5	1.08	288	247	216	192	173	157	144	133	123	115	108
	3.0	1.18	315	270	236	210	189	172	157	145	135	126	118
	3.5	1.27	339	290	254	226	203	185	169	156	145	135	127
D25143-UB-8502 (50)	1.5	1.12	299	256	224	199	179	163	149	138	128	119	112
	2.0	1.29	344	295	258	229	206	188	172	159	147	138	129
	2.5	1.44	384	329	288	256	230	209	192	177	165	154	144
	3.0	1.58	421	361	316	281	253	230	211	194	181	169	158
	3.5	1.71	456	391	342	304	274	249	228	210	195	182	171
D25143-UB-8503 (50)	1.5	1.68	448	384	336	299	269	244	224	207	192	179	168
	2.0	1.94	517	443	388	345	310	282	259	239	222	207	194
	2.5	2.16	576	494	432	384	346	314	288	266	247	230	216
	3.0	2.37	632	542	474	421	379	345	316	292	271	253	237
	3.5	2.56	683	585	512	455	410	372	341	315	293	273	256
D25143-UB-8504 (50)	1.5	2.23	595	510	446	396	357	324	297	274	255	238	223
	2.0	2.58	688	590	516	459	413	375	344	318	295	275	258
	2.5	2.88	768	658	576	512	461	419	384	354	329	307	288
	3.0	3.16	843	722	632	562	506	460	421	389	361	337	316
	3.5	3.41	909	779	682	606	546	496	455	420	390	364	341

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

## Underleaf Band Application

- Directed application under crop canopy.
- Nozzle spacing 10" (0.25 m)—two tips per row.
- Adjust tip height and nozzle orientation to achieve desired band width.

## How to order:

Specify tip number and material.

Examples:

D25143-UB-8501 – Brass

D25143-UB-8501-SS – Stainless Steel



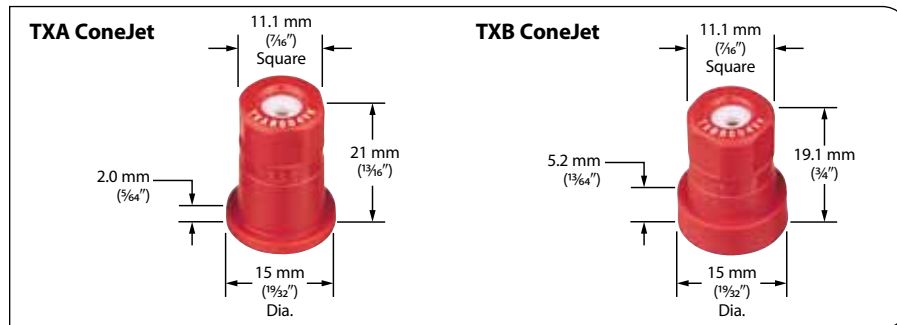
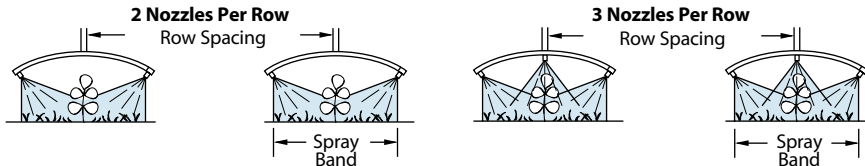
## Typical Applications:

See selection guide on page 3 for recommended typical applications for ConeJet tips.

## Features:

- Polypropylene body and ceramic orifice insert for long wear life.
- Resists corrosion.

- Accepts more abrasive materials.
- Popular nozzle sizes fit most sprayers.
- Operating pressures to 300 PSI (20 bar).
- Incorporates ISO color-coding scheme.
- Ideal for banding with two or three nozzles over the row.
- Finely atomized spray pattern provides thorough coverage.



	l/ha CONVERSION FACTORS*	
	50cm	75cm
20 cm	2.50	3.75
25 cm	2.00	3.00
30 cm	1.67	2.50
40 cm	1.25	1.88

\*To find l/ha rate on band widths, multiply the tabulated l/ha for ROW SPACING by conversion factors.

## How to order:

Specify tip number.

Example:

TXA8004VK – Ceramic with VisiFlo color-coding



Tip	Pressure (bar)	CAPACITY TWO NOZZLES IN l/min				l/ha 50 cm				l/ha 75 cm				Pressure (bar)	CAPACITY THREE NOZZLES IN l/min				l/ha 50 cm				l/ha 75 cm			
		4 km/h	6 km/h	8 km/h	10 km/h	4 km/h	6 km/h	8 km/h	10 km/h	4 km/h	6 km/h	8 km/h	10 km/h		4 km/h	6 km/h	8 km/h	10 km/h	4 km/h	6 km/h	8 km/h	10 km/h				
TXA800050VK TXB800050VK (100)	5.0	0.50	150	100	75.0	60.0	100	66.7	50.0	40.0	5.0	0.75	225	150	113	90.0	150	100	75.0	60.0						
	7.0	0.56	168	112	84.0	67.2	112	74.7	56.0	44.8	7.0	0.84	252	168	126	101	168	112	84.0	67.2						
	10.0	0.66	198	132	99.0	79.2	132	88.0	66.0	52.8	10.0	0.99	297	198	149	119	198	132	99.0	79.2						
	15.0	0.78	234	156	117	93.6	156	104	78.0	62.4	15.0	1.17	351	234	176	140	234	156	117	93.6						
20.0	0.90	270	180	135	108	180	120	90.0	72.0	20.0	1.35	405	270	203	162	270	180	135	108							
TXA800067VK TXB800067VK (50)	5.0	0.66	198	132	99.0	79.2	132	88.0	66.0	52.8	5.0	0.99	297	198	149	119	198	132	99.0	79.2						
	7.0	0.78	234	156	117	93.6	156	104	78.0	62.4	7.0	1.17	351	234	176	140	234	156	117	93.6						
	10.0	0.90	270	180	135	108	180	120	90.0	72.0	10.0	1.35	405	270	203	162	270	180	135	108						
	15.0	1.10	330	220	165	132	220	147	110	88.0	15.0	1.65	495	330	258	198	330	220	165	132						
20.0	1.24	372	248	186	149	248	165	124	99.2	20.0	1.86	558	372	279	223	372	248	186	149							
TXA8001VK TXB8001VK (50)	5.0	1.00	300	200	150	120	200	133	100	80.0	5.0	1.50	450	300	225	180	300	200	150	120						
	7.0	1.16	348	232	174	139	232	155	116	92.8	7.0	1.74	522	348	261	209	348	232	174	139						
	10.0	1.36	408	272	204	163	272	181	136	109	10.0	2.04	612	408	306	245	408	272	204	163						
	15.0	1.64	492	328	246	197	328	219	164	131	15.0	2.46	738	492	369	295	492	328	246	197						
20.0	1.86	558	372	279	223	372	248	186	149	20.0	2.79	837	558	419	335	558	372	279	223							
TXA80015VK TXB80015VK (50)	5.0	1.50	450	300	225	180	300	200	150	120	5.0	2.25	675	450	338	270	450	300	225	180						
	7.0	1.76	528	352	264	211	352	235	176	141	7.0	2.64	792	528	396	317	528	352	264	211						
	10.0	2.00	600	400	300	240	400	267	200	160	10.0	3.00	900	600	450	360	600	400	300	240						
	15.0	2.60	780	520	390	312	520	347	260	208	15.0	3.90	1170	780	585	468	780	520	390	312						
20.0	3.00	900	600	450	360	600	400	300	240	20.0	4.50	1350	900	675	540	900	600	450	360							
TXA8002VK TXB8002VK (50)	5.0	2.00	600	400	300	240	400	267	200	160	5.0	3.00	900	600	450	360	600	400	300	240						
	7.0	2.40	720	480	360	288	480	320	240	192	7.0	3.60	1080	720	540	432	720	480	360	288						
	10.0	2.80	840	560	420	336	560	373	280	224	10.0	4.20	1260	840	630	504	840	560	420	336						
	15.0	3.40	1020	680	510	408	680	453	340	272	15.0	5.10	1530	1020	765	612	1020	680	510	408						
20.0	4.00	1200	800	600	480	800	533	400	320	20.0	6.00	1800	1200	900	720	1200	800	600	480							
TXA8003VK TXB8003VK (50)	5.0	3.00	900	600	450	360	600	400	300	240	5.0	4.50	1350	900	675	540	900	600	450	360						
	7.0	3.60	1080	720	540	432	720	480	360	288	7.0	5.40	1620	1080	810	648	1080	720	540	432						
	10.0	4.40	1320	880	660	528	880	587	440	352	10.0	6.60	1980	1320	990	792	1320	880	660	528						
	15.0	5.20	1560	1040	780	624	1040	693	520	416	15.0	7.80	2340	1560	1170	936	1560	1040	780	624						
20.0	6.00	1800	1200	900	720	1200	800	600	480	20.0	9.00	2700	1800	1350	1080	1800	1200	900	720							
TXA8004VK TXB8004VK (50)	5.0	4.20	1260	840	630	504	840	560	420	336	5.0	6.30	1890	1260	945	756	1260	840	630	504						
	7.0	4.80	1440	960	720	576	960	640	480	384	7.0	7.20	2160	1440	1080	864	1440	960	720	576						
	10.0	5.80	1740	1160	870	696	1160	773	580	464	10.0	8.70	2610	1740	1305	1044	1740	1160	870	696						
	15.0	7.20	2160	1440	1080	864	1440	960	720	576	15.0	10.80	3240	2160	1620	1296	2160	1440	1080	864						
20.0	8.20	2460	1640	1230	984	1640	1093	820	656	20.0	12.30	3690	2460	1845	1476	2460	1640	1230	984							

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# ConeJet® VisiFlo® Hollow Cone Spray Tips

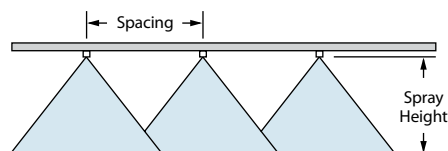
## Typical Applications:

**Excellent:** Use for 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.

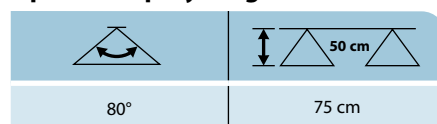
**Good:** For use with defoliants and foliar fertilizers at pressures 40 PSI (3 bar) and above.

## Features:

- VisiFlo color-coded version consists of stainless steel or ceramic orifice in polypropylene body. Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Finely atomized spray pattern provides thorough coverage.
- TX-VS1 and TX-VS2 available in VisiFlo color-coded stainless steel only.



## Optimum Spray Height



## How to order:

Specify tip number.

Examples:

- TX-VS4 – Stainless Steel with VisiFlo color-coding
- TX-4 – Brass
- TX-SS4 – Stainless Steel
- TX-VK4 – Ceramic with VisiFlo color-coding

Tip	Pressure (bar)	l/min																		
		2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar	17 bar	18 bar	19 bar	20 bar
TX-VS1	100	0.055	0.065	0.074	0.081	0.087	0.093	0.098	0.103	0.108	0.112	0.116	0.120	0.124	0.127	0.131	0.134	0.137	0.140	0.143
TX-VS2	100	0.110	0.131	0.148	0.164	0.177	0.189	0.201	0.211	0.221	0.231	0.240	0.248	0.256	0.264	0.272	0.279	0.286	0.293	0.299
TX-VK3	100	0.164	0.196	0.223	0.245	0.266	0.284	0.301	0.317	0.332	0.346	0.359	0.372	0.384	0.396	0.407	0.418	0.429	0.439	0.449
TX-VK4	50	0.218	0.262	0.299	0.331	0.360	0.386	0.410	0.433	0.454	0.474	0.493	0.512	0.529	0.546	0.562	0.578	0.594	0.608	0.623
TX-VK6	50	0.327	0.393	0.448	0.496	0.539	0.579	0.615	0.649	0.681	0.711	0.740	0.767	0.794	0.819	0.844	0.867	0.890	0.912	0.934
TX-VK8	50	0.433	0.525	0.603	0.671	0.732	0.788	0.840	0.888	0.934	0.978	1.02	1.06	1.10	1.13	1.17	1.20	1.24	1.27	1.30
TX-VK10	50	0.541	0.657	0.753	0.838	0.915	0.985	1.05	1.11	1.17	1.22	1.27	1.32	1.37	1.42	1.46	1.50	1.55	1.59	1.63
TX-VK12	50	0.649	0.788	0.904	1.01	1.10	1.18	1.26	1.33	1.40	1.47	1.53	1.59	1.65	1.70	1.75	1.81	1.86	1.90	1.95
TX-VK18	50	0.968	1.18	1.37	1.53	1.67	1.80	1.93	2.04	2.15	2.25	2.35	2.45	2.54	2.63	2.72	2.80	2.88	2.96	3.03
TX-VK26	50	1.40	1.71	1.97	2.20	2.41	2.60	2.78	2.95	3.11	3.26	3.40	3.54	3.67	3.80	3.92	4.04	4.16	4.27	4.38

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.

# ConeJet® VisiFlo® Hollow Cone Spray Tips



## Typical Applications:

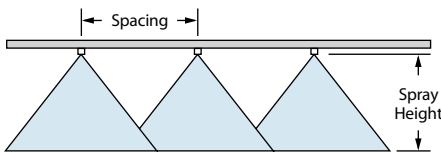
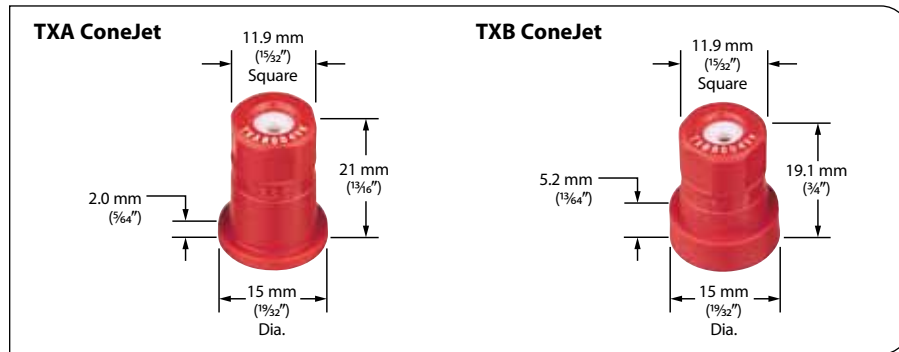
**Excellent:** Use for directed applications in air blast spraying for orchards and vineyards and other specialty crops. Also well-suited for applications of insecticides, fungicides, defoliants and foliar fertilizers at pressures of 40 PSI (3 bar) and above.

**Good:** For use with defoliants and foliar fertilizers at pressures 40 PSI (3 bar) and above.

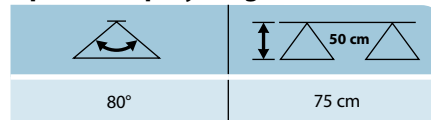
## Features:

- Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Finely atomized spray pattern provides thorough coverage.

- Longer wear life.
- Resists corrosion.
- Accepts more abrasive pesticide formulation.
- Polypropylene body for use with corrosive materials and ceramic insert.
- Popular nozzle sizes fit most sprayers.
- Incorporates ISO color-coding scheme.



## Optimum Spray Height



## How to order:

Specify tip number.

Example:

TXA8004VK – Ceramic with VisiFlo color-coding

Tip Part Number	Tip Size (mm)	l/min																		
		2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar	17 bar	18 bar	19 bar	20 bar
TXA800050VK TXB800050VK (100)	100	0.164	0.196	0.223	0.245	0.266	0.284	0.301	0.317	0.332	0.346	0.359	0.372	0.384	0.396	0.407	0.418	0.429	0.439	0.449
TXA800067VK TXB800067VK (50)	50	0.218	0.262	0.299	0.331	0.360	0.386	0.410	0.433	0.454	0.474	0.493	0.512	0.529	0.546	0.562	0.578	0.594	0.608	0.623
TXA8001VK TXB8001VK (50)	50	0.327	0.393	0.448	0.496	0.539	0.579	0.615	0.649	0.681	0.711	0.740	0.767	0.794	0.819	0.844	0.867	0.890	0.912	0.934
TXA80015VK TXB80015VK (50)	50	0.487	0.591	0.678	0.754	0.823	0.886	0.944	0.999	1.05	1.10	1.15	1.19	1.23	1.28	1.32	1.35	1.39	1.43	1.46
TXA8002VK TXB8002VK (50)	50	0.649	0.788	0.904	1.01	1.10	1.18	1.26	1.33	1.40	1.47	1.53	1.59	1.65	1.70	1.75	1.81	1.86	1.90	1.95
TXA8003VK TXB8003VK (50)	50	0.968	1.18	1.37	1.53	1.67	1.80	1.93	2.04	2.15	2.25	2.35	2.45	2.54	2.63	2.72	2.80	2.88	2.96	3.03
TXA8004VK TXB8004VK (50)	50	1.29	1.58	1.82	2.03	2.23	2.40	2.57	2.72	2.87	3.01	3.14	3.27	3.39	3.51	3.62	3.73	3.84	3.94	4.04

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# AITX ConeJet® Air Induction Hollow Cone Spray Tips

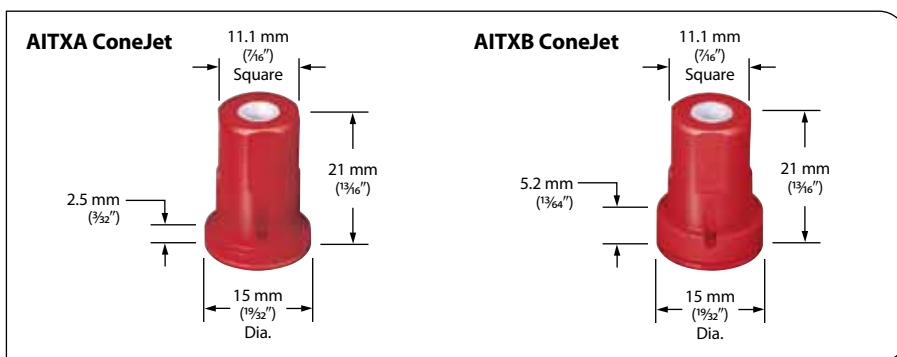
## Typical Applications:

Hollow cone spray pattern is ideal for air blast and directed spray applications.

## Features:

- Constructed of polypropylene, ceramic and Viton® for excellent chemical and wear resistance.
- Removable pre-orifice for fast and easy cleaning.
- Available in VisiFlo® ceramic (VK).
- Larger droplets are produced, as compared to standard TX ConeJet, through the use of a venturi air aspirator resulting in reduced drift and improved canopy penetration.

- Ideal for sprayers equipped with automatic control systems.
- AITXA to be used with CP25607-<sup>\*</sup>-NY Quick TeeJet cap.
- AITXB to be used with Albuz® caps or equivalent.
- Suggested spray pressure of 60–300 PSI (4–20 bar).



## How to order:

Specify tip number.

Example:

AITXA8001VK – Ceramic with VisiFlo color-coding

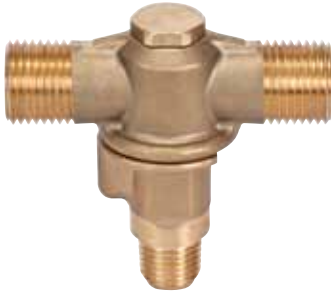
Tip	Flow	l/min																
		4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar	17 bar	18 bar	19 bar	20 bar
AITX†8001VK	50	0.449	0.499	0.545	0.586	0.625	0.661	0.695	0.727	0.758	0.787	0.816	0.843	0.869	0.895	0.920	0.944	0.967
		XC	XC	VC	VC	C	C	C	C	C	C	C	C	M	M	M	M	M
AITX†80015VK	50	0.674	0.753	0.824	0.889	0.950	1.01	1.06	1.11	1.16	1.21	1.25	1.30	1.34	1.38	1.42	1.46	1.49
		XC	XC	VC	VC	VC	C	C	C	C	C	C	C	C	C	M	M	M
AITX†8002VK	50	0.920	1.03	1.13	1.22	1.30	1.38	1.46	1.53	1.60	1.67	1.73	1.79	1.85	1.91	1.96	2.02	2.07
		XC	XC	XC	XC	XC	VC	VC	VC	VC	VC	C	C	C	C	C	C	C
AITX†80025VK	50	1.12	1.25	1.37	1.48	1.58	1.67	1.77	1.85	1.93	2.01	2.09	2.16	2.23	2.30	2.37	2.43	2.49
		UC	UC	XC	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC
AITX†8003VK	50	1.34	1.50	1.65	1.78	1.91	2.02	2.14	2.24	2.34	2.44	2.54	2.63	2.72	2.80	2.88	2.96	3.04
		UC	UC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	C	C	C
AITX†8004VK	50	1.79	2.00	2.20	2.38	2.54	2.70	2.85	2.99	3.13	3.26	3.38	3.50	3.62	3.74	3.85	3.95	4.06
		UC	UC	UC	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC

†Specify "A" or "B." **Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for drop size classification, useful formulas and other information.





## Typical Assembly



4514-NY  
Slotted Strainer\*



Core



Disc



CP20230  
TeeJet Cap

\*Use CP20229-NY gasket when 4514-NY Nylon slotted strainer is not used.

## 98452 Double Outlet Rollover

For a complete listing of rollover options, please see page 61.



## TeeJet® VisiFlo Flat Spray Tips

### Typical Applications:

**Excellent:** Use for 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.

### Features:

- Tapered-edge flat spray pattern for uniform coverage.
- VisiFlo color-coded version available with ceramic orifice.
- Maximum pressure rating of 300 PSI (20 bar).



		l/min																		
		2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar	17 bar	18 bar	19 bar	20 bar
TP8001VK	100	0.32	0.39	0.45	0.50	0.55	0.60	0.64	0.68	0.71	0.75	0.78	0.81	0.84	0.87	0.90	0.93	0.96	0.98	1.01
TP80015VK	100	0.48	0.59	0.68	0.76	0.83	0.90	0.96	1.02	1.08	1.13	1.18	1.23	1.27	1.32	1.36	1.40	1.45	1.48	1.52
TP8002VK	50	0.65	0.79	0.91	1.02	1.12	1.21	1.29	1.37	1.44	1.51	1.58	1.64	1.71	1.77	1.82	1.88	1.94	1.99	2.04
XR8003VK	50	0.96	1.18	1.36	1.52	1.67	1.80	1.93	2.04	2.15	2.26	2.36	2.46	2.55	2.64	2.73	2.81	2.89	2.97	3.05
XR8004VK	50	1.29	1.58	1.82	2.04	2.23	2.41	2.58	2.74	2.88	3.03	3.16	3.29	3.41	3.53	3.65	3.76	3.87	3.98	4.08
XR8005VK	50	1.61	1.97	2.27	2.54	2.79	3.01	3.22	3.41	3.60	3.77	3.94	4.10	4.26	4.41	4.55	4.69	4.83	4.96	5.09
XR8006VK	50	1.94	2.37	2.74	3.06	3.35	3.62	3.87	4.10	4.33	4.54	4.74	4.93	5.12	5.30	5.47	5.64	5.81	5.96	6.12
XR8008VK	50	2.58	3.16	3.65	4.08	4.47	4.83	5.16	5.47	5.77	6.05	6.32	6.58	6.83	7.07	7.30	7.52	7.74	7.95	8.16

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# TeeJet® Disc-Core Type Hollow Cone Spray Tips

## Typical Assembly with Ceramic Disc and Core



\*Use CP20229-NY gasket when 4514-NY Nylon slotted strainer is not used.

## Hollow Cone Type Spray Tips

Nozzle	Disc	mm	l/min												°		
			0.7 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	10 bar	15 bar	20 bar	1 bar	10 bar	20 bar		
D1	DC13	0.79	—	—	0.22	0.26	0.29	0.32	0.34	0.43	0.50	0.57	—	66°	68°		
D1.5	DC13	0.91	—	—	0.25	0.29	0.33	0.36	0.39	0.48	0.56	0.63	—	70°	72°		
D2	DC13	1.0	—	0.22	0.29	0.33	0.37	0.41	0.44	0.53	0.63	0.70	41°	74°	75°		
D3	DC13	1.2	—	0.24	0.30	0.35	0.41	0.44	0.48	0.59	0.68	0.77	45°	77°	78°		
D4	DC13	1.6	0.27	0.31	0.40	0.47	0.53	0.59	0.63	0.76	0.89	1.0	64°	84°	85°		
D1	DC23	0.79	—	—	0.24	0.28	0.32	0.34	0.38	0.46	0.54	0.61	—	63°	65°		
D1.5	DC23	0.91	—	—	0.28	0.34	0.39	0.42	0.46	0.58	0.69	0.78	—	66°	67°		
D2	DC23	1.0	—	0.28	0.37	0.43	0.49	0.53	0.57	0.70	0.83	0.93	43°	72°	72°		
D3	DC23	1.2	0.25	0.29	0.39	0.46	0.52	0.58	0.62	0.78	0.93	1.1	56°	77°	77°		
D4	DC23	1.6	0.32	0.37	0.51	0.61	0.70	0.77	0.83	1.1	1.3	1.4	62°	88°	88°		
D5	DC23	2.0	0.37	0.44	0.59	0.72	0.82	0.91	0.98	1.3	1.5	1.7	73°	96°	95°		
D6	DC23	2.4	0.42	0.50	0.69	0.83	0.95	1.1	1.2	1.5	1.8	2.0	79°	100°	99°		
D1	DC25	0.79	—	—	0.33	0.40	0.45	0.50	0.54	0.69	0.83	0.95	—	49°	51°		
D1.5	DC25	0.91	—	—	0.45	0.53	0.61	0.67	0.73	0.91	1.1	1.2	—	54°	55°		
D2	DC25	1.0	—	0.37	0.51	0.62	0.71	0.79	0.86	1.1	1.3	1.5	32°	61°	61°		
D3	DC25	1.2	0.39	0.45	0.63	0.75	0.86	0.95	1.0	1.3	1.6	1.8	47°	69°	69°		
D4	DC25	1.6	0.57	0.68	0.94	1.1	1.3	1.4	1.6	2.0	2.4	2.8	63°	82°	82°		
D5	DC25	2.0	0.64	0.81	1.1	1.4	1.6	1.7	1.9	2.4	2.9	3.3	70°	85°	84°		
D6	DC25	2.4	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.8	4.4	77°	89°	88°		
D7	DC25	2.8	1.0	1.2	1.7	2.0	2.3	2.6	2.9	3.7	4.5	5.1	83°	92°	91°		
D8	DC25	3.2	1.2	1.4	2.0	2.4	2.8	3.1	3.4	4.4	5.3	6.2	89°	96°	95°		
D10	DC25	4.0	1.5	1.7	2.4	3.0	3.5	3.9	4.2	5.5	6.7	7.7	94°	102°	101°		
D12	DC25	4.8	1.8	2.2	3.0	3.7	4.3	4.8	5.2	6.7	8.2	9.5	101°	111°	110°		
D14	DC25	5.6	1.9	2.3	3.3	4.1	4.7	5.2	5.8	7.5	9.1	10.2	105°	113°	112°		
D1	DC45	0.79	—	—	—	0.48	0.56	0.61	0.67	0.84	1.0	1.2	—	39°	40°		
D1.5	DC45	0.91	—	—	0.53	0.64	0.74	0.81	0.90	1.1	1.4	1.7	—	48°	50°		
D2	DC45	1.0	—	0.43	0.66	0.80	0.91	1.0	1.1	1.4	1.7	2.0	26°	58°	58°		
D3	DC45	1.2	—	0.53	0.74	0.91	1.0	1.2	1.3	1.6	2.0	2.3	34°	62°	62°		
D4	DC45	1.6	0.67	0.80	1.1	1.4	1.6	1.8	2.0	2.5	3.1	3.6	59°	73°	72°		
D5	DC45	2.0	0.87	1.0	1.5	1.8	2.0	2.3	2.5	3.2	3.9	4.5	63°	76°	75°		
D6	DC45	2.4	1.1	1.3	1.9	2.3	2.7	3.0	3.3	4.3	5.3	6.1	70°	80°	79°		
D7	DC45	2.8	1.3	1.5	2.2	2.7	3.1	3.5	3.9	5.0	6.2	7.2	78°	86°	85°		
D8	DC45	3.2	1.6	1.9	2.7	3.3	3.9	4.3	4.8	6.2	7.6	8.9	84°	89°	88°		
D10	DC45	4.0	2.0	2.5	3.5	4.4	5.0	5.6	6.2	8.0	9.8	11.5	88°	92°	91°		
D12	DC45	4.8	2.5	3.1	4.4	5.3	6.2	6.9	7.6	9.8	12.1	14.0	95°	101°	100°		
D14	DC45	5.6	2.8	3.4	4.9	6.0	7.0	7.8	8.6	11.2	13.6	15.9	99°	104°	103°		
D16	DC45	6.4	3.3	4.0	5.7	7.1	8.2	9.3	10.2	13.2	16.3	19.1	106°	111°	110°		
D1	DC46	0.79	—	—	—	0.58	0.66	0.74	0.81	1.0	1.3	1.5	—	17°	17°		
D1.5	DC46	0.91	—	—	—	0.84	0.97	1.1	1.2	1.5	1.8	2.1	—	18°	18°		
D2	DC46	1.0	—	—	0.89	1.1	1.2	1.3	1.5	1.9	2.2	2.5	—	20°	18°		
D3	DC46	1.2	—	—	1.0	1.3	1.5	1.6	1.8	2.3	2.8	3.2	—	23°	21°		
D4	DC46	1.6	1.1	1.3	1.8	2.2	2.5	2.8	3.2	4.0	4.9	5.7	20°	32°	31°		
D5	DC46	2.0	1.4	1.7	2.5	3.0	3.5	3.9	4.3	5.6	6.8	7.9	28°	41°	40°		
D6	DC46	2.4	2.1	2.5	3.6	4.4	5.0	5.7	6.2	8.0	9.8	11.4	38°	49°	47°		
D7	DC46	2.8	—	—	4.5	5.5	6.3	7.1	7.8	10.0	12.3	13.8	—	55°	53°		
D8	DC46	3.2	—	—	5.9	7.2	8.3	9.3	10.2	13.2	16.3	18.8	—	61°	59°		
D10	DC46	4.0	—	—	7.9	9.7	11.3	12.6	13.8	17.9	22	25	—	66°	64°		

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.

**Hollow Cone Spray Pattern**  
Produced by Cores #13, 23, 25, 45 & 46



### CP26277-1-NY Quick TeeJet® Cap

For ceramic disc and core.  
See page 57 for ordering information.

### How to order:

To order orifice disc only, specify disc number and material.

Examples:

- DCER-2 – Ceramic
- D2 – Hardened Stainless Steel
- DE-2 – Stainless Steel
- DVP-2 – Polymer

To order core only, specify core number and material.

Examples:

- DC13-CER – Ceramic
- DC13-HSS – Hardened Stainless Steel
- DC13 – Brass
- DC13-NY – Nylon

**STRAINER NOTE:** For nozzles using orifice disc numbers 1, 1.5 and 2, or core numbers 31 and 33, slotted strainer number 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer number 4514-32 equivalent to 16 mesh screen size is required.



## Typical Applications:

For spraying pesticides at higher pressures and flow rates. Especially suitable for wettable powders and other abrasive chemicals. Larger capacity nozzles are also used in air blast sprayers.

## Features:

- Produce smaller droplets for thorough coverage with contact pesticides and foliar applications.
- Maximum spray pressure to 300 PSI (20 bar).

## Orifice Discs

Available in a variety of sizes and materials. Ceramic for increased wear life, hardened stainless steel, stainless steel and polymer.



## Ceramic Sizes Available:

DCER-2 through DCER-8, DCER-10.

**Full Cone Spray Pattern**  
Produced by Cores #31, 33, 35 & 56



## Cores

Standard cores are made of brass. Also available in ceramic, hardened stainless steel and Nylon. All cores with the exception of ceramic are made with rear "nibs." Make sure core is always placed with the nib facing the nozzle body.



## Ceramic Sizes Available:

DC13-CER, DC23-CER, DC25-CER, DC31-CER, DC33-CER, DC35-CER, DC45-CER, DC46-CER, DC56-CER.



## Full Cone Type Spray Tips

Orifice Disc	Core	mm	l/min										°		
			0.7 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	10 bar	15 bar	20 bar	1 bar	10 bar	20 bar
D1	DC31	0.79	0.31	0.36	0.49	0.59	0.67	0.74	0.80	1.0	1.2	1.4	42°	40°	38°
D1.5	DC31	0.91	0.39	0.45	0.63	0.76	0.86	0.95	1.0	1.3	1.6	1.8	54°	46°	40°
D2	DC31	1.0	0.45	0.53	0.72	0.86	0.98	1.1	1.2	1.5	1.8	2.0	56°	54°	49°
D3	DC31	1.2	0.49	0.58	0.80	0.95	1.1	1.2	1.3	1.6	1.9	2.2	58°	67°	58°
D1	DC33	0.79	0.32	0.36	0.46	0.56	0.64	0.71	0.78	0.98	1.2	1.4	24°	37°	37°
D1.5	DC33	0.91	0.42	0.47	0.63	0.75	0.85	0.95	1.0	1.3	1.6	1.9	34°	46°	45°
D2	DC33	1.0	0.47	0.56	0.78	0.95	1.1	1.2	1.3	1.7	2.0	2.3	42°	55°	52°
D3	DC33	1.2	0.57	0.68	0.95	1.1	1.3	1.5	1.6	2.0	2.5	2.8	46°	57°	56°
D4	DC33	1.6	0.78	0.91	1.3	1.5	1.7	1.9	2.1	2.7	3.3	3.7	49°	63°	63°
D1	DC35	0.79	0.30	0.36	0.48	0.58	0.65	0.71	0.78	0.97	1.2	1.3	16°	27°	27°
D1.5	DC35	0.91	0.41	0.47	0.63	0.76	0.85	0.94	1.0	1.3	1.5	1.7	19°	30°	30°
D2	DC35	1.0	0.53	0.62	0.83	0.99	1.1	1.2	1.3	1.7	2.0	2.2	38°	45°	40°
D3	DC35	1.2	0.58	0.72	0.98	1.2	1.3	1.5	1.6	2.0	2.4	2.8	42°	48°	42°
D4	DC35	1.6	1.0	1.2	1.6	2.0	2.3	2.5	2.8	3.5	4.2	4.8	65°	68°	60°
D5	DC35	2.0	1.3	1.6	2.2	2.6	3.0	3.3	3.6	4.5	5.5	6.3	65°	69°	62°
D2	DC56	1.0	—	—	0.80	0.98	1.1	1.2	1.4	1.8	2.2	2.5	—	18°	16°
D3	DC56	1.2	—	—	1.1	1.3	1.6	1.7	1.9	2.4	3.0	3.4	—	24°	22°
D4	DC56	1.6	—	1.3	1.8	2.2	2.5	2.8	3.1	4.0	4.8	5.6	18°	30°	28°
D5	DC56	2.0	1.4	1.8	2.5	3.0	3.5	3.9	4.3	5.5	6.7	7.8	24°	35°	33°
D6	DC56	2.4	2.2	2.7	3.7	4.5	5.3	5.9	6.5	8.5	10.2	11.9	31°	40°	38°
D7	DC56	2.8	2.9	3.4	4.9	6.0	6.9	7.7	8.5	11.0	13.5	15.6	42°	53°	51°
D8	DC56	3.2	3.7	4.4	6.2	7.6	8.8	9.8	10.8	13.9	17.0	19.6	48°	58°	56°
D10	DC56	4.0	5.1	6.1	8.6	10.6	12.2	13.6	15.0	19.3	24	27	57°	66°	64°

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124-140 for useful formulas and other information.

## How to order:

To order orifice disc only, specify disc number and material.

Examples:

- DCER-2 – Ceramic
- D2 – Hardened Stainless Steel
- DE-2 – Stainless Steel
- DVP-2 – Polymer

To order core only, specify core number and material.

Examples:

- DC13-CER – Ceramic
- DC13-HSS – Hardened Stainless Steel
- DC13 – Brass
- DC13-NY – Nylon
- CP18999-EPR Seal Gasket

**STRAINER NOTE:** For nozzles using orifice disc numbers 1, 1.5 and 2; or core numbers 31 and 33, slotted strainer number 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer number 4514-32 equivalent to 16 mesh screen size is required.



# StreamJet SJ3 Fertilizer Nozzles



## Typical Applications:

- Excellent for application of liquid fertilizer on bare ground or in standing crop.
- 3-stream pattern is ideal for directed application.

## Features:

- VisiFlo® color-coding system.
- Three solid streams of equal velocity and capacity.
- Removable metering orifice for easy cleaning.
- Ten sizes for a wide range of application rates.

- Equally spaced distribution at 20" (50 cm) height.
- Use with Quick TeeJet® cap 25598-\*-NYR.
- All acetal construction for excellent chemical resistance.
- See page 125 for liquid density conversion factors.
- Recommended operating pressure: 20–60 PSI (1.5–4 bar).
- Solid stream pattern minimizes leaf burn and virtually eliminates drift.

## Optimum Spray Height

50 cm	50 cm
75 cm	75 cm
100 cm	100 cm



## How to order:

Specify tip number.

Example:

SJ3-03-VP – Polymer with VisiFlo color-coding

Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	I/ha  50 cm									
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	20 km/h	25 km/h	30 km/h	35 km/h
SJ3-015-VP (100)	1.5	0.44	132	88.0	66.0	52.8	44.0	33.0	26.4	21.1	17.6	15.1
	2.0	0.50	150	100	75.0	60.0	50.0	37.5	30.0	24.0	20.0	17.1
	2.5	0.54	162	108	81.0	64.8	54.0	40.5	32.4	25.9	21.6	18.5
	3.0	0.58	174	116	87.0	69.6	58.0	43.5	34.8	27.8	23.2	19.9
	4.0	0.65	195	130	97.5	78.0	65.0	48.8	39.0	31.2	26.0	22.3
SJ3-02-VP (50)	1.5	0.57	171	114	85.5	68.4	57.0	42.8	34.2	27.4	22.8	19.5
	2.0	0.64	192	128	96.0	76.8	64.0	48.0	38.4	30.7	25.6	21.9
	2.5	0.70	210	140	105	84.0	70.0	52.5	42.0	33.6	28.0	24.0
	3.0	0.78	234	156	117	93.6	78.0	58.5	46.8	37.4	31.2	26.7
	4.0	0.85	255	170	128	102	85.0	63.8	51.0	40.8	34.0	29.1
SJ3-03-VP (50)	1.5	0.91	273	182	137	109	91.0	68.3	54.6	43.7	36.4	31.2
	2.0	1.01	303	202	152	121	101	75.8	60.6	48.5	40.4	34.6
	2.5	1.10	330	220	165	132	110	82.5	66.0	52.8	44.0	37.7
	3.0	1.18	354	236	177	142	118	88.5	70.8	56.6	47.2	40.5
	4.0	1.31	393	262	197	157	131	98.3	78.6	62.9	52.4	44.9
SJ3-04-VP (50)	1.5	1.17	351	234	176	140	117	87.8	70.2	56.2	46.8	40.1
	2.0	1.32	396	264	198	158	132	99.0	79.2	63.4	52.8	45.3
	2.5	1.45	435	290	218	174	145	109	87.0	69.6	58.0	49.7
	3.0	1.56	468	312	234	187	156	117	93.6	74.9	62.4	53.5
	4.0	1.75	525	350	263	210	175	131	105	84.0	70.0	60.0
SJ3-05-VP (50)	1.5	1.42	426	284	213	170	142	107	85.2	68.2	56.8	48.7
	2.0	1.63	489	326	245	196	163	122	97.8	78.2	65.2	55.9
	2.5	1.82	546	364	273	218	182	137	109	87.4	72.8	62.4
	3.0	1.96	588	392	294	235	196	147	118	94.1	78.4	67.2
	4.0	2.18	654	436	327	262	218	164	131	105	87.2	74.7
SJ3-06-VP (50)	1.5	1.69	507	338	254	203	169	127	101	81.1	67.6	57.9
	2.0	1.97	591	394	296	236	197	148	118	94.6	78.8	67.5
	2.5	2.21	663	442	332	265	221	166	133	106	88.4	75.8
	3.0	2.40	720	480	360	288	240	180	144	115	96.0	82.3
	4.0	2.63	789	526	395	316	263	197	158	126	105	90.2
SJ3-08-VP	1.5	2.32	696	464	348	278	232	174	139	111	92.8	79.5
	2.0	2.74	822	548	411	329	274	206	164	132	110	93.9
	2.5	2.94	882	588	441	353	294	221	176	141	118	101
	3.0	3.13	939	626	470	376	313	235	188	150	125	107
	4.0	3.50	1050	700	525	420	350	263	210	168	140	120
SJ3-10-VP	1.5	2.73	819	546	410	328	273	205	164	131	109	93.6
	2.0	3.30	990	660	495	396	330	248	198	158	132	113
	2.5	3.55	1065	710	533	426	355	266	213	170	142	122
	3.0	3.91	1173	782	587	469	391	293	235	188	156	134
	4.0	4.44	1332	888	666	533	444	333	266	213	178	152
SJ3-15-VP	1.5	3.91	1173	782	587	469	391	293	235	188	156	134
	2.0	4.64	1392	928	696	557	464	348	278	223	186	159
	2.5	5.29	1587	1058	794	635	529	397	317	254	212	181
	3.0	5.86	1758	1172	879	703	586	440	352	281	234	201
	4.0	6.76	2028	1352	1014	811	676	507	406	324	270	232
SJ3-20-VP	1.5	5.58	1674	1116	837	670	558	419	335	268	223	191
	2.0	6.48	1944	1296	972	778	648	486	389	311	259	222
	2.5	7.31	2193	1462	1097	877	731	548	439	351	292	251
	3.0	8.05	2415	1610	1208	966	805	604	483	386	322	276
	4.0	9.31	2793	1862	1397	1117	931	698	559	447	372	319

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.

# StreamJet SJ7 Fertilizer Nozzles



## Typical Application:

- Excellent for application of liquid fertilizer on bare ground or in standing crop.
- 7-stream pattern is ideal for broadcast application.

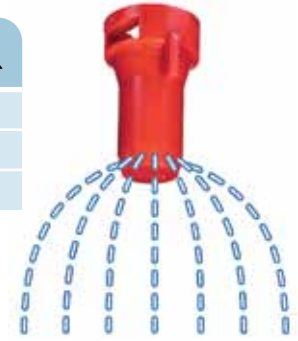
## Features:

- 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).
- Solid stream pattern minimizes leaf burn and virtually eliminates drift.

## Optimum Spray Height

50 cm	50 cm
75 cm	75 cm
100 cm	100 cm



**How to order:**  
Specify nozzle number.  
Example: SJ7-04-VP



**50854-NYB  
Extension Adapter**



Nozzle Model	Pressure (bar)	Capacity One Nozzle (l/min)	I/ha									
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	16 km/h	20 km/h	25 km/h	30 km/h	35 km/h
SJ7-015-VP (100)	1.5	0.39	117	78.0	58.5	46.8	39.0	29.3	23.4	18.7	15.6	13.4
	2.0	0.46	138	92.0	69.0	55.2	46.0	34.5	27.6	22.1	18.4	15.8
	2.5	0.52	156	104	78.0	62.4	52.0	39.0	31.2	25.0	20.8	17.8
	3.0	0.57	171	114	85.5	68.4	57.0	42.8	34.2	27.4	22.8	19.5
	4.0	0.67	201	134	101	80.4	67.0	50.3	40.2	32.2	26.8	23.0
SJ7-02-VP (50)	1.5	0.55	165	110	82.5	66.0	55.0	41.3	33.0	26.4	22.0	18.9
	2.0	0.64	192	128	96.0	76.8	64.0	48.0	38.4	30.7	25.6	21.9
	2.5	0.72	216	144	108	86.4	72.0	54.0	43.2	34.6	28.8	24.7
	3.0	0.80	240	160	120	96.0	80.0	60.0	48.0	38.4	32.0	27.4
	4.0	0.93	279	186	140	112	93.0	69.8	55.8	44.6	37.2	31.9
SJ7-03-VP (50)	1.5	0.87	261	174	131	104	87.0	65.3	52.2	41.8	34.8	29.8
	2.0	1.00	300	200	150	120	100	75.0	60.0	48.0	40.0	34.3
	2.5	1.10	330	220	165	132	110	82.5	66.0	52.8	44.0	37.7
	3.0	1.18	354	236	177	142	118	88.5	70.8	56.6	47.2	40.5
	4.0	1.31	393	262	197	157	131	98.3	78.6	62.9	52.4	44.9
SJ7-04-VP (50)	1.5	1.17	351	234	176	140	117	87.8	70.2	56.2	46.8	40.1
	2.0	1.33	399	266	200	160	133	99.8	79.8	63.8	53.2	45.6
	2.5	1.45	435	290	218	174	145	109	87.0	69.6	58.0	49.7
	3.0	1.55	465	310	233	186	155	116	93.0	74.4	62.0	53.1
	4.0	1.72	516	344	258	206	172	129	103	82.6	68.8	59.0
SJ7-05-VP (50)	1.5	1.49	447	298	224	179	149	112	89.4	71.5	59.6	51.1
	2.0	1.68	504	336	252	202	168	126	101	80.6	67.2	57.6
	2.5	1.83	549	366	275	220	183	137	110	87.8	73.2	62.7
	3.0	1.95	585	390	293	234	195	146	117	93.6	78.0	66.9
	4.0	2.16	648	432	324	259	216	162	130	104	86.4	74.1
SJ7-06-VP (50)	1.5	1.77	531	354	266	212	177	133	106	85.0	70.8	60.7
	2.0	2.01	603	402	302	241	201	151	121	96.5	80.4	68.9
	2.5	2.19	657	438	329	263	219	164	131	105	87.6	75.1
	3.0	2.35	705	470	353	282	235	176	141	113	94.0	80.6
	4.0	2.61	783	522	392	313	261	196	157	125	104	89.5
SJ7-08-VP	1.5	2.28	684	456	342	274	228	171	137	109	91.2	78.2
	2.0	2.66	798	532	399	319	266	200	160	128	106	91.2
	2.5	2.94	882	588	441	353	294	221	176	141	118	101
	3.0	3.15	945	630	473	378	315	236	189	151	126	108
	4.0	3.46	1038	692	519	415	346	260	208	166	138	119
SJ7-10-VP	1.5	2.84	852	568	426	341	284	213	170	136	114	97.4
	2.0	3.32	996	664	498	398	332	249	199	159	133	114
	2.5	3.67	1101	734	551	440	367	275	220	176	147	126
	3.0	3.94	1182	788	591	473	394	296	236	189	158	135
	4.0	4.33	1299	866	650	520	433	325	260	208	173	148
SJ7-15-VP	1.5	4.09	1227	818	614	491	409	307	245	196	164	140
	2.0	4.82	1446	964	723	578	482	362	289	231	193	165
	2.5	5.40	1620	1080	810	648	540	405	324	259	216	185
	3.0	5.87	1761	1174	881	704	587	440	352	282	235	201
	4.0	6.58	1974	1316	987	790	658	494	395	316	263	226

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.



# TeeJet® Flow Regulators

Flow Regulators are usually mounted behind cultivator shanks for the subsurface application of liquid fertilizers and soil fumigants. They are also used for above-ground streaming applications.

### How to order:

Specify orifice plate number.  
Example: CP4916-008

### Typical Assembly



**Note: Always insert Orifice Plate** with side marked with number facing the outlet.  
MATERIAL: Stainless Steel

To determine l/ha for orifice plates, use the following equations:

$$l/ha = \frac{60,000 \times l/min \text{ (per nozzle)}}{km/h \times W}$$

Tabulated flow rates are for spraying water into air at atmospheric pressure. If your application creates backpressure, or if spraying into a liquid, measure and calibrate to ensure proper application rates. For spraying solutions other than water, see page 125 for conversion factors.

- W = Nozzle spacing (in cm) for broadcast spraying.
- = Spray width (in cm) for single nozzle, band spraying or boomless spraying.
- = Row spacing (in cm) divided by the number of nozzles per row for directed spraying.

Orifice Plate	l/min						
	0.5 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar
CP4916-008	0.013	0.018	0.023	0.026	0.029	0.032	0.037
CP4916-10	0.021	0.029	0.036	0.042	0.047	0.051	0.059
CP4916-12	0.031	0.043	0.053	0.061	0.068	0.075	0.087
CP4916-14	0.040	0.057	0.070	0.081	0.090	0.099	0.11
CP4916-15	0.045	0.064	0.078	0.090	0.10	0.11	0.13
CP4916-16	0.053	0.075	0.092	0.11	0.12	0.13	0.15
CP4916-18	0.069	0.098	0.12	0.14	0.16	0.17	0.20
CP4916-20	0.086	0.12	0.15	0.17	0.19	0.21	0.24
CP4916-22	0.098	0.14	0.17	0.20	0.22	0.24	0.28
CP4916-24	0.12	0.17	0.21	0.24	0.27	0.29	0.34
CP4916-25	0.13	0.18	0.22	0.25	0.28	0.31	0.36
CP4916-26	0.14	0.20	0.24	0.28	0.31	0.34	0.39
CP4916-27	0.15	0.21	0.26	0.29	0.33	0.36	0.42
CP4916-28	0.16	0.23	0.28	0.32	0.36	0.39	0.45
CP4916-29	0.18	0.25	0.30	0.35	0.39	0.43	0.50
CP4916-30	0.18	0.26	0.32	0.37	0.41	0.45	0.52
CP4916-31	0.20	0.28	0.35	0.40	0.45	0.49	0.57
CP4916-32	0.22	0.31	0.38	0.43	0.48	0.53	0.61
CP4916-34	0.24	0.34	0.41	0.47	0.53	0.58	0.67
CP4916-35	0.25	0.36	0.44	0.51	0.57	0.62	0.72
CP4916-37	0.28	0.39	0.48	0.56	0.62	0.68	0.79
CP4916-39	0.31	0.43	0.53	0.61	0.69	0.75	0.87
CP4916-40	0.33	0.47	0.57	0.66	0.74	0.81	0.94
CP4916-41	0.34	0.48	0.59	0.68	0.76	0.83	0.96
CP4916-43	0.37	0.53	0.64	0.74	0.83	0.91	1.05
CP4916-45	0.40	0.57	0.70	0.81	0.90	0.99	1.14
CP4916-46	0.44	0.62	0.76	0.87	0.98	1.07	1.24

Orifice Plate	l/min						
	0.5 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar
CP4916-47	0.45	0.63	0.77	0.89	1.00	1.09	1.26
CP4916-48	0.46	0.65	0.80	0.92	1.03	1.13	1.31
CP4916-49	0.47	0.67	0.82	0.95	1.06	1.16	1.34
CP4916-51	0.53	0.75	0.92	1.06	1.19	1.30	1.50
CP4916-52	0.54	0.76	0.93	1.08	1.21	1.32	1.52
CP4916-54	0.58	0.82	1.00	1.16	1.30	1.42	1.64
CP4916-55	0.61	0.86	1.05	1.22	1.36	1.49	1.72
CP4916-57	0.65	0.91	1.12	1.29	1.44	1.58	1.82
CP4916-59	0.70	0.99	1.21	1.40	1.56	1.71	1.98
CP4916-61	0.75	1.06	1.30	1.50	1.68	1.84	2.13
CP4916-63	0.79	1.12	1.37	1.58	1.77	1.94	2.24
CP4916-65	0.84	1.19	1.46	1.68	1.88	2.06	2.38
CP4916-67	0.89	1.26	1.55	1.79	2.00	2.19	2.53
CP4916-68	0.92	1.31	1.60	1.85	2.06	2.26	2.61
CP4916-70	0.99	1.40	1.71	1.98	2.21	2.42	2.79
CP4916-72	1.03	1.46	1.79	2.07	2.31	2.53	2.92
CP4916-73	1.07	1.51	1.85	2.13	2.38	2.61	3.01
CP4916-75	1.12	1.58	1.94	2.24	2.50	2.74	3.16
CP4916-78	1.24	1.76	2.15	2.48	2.78	3.04	3.51
CP4916-80	1.28	1.81	2.21	2.56	2.86	3.13	3.61
CP4916-81	1.32	1.87	2.29	2.65	2.96	3.24	3.74
CP4916-83	1.45	2.04	2.50	2.89	3.23	3.54	4.09
CP4916-86	1.52	2.14	2.62	3.03	3.39	3.71	4.28
CP4916-89	1.58	2.23	2.74	3.16	3.53	3.87	4.47
CP4916-91	1.68	2.38	2.91	3.36	3.76	4.12	4.76
CP4916-93	1.76	2.49	3.06	3.53	3.94	4.32	4.99
CP4916-95	1.84	2.60	3.19	3.68	4.12	4.51	5.21

Orifice Plate	l/min						
	0.5 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar
CP4916-98	2.01	2.85	3.49	4.03	4.50	4.93	5.69
CP4916-103	2.10	2.97	3.64	4.21	4.70	5.15	5.95
CP4916-107	2.36	3.34	4.09	4.72	5.28	5.78	6.67
CP4916-110	2.50	3.53	4.33	5.00	5.59	6.12	7.07
CP4916-115	2.76	3.90	4.77	5.51	6.16	6.75	7.79
CP4916-120	2.87	4.06	4.97	5.74	6.42	7.03	8.12
CP4916-125	3.16	4.47	5.47	6.32	7.07	7.74	8.94
CP4916-128	3.29	4.65	5.69	6.57	7.35	8.05	9.30
CP4916-132	3.53	4.99	6.11	7.06	7.89	8.64	9.98
CP4916-136	3.83	5.41	6.63	7.65	8.55	9.37	10.8
CP4916-140	4.08	5.77	7.06	8.16	9.12	9.99	11.5
CP4916-144	4.22	5.97	7.31	8.44	9.44	10.3	11.9
CP4916-147	4.34	6.14	7.52	8.69	9.71	10.6	12.3
CP4916-151	4.74	6.70	8.20	9.47	10.6	11.6	13.4
CP4916-156	5.01	7.08	8.67	10.0	11.2	12.3	14.2
CP4916-161	5.26	7.44	9.12	10.5	11.8	12.9	14.9
CP4916-166	5.53	7.82	9.57	11.1	12.4	13.5	15.6
CP4916-170	5.94	8.40	10.3	11.9	13.3	14.6	16.8
CP4916-172	6.18	8.74	10.7	12.4	13.8	15.1	17.5
CP4916-177	6.45	9.12	11.2	12.9	14.4	15.8	18.2
CP4916-182	6.71	9.49	11.6	13.4	15.0	16.4	19.0
CP4916-187	7.11	10.1	12.3	14.2	15.9	17.4	20.1
CP4916-196	7.89	11.2	13.7	15.8	17.6	19.3	22.3
CP4916-205	8.55	12.1	14.8	17.1	19.1	20.9	24.2
CP4916-218	9.60	13.6	16.6	19.2	21.5	23.5	27.2
CP4916-234	11.2	15.8	19.4	22.4	25.0	27.4	31.6
CP4916-250	12.9	18.2	22.3	25.8	28.8	31.6	36.5

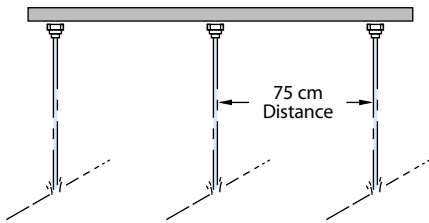
**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.

# StreamJet Solid Stream Spray Nozzles



## Stainless Steel for Banding Fertilizers

- Permits banding fluids at high rig speeds.
- Large orifices with no internal obstructions permit non-clogging suspension applications.
- Lower drift potential.
- See page 125 for liquid density conversion factors.
- For TP tips use Quick TeeJet cap and gasket 25608-1-NYR.



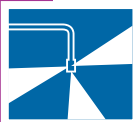
### How to order:

Specify nozzle number and material.  
Example: H1/4U-SS0010 Stainless Steel

**Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 124–140 for useful formulas and other information.

Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	l/ha  75cm									
			4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
TP0001-SS	1.0	0.23	46.0	30.7	23.0	18.4	12.3	10.2	9.2	7.4	6.1	5.3
	1.5	0.28	56.0	37.3	28.0	22.4	14.9	12.4	11.2	9.0	7.5	6.4
	2.0	0.32	64.0	42.7	32.0	25.6	17.1	14.2	12.8	10.2	8.5	7.3
TP00015-SS	1.0	0.34	68.0	45.3	34.0	27.2	18.1	15.1	13.6	10.9	9.1	7.8
	1.5	0.42	84.0	56.0	42.0	33.6	22.4	18.7	16.8	13.4	11.2	9.6
	2.0	0.48	96.0	64.0	48.0	38.4	25.6	21.3	19.2	15.4	12.8	11.0
H1/4U-SS0002 TP0002-SS	1.0	0.46	92.0	61.3	46.0	36.8	24.5	20.4	18.4	14.7	12.3	10.5
	1.5	0.56	112	74.7	56.0	44.8	29.9	24.9	22.4	17.9	14.9	12.8
	2.0	0.65	130	86.7	65.0	52.0	34.7	28.9	26.0	20.8	17.3	14.9
H1/4U-SS0003 TP0003-SS	1.0	0.68	136	90.7	68.0	54.4	36.3	30.2	27.2	21.8	18.1	15.5
	1.5	0.83	166	111	83.0	66.4	44.3	36.9	33.2	26.6	22.1	19.0
	2.0	0.96	192	128	96.0	76.8	51.2	42.7	38.4	30.7	25.6	21.9
H1/4U-SS0004 TP0004-SS	1.0	0.91	182	121	91.0	72.8	48.5	40.4	36.4	29.1	24.3	20.8
	1.5	1.12	224	149	112	89.6	59.7	49.8	44.8	35.8	29.9	25.6
	2.0	1.29	258	172	129	103	68.8	57.3	51.6	41.3	34.4	29.5
H1/4U-SS0006 TP0006-SS	1.0	1.37	274	183	137	110	73.1	60.9	54.8	43.8	36.5	31.3
	1.5	1.67	334	223	167	134	89.1	74.2	66.8	53.4	44.5	38.2
	2.0	1.93	386	257	193	154	103	85.8	77.2	61.8	51.5	44.1
H1/4U-SS0008 TP0008-SS	1.0	1.82	364	243	182	146	97.1	80.9	72.8	58.2	48.5	41.6
	1.5	2.23	446	297	223	178	119	99.1	89.2	71.4	59.5	51.0
	2.0	2.58	516	344	258	206	138	115	103	82.6	68.8	59.0
H1/4U-SS0010 TP0010-SS	1.0	2.28	456	304	228	182	122	101	91.2	73.0	60.8	52.1
	1.5	2.79	558	372	279	223	149	124	112	89.3	74.4	63.8
	2.0	3.22	644	429	322	258	172	143	129	103	85.9	73.6
H1/4U-SS0015 TP0015-SS	1.0	3.42	684	456	342	274	182	152	137	109	91.2	78.2
	1.5	4.18	836	557	418	334	223	186	167	134	111	95.5
	2.0	4.83	966	644	483	386	258	215	193	155	129	110
H1/4U-SS0020 TP0020-SS	1.0	4.56	912	608	456	365	243	203	182	146	122	104
	1.5	5.58	1116	744	558	446	298	248	223	179	149	128
	2.0	6.45	1290	860	645	516	344	287	258	206	172	147
H1/4U-SS0030 TP0030-SS	1.0	6.84	1366	911	683	546	364	304	273	219	182	156
	1.5	8.37	1674	1116	837	670	446	372	335	268	223	191
	2.0	9.66	1932	1288	966	773	515	430	386	309	258	221
H1/4U-SS0040 TP0040-SS	1.0	10.8	2160	1440	1080	864	576	480	432	346	288	247
	1.0	9.11	1822	1215	911	729	486	405	364	292	243	208
	1.5	11.2	2240	1493	1120	896	597	496	448	358	299	256
H1/4U-SS0050	2.0	12.9	2580	1720	1290	1032	688	573	516	413	344	295
	2.5	14.4	2880	1920	1440	1152	768	640	576	461	384	329
	1.0	11.4	2280	1520	1140	912	608	507	456	365	304	261
H1/4U-SS0060	1.5	13.9	2780	1853	1390	1112	741	620	556	445	371	318
	2.0	16.1	3220	2147	1610	1288	859	716	644	515	429	368
	2.5	18.0	3600	2400	1800	1440	960	801	720	576	480	411
H1/4U-SS0060	1.0	13.7	2740	1827	1370	1096	731	608	548	438	365	313
	1.5	16.7	3340	2227	1670	1336	891	744	668	534	445	382
	2.0	19.3	3860	2573	1930	1544	1029	860	772	618	515	441
2.5	21.6	4320	2880	2160	1728	1152	961	864	691	576	494	





# TeeJet® Tank Rinsing Nozzles

## 55270

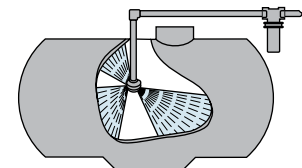
- Rotating head driven by the flow of the rinsing liquid through multiple round spray orifices.
- Solid stream sprays are precisely positioned to provide effective internal wetting and cleaning of tank surface.
- Removable retainer and rotating body allows for disassembly and cleaning.
- Provides 360° coverage of inside surface of tank for tank diameters up to 10 feet (3.0 m).
- Self-lubricating and self-flushing design.



NOZZLE NUMBER	CAPACITY - l/min					TYPE OF COVERAGE	SPRAY ANGLE
	0.7 bar	1.5 bar	2 bar	3 bar	3.5 bar		
55270-1/2-11-POM	22.3	30.8	35.3	43.5	47.3		360°
B55270-1/2-11-POM							
55270-3/4-18-POM	34.0	50.0	58.0	71.0	77.0		
B55270-3/4-18-POM							

- Materials: Body – black POM (acetal); Fasteners – stainless steel.
- Recommended operating pressure 10–50 PSI (0.7–3.5 bar).
- Mounting connection – ½" or ¾" NPT or BSPT (F).

### Typical Application



## D41892

- The rotary tank rinsing nozzle is used for rinsing the insides of chemical containers and spray tanks up to 6.5' (2.0 m) in diameter.
- Available with ½" NPT or BSPT (F) connections.
- Significant lower rotating speed at approximately 15% of typical speed,



NOZZLE NUMBER	CAPACITY - l/min				
	1.5 bar	2 bar	3 bar	4 bar	5 bar
D41892-(B)1/2-POM-6	15.9	18.3	22.5	26.0	29.0

- results in faster and more thorough cleaning of tank surface.
- Self-cleaning sliding bearing.
- Body and inserts are made of POM (Acetal).

- Nozzle fits in 1½" (37 mm) opening.
- Recommended operating pressure 30–60 PSI (2–4 bar) with a maximum pressure 115 PSI (8 bar).



# TeeJet® Container Rinsing Nozzles

## 23240

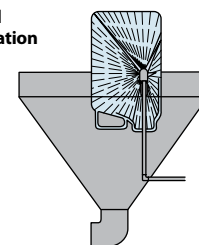
- The 23240 container rinsing nozzle is used to rinse residue from containers before disposal.
- Can be used for containers with 1½" (26 mm) diameter openings or larger.
- Three flat spray orifices provide self-rotational forces needed to create spherical coverage.
- Available in ½" NPT or BSPT (F) connections.



NOZZLE NUMBER	INLET PIPE CONNECTION	CAPACITY - l/min				
		1.5 bar	2 bar	2.5 bar	3 bar	4 bar
(B)23240-3-316SS-5.7-316SS	½" (F)	13.9	16.1	18.0	19.7	23.0
(B)23240-3-316SS-7-316SS		19.5	23.0	25.0	28.0	32.0

- Made of 316 stainless steel. HSS bearings and races have been replaced with 316SS bearings and races. Also includes an internal sleeve made of Nylon.

### Typical Application



## VSM

- Used for inside rinsing of chemical containers.
- 40 orifices combine to produce a 240° spray angle.
- All Nylon construction.
- Available with ½" or ¾" NPT or BSPT (F) connection.
- Recommended operating pressure 30–60 PSI (2–4 bar).



NOZZLE NUMBER	INLET PIPE CONNECTION	ORIFICE DIAMETER (mm)	CAPACITY - l/min						SPRAY ANGLE
			0.5 bar	1 bar	2 bar	3 bar	5 bar	10 bar	
(B) VSM-*-28	½" (F)	0.80	8.8	12.5	17.7	21.7	28.0	39.5	240°
(B) VSM-*-44		1.00	13.9	19.7	27.9	34.1	44.0	62.3	
(B) VSM-*-90	½" or ¾" (F)	1.50	28.5	40.3	56.9	69.7	90.0	127	
(B) VSM-*-140		1.95	44.3	62.6	88.5	108	140	198	
(B) VSM-*-190		2.30	60.1	85.0	120	147	190	269	

### How to order:

(B) VSM – ¾ – 140  
 | | | |  
 BSPT Nozzle Type Size Capacity





## Y33180-PP & Y9270-PP

### Features:

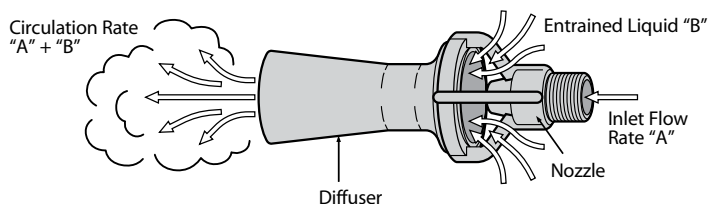
- Allows small pumps to circulate large volumes of liquid.
- Manufactured of glass-filled polypropylene for excellent corrosion and chemical resistance.
- Large flow opening minimizes plugging.
- Available in 3/8" or 3/4" (M) pipe thread inlet connection.



### How to order:

Specify nozzle number and inlet connection.

Example: Y33180-PP-3/8



APPROXIMATE FLOW RATE PERFORMANCE	MODEL NUMBER	INLET LIQUID PRESSURE						
		0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar
Inlet Flow Rate "A" (l/min)	Y33180-PP	34	41	50	58	65	71	77
	Y9270-PP	51	62	75	87	97	107	115
Entrained Liquid "B" (l/min)	Y33180-PP	138	164	201	232	259	284	307
	Y9270-PP	206	246	301	348	389	426	460
Circulation Rate "A"+"B" (l/min)	Y33180-PP	172	205	251	290	324	355	384
	Y9270-PP	257	308	376	435	486	533	575

MODEL NUMBER	PIPE THREAD INLET CONNECTION	ORIFICE DIAMETER (mm)	LENGTH (mm)	DIAMETER (mm)
Y33180-PP	3/8" (M)	7.9	103	52
Y9270-PP	3/4" (M)	9.5	162	74

# TeeJet® Jet Agitators

Installed at bottom of spray tank on end of agitator return line. Continuous solid stream jet flow creates turbulence and keeps wettable powders in suspension.

## 6290-SC

Made in choice of brass, aluminum and all stainless steel. 1/4" NPT (F) inlet connection. Fits through 2" (51 mm) hole. Weight 6 oz. (0.17 kg). Siphon caps increase liquid flow by Venturi action to increase mixing potential.



JET AGITATOR NUMBER	ORIFICE CAP NUMBER	ORIFICE CAP INLET DIAMETER (cm)	CAPACITY (l/min) THRU AGITATOR LINE AT VARIOUS PRESSURES						FOR MAX. TANK SIZE IN LITERS OF:
			1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	
6290SC-1	11118-1	1.39	3.5	4.5	5	5.5	6	6.5	200
6290SC-2	11118-2	2.18	8.5	10.5	12	13.5	15	16	400
6290SC-3	11118-3	2.43	11	13.5	15.5	17.5	19	20	500
6290SC-5	11118-5	3.65	20	25	28	32	35	38	900
6290SC-8	11118-8	3.96	23	28	33	37	40	43	1100
6290SC-10	11118-10	4.49	26	32	37	41	45	48	1300

**Note:** Maximum tank sizes shown in table are approximate and are based on 40 PSI (3 bar) operation with pesticides, not fertilizers.

### How to order:

Specify jet agitator number.

Examples:

6290SC-1 – Brass

6290SC-1-AL – Aluminum

6290SC-1-SS – Stainless Steel

Other sizes available.



# Quick TeeJet® Multiple Nozzle Body Assemblies for Dry Booms

## QJ350A Compact Nozzle Body for Dry Booms

- Compact design means easier mounting and less interference with boom structure.
- Available with 3 spray positions for easy change of spray tips or quick boom flushing.
- Shutoff between each spray position.
- Automatic spray alignment using flat fan spray tips.
- Positive indexing keeps the nozzle you select firmly in place.
- Maximum operating pressure 300 PSI (20 bar).
- Available in 1/2", 3/4" or 1" single or double hose shanks.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.
- Flow Rate: 1.80 GPM (6.8 l/min) with 5 PSI (0.34 bar) pressure drop, 2.55 GPM (9.7 l/min) with 10 PSI (0.69 bar) pressure drop.



- Molded hex socket in upper clamp for attaching to flat surfaces. Accepts 5/16" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



QJ353A

### QJ353A

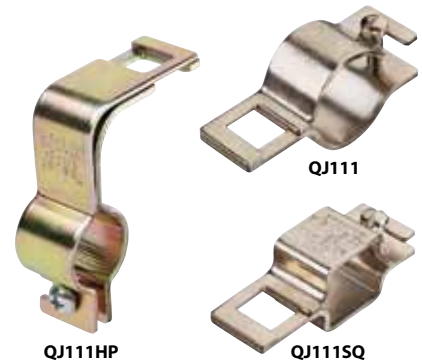
PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ353A-500-1-NYB	QJ353A-500-2-NYB	3	1/2"
QJ353A-750-1-NYB	QJ353A-750-2-NYB	3	3/4"
QJ353A-1000-1-NYB	QJ353A-1000-2-NYB	3	1"



# TeeJet® Vari-Spacing Clamps for Use on Dry Boom Quick TeeJet Bodies

PART NUMBER (PLATED STEEL)	TO FIT
QJ111-1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)
QJ111-3/4	3/4" Pipe (1" & 1 1/8" O.D. Tubings)
QJ111-1	1" Pipe (1 1/8", 1 1/4" & 1 3/8" O.D. Tubings)
QJ111-1-1/4	1 1/4" Pipe (1 5/8" & 1 7/8" O.D. Tubings)
QJ111HP-3/4	3/4" Pipe (1" & 1 1/8" O.D. Tubings)

PART NUMBER		TO FIT
PLATED STEEL	STAINLESS STEEL	
QJ111SQ-3/4	QJ111SQ-3/4-304SS	3/4" Square Tubing
QJ111SQ-1	QJ111SQ-1-304SS	1" Square Tubing
QJ111SQ-1-1/4	QJ111SQ-1-1/4-304SS	1 1/4" Square Tubing
QJ111SQ-1-1/2	QJ111SQ-1-1/2-304SS	1 1/2" Square Tubing



QJ111HP

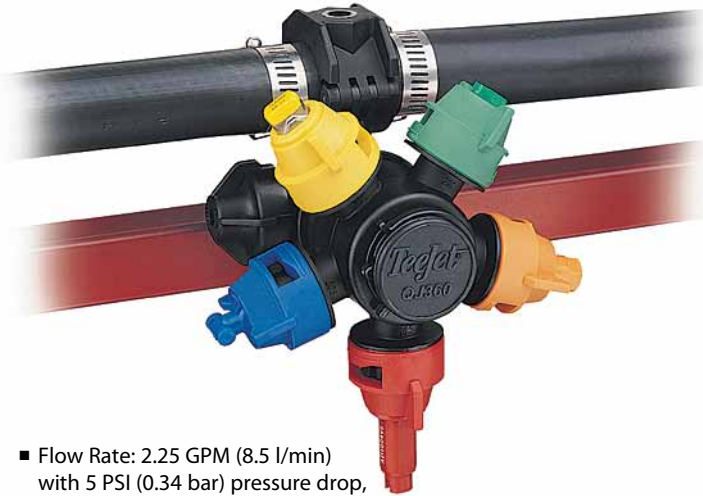
QJ111

QJ111SQ



## QJ360C Nozzle Body Series for Dry Booms

- Available with either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each spray position.
- Automatic spray alignment using flat fan spray tips.
- Maximum operating pressure of 300 PSI (20 bar).
- Available in 1/2", 3/4" or 1" single or double hose shanks.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.
- Standard EPDM diaphragm with Viton® available as an option.
- Also available with optional 56720 Air ChemSaver or 55280 e-ChemSaver® shutoff valves, see page 60 for additional information.
- Durable design mounts body high on boom structure for maximum protection.



- Flow Rate: 2.25 GPM (8.5 l/min) with 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) with 10 PSI (0.69 bar) pressure drop.
- Mounts to a 3/8" (9.5 mm) hole drilled in pipe or tubing.
- Molded hex socket in upper clamp for attaching to flat surfaces. Accepts 5/16" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.

### QJ363C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ363C-500-1-NYB	QJ363C-500-2-NYB	3	1/2"
QJ363C-750-1-NYB	QJ363C-750-2-NYB	3	3/4"
QJ363C-1000-1-NYB	QJ363C-1000-2-NYB	3	1"



QJ363C

### QJ364C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ364C-500-1-NYB	QJ364C-500-2-NYB	4	1/2"
QJ364C-750-1-NYB	QJ364C-750-2-NYB	4	3/4"
QJ364C-1000-1-NYB	QJ364C-1000-2-NYB	4	1"



QJ364C

### QJ365C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ365C-500-1-NYB	QJ365C-500-2-NYB	5	1/2"
QJ365C-750-1-NYB	QJ365C-750-2-NYB	5	3/4"
QJ365C-1000-1-NYB	QJ365C-1000-2-NYB	5	1"



QJ365C



# Quick TeeJet® Multiple Nozzle Body Assemblies

## Triple Nozzle Body

- Designed to greatly simplify changing spray tips in the field.
- Provides three spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each spray position.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Opens at 10 PSI (0.7 bar).
- Standard EPDM diaphragm with Viton® available as an option.
- Can be used with all Quick TeeJet caps.

- Nylon body.
- Maximum operating pressure of 125 PSI (9 bar).
- Available in 1/2" and 3/4" single, double or triple hose shanks.
- Flow Rate: 1.6 GPM (6.0 l/min) at 5 PSI (0.34 bar) pressure drop, 2.26 GPM (8.6 l/min) at 10 PSI (0.69 bar) pressure drop.



PART NUMBER			TO FIT HOSE
SINGLE	DOUBLE	TRIPLE	
24230A-1-540-NYB	24230A-2-540-NYB	24230A-3-540-NYB	1/2"
24230A-1-785-NYB	24230A-2-785-NYB	24230A-3-785-NYB	3/4"



# Quick TeeJet® Multiple Nozzle Body Assemblies with Fertilizer Outlets for Dry Booms

## Features:

- Single fertilizer nozzle outlet with shutoff cap and either 3, 4, or 5 spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each position.
- Automatic self-alignment with flat fan spray patterns.
- Flow rate: pressure drop of 5 PSI (0.34 bar) for 2.25 GPM (8.5 l/min) through turret and 3.4 GPM (12.9 l/min) through fertilizer outlet.
- Flow rate: pressure drop of 10 PSI (0.69 bar) for 3.18 GPM (12.0 l/min) through turret and 4.8 GPM (18.2 l/min) through fertilizer outlet.
- Maximum pressure of 300 PSI (20 bar).
- Available in 1" single or double hose shanks.
- Includes ChemSaver diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.

- Standard O-rings and diaphragm made of EPDM and Buna with Viton optional.
- Molded hex socket in the upper clamp for attaching to flat surfaces (does not use dry boom clamp). Accepts 5/16" or M8 bolt.
- Also available with optional 56720 Air ChemSaver or 55280 e-ChemSaver® shutoff valves, see page 60 for additional information.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



QJ363F



QJ364F



QJ365F


PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ363F-1000-1-NYB	QJ363F-1000-2-NYB	3 + 1	1"
QJ364F-1000-1-NYB	QJ364F-1000-2-NYB	4 + 1	
QJ365F-1000-1-NYB	QJ365F-1000-2-NYB	5 + 1	


# Quick TeeJet® Single Nozzle Bodies for Dry Booms

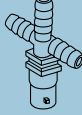


## QJ100 Series Quick TeeJet Nozzle Body

- Hose barb sizes for 3/8", 1/2" or 3/4" I.D. hose.
- Maximum operating pressure of 125 PSI (9 bar).

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	18635-111-406-NYB	3/8"
18638-111-540-NYB	1/2"	
18719-111-785-NYB	3/4"	

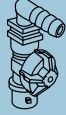
	PART NUMBER DOUBLE	TO FIT HOSE I.D.
	18636-112-406-NYB	3/8"
18639-112-540-NYB	1/2"	
18720-112-785-NYB	3/4"	

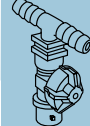
	PART NUMBER TRIPLE	TO FIT HOSE I.D.
	18637-113-406-NYB	3/8"
18640-113-540-NYB	1/2"	
18721-113-785-NYB	3/4"	

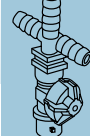


## QJ200 Series Diaphragm Check Valve Quick TeeJet Nozzle Assemblies

- Available with single, double or triple hose shanks for 3/8", 1/2" and 3/4" I.D. hose.
- Drip-free shutoff with TeeJet ChemSaver®. Opens at 10 PSI (0.7 bar). Standard diaphragm is EPDM with Viton® optional.
- Maximum operating pressure of 125 PSI (9 bar).
- Flow rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	19349-211-406-NYB	3/8"
19349-211-540-NYB	1/2"	
19349-211-785-NYB	3/4"	

	PART NUMBER DOUBLE	TO FIT HOSE I.D.
	19350-212-406-NYB	3/8"
19350-212-540-NYB	1/2"	
19350-212-785-NYB	3/4"	

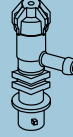
	PART NUMBER TRIPLE	TO FIT HOSE I.D.
	19351-213-406-NYB	3/8"
19351-213-540-NYB	1/2"	
19351-213-785-NYB	3/4"	

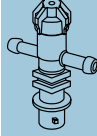


## QJ300 Series Diaphragm Check Valve Quick TeeJet Nozzle Assemblies

- Low-profile design allows maximum protection against damage.
- Available with single and double hose shanks for 3/8", 1/2" and 3/4" I.D. hose.
- Drip-free shutoff with TeeJet ChemSaver. Opens at 10 PSI (0.7 bar). Standard diaphragm is EPDM with Viton optional.
- Maximum operating pressure of 300 PSI (20 bar).
- Flow rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.

QJ300 Series is also available in polypropylene. Maximum operating pressure is 150 PSI (10 bar).

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	22251-311-375-NYB	3/8"
22251-311-500-NYB	1/2"	
22251-311-750-NYB	3/4"	

	PART NUMBER DOUBLE	TO FIT HOSE I.D.
	22252-312-375-NYB	3/8"
22252-312-500-NYB	1/2"	
22252-312-750-NYB	3/4"	

**Note:** See page 48 for vari-spacing clamps. See page 57 for Quick TeeJet caps.

## QJ39685 Series Quick TeeJet Nozzle Body

### Features:

- Use with Quick TeeJet caps.
- Hose shanks available in double or single (left or right) for 1/2" hose I.D.
- TeeJet ChemSaver drip-free shutoff.

- Made of corrosion-resistant materials.
- Maximum operating pressure of 300 PSI (20 bar).

- QJ39684 uses Nylon nut instead of brass nut.

**Note:** Support is normally supplied by the customer. TeeJet vari-spacing clamps AA111-\* can be used. See page 64 for order information.



Single Left  
QJ39685-1L-500-NYB



Double  
QJ39685-2-500-NYB



Single Right  
QJ39685-1R-500-NYB



## QJ350A Compact Nozzle Body for Wet Booms

- Compact design means easier mounting and less interference with boom structure.
- Available with 3 spray positions for easy change of spray tips or quick boom flushing.
- Shutoff between each spray position.
- Positive indexing keeps the nozzle you select firmly in place.
- Automatic spray alignment using flat fan spray tips.
- Maximum operating pressure of 300 PSI (20 bar).
- Available to fit 20 mm tubing, 1/2", 3/4" and 1" pipe.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.
- Flow Rate: 1.80 GPM (6.8 l/min) at 5 PSI (0.34 bar) pressure drop, 2.55 GPM (9.7 l/min) flow rate at 10 PSI (0.69 bar) pressure drop.
- Molded hex socket in upper clamp for attaching to flat surfaces. Accepts 5/16" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ353A-20mm-NYB	3	20 mm Tubing
QJ353A-1/2-NYB	3	1/2" Pipe
QJ353A-3/4-NYB	3	3/4" Pipe
QJ353A-1-NYB	3	1" Pipe



## QC360 Quick TeeJet® Nozzle Body with Cam Lever Coupling Adapter

- Same features as QJ360C multiple nozzle bodies.
- Body designed to fit into standard cam lever couplings allowing for quick change to smaller capacity spray tips.
- Locating nib keeps body properly oriented in fitting.
- Flow Rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.
- 1.26" (32 mm) diameter tip body fits 3/4" cam lever coupling.

PART NUMBER	NUMBER OF SPRAY OUTLETS
QC363-NYB	3
QC364-NYB	4
QC365-NYB	5





## QJ360C Nozzle Body Series for Wet Booms

- Available with either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each position.
- Automatic spray alignment using flat fan spray tips.
- Maximum operating pressure of 300 PSI (20 bar).
- Available in 20 mm, 25 mm, ½", ¾" or 1" pipe connections.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.
- Standard EPDM diaphragm with Viton® available as an option.
- Also available with optional 56720 Air ChemSaver or 55280 e-ChemSaver® shutoff valves, see page 60 for additional information.
- Flow Rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) with 10 PSI (0.69 bar) pressure drop.
- Mounts to a ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Molded hex socket in upper clamp for attaching to flat surfaces. Accepts ⅝" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



## QJ360E Nozzle Body Series for Wet Booms

- Available to fit 20 mm O.D. tubing only.
- Flow Rate: 1.5 GPM (5.7 l/min) at 5 PSI (0.34 bar) pressure drop, 2.1 GPM (8.0 l/min) with 10 PSI (0.69 bar) pressure drop.
- Reduced internal cavity to increase ChemSaver shut-off speed.
- Notched inlet tube allows for more complete boom drainage and reduces sediment buildup.



QJ363C  
QJ363E



QJ364C  
QJ364E



QJ365C  
QJ365E

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ363E-20mm-NYB	3	20 mm Tubing
QJ363C-25mm-NYB	3	25 mm Tubing
QJ363C-1/2-NYB	3	½" Pipe
QJ363C-3/4-NYB	3	¾" Pipe
QJ363C-1-NYB	3	1" Pipe

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ364E-20mm-NYB	4	20 mm Tubing
QJ364C-25mm-NYB	4	25 mm Tubing
QJ364C-1/2-NYB	4	½" Pipe
QJ364C-3/4-NYB	4	¾" Pipe
QJ364C-1-NYB	4	1" Pipe

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ365E-20mm-NYB	5	20 mm Tubing
QJ365C-25mm-NYB	5	25 mm Tubing
QJ365C-1/2-NYB	5	½" Pipe
QJ365C-3/4-NYB	5	¾" Pipe
QJ365C-1-NYB	5	1" Pipe



# Quick TeeJet® Triple Nozzle Bodies for Wet Booms



## 24216A-NYB

- Can be mounted to 20 mm, ½", ¾" or 1" pipe or equivalent size tubing.
- Provides three spray positions for easy change of spray tips.
- Shutoff position provided between each spray position.
- Features ChemSaver® drip-free shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve.
- Standard diaphragm of EPDM with optional Viton® available.
- Maximum operating pressure of 150 PSI (10 bar).
- ½" and ¾" sizes include mounting hole in upper clamp for attachment to flat surfaces.
- Mounts to a ⅜" (9.5 mm) or ⅝" (7.0 mm) hole drilled in pipe or tubing.
- Flow rate: 1.6 GPM (6.1 l/min) at 5 PSI (0.34 bar) pressure drop, 2.26 GPM (8.6 l/min) at 10 PSI (0.69 bar) pressure drop.

PART NUMBER	TO CLAMP ON	DRILL HOLE SIZE	UPPER CLAMP BOLT SIZE
24216A-20mm-NYB	20 mm Tubing	.375" (9.5 mm)	M8
24216A-20mmx7-NYB	20 mm Tubing	.280" (7.0 mm)	M8
24216A-1/2-NYB	½" Pipe	.375" (9.5 mm)	¼"
24216A-1/2x7-NYB	½" Pipe	.280" (7.0 mm)	¼"
24216A-1/2M-NYB	½" Pipe	.375" (9.5 mm)	M8
24216A-3/4-NYB	¾" Pipe	.375" (9.5 mm)	¼"
24216A-1-NYB	1" Pipe	.375" (9.5 mm)	N/A



# Quick TeeJet® Multiple Nozzle Bodies with Fertilizer Outlets for Wet Booms

## Features:

- Single fertilizer nozzle outlet with shutoff cap and either 3, 4 or 5 spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each position.
- Automatic self-alignment with flat fan spray patterns.
- Flow rate: 2.25 GPM (8.5 l/min) with 5 PSI (0.34 bar) pressure drop through turret and 3.4 GPM (12.9 l/min) through fertilizer outlet.
- Flow rate: 3.18 GPM (12.0 l/min) with 10 PSI (0.69 bar) pressure drop through turret and 4.8 GPM (18.2 l/min) through fertilizer outlet.
- Maximum pressure of 300 PSI (20 bar).
- Available in 1" pipe connections and mounts with a ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Includes ChemSaver® diaphragm check valve for drip-free shutoff. Standard diaphragm opens at 10 PSI (0.7 bar). See page 60 for additional 21950 ChemSaver spring capacities.
- Standard O-rings and diaphragm made of EPDM and Buna with Viton® optional.
- Also available with optional 56720 Air ChemSaver or 55280 e-ChemSaver® shutoff valves, see page 60 for additional information.
- Molded hex socket in the upper clamp for attaching to flat surfaces. Accepts ⅝" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



QJ363F



QJ364F



QJ365F

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ363F-1-NYB	3 + 1	1" Pipe
QJ364F-1-NYB	4 + 1	1" Pipe
QJ365F-1-NYB	5 + 1	1" Pipe





## QJ380 High Flow Nozzle Body

- High capacity multiple outlet nozzle body is ideal for high speed, high volume applications including liquid fertilizer.
- Available with 3 spray positions for easy change of spray tips or quick boom flushing.
- Positive shutoff between each spray position.
- Automatic spray alignment when using flat fan spray tips.
- Maximum operating pressure of 150 PSI (10 bar).
- Available in ¾" or 1" pipe size.
- Requires ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Includes high capacity ChemSaver® diaphragm check valve for drip-free shutoff. Diaphragm opens at 10 PSI (0.7 bar).
- 3.0 GPM (11.4 l/min) flow rate at a 5 PSI (0.34 bar) pressure drop.
- Molded hex socket in upper clamp for attaching to flat surfaces. Accepts ⅝" or M8 bolt.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.
- Constructed of nylon and acetal with Viton® seals and O-rings.



QJ380

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ383-3/4-NYB	3	¾" Pipe
QJ383-1-NYB	3	1" Pipe

## QJ380F High Flow Nozzle Body with Fertilizer Outlet

- Same features as standard QJ380, with an additional higher flow outlet on bottom of body.
- Additional outlet can be used for very high flow applications such as liquid fertilizer.
- Flow rate through fertilizer outlet is 4.5 GPM (17.0 l/min) at 5 PSI (0.34 bar) pressure drop.



QJ383F



PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ383F-3/4-NYB	3 + 1	¾" Pipe
QJ383F-1-NYB	3 + 1	1" Pipe



# Quick TeeJet® Single Nozzle Bodies for Wet Booms



QJ22187

## QJ22187-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing.
- 1/2" and 3/4" sizes include a mounting hole in clamp subassembly for mounting to flat surfaces.
- Allows side mounting to flat surface for protection of nozzle body.
- Features ChemSaver drip-free shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve.

- Standard diaphragm of EPDM with optional Viton available.
- Mounts to a 3/8" (9.5 mm) hole drilled in pipe or tubing.
- Maximum operating pressure of 300 PSI (20 bar).
- Flow rate: 2.5 GPM (9.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.54 GPM (13.4 l/min) at 10 PSI (0.69 bar) pressure drop.

PART NUMBER	TO CLAMP ON	DRILL HOLE SIZE	UPPER CLAMP BOLT SIZE
QJ22187-1/2-NYB	1/2" Pipe	.375" (9.5 mm)	1/4"
QJ22187-3/4-NYB	3/4" Pipe	.375" (9.5 mm)	1/4"
QJ22187-1-NYB	1" Pipe	.375" (9.5 mm)	N/A



QJ17560A

## QJ17560A-NYB

- Can be mounted to 20 mm, 25 mm, 1/2", 3/4" or 1" pipe or equivalent size tubing.
- Features ChemSaver drip-free shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve.
- Standard diaphragm of EPDM with optional Viton available.
- Mounts to a 3/8" (9.5 mm) or 9/32" (7.0 mm) hole drilled in pipe or tubing.

- All sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces.
- Maximum operating pressure of 300 PSI (20 bar).
- Flow rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.

PART NUMBER	TO CLAMP ON	DRILL HOLE SIZE	UPPER CLAMP BOLT SIZE
QJ17560A-20mm-NYB	20 mm Tubing	.375" (9.5 mm)	5/16" or M8
QJ17560A-20mmx7-NYB	20 mm Tubing	.280" (7.0 mm)	5/16" or M8
QJ17560A-25mm-NYB	25 mm Tubing	.375" (9.5 mm)	5/16" or M8
QJ17560A-1/2-NYB	1/2" Pipe	.375" (9.5 mm)	5/16" or M8
QJ17560A-1/2x7-NYB	1/2" Pipe	.280" (7.0 mm)	5/16" or M8
QJ17560A-3/4-NYB	3/4" Pipe	.375" (9.5 mm)	5/16" or M8
QJ17560A-1-NYB	1" Pipe	.375" (9.5 mm)	5/16" or M8



QJ7421

## QJ7421-NYB

- Can be mounted to 1/2", 3/4" or 1" pipe or equivalent size tubing.
- 1/2" and 3/4" sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces.

- Mounts to a 3/8" (9.5 mm) hole drilled in pipe or tubing.
- Maximum operating pressure of 300 PSI (20 bar).

PART NUMBER	TO CLAMP ON	DRILL HOLE SIZE	UPPER CLAMP BOLT SIZE
QJ7421-1/2-NYB	1/2" Pipe	.375" (9.5 mm)	1/4"
QJ7421-3/4-NYB	3/4" Pipe	.375" (9.5 mm)	1/4"
QJ7421-1-NYB	1" Pipe	.375" (9.5 mm)	N/A



# Quick TeeJet® Caps for Hardi® Nozzle Bodies

## Color Code



## Ordering Information

QUICK TEEJET CAPS	PART NUMBER		FOR USE WITH FLAT SPRAY TIPS 150 PSI (10 bar) MAXIMUM PRESSURE						
	QUICK TEEJET CAP ONLY	QUICK TEEJET CAP & SEAT GASKET SET	TJ60 TwinJet®	AI TeeJet & AIUB TeeJet	SJ3 StreamJet	DG TwinJet®	Turbo TeeJet® Induction	AITTJ60 Turbo TwinJet	
	CP21399*-CE	21398H*-CELR							
	CP23307*-CE	23306H*-CELR	TP Standard (-0067 Thru -08)	XR TeeJet® (-01 Thru -08)	AIXR TeeJet	DG TeeJet®	Turbo TeeJet	OC TeeJet (-01 Thru -08)	TTJ60 Turbo TwinJet
	CP58350*-CE	58348H*-CELR	TK FloodJet®	FL FullJet®	TX ConeJet®	TG Full Cone	Hose Shank		

Note: When using TeeJet tip strainer, use CP26227 gasket in place of CP23308 gasket. See page 58 for 55240 Hardi to TeeJet adapter.

# Quick TeeJet® Caps



## Color Code

1	2	3	4	5	6	7	8	9	10
Black	White	Red	Blue	Green	Yellow	Brown	Orange	Gray††	Violet

## Ordering Information

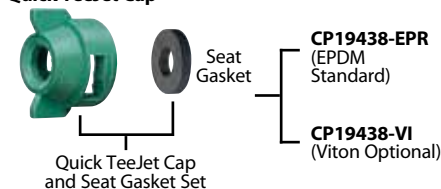
QUICK TEEJET CAPS	PART NUMBER		FOR USE WITH FLAT SPRAY TIPS 300 PSI (20 bar) MAXIMUM PRESSURE
	QUICK TEEJET CAP ONLY	QUICK TEEJET CAP & SEAT GASKET SET	
	CP25611- *-NY CP25611-9-PP††	25612- *-NYR 25612-9-PP††	<b>TeeJet® Flat Spray Tips (Smaller Capacities)</b>  TP Standard -0067 Thru -08    XR -01 Thru -08    DG TeeJet®    TT    TTJ60 Turbo TwinJet    AIXR TeeJet®    OC TeeJet
	CP25609- *-NY	25610- *-NYR	<b>TeeJet Flat Spray Tips (Larger Capacities)</b>  TP Standard -10 Thru -20    XR -10 Thru -15
	CP25597- *-NY	25598- *-NYR	<b>TJ60 TwinJet®</b> <b>AI TeeJet and AIUB TeeJet</b> <b>SJ3 StreamJet</b> <b>DG TwinJet®</b> <b>Turbo TeeJet Induction®</b> <b>AITJ60 Turbo TwinJet</b> 
	CP25595- *-NY	25596- *-NYR	<b>TeeJet Flat Spray Tips (Smaller Capacities)</b> Tips can be positioned in choice of two spray plane directions—parallel or perpendicular to wings of Quick TeeJet cap.
	CP25599- *-NY	25600- *-NYR	<b>Turbo FloodJet®</b> <b>TK-VS FloodJet®</b> <b>TK-VP FloodJet®</b> VisiFlo® Spray Tip    VisiFlo Spray Tip    Locating Nib    VisiFlo Spray Tip 
	CP25607- *-NY CP25607-9-PP††	25608- *-NYR 25608-9-PP††	<b>TK FloodJet®</b> <b>FL FullJet®</b> <b>TX ConeJet®</b> <b>TG Full Cone</b> <b>Hose Shank</b> <b>AITXA ConeJet</b> 
	CP25607- *-NY	—	 D-Disc    Core    Seal CP18999-EPR (EPDM standard)    Used with DC-Core Inserts and CP4916 Flow Regulators (Insert Core into Seal) CP18999-VI (Viton® optional)
	CP26277-1-NY†	26278-1-NYR†	<b>Ceramic Disc-Core</b> <b>TXB ConeJet®</b> <b>AITXB ConeJet</b>  D-Disc    Core
	—	QJ4676-45-1/4-NYR†	45° Quick TeeJet cap with 1/4" NPT female threaded outlet
	—	QJ4676-90-1/4-NYR†	90° Quick TeeJet cap with 1/4" NPT female threaded outlet
	—	QJ4676-1/8-NYR† QJ(B)4676-1/4-NYR†	Permits use of standard 1/8" and 1/4" nozzles. Can be used for mounting pressure gauge at the nozzle. See Data Sheet 20055 for more information. (B) = BSPT
	—	19843-NYR†	Provides shutoff at nozzle for quick spacing change or change in spray swath.

\*Specify color code (see chart). Violet (10) only available in CP25611 and CP25597 Nylon caps.

†These Quick TeeJet caps available only in black.

††Polypropylene Quick TeeJet caps available only in gray and rated to 150 PSI (10 bar). Nylon caps not available in gray.

### Quick TeeJet Cap



The Quick TeeJet caps are designed with grooves that fit locating lugs on the nozzle body. Caps are made of Nylon and are available for use with all TeeJet® spray tips. Maximum operating pressure of 300 PSI (20 bar).

### How to order:

For cap and seat gasket set, specify set number and color code.

Example: 25612-3-NYR

For cap only, specify part number and color code.

Example: CP25597-4-NY

For seat gasket, specify part number.

Example: CP19438-EPR



# Quick TeeJet® Adapters and Accessories

## 55240-CELR

- Converts Hardi® snap-fit nozzle body connection to Quick TeeJet connection for easy installation of TeeJet tips. Especially useful for AIC, XRC and SJ7 tips.
- Acetal construction with EPDM gasket for durability and chemical resistance.
- Accepts standard tip strainers.
- Maximum operating pressure of 150 PSI (10 bar).



## QJ1/4T-NYB & QJT-NYB

- QJ1/4T-NYB allows use of Quick TeeJet system with 1/4" NPT and BSPT male connections.
- QJT-NYB permits use of Quick TeeJet system with standard 1/16"-16 TeeJet thread.
- Maximum operating pressure of 300 PSI (20 bar).



PART NUMBER	TO FIT
(B)QJ1/4T-NYB	1/4" (F) thread
QJT-NYB	1/16"-16 TeeJet thread

(B)=BSPT

## QJ1/4TT-NYB

- Allows use of Quick TeeJet system with 1/4" NPT and BSPT female connections.
- Maximum operating pressure of 300 PSI (20 bar).



PART NUMBER	TO FIT
QJ(B)1/4TT-NYB	1/4" (M) thread

(B)=BSPT

## 50854-NYB

- For use with Quick TeeJet nozzle bodies to extend body length by 1 inch (25 mm).
- Used to eliminate interference of spray pattern with sprayer boom structure or shields, particularly with twin pattern or fertilizer spray tips.
- Nylon body construction with EPDM gasket.
- Maximum operating pressure of 300 PSI (20 bar).



## QJT8360-NYB, QJP19011-NYB, QJ8360-NYB

- Retrofits to a Quick TeeJet system.
- Features ChemSaver® no-drip shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve.
- Standard diaphragm of EPDM with optional Viton® available upon request.
- Maximum operating pressure of 300 PSI (20 bar).
- Flow rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.



QJ8360-NYB



QJT8360-NYB  
QJP19011-NYB

PART NUMBER	TO FIT
QJ(B)8360-NYB	1/4" (M) thread
QJT8360-NYB	1/16"-16 TeeJet thread
QJP19011-NYB	3/8" BSPP thread

(B)=BSPT

## QJ90-1-NYR

- Fits standard Quick TeeJet bodies.
- Nylon body construction for strength and durability, with EPDM gasket (Viton® optional).
- Outlet can be fitted with Quick TeeJet caps and TeeJet spray tips.
- One piece, 90° elbow is ideal for installation of TK-VS FloodJet® and TF-VS or TF-VP Turbo FloodJet nozzles on single or multiple outlet nozzle bodies. Proper orientation of spray tip enhances spray distribution quality.
- Adapter outlet accepts standard tip strainers.
- Maximum operating pressure of 300 PSI (20 bar).



PART NUMBER	TO FIT
QJ90-1-NYR	Quick TeeJet

## QJ90-2-NYR

- Fits standard Quick TeeJet bodies.
- Made of Nylon with CP19438-EPR gasket (included).
- Use with Quick TeeJet cap and gasket for automatic alignment when using flat fan spray tips.
- 90° included angle between outlets. When used with standard flat fan tips produces a twin type spray pattern for improved coverage and canopy penetration.



PART NUMBER	TO FIT
QJ90-2-NYR	Quick TeeJet

## 22674-1/4-NYB

- Allows use of Quick TeeJet system with 1/4" NPT female connections.



PART NUMBER	TO FIT
22674-1/4-NYB	1/4" (M) thread

## QJ8355-NYB

- Allows use of Quick TeeJet system with 1/8" and 1/4" NPT female connections.
- Side mounting provides protection of the nozzle body.
- Features ChemSaver no-drip shutoff. Requires 10 PSI (0.7 bar) at the nozzle to open check valve.
- Standard diaphragm of EPDM with optional Viton available upon request.
- Maximum operating pressure of 300 PSI (20 bar).
- Flow rate: 2.25 GPM (8.5 l/min) at 5 PSI (0.34 bar) pressure drop, 3.18 GPM (12.0 l/min) at 10 PSI (0.69 bar) pressure drop.

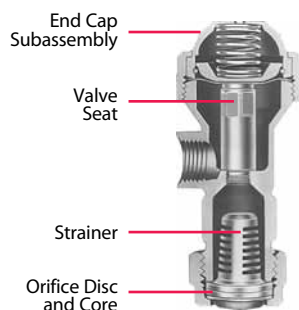


PART NUMBER	TO FIT
QJ8355-1/8-NYB	1/8" (F)
QJ8355-1/4-NYB	1/4" (F)



In this type of nozzle body, the diaphragm check valve is an integral part of the nozzle assembly. This design eliminates the pressure drop associated with ball-type check valves. The spring-backed diaphragm ensures dependable closure. Originally developed for use in aerial spraying, nozzle bodies of this design are now widely used wherever drip-free shutoff is required. For maximum operating pressures of 125 PSI (9 bar).

## Typical Assembly



### 8355

Made of Nylon with Nylon/polypropylene end cap assembly. Check valve opens at 10 PSI (0.7 bar) pressure. Choice of 1/8" or 1/4" NPT (F) inlet connections. Flow rate for 1/8" is 3 GPM at 5 PSI pressure drop (11.4 l/min at 0.34 bar). Flow rate for 1/4" is 3.9 GPM at 5 PSI pressure drop (15 l/min at 0.34 bar). Overall length 2 3/4" (70 mm). Weight: 1 1/2 ounces (43 g).

Reference page 58 for Quick TeeJet QJ8355.



### 12328-NYB

Made of Nylon with Celcon® bonnet. Check valve opens at 7 PSI (0.5 bar) pressure. (M) inlet connection and (F) outlet connections. Choice of 1/2" and 3/4" NPT sizes. Flow rate for 1/2" is 12 GPM at 5 PSI pressure drop (45 l/min at 0.34 bar). Flow rate for 3/4" is 16 GPM at 5 PSI pressure drop (61 l/min at 0.34 bar). Overall length 3" (76 mm). Weight: 9 ounces (0.26 kg).



### 8360

Made of Nylon with Nylon/polypropylene end cap assembly. Check valve opens at 10 PSI (0.7 bar) pressure. 1/4" NPT (M) inlet connection. Flow rate of 2.25 GPM at 5 PSI pressure drop (8.5 l/min at 0.34 bar). Overall length 2" (51 mm). Weight: 1 ounce (28 g).

Reference page 58 for Quick TeeJet QJ8360.

## ChemSaver® Diaphragm Check Valve Nozzle Bodies

Similar in design and performance to the TeeJet® Diaphragm Check Valve nozzle bodies, but with pipe thread outlet connections for spray nozzles instead of TeeJet caps and spray tips. For maximum operating pressures of 125 PSI (9 bar).



### 6140A

Made of brass. Check valve opens at 7 PSI (0.5 bar) pressure. Choice of 1/4" and 3/8" NPT (F) inlet connections. Outlet connection has dual 1/2" NPT external (M) thread and 3/8" NPT internal (F) thread. Flow rate of 4.5 GPM at 5 PSI pressure drop (17 l/min at 0.34 bar). Overall length 2 3/8" (61 mm). Weight: 2 1/2 ounces (71 g).



### 4664B

Made in choice of brass or aluminum with replaceable stainless steel valve seat. Check valve opens at 7 PSI (0.5 bar) pressure. 1/8" NPT (F) inlet connection. Flow rate of 2.0 GPM at 5 PSI pressure drop (7.5 l/min at 0.34 bar). Overall length 2 5/16" (59 mm). Weights: brass 3 ounces (85 g), aluminum 1 ounce (28 g).



### 4666B

Made in brass with replaceable stainless steel valve seat. 1/8" NPT (F) inlet and outlet connections. Flow rate of 2.0 GPM at 5 PSI pressure drop (7.5 l/min at 0.34 bar). Overall length 1 15/16" (49 mm). Check valve opens at 7 PSI (0.5 bar) pressure. Weight: 2 1/2 ounces (71 g).



### 6135A

Made of brass. Check valve opens at 7 PSI (0.5 bar) pressure. Choice of 1/4" and 3/8" NPT (F) inlet connections. Flow rate of 4.5 GPM at 5 PSI pressure drop (17 l/min at 0.34 bar). Overall length 2 5/8" (67 mm). Weight: 4 1/2 ounces (128 g).



### (B)10742A

Made in choice of brass or aluminum. Check valve opens at 7 PSI (0.5 bar) pressure. 1/4" NPT (M) inlet and (F) outlet connections. Overall length 1 1/4" (37 mm). Flow rate of 2.25 GPM at 5 PSI pressure drop (8.5 l/min at 0.34 bar). Weights: brass 2 1/2 ounces (71 g), aluminum 2 ounces (57 g).

(B)=BSPT



**TeeJet®**

## Nozzle Body ChemSaver® Check Valves



**55280**

### 55280 e-ChemSaver® Electric Solenoid Shutoff Valve

- Use with most diaphragm check valve equipped TeeJet nozzle bodies.
- 100 PSI (6.8 bar) maximum spraying pressure at minimum voltage (12V).
- 0.6 GPM (2.27 l/min) at 5 PSI (0.34 bar) pressure drop and 0.8 GPM (3.0 l/min) at 10 PSI (0.7 bar) pressure drop.
- ¼ second response time.
- 58480 Mini-DIN power cable available. See page 83 for details.



**56720**

### 56720 ChemSaver Air Shutoff Valve

56720 ChemSaver Air Shutoff Valve is designed as a pneumatic valve for use on Quick TeeJet® nozzle assemblies. Air pressure is used to open the valve and a spring is used to close the valve.

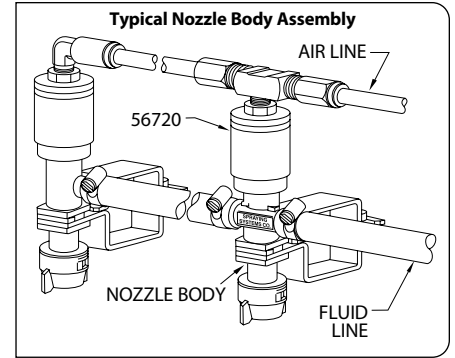
- Available in ½" NPT or BSPT (F) threads.
- Valve is normally closed.
- Air consumption per valve: 0.015 CF/CYCLE (.0007 L/CYCLE).



**58140**

### 58140 ChemSaver Manual Shutoff

- Use with any application where individual shutoff is important such as golf course and estate sprayers.
- 150 PSI (10 bar) maximum pressure rating.
- Nylon construction.



### Air ChemSaver System Line Features:

- Maximum 115 PSI (8 bar) liquid pressure.
- Must be compatible with Viton® polypropylene and polyurethane.
- (B)56720-1/8-F is for TeeJet nozzle bodies using one-piece diaphragm check valve with a flat diaphragm.
- (B)56720-1/8-B is for TeeJet nozzle bodies using two-piece diaphragm check valve with a bead diaphragm.

### How to order:

Contact your local TeeJet supplier for more information.

CHEMSAVER DIAPHRAGM CHECK VALVES		EXPLODED VIEW															
<p>Back end of Diaphragm Check Valves (Brass)</p>	<p><b>CP6227-TEF</b> Diaphragm Teflon® (optional) To be used with 4620 Diaphragm</p>	<p><b>CP4620-FA</b> Diaphragm Fairprene® or Viton</p>	<p><b>9758</b> End Cap Subassembly Brass, Aluminum</p>	<p><b>CP4624</b> Retainer Brass, Aluminum</p>													
	<p>Back end of Diaphragm Check Valves (Nylon)</p>	<p><b>CP6227-TEF</b> Diaphragm Teflon (optional) To be used with 21953 Diaphragm</p>	<p><b>CP21953-EPR</b> Diaphragm EPDM or Viton</p> <p><b>Note:</b> Nib on diaphragm fits into hole in end cap assembly.</p>	<p><b>21950-NYB</b> ChemSaver End Cap Assembly Nylon/polypropylene</p>		<table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>APPROXIMATE OPENING PRESSURE</th> </tr> </thead> <tbody> <tr> <td><b>21950-2-NY</b></td> <td>2 PSI (0.14 bar)</td> </tr> <tr> <td><b>21950-8-NYB</b></td> <td>8 PSI (0.6 bar)</td> </tr> <tr> <td><b>21950-10-NYB</b></td> <td>10 PSI (0.7 bar)</td> </tr> <tr> <td><b>21950-15-NY</b></td> <td>15 PSI (1 bar)</td> </tr> <tr> <td><b>21950-20-NYB</b></td> <td>20 PSI (1.4 bar)</td> </tr> </tbody> </table>	PART NUMBER	APPROXIMATE OPENING PRESSURE	<b>21950-2-NY</b>	2 PSI (0.14 bar)	<b>21950-8-NYB</b>	8 PSI (0.6 bar)	<b>21950-10-NYB</b>	10 PSI (0.7 bar)	<b>21950-15-NY</b>	15 PSI (1 bar)	<b>21950-20-NYB</b>
PART NUMBER	APPROXIMATE OPENING PRESSURE																
<b>21950-2-NY</b>	2 PSI (0.14 bar)																
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<b>21950-10-NYB</b>	10 PSI (0.7 bar)																
<b>21950-15-NY</b>	15 PSI (1 bar)																
<b>21950-20-NYB</b>	20 PSI (1.4 bar)																
<p><b>QJ353A</b></p>	<p><b>CP56709-EPDM</b> Diaphragm EPDM or Viton</p>	<p><b>56714-NYB</b> End Cap Subassembly</p>	<p><b>CP56711-NYB</b> Retaining Ring</p>														



## 98450 Series Brass Rollover

TeeJet rollovers are designed for use on air blast sprayers in orchard and vineyard spraying applications. These compact rollovers are available with or without diaphragm check valve, offer a choice of single- or double-outlet configurations, and are available with a variety of inlet connection sizes and thread types.

Precision machined forged brass construction makes TeeJet rollovers both rugged and durable.

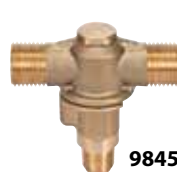
- Maximum recommended pressure of 750 PSI (52 bar)
- Flow rate of 1.6 GPM (6.1 l/min) with a 10 PSI (0.69 bar) pressure drop
- Two shutoff positions at 90° from open
- Three open positions at vertical and +/-15° from vertical with positive detent
- 1/16"-16 outlet thread accepts standard tip retaining caps



**98450**  
Double Outlet



**98451**  
Single Outlet



**98452**  
Double Outlet



**98453**  
Single Outlet

### Sample Rollover Part Number:

**B98450-1/4F**

INLET THREAD TYPE	
BLANK	NPT
B	BSPT
S	NPS
P	BSPP

**Note:** NPS & BSPP versions include locking nut on inlet

MODEL SPECIFICATION	
9845	ROLLOVER

INLET THREAD SIZE	
1/4F	1/4" FEMALE
1/4M	1/4" MALE
3/8M	3/8" MALE

**Note:** 1/4F not available in NPS or BSPP

BODY CONFIGURATION	
0	DOUBLE OUTLET, WITH CHECK VALVE
1	SINGLE OUTLET, WITH CHECK VALVE
2	DOUBLE OUTLET, NO CHECK VALVE
3	SINGLE OUTLET, NO CHECK VALVE

## Plug Valve

A compact quarter turn on-off valve for many applications. Low-profile handle is suited for use on airblast sprayers. Maximum operating pressure of 400 PSI (28 bar). Brass with Celcon® handle.



**23220**

PLUG VALVE NUMBER	CONNECTIONS IN NPT
(B)23220-1/4F x 1/4F	1/4" (F) x 1/4" (F)
(B)23220-1/8F x 1/8F	1/8" (F) x 1/8" (F)
(B)23220-1/4M x T	1/4" (M) x 1/16"-16 (M)
(B)23220-1/4F x T	1/4" (F) x 1/16"-16 (M)
(B)23220-1/4M x 1/4F	1/4" (M) x 1/4" (F)
(B)23220-1/4F x 1/4M	1/4" (F) x 1/4" (M)

(B)=BSPT

### Typical Assembly with Ceramic Disc and Core



**4514-NY**  
Slotted Strainer\*



**Core**



**Disc**



**CP20230**  
TeeJet Cap

\*Use CP20229-NY gasket when 4514-NY Nylon slotted strainer is not used.

# TeeJet® Row Application Kit

## The 23770 Adjustable Row Application Kit is for Applying Post-emergence Chemicals Over Crop Rows

### Features:

- Arms adjustable for length and angle without removing bolts; simply loosen.
- Available with stainless steel arms.
- Positioning one arm at proper angle automatically sets correct angle of second arm.
- Fits square or round booms up to 1 1/2" diameter.
- Kit includes standard and Quick TeeJet® nozzle bodies.
- Side nozzle bodies may be rotated.
- Maximum pressure of 125 PSI (9 bar).
- Spray tips and strainers not included.

**How to order:**  
Specify model number.  
Example: 23770-SS



Model #23770 Row Application Kit  
(Supplied without spray tips and strainers)



# TeeJet® Swivel Nozzle Bodies

## Quick TeeJet® Swivel Nozzle Bodies

QJ8600 swivel Quick TeeJet nozzle body assemblies provide the same spray tip adjustability of a standard TeeJet threaded swivel plus the quick change and self-aligning features of the Quick TeeJet System.



**QJ8600-2-1/4-NYB**  
Double Swivel Nozzle

PART NUMBER	PIPE THREAD	MATERIAL
QJ8600-2-1/4-NYB	1/4" NPT (F)	Nylon



**QJ8600-1/4-NYB**  
Single Swivel Nozzle

PART NUMBER	PIPE THREAD	MATERIAL
QJ8600-1/4-NYB	1/4" NPT (F)	Nylon

## Swivel Nozzle Bodies

TeeJet swivel nozzle bodies are primarily for use with tips employed in row crop spraying. A locknut holds swivel bodies firmly in position at selected spray projection angle so they are not affected by jarring and vibration. For use at pressures up to 125 PSI (9 bar).



**Type 5000**  
Single Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
(B)5000-1/4T	1/4" NPT (F)	Brass	280°



**Type 5540**  
Single Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
(B)5540-1/4TT	1/4" NPT (M)	Brass	280°



**Type 4202**  
Double Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
4202-2-1/4T	1/4" NPT (F)	Brass	280°



**Type 6240**  
Double Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
(B)6240-1/4TT	1/4" NPT (M)	Brass	280°



**Type 7450 Compact**  
Double Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
(B)7450-2T	1/4" NPT (F)	Brass	280°



**Type 5932**  
Double Swivel Nozzle 1/4" NPT female bottom outlet

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
5932-2-1/4T	1/4" NPT (F)	Brass	280°



**Type 8600 Nylon**  
Single Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
8600-1/4T-NYB	1/4" NPT (F)	Nylon	280°



**Type 8600-2 Nylon**  
Double Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
8600-2-1/4T-NYB	1/4" NPT (F)	Nylon	280°



**Type 7620 Compact**  
Single Swivel Nozzle

PART NUMBER	INLET CONNECTION	MATERIAL	SWIVEL ARC RANGE
(B)7620-T	1/4" NPT (F)	Brass	360°

### How to order:

Examples: 5000-1/4T Brass NPT  
B5000-1/4T Brass BSPT

**Note:** Swivels do not include tips, strainers or caps.



# TeeJet® Hose Drops

Hose drops connect to standard and Quick TeeJet nozzle bodies and can also be used with swivels. Available in 15" (380 mm) and 24" (610 mm) lengths. Maximum operating pressure of 125 PSI (9 bar).

**Note:** QJ1/4T-NYB can be attached to hose drops for use with Quick TeeJet caps. See page 58 for ordering information.

ITEM	HOSE DROP NUMBER	LENGTH	INLET CONNECTION	OUTLET CONNECTION	MATERIAL
A	21353-6-15-NYB	15" (380 mm)	Quick TeeJet Type	1/4" NPT (M)	Nylon with Quick TeeJet cap and EPDM gasket
	21353-6-24-NYB	24" (610 mm)			
B	21354-15-NYB	15" (380 mm)	1 1/16"-16 TeeJet Thread		Nylon
	21354-24-NYB	24" (610 mm)			



**QJ1/4T-NYB**





## For Operating Pressures up to 125 PSI (9 bar)

Brass, stainless steel, Nylon and Celcon®/stainless steel hose shank nozzle bodies. Features 1/16"-16 TeeJet threaded outlet.

See page 64 for clamp assemblies.

### Single Hose Connection



15427  
12670

HOSE SHANK BODY ASSEMBLY NUMBER	TO FIT HOSE I.D.	MATERIAL
15427-296	1/4"	Brass
12670-406TD	3/8"	Nylon

### Single Hose Connection



6471B  
8121-NYB  
9191B  
12201-CE

HOSE SHANK BODY ASSEMBLY NUMBER	TO FIT HOSE I.D.	MATERIAL
6471B-400TD	3/8"	Brass
6471-SS-C400TD	3/8"	Stainless Steel
8121-NYB-406TD	3/8"	Nylon
8121-NYB-540TD	1/2"	Nylon
9191B-531TD	1/2"	Brass
9191-SS-C531TD	1/2"	Stainless Steel
12201-CE-785TD	3/4"	Celcon Hose Shank/ Stainless Steel Threaded Outlet
12201-CE-1062TD	1"	Celcon Hose Shank/ Stainless Steel Threaded Outlet

### Double Hose Connection



6472B  
8120-NYB  
9192B  
12202-CE

HOSE SHANK BODY ASSEMBLY NUMBER	TO FIT HOSE I.D.	MATERIAL
6472B-400TD	3/8"	Brass
6472-SS-C400TD	3/8"	Stainless Steel
8120-NYB-406TD	3/8"	Nylon
8120-NYB-540TD	1/2"	Nylon
9192B-531TD	1/2"	Brass
9192-SS-C531TD	1/2"	Stainless Steel
12202-CE-785TD	3/4"	Celcon Hose Shank/ Stainless Steel Threaded Outlet
12202-CE-1062TD	1"	Celcon Hose Shank/ Stainless Steel Threaded Outlet

### How to order:

To order body assembly only, specify hose shank assembly number.

Example: 12202-CE-1062

### Triple Hose Connection



8124-NYB

HOSE SHANK BODY ASSEMBLY NUMBER	TO FIT HOSE I.D.	MATERIAL
8124-NYB-406TD	3/8"	Nylon
8124-NYB-540TD	1/2"	Nylon

# TeeJet® Split Eyelet Nozzle Bodies

## For Wet Booms

- Mounting on 1/2", 3/4" or 1" pipe or tubing.
- 25775-NYB mounts to 3/8" (9.5 mm) hole drilled in pipe or tubing.
- 7421 mounts to 7/32" (7.2 mm) hole drilled in pipe or tubing.
- 25775-NYB and 7421 feature 1/16"-16 TeeJet threaded outlets.
- 25888-NYB features 1/4" (M) NPT threaded outlet.

### How to order:

Specify split eyelet assembly number.

Examples: 7421-1/2T-SS  
25775-1/2T-NYB  
25888-1/2-NYB



25775-NYB  
Operating pressures up to 150 PSI (10 bar)



7421  
Operating pressures up to 250 PSI (17 bar)

SPLIT EYELET ASSEMBLY NUMBER	MATERIAL	TO CLAMP ON
25775-1/2T-NYB 25888-1/2-NYB	Nylon	1/2" Pipe 13/16" O.D. Tubing 7/8" O.D. Tubing
25775-3/4T-NYB 25888-3/4-NYB	Nylon	3/4" Pipe 1" O.D. Tubing 1 1/16" O.D. Tubing
25775-1T-NYB 25888-1-NYB	Nylon	1" Pipe 1 1/4" O.D. Tubing 1 3/8" O.D. Tubing

SPLIT EYELET ASSEMBLY NUMBER	BODY MATERIAL	TO CLAMP ON
7421-1/2T	Brass	1/2" Pipe
7421-1/2T-SS	Stainless Steel	13/16" O.D. Tubing 7/8" O.D. Tubing
7421-1/2T-NYB	Nylon	7/8" O.D. Tubing
7421-3/4T	Brass	3/4" Pipe
7421-3/4T-SS	Stainless Steel	1" O.D. Tubing 1 1/16" O.D. Tubing
7421-3/4T-NYB	Nylon	1 1/16" O.D. Tubing
7421-1T	Brass	1" Pipe
7421-1T-SS	Stainless Steel	1 1/4" O.D. Tubing 1 3/8" O.D. Tubing
7421-1T-NYB	Nylon	1 3/8" O.D. Tubing

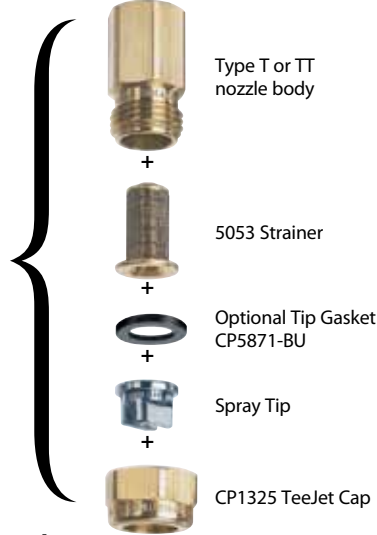


## Standard Parts

TeeJet Spray Nozzle



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## 11750 TeeJet Check Valve

For larger capacity TeeJet nozzles where strainers are not required. Ball check opens at 5 PSI (0.34 bar), 10 PSI (0.7 bar) spring also available. Recommended for flow rates from .40 to 1.5 GPM (1.5–5.7 l/min). Made in choice of stainless steel, brass, aluminum or polypropylene with stainless steel ball and spring.



## TeeJet Nozzle Bodies



**Type-TT**  
Male Inlet NPT or BSPT Connection

TEEJET BODY NUMBER	FOR TEEJET NOZZLE TYPE	MALE SIZE	MATERIAL
CP(B)1336	1/8TT	1/8"	Brass
CP(B)1322	1/4TT	1/4"	Brass
CP(B)8028-NYB	1/4TT-NYB	1/4"	Nylon
CP(B)1322-I	1/4TT-I	1/4"	Steel
CP(B)1322-SS	1/4TT-SS	1/4"	Stainless Steel
CP(B)1324	3/8TT	3/8"	Brass
CP(B)1340	1/2TT	1/2"	Brass
CP(B)3818	3/4TT	3/4"	Brass
CP(B)3818-SS	3/4TT	3/4"	Stainless Steel

(B) = BSPT



**Type-T**  
Female Inlet NPT or BSPT Connection

TEEJET BODY NUMBER	FOR TEEJET NOZZLE TYPE	FEMALE SIZE	MATERIAL
CP(B)1335	1/8T	1/8"	Brass
CP(B)1321	1/4T	1/4"	Brass
CP(B)12094-NYB	1/4T-NYB	1/4"	Nylon
CP(B)1321-I	1/4T-I	1/4"	Steel
CP(B)1321-SS	1/4T-SS	1/4"	Stainless Steel
CP(B)1323	3/8T	3/8"	Brass
CP(B)1339	1/2T	1/2"	Brass
CP3817	3/4T	3/4"	Brass
CP3817-SS	3/4T	3/4"	Stainless Steel

(B) = BSPT

CP1325



CP18032A-NYB

## TeeJet Nozzle Caps

Secure interchangeable TeeJet tips to the various nozzle bodies. 18032A-NYB winged TeeJet cap allows quick change of spray tips with no tool required.

TEEJET CAP NUMBER	DESCRIPTION
CP1325	Brass
CP8027-NYB	Nylon
CP8027-1-NYB	Nylon (Extra-long size)
CP1325-AL	Aluminum
CP1325-SS	Stainless Steel
CP18032A-NYB	Winged Cap, Nylon
CP3819	Brass, use with 3/4T & 3/4TT body
CP3819-SS	Stainless Steel, use with 3/4T & 3/4TT body
CP20230	Brass, use with ceramic disc-cores

## 45° Nozzle Body

Ideal for use with FullJet®, FloodJet® and Turbo FloodJet® nozzles. Can be used with QJ4676 Quick TeeJet® cap or standard 4676 outlet adapter. Made of polypropylene.



TEEJET BODY NUMBER	INLET	OUTLET
(B)22669-1/4-PPB	1/4" (M)	1/16"-16 (M)

## How to order:

Specify part number.

Example: (B)22669-1/4-PPB

(B) = BSPT

## Clamp Assemblies

Consist of upper and lower clamps and bolt for use with hose shank nozzle bodies.



PART NUMBER	TO CLAMP ON
AA111-1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)
AA111-3/4	3/4" Pipe (1" & 11/16" O.D. Tubings)
AA111-1	1" Pipe (11/8", 11/4" & 13/8" O.D. Tubings)
AA111-1-1/4	11/4" Pipe (11/2" & 13/16" O.D. Tubings)



PART NUMBER	TO CLAMP ON
AA111SQ-1	1" Square Tubing
AA111SQ-1-1/4	11/4" Square Tubing
AA111SQ-1-1/2	11/2" Square Tubing



## Pipe Plugs



NUMBER	THREAD	MATERIAL
(B)8400-1/4-PPB	1/4" NPT	Polypropylene
8400-3/8-NYB	3/8" NPT	Nylon
8400-1/2-NYB	1/2" NPT	Nylon
8400-3/4-NYB	3/4" NPT	Nylon

### How to order:

Specify part number.  
Example: 8400-3/8-NYB Nylon

(B) = BSPT

## Plug Tip



CP3942 plug tip is used to temporarily shut off selected nozzles by replacing spray tips with these plug tips. Quick, easy way to change spacing of nozzles along boom. Materials: brass, aluminum or stainless steel.

### How to order:

Specify part number and material.  
Example: CP3942-SS

## 4676 TeeJet Outlet Adapters



Fits the outlets of TeeJet nozzle bodies as well as the outlets of various GunJet® spray guns and shutoff valves. Replaces CP1325 TeeJet cap. Used for attaching hose drops to nozzles or extensions to spray guns.

ADAPTER NUMBER	MATERIAL OUTLET CONNECTION	NPT (F)
(B)4676-*	Brass	1/8" 1/4" 3/8" 1/2" 3/4"
4676-NYB-*	Nylon	1/8" 1/4"
(B)4676-SS-*	Stainless Steel	1/8" 1/4" 3/8" 1/2" 3/4"

\*Specify outlet connection.

(B) = BSPT

### How to order:

Specify adapter number and material.  
Example: (B)4676-SS-1/4 Stainless Steel



## TeeJet Outlet Fittings

These fittings replace spray tips and are used for attaching drop pipes to nozzle bodies or adding extensions to AA23 and AA31 GunJet spray guns and trigger valves.

**CP4928 Adapter**—Brass, aluminum or stainless steel. Length 1". 1/8" NPT female outlet connection.

**CP6250 Adapter**—Brass or steel. Length 3/16". 1/8" NPT female outlet connection.

**6406 Adapter**—Brass, aluminum or steel. Length 1 5/16". 1/8" NPT male outlet connection.

### How to order:

Specify part number and material.  
Example: CP4928 Brass

## Hose Shank Adapters



8400



6053

6100

10123-281

## TeeJet Hose Shanks

For attaching hose to nozzle body. Fits all standard TeeJet nozzle caps, replacing spray tips. Type 4251 is available in choice of brass or stainless steel. Type 8400 is made of Nylon.

NYLON HOSE SHANK NUMBER	FOR HOSE I.D.
8400-406-NYB	3/8"
8400-500-NYB	1/2"



8400



4251

### How to order:

Specify hose shank number.  
Example: 8400-406-NYB

TEEJET HOSE SHANK NUMBER	FOR HOSE I.D.	TEEJET HOSE SHANK NUMBER	FOR HOSE I.D.
4251-250	1/4"	4251-400	3/8"
4251-312	5/16"	4251-437	7/16"
		4251-500	1/2"

### How to order:

Specify hose shank number and material.  
Example: 4251-250 Brass



13434  
13437

CONNECTOR NUMBER	NPT THREAD CONN. (MALE)	FOR HOSE I.D.	MATERIAL
8400-1/4-300-NYB	1/4"	1/4"	Nylon
8400-1/4-406-NYB	1/4"	3/8"	Nylon
8400-1/4-535-NYB	1/4"	1/2"	Nylon
8400-3/8-406-NYB	3/8"	3/8"	Nylon
8400-3/8-535-NYB	3/8"	1/2"	Nylon
8400-1/2-406-NYB	1/2"	3/8"	Nylon
8400-1/2-535-NYB	1/2"	1/2"	Nylon
8400-1/2-660-NYB	1/2"	5/8"	Nylon
8400-3/4-535-NYB	3/4"	1/2"	Nylon
8400-3/4-660-NYB	3/4"	5/8"	Nylon
8400-3/4-785-NYB	3/4"	3/4"	Nylon
8400-GGH-406-NYB	3/4" GHT	3/8"	Nylon
8400-GGH-535-NYB	3/4" GHT	1/2"	Nylon
8400-GGH-660-NYB	3/4" GHT	5/8"	Nylon
8400-GGH-785-NYB	3/4" GHT	3/4"	Nylon
8400-T-406-NYB TeeJet Body w/ hose shank connection	Fits TeeJet Cap	3/8"	Nylon

CONNECTOR NUMBER	NPT THREAD CONN.	FOR HOSE I.D.	MATERIAL
13434-406-NYB	1/4" (F)	3/8"	Nylon
13437-540-NYB	1/4" (F)	1/2"	Nylon

**How to order:** Specify connector number and material.  
Example: 6053-400 Brass

CONNECTOR NUMBER	NPT THREAD CONN. (MALE)	FOR HOSE I.D.	MATERIAL
6053-400	1/4"	3/8"	Brass
6100-675	3/4"	5/8"	Brass
6100-800	3/4"	3/4"	Brass
10123-1/4-281	1/4"	1/4"	Brass



13435  
13438

CONNECTOR NUMBER	NPT THREAD CONN.	FOR HOSE I.D.	MATERIAL
13435-406-NYB	1/4" (F)	3/8"	Nylon
13438-540-NYB	1/4" (F)	1/2"	Nylon



13436  
13439

CONNECTOR NUMBER	NPT THREAD CONN.	FOR HOSE I.D.	MATERIAL
13436-406-NYB	1/4" (F)	3/8"	Nylon
13439-540-NYB	1/4" (F)	1/2"	Nylon



# DirectoValve® B Style Electric Motors and Valves

## Shutoff/Control Motors

Boom Control motors are 22 RPM for 344B series (0.7 second shutoff valves) and 25 RPM for 346B and 356 series (0.6 second shutoff valves) for 12 VDC systems. Available with E or EC series motors with DIN or CABLE versions. E type motors work with DPDT (double pole, double throw) switch. EC type motors work with simple SPST (single pole, single throw) on/off switch and are compatible with all sprayer controls.

Current draw less than 2 amps (1.7 amps at 40 in.-lbs.).

Electrical connectors can be ordered with a standard number. See page 105 for more information.

**Note:** 2-way control motors can be rotated 180° to change the cable outlet direction on the valve. There is also an adapter to rotate motors 90°, contact your local representative for more information.

An internal fuse protects the valve and your electrical system, and it resets automatically by disconnecting power to the motor for 20 seconds.

Direct coupled visual indicator to verify position/operation. Yellow oval indicates 22 RPM motor. Yellow diamond indicates 25 RPM motor.

Cover fits snugly over the motor cavity to reduce air space and eliminate condensation. It's sealed and sonically welded to comply with the IP67 rating for submersion under water.

Permanent etched marking with complete motor number and date coded (year, month, day).

Double-wall construction of the gearbox increases strength and maintains permanent lubrication of the durable, all-metal gears.

Motor head assembly is easily detached by pulling a retaining pin allowing manual operation or easy replacement of the motor.

Available for either positive or negative switched electrical systems with a sturdy, built-in double sealed grommet and flat gasket that seals the DIN connector versions. Motor and DIN cables are made of polyurethane.



## Regulating Motors

Choosing the proper regulating motor speed is important to maximizing the sprayer's performance. Three speeds are offered at this time: 1 RPM, 3 RPM and 6 RPM. The 1 RPM speed is used mostly in manual systems; it is too slow for automated rate control. The other two speeds are used in automated systems. The 3 RPM is the most popular and opens the valve to the maximum flow in about 6 seconds for the RL valve and about 10 seconds for the PR valves. The 6 RPM motor cuts those times in half.

## DIN and Cable Electrical Connector

Both DIN and motor cables are made of polyurethane and are pressure extruded creating a round cable for improved sealing. Polyurethane has twice the strength and three times the tear and abrasion resistance of PVC. Motor cables include over-molded plugs that seal off the ends of cables and wires to prevent seepage. Conductor insulation uses familiar color coding of red, white and black.

DIN cable connectors are constructed of a special over molded elastomeric material that does not require a flat gasket to be sealed. The center screw is made of stainless steel.

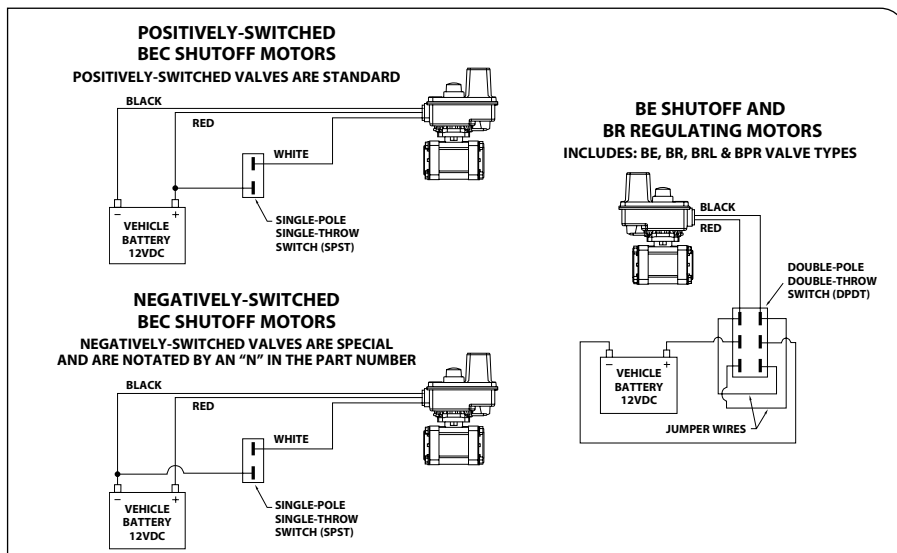
## How to Order:

Example: 38082-30, 10 ft. (3 meter) DIN cable.



DIN CABLE	CABLE
38082-05	1.5' (0.5 meter) DIN cable
38082-15	5' (1.5 meter) DIN cable
38082-30	10' (3 meter) DIN cable
38082-60	20' (6 meter) DIN cable

DIN cables are ordered separately.





## B Style Shutoff Motor Numbers

344B SERIES			CURRENT DRAW (AMPS)**	346B AND 356 SERIES			CURRENT DRAW (AMPS)**		CABLE LENGTH
BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	344B	BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	346B	356	
50515-22CP03	* 50515-22CN03	* 50533-22C03	1.1	50515-25CP03	* 50515-25CN03	* 50533-25C03	1.75	2.2	1.0' (0.3 meter) cable
50515-22CP05	* 50515-22CN05	50533-22C05	1.1	50515-25CP05	* 50515-25CN05	50533-25C05	1.75	2.2	1.5' (0.5 meter) cable
50515-22CP15	* 50515-22CN15	* 50533-22C15	1.1	50515-25CP15	* 50515-25CN15	* 50533-25C15	1.75	2.2	5' (1.5 meter) cable
50515-22CP60	* 50515-22CN60	* 50533-22C60	1.1	50515-25CP60	* 50515-25CN60	* 50533-25C60	1.75	2.2	20' (6 meter) cable
50515-22DP	* 50515-22DN	* 50533-22D	1.1	50515-25DP	* 50515-25DN	* 50533-25D	1.75	2.2	DIN Electrical Connector

Items marked with "\*" are non-stock items.

\*\* Current draw is a nominal rating @ 13.8 VDC and will vary dependent upon valve usage and chemicals used.

**Note:** DIN cables are ordered separately.

## \*Bypass Valve (Normally Open) BEC Motors

344B SERIES			CURRENT DRAW (AMPS)**	346B AND 356 SERIES			CURRENT DRAW (AMPS)**		CABLE LENGTH
BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	344B	BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	346B	356	
50994-22CP03	* 50994-22CN03	* 50533-22C03	1.1	50994-25CP03	* 50994-25CN03	* 50533-25C03	1.75	2.2	1.0' (0.3 meter) cable
50994-22CP05	* 50994-22CN05	50533-22C05	1.1	50994-25CP05	* 50994-25CN05	50533-25C05	1.75	2.2	1.5' (0.5 meter) cable
50994-22CP15	* 50994-22CN15	* 50533-22C15	1.1	50994-25CP15	* 50994-25CN15	* 50533-25C15	1.75	2.2	5' (1.5 meter) cable
50994-22CP60	* 50994-22CN60	* 50533-22C60	1.1	50994-25CP60	* 50994-25CN60	* 50533-25C60	1.75	2.2	20' (6 meter) cable
50994-22DP	* 50994-22DN	* 50533-22D	1.1	50994-25DP	* 50994-25DN	* 50533-25D	1.75	2.2	DIN Electrical Connector

Items marked with "\*" are non-stock items.

\*\* Current draw is a nominal rating @ 13.8 VDC and will vary dependent upon valve usage and chemicals used.

**Note:** DIN cables are ordered separately.

## 344B & 346B Regulating Motors

SPEED (RPM)	R & RL MOTOR NO.	PR MOTOR NO.	CURRENT DRAW (AMPS)**		CABLE LENGTH
			AA344B	AA346B	
1	* 50516-01C03	* 50996-01C03	0.10	0.12	1.0' (0.3 meter) cable
1	* 50516-01C05	* 50996-01C05	0.10	0.12	1.5' (0.5 meter) cable
1	* 50516-01C15	* 50996-01C15	0.10	0.12	5' (1.5 meter) cable
1	* 50516-01C60	* 50996-01C60	0.10	0.12	20' (6 meter) cable
1	* 50516-01D	* 50996-01D	0.10	0.12	DIN Electrical Connector
3	* 50516-03C03	* 50996-03C03	0.15	0.20	1.0' (0.3 meter) cable
3	* 50516-03C05	* 50996-03C05	0.15	0.20	1.5' (0.5 meter) cable
3	* 50516-03C15	* 50996-03C15	0.15	0.20	5' (1.5 meter) cable
3	* 50516-03C60	* 50996-03C60	0.15	0.20	20' (6 meter) cable
3	* 50516-03D	* 50996-03D	0.15	0.20	DIN Electrical Connector
6	* 50516-06C03	* 50996-06C03	0.43	0.50	1.0' (0.3 meter) cable
6	* 50516-06C05	* 50996-06C05	0.43	0.50	1.5' (0.5 meter) cable
6	* 50516-06C15	* 50996-06C15	0.43	0.50	5' (1.5 meter) cable
6	* 50516-06C60	* 50996-06C60	0.43	0.50	20' (6 meter) cable
6	* 50516-06D	* 50996-06D	0.43	0.50	DIN Electrical Connector

Items marked with "\*" are non-stock items.

\*\* Current draw is a nominal rating @ 13.8 VDC and will vary dependent upon valve usage and chemicals used.

**Note:** DIN cables are ordered separately. See page 66 for DIN cable options.



# DirectoValve® Electric Regulating Valves

## DirectoValve® Electric Pressure Regulating Valves

The proper regulating valve will enhance the operation of a sprayer, especially one with an automatic rate controller. While advanced electronics provide features and control, the proper regulating valve helps the system to respond quickly to input changes and functions over a wide range of application rates. Choosing the proper valve involves determining the maximum capacity required, the range of application rates and the proper motor speed.

## System Capacity

A regulating valve's system requirements will depend on the application amount and the pumping capacity. Additionally, the regulating valve can be used in bypass or throttling mode. In throttling mode, the flow through the valve will be applied through the nozzles. In bypass mode, the excess flow

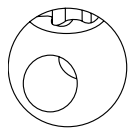
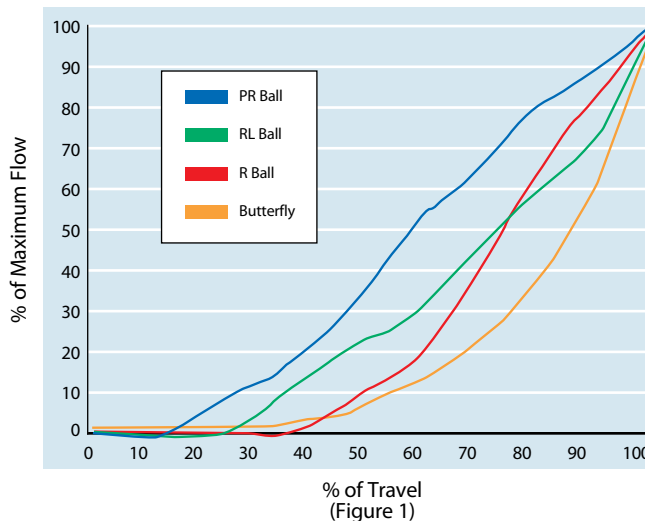
from the pump is recirculated. A valve that works well throughout the flow spectrum has the best chance to work in all situations.

## Types of Regulating Valves

Special ball shapes make regulating valves more responsive and able to work with both high and low application rates. Most agricultural sprayers use either a

2-way ball valve or butterfly valve for regulating purposes. When considering sizing a regulating valve, the first concern is to understand the valve's flow curve to determine how efficiently the valve will regulate. Figure 1 shows typical flow curves for DirectoValve® regulating type valves. This will help to decide the type of valve to use.

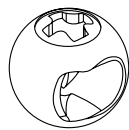
Regulating Valve Flow Curves



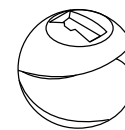
R Type Valve



Butterfly Valve



RL Valve



PR Valve

## R Type and Butterfly Valves

As shown on the graph, the butterfly valve has the most non-linear flow curve for final 1/3 (30°) of travel leading to an increase of 75% in flow through the valve. The straight 2-way "R" ball curve is not quite as steep, with the flow through the valve increasing by 60% over the last 30° of travel. The "R" ball, however, has the additional disadvantage of not allowing significant flow during the first 1/3 of its rotation. Since a small change of rotation causes a significant change using these valves, trying to regulate large flows when the valve is two thirds to full open presents a challenge.

## RL Valve

TeeJet Technologies has developed a special ball that allows the valve to start regulating earlier thus extending the regulating range. This special ball valve also increases flow and the linear characteristic of the valve during the first 3/4 of the valve cycle. The flow from the valve starts 10° earlier, than a regular R type ball and increases the flow of the RL ball during the first 70% of travel (Figure 1). The maximum capacity is about 10% less than an R type valve.

## PR Valve

The PR valve uses a 3-way valve body and a ball with a wedge removed. The combination of this ball and a motor that rotates past the standard 90° results in a valve with an almost linear flow curve. The 2PR version has one outlet plugged. The 3PR version allows bypass flow to return to the tank.

As noted in Figure 1, the percentage of flow increases by approximately the amount of ball travel thus avoiding the rapid change seen with standard ball valves and butterfly valves.

## Ball Type Regulating Valves

\* Not available in stainless steel.

MODEL NUMBER	MAXIMUM PRESSURE	FLOW RATE AT A 5 PSI (0.34 bar) PRESSURE DROP	FLOW RATE AT A 10 PSI (0.69 bar) PRESSURE DROP
344BR-2	300 PSI (20 bar)	32 GPM (121 l/min)	45 GPM (170 /min)
344BR-3	300 PSI (20 bar)	24 GPM (91 l/min)	34 GPM (129 l/min)
344BRL-2	300 PSI (20 bar)	27 GPM (102 l/min)	38 GPM (144 l/min)
* 344BPR-2	300 PSI (20 bar)	12 GPM (45 l/min)	17 GPM (64 l/min)
* 344BPR-3	300 PSI (20 bar)	12 GPM (45 l/min)	17 GPM (64 l/min)
346BR-2	150 PSI (10 bar)	100 GPM (379 l/min)	141 GPM (534 l/min)
346BR-3	150 PSI (10 bar)	64 GPM (242 l/min)	91 GPM (344 l/min)
* 346BPR-2	150 PSI (10 bar)	53 GPM (200 l/min)	75 GPM (284 l/min)
* 346BPR-3	150 PSI (10 bar)	53 GPM (200 l/min)	75 GPM (284 l/min)



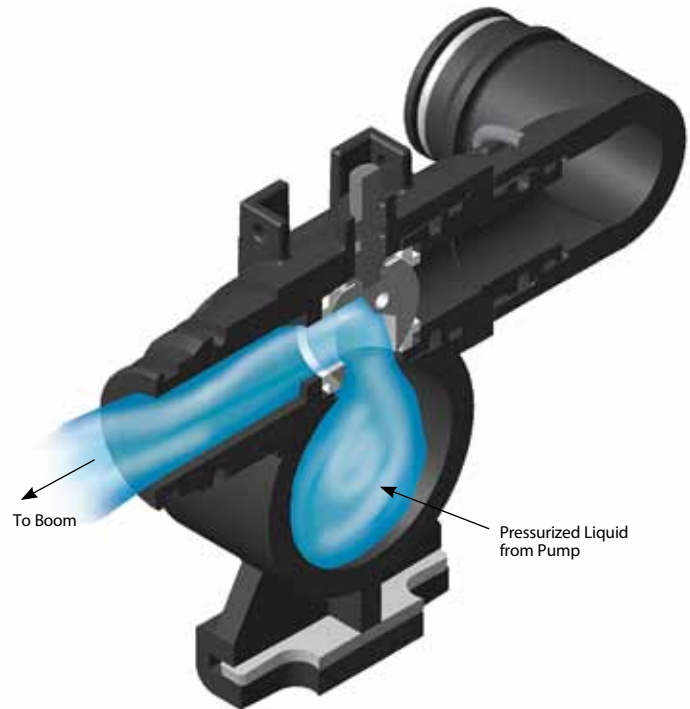
TeeJet Technologies' Flow Back valves utilize a patented design that can significantly improve the accuracy of spraying operations. Depending on sprayer configuration, standard shut off valves may allow a delay of five to ten seconds or more from the time the boom section is switched off to when the spray tips actually stop spraying. This delay can lead to over-application of spray product whenever boom sections are shut off or application to areas outside the target area. TeeJet Technologies' Flow Back feature allows for virtually instantaneous on/off spray tip control by rapidly releasing spray boom pressure. This is accomplished by diverting a small amount of liquid from the spray boom back to the spray tank. By providing precise boom shutoff and returning a small volume of liquid back to the tank, rather than mis-applying it, significant chemical savings can be achieved. Additionally, Flow Back valves are the perfect complement to automatic boom section control (ABSC) systems.

## Features:

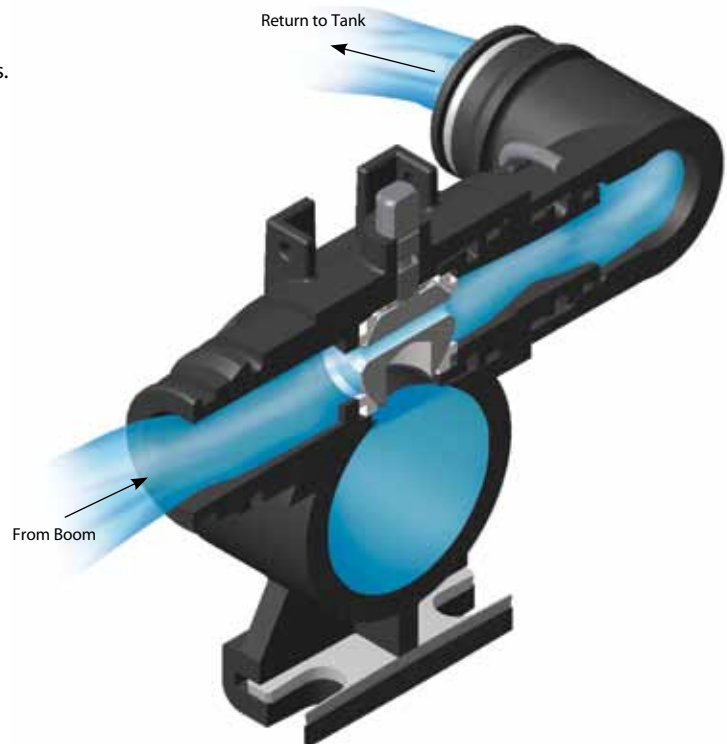
- Minimizes risk of over- or mis-application by relieving boom pressure and providing 80–95% faster tip shutoff, as compared to traditional shut off valves.
- Spray boom remains full of liquid allowing for spraying to resume instantly when valves are turned on.
- Reduces chemical expense by eliminating waste and protecting sensitive or non-target areas from overspray.
- Ideal companion for Automatic Boom Section Control (ABSC) systems, but suitable for use with any automatic or manual spray controller.
- Easy installation – requires only a single Flow Back return line to tank. No additional wiring or sensors required.
- Flow Back return line must have unrestricted flow to top of tank to ensure optimal sprayer performance. See page 141 for Flow Back plumbing diagram.
- Compatible with a wide variety of sprayer types, sizes and control systems.
- Flow Back configuration is available on 430, 450 and 460 manifolds. Select the best manifold based on maximum operating pressure, boom flow requirements, and mounting preferences.
- For further information please contact your local TeeJet Technologies distributor or sales representative.



## How Flow Back Valves Work



Flow Back Valve in Open Position



Flow Back Valve in Closed Position

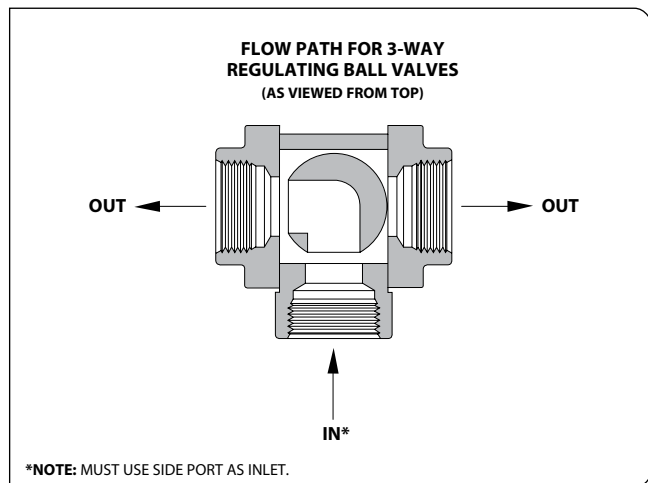


## 344B and 346B Pressure Regulating Ball Valves

The 340 series electrical regulating valves are designed to produce linear flow regulation and shutoff control in agricultural applications. Both models are available in several styles and motor speeds to accommodate different types of applications.

### Features:

- Available in 2-way and 3-way versions.
- Available in 1, 3, or 6 RPM motor speeds. Note: The PR versions cycle time is double that of an R or RL version.
- Two-wire lead provides easy installation with 12 VDC systems.
- Low power consumption, less than 1 amp.
- Offered in a variety of inlet/outlet connections. See pages 102–104 for additional information and options.
- Wetted parts are Nylon, polypropylene, stainless steel, Teflon®, and Viton®.
- See pages 66–68 for additional information on B style motors.



R & RL Series



344 BPR Series



346 R Series



346 BPR Series

## Butterfly Valve

### AA(B)244C-3/4 Remote Control Electric Regulating Butterfly Valve

The AA244C remote control electric regulation valve has been specifically designed to provide remote pressure control in agricultural applications using DirectoValve AA144A or AA145 solenoid shutoff valves.

### Features:

- Unrestricted flow when wide open – Flow Rate: 28 GPM (106 l/min) at 5 PSI (0.34 bar) drop, 40 GPM (151 l/min) at 10 PSI (0.69 bar) pressure drop.
- Bypass flow rate: 2 GPM (7.5 l/min) @ 10 PSI (0.7 bar).

- Operates in 12 VDC system and may be controlled by a double-pole double-throw spring-centered switch.
- Maximum operating pressure of 100 PSI (7 bar).
- Two-wire lead for use in 12 VDC system.
- 3/4" (F) NPT or BSPT connections.
- Easy installation (flows either direction).
- Good corrosion resistance.
- Low current draw (0.10 AMP).
- 20 second response time.



### How to order:

Specify model number.  
Example: AA(B)244C-3/4  
(B) = BSPT





**Sample Valve Part Number:**

**(B)344BRL-2FS-01C15AB**

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

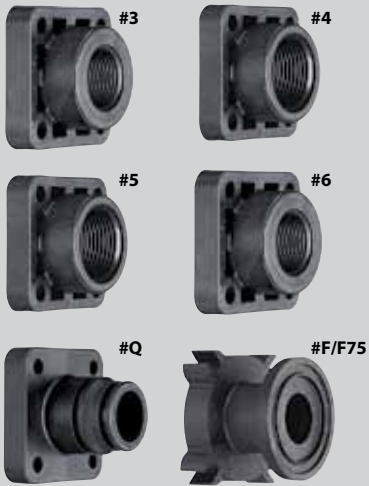
MODEL SPECIFICATIONS	
PART CODE	DESCRIPTION
344B/346B	REGULATING VALVE

MOTOR SPECIFICATIONS	
PART CODE	DESCRIPTION
R	REGULATING VALVE
RL	LINEAR REGULATING VALVE (344 SERIES ONLY)
*PR	PRESSURE REGULATING VALVE

\*Not available in stainless steel.

VALVE TYPES	
PART CODE	DESCRIPTION
2	2-WAY VALVE
3	3-WAY VALVE (PR & R ONLY)

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD (344 SERIES ONLY)
4	1" PIPE THREAD (344 SERIES ONLY)
5	1 1/4" PIPE THREAD (346 SERIES ONLY)
6	1 1/2" PIPE THREAD (346 SERIES ONLY)
Q	QUICK CONNECT (344 SERIES ONLY)
F	50 SERIES FLANGE
F75	75 SERIES FLANGE (346 SERIES ONLY)



See pages 102-104 for QC and flange fittings.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4, 5, 6:** When ordering 3/4" (3), 1" (4), 1 1/4" (5) or 1 1/2" (6) threaded NPT or BSPT inlet/outlet type valve connections, the inlets and outlets will be included during assembly.
- **F:** When ordering F or F75 (flange) type valve connections, the inlet/outlet fittings are ordered separately. Clamps and flange fittings are required. See pages 102-103 for flange fitting options.
- **Q:** When ordering QC (Quick Connect) hose barb type valve fittings, the inlet/outlet connections are ordered separately. Two 45529 QC fittings are required for 2-way valves and three each for 3-way valves. See page 104 for QC options.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

WIRING CONNECTORS	
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.	
See page 105 for electrical connectors and codes.	

MOTOR CABLES	
PART CODE	DESCRIPTION
C	0.5-METER CABLE
* C03	0.3-METER CABLE
* C15	1.5-METER CABLE
* C60	6.0-METER CABLE
D	DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

MOTOR SPEEDS	
PART CODE	DESCRIPTION
01	1 RPM (18 SECOND CYCLE TIME) MOTOR
03	3 RPM (6 SECOND CYCLE TIME) MOTOR
06	6 RPM (3 SECOND CYCLE TIME) MOTOR

**Note:** PR series cycle times are doubled.

BALL MATERIAL SPECIFICATIONS	
PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL (R & RL SERIES ONLY)

REPAIR KITS	
AB344AE-KIT	AB346B-KIT

**Note:** AB344AE-KIT for 344A&B Valves

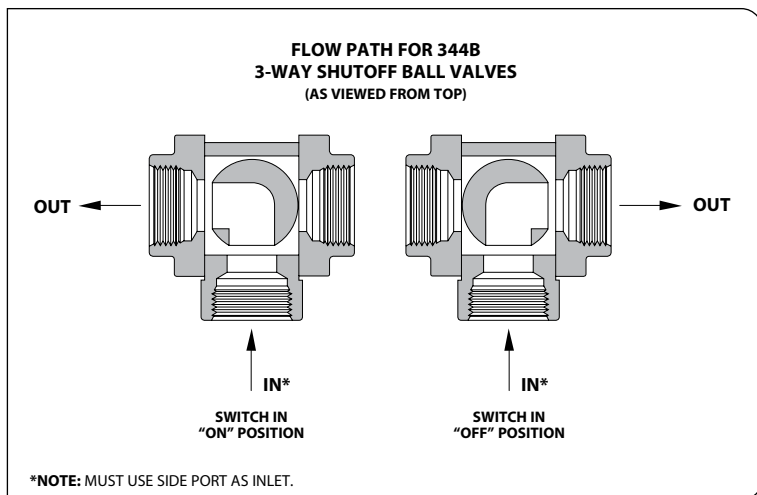


# DirectoValve® 344 Series Electric Shutoff Valves

344B shutoff ball valves are available with E or EC series motors and with cable or DIN electrical connections. See pages 66–67 for more information on DirectoValve motors.

## Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- Flexible inlet/outlets provide quick simple plumbing for a single valve. See page 73 for more information.
- Available in 2-way or 3-way versions. 2-way valves allow complete shutoff while the 3-way valves divert flow to a bypass line when boom controls are shut off.
- Stainless steel stem with optional polypropylene or stainless steel ball.
- Maximum pressure rating is 300 PSI (20 bar).
- The flow rate for the 344BEC 2-way valve is 32 GPM (121 l/min) flow rate with a 5 PSI (0.34 bar) pressure drop, 45 GPM (170 l/min) at a 10 PSI (0.69 bar) pressure drop.
- The flow rate for the 344BEC 3-way valve is 24 GPM (91 l/min) with a 5 PSI (0.34 bar) pressure drop, 34 GPM (129 l/min) at a 10 PSI (0.69 bar) pressure drop.
- Wetted parts are Nylon, Teflon®, polypropylene, stainless steel and Viton®.





**Sample Valve Part Number:**

**(B)344BEC-2FS-CN15AB**

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

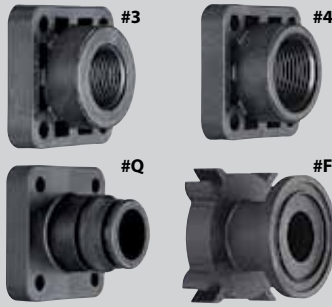
MODEL SPECIFICATION	
PART CODE	DESCRIPTION
344B	BALL VALVE

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPES	
PART CODE	DESCRIPTION
2	2-WAY VALVE
3	3-WAY VALVE

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102–104 for QC and flange fittings.

WIRING CONNECTORS
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.
See page 105 for electrical connectors and codes.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- 3, 4:** When ordering 3/4" (3) or 1" (4) threaded NPT or BSPT inlet/outlet type valve connections, the inlets and outlets will be completed during the ordering process.
- F:** When ordering F (flange) type valve connections, the inlet/outlet fittings are ordered separately. Two 50 series clamps and flange fittings are required for 2-way valves and three each for 3-way valves. See pages 102–103 for flange fitting options.
- Q:** When ordering QC (Quick Connect) hose barb type valve fittings, the inlet/outlet connections are ordered separately. Two 45529 QC fittings are required for 2-way valves and three each for 3-way valves. See page 104 for QC options.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

BALL MATERIAL SPECIFICATIONS	
PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

REPAIR KIT
AB344AE-KIT for 344A&B Valves



# DirectoValve® 346 Series Shutoff Valves

346BEC shutoff ball valves are available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

### Features:

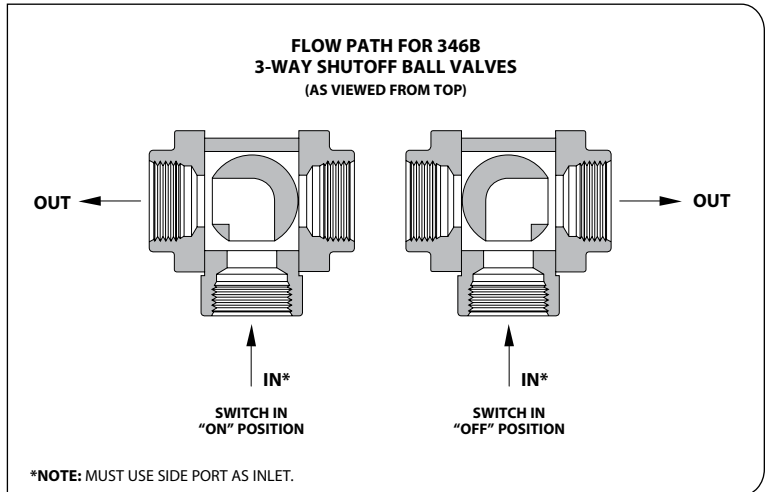
- 25 RPM, 0.6 second shutoff fully open to close.
- Available in 2-way or 3-way versions. 2-way valves allow complete shutoff while the 3-way valves divert flow to a bypass line when boom controls are shut off.
- The flow rate for the 346BEC 2-way valve is 100 GPM (379 l/min) with 5 PSI (0.34 bar) pressure drop, 141 GPM (534 l/min) with 10 PSI (0.69 bar) pressure drop.
- The flow rate for the 346BEC 3-way valve is 64 GPM (242 l/min) with a 5 PSI (0.34 bar) pressure drop, 91 GPM (344 l/min) with 10 PSI (0.69 bar) pressure drop.
- Polypropylene ball with stainless steel stem.
- Maximum pressure rating of 150 PSI (10 bar).
- Available with 1¼", 1½" NPT or BSPT (F) threads or 50 series flange fittings.
- Wetted parts made of corrosion-resistant materials, glass-reinforced polypropylene, Teflon®, stainless steel and Viton®.



**346BEC-25-C Valve**  
(rear view)



**346BEC-35-C Valve**  
(rear view)





**Sample Valve Part Number:**

**(B)346BEC-25S-CN15AB**

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
346B	BALL VALVE

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPES	
PART CODE	DESCRIPTION
2	2-WAY VALVE
3	3-WAY VALVE

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
5	1¼" PIPE THREAD
6	1½" PIPE THREAD
F	50 SERIES FLANGE
F75	75 SERIES FLANGE



See pages 102–103 for flange fittings.

WIRING CONNECTORS
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.
See page 105 for electrical connectors and codes.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **5, 6:** When ordering 1¼" (5) or 1½" (6) threaded NPT or BSPT inlet/outlet type valve connections, the valve will be completed during the ordering process.
- **F:** When ordering F or F75 (flange) type valve connections, the inlet/outlet fittings are ordered separately. Two clamps and flange fittings are required for 2-way valves and three each for 3-way valves. See pages 102–103 for flange fitting options.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

BALL MATERIAL SPECIFICATIONS	
PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL (2-WAY VALVE ONLY)

REPAIR KIT
AB346B-KIT



# DirectoValve® 356 Series Flanged Shutoff Valves

The 356BEC DirectoValve control valve delivers performance and dependability. The trunnion-style valve is a hard-working, commercial-duty control valve made to go the distance. It combines dozens of design features into a control valve that will respond quickly and last longer than other valves.

356BEC shutoff ball valves are available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

### Features:

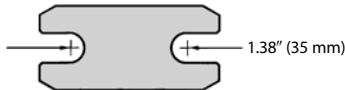
- 25 RPM, 0.6 second shutoff fully open to close.
- Flow rate is 100 GPM (379 l/min) with a 5 PSI (0.34 bar) pressure drop, 141 GPM (534 l/min) with a 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 150 PSI (10 bar).
- Wetted parts are polypropylene, stainless steel, carbon-filled Teflon®, Viton® and Ryton®.
- 50 series flange fittings reduce leaks and allow various inlet/outlet connections. See pages 102–103 for more information.



(front view)



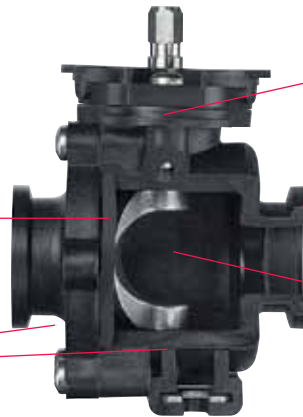
356BEC-C Valve  
(rear view)



Mounting foot pattern  
for 5/16" (8 mm) bolts.

Wear-resistant, carbon-filled Teflon seal improves durability and minimizes the potential for leakage.

Fasteners and mounting foot made of 303 stainless steel to prevent corrosion, provide strength and provide easy mounting. A 5/16" or 8 mm bolt can be used to mount the valve.



Bearings above and below the ball maintain precise position and assure long life.

TeeJet® 50 series flanged fittings at the inlet and outlet permit easy attachment of hoses or to a manifold. It's compatible with other flanged fittings on the market.

Uniquely shaped, 316 stainless steel ball, polished for longer life, is the heart of this valve. Material doesn't get trapped as easily because the valve is self-cleaning.



Sample Valve Part Number:

# 356BEC-CN15AB

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
356B	356 BALL VALVE

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.



See pages 102–103 for flange fittings.

### INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **F:** Two 50 series clamps and flange fittings are required. See pages 102–103 for flange fitting options.
- **Q:** QC (Quick Connect) hose barb type valve fittings are not normally used due to flow limitations. See page 104 for more information on QC fittings.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**WIRING CONNECTORS**

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

### REPAIR KIT

AB356-KIT



# DirectoValve® Normally-Open (Bypass) Valves

The 344BEC, 346BEC and 356BEC valves are available in a normally-open configuration. Unlike standard shutoff ball valves, which are normally closed, normally-open valves will be in the closed position when the signal line (white wire or DIN terminal 2) is energized (+12 VDC) and will be in the open position when the signal is de-energized.

## Features:

- Normally-open valves are wired in the identical manner to normally-closed, BEC style valves and operated by a single-pole single-throw (SPST) switch.
- Refer to the standard DirectoValve shutoff valve pages for typical features and specifications of a dump valve.



**56602-11**  
(346BEC, see page 74)



**56600-11**  
(344BEC, see page 72)



**56604-11**  
(356BEC, see page 76)





Sample Valve Part Number:

(B)56600-11-2FS-CN15AB

**OUTLET THREADS  
(FOR 344 & 346)**

PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

**MODEL SPECIFICATIONS  
(FOR 344, 346 & 356)**

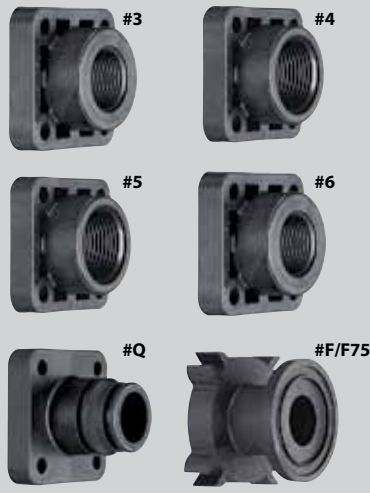
PART CODE	DESCRIPTION
56600	344BEC BALL VALVE
56602	346BEC BALL VALVE
56604	356BEC BALL VALVE

**VALVE TYPES  
(FOR 344 & 346)**

PART CODE	DESCRIPTION
2	2-WAY VALVE
3	3-WAY VALVE

**END CAPS OR OUTLET FITTINGS  
(FOR 344 & 346)**

PART CODE	DESCRIPTION
3	3/4" PIPE THREAD (344 ONLY)
4	1" PIPE THREAD (344 ONLY)
5	1 1/4" PIPE THREAD (346 ONLY)
6	1 1/2" PIPE THREAD (346 ONLY)
Q	QUICK CONNECT (344 ONLY)
F	50 SERIES FLANGE
F75	75 SERIES FLANGE (346 ONLY)



See pages 102-104 for QC and flange fittings.

**WIRING CONNECTORS  
(FOR 344, 346 & 356)**

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

**MOTOR CABLES  
(FOR 344, 346 & 356)**

PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4, 5, 6:** When ordering 3/4" (3), 1" (4), 1 1/4" (5) or 1 1/2" (6) threaded NPT or BSPT inlet/ outlet type valve connections, the inlets and outlets will be included during assembly.
- **F:** When ordering F or F75 (flange) type valve connections, the inlet/outlet fittings are ordered separately. Clamps and flange fittings are required. See pages 102-103 for flange fitting options.
- **Q:** When ordering QC (Quick Connect) hose barb type valve fittings, the inlet/outlet connections are ordered separately. Two 45529 QC fittings are required for 2-way valves and three each for 3-way valves. See page 104 for QC options.

**Note:** Many valve configurations are possible by mixing and matching flange fittings.

**BALL MATERIAL SPECIFICATIONS  
(FOR 344 & 346)**

PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

**REPAIR KIT**

- AB344AE-KIT
- AB346B-KIT



# DirectoValve® 430 Series 2-Way Manifold

The 430 series 2-way shutoff manifold offers the proven reliability of a ball valve in a very compact design. The 430 provides simple, dependable on/off control and can be configured to suit the needs of a wide variety of sprayers.

## Features:

- ¼-turn ball valve design for positive shutoff.
- 0.6 second shutoff time fully open to fully closed.
- Less than 0.5 amp steady state current draw at 12 VDC.
- Motor assembly features built-in mini-DIN electrical connector and is IP67 rated.
- Motor available in EC (single pole, single throw) or E (double pole, double throw) configurations for use with a variety of controls.
- All metal gear train with stainless steel ball and stem provide excellent wear life.
- Large Quick Connect inlet can be configured in a variety of ways—see page 104 for options.
- Quick Connect outlet fitting for rapid attachment and removal of boom lines—see page 104 for options.
- Maximum pressure rating of 215 PSI (15 bar).
- The flow rate is 11.7 GPM (44 l/min) at a 5 PSI (0.34bar) pressure drop, 16.5 GPM (63 l/min) at a 10 PSI (0.69 bar) drop.
- Wetted parts are polypropylene, stainless steel, Viton® and PTFE.
- Integral mounting brackets allow for easy installation.
- Also available in 3-way and Flow Back versions.



430 2-Way Single Valve



435 2-Way Manifold

# DirectoValve® 430 Series 3-Way Manifold



The 430 series 3-way shutoff manifold features a 3-way, metered bypass ball valve design. The 3-way configuration, commonly used with positive displacement pumps, allows a constant system pressure to be maintained regardless of the valve being in the on or off position.

## Features:

- ¼-turn ball valve design for positive shutoff.
- 0.6 second shutoff time fully open to fully closed.
- User configurable bypass settings with markings on dial for quick and easy adjustment.
- Less than 0.5 amp steady state current draw at 12 VDC.
- Motor assembly features built-in mini-DIN electrical connector and is IP67 rated.
- Motor available in EC (single pole, single throw) or E (double pole, double throw) configurations for use with a variety of controls.
- All metal gear train with stainless steel ball and stem provide excellent wear life.
- Large Quick Connect inlet can be configured in a variety of ways—see page 104 for options.
- Quick Connect fittings used on outlets and 3-way return line allow for rapid attachment and removal of boom lines—see page 104 for options.
- Maximum pressure rating of 215 PSI (15 bar).
- The flow rate is 11.7 GPM (44 l/min) at a 5 PSI (0.34bar) pressure drop, 16.5 GPM (63 l/min) at a 10 PSI (0.69 bar) drop.
- Wetted parts are polypropylene, stainless steel, Viton® and PTFE.
- Integral mounting brackets allow for easy installation.
- Also available in 2-way and Flow Back versions.



430 3-Way Single Valve



435 3-Way Manifold



# DirectoValve® 430 Series Flow Back Manifold

The 430 series Flow Back manifold utilizes a unique ball design that relieves trapped pressure in the boom. This provides instant shutoff at nozzles and eliminates application problems resulting from nozzles continuing to spray after the boom section has been switched off. Flow back technology is the perfect complement to automatic boom section control and growers can often realize significant chemical savings.

## Features:

- ¼-turn ball valve design for positive shutoff.
- 0.6 second shutoff time fully open to fully closed.
- Liquid from flow back line must be returned, unrestricted, to top of tank.
- Less than 0.5 amp steady state current draw at 12 VDC.
- Motor assembly features built-in mini-DIN electrical connector and is IP67 rated.
- Motor available in EC (single pole, single throw) or E (double pole, double throw) configurations for use with a variety of controls.
- All metal gear train with stainless steel ball and stem provide excellent wear life.
- Large Quick Connect inlet can be configured in a variety of ways—see page 104 for options.
- Quick Connect fittings used on outlet and flow back port for rapid attachment and removal of boom lines—see page 104 for options.
- Maximum pressure rating of 215 PSI (15 bar).
- The flow rate is 9.2 GPM (35 l/min) at a 5 PSI (0.34 bar) pressure drop, 13.7 GPM (53 l/min) at a 10 PSI (0.69 bar) pressure drop.
- Wetted parts are polypropylene, stainless steel, Viton® and PTFE.
- Integral mounting brackets allow for easy installation
- Also available in 2-way and 3-way versions.



430 Flow Back Single Valve



435 Flow Back Manifold



**Sample Valve Part Number:**

# 437EC-3FBF75-D

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
43	MANIFOLD

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

MOTOR CABLES	
PART CODE	DESCRIPTION
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
3	3-VALVE MANIFOLD
5	5-VALVE MANIFOLD
7	7-VALVE MANIFOLD
9	9-VALVE MANIFOLD

VALVE TYPE	
PART CODE	DESCRIPTION
2	2-WAY VALVE
3FB	FLOW BACK
3	3-WAY VALVE

INLET TYPE	
PART CODE	DESCRIPTION
BLANK	LARGE QUICK CONNECT
F75	75-SERIES FLANGE

Other manifold sizes are available.

**Mini-DIN Cable Assembly Part Code Example:**

# 58480EC-15-VX

CABLE WIRE CODE	
PART CODE	DESCRIPTION
E	2 WIRE CABLE
EC	3 WIRE CABLE

LENGTH SPECIFICATION	
PART CODE	DESCRIPTION
05	0.5 METER (20")
15	1.5 METER (60")
30	3.0 METER (120")

WIRING CONNECTORS	
PART CODE	DESCRIPTION
VX	FIRST NUMBER REFERS TO CONNECTOR CODE. SECOND NUMBER REFERS TO WIRING CODE.

For "E" style motors use 2-wire cable.  
For "EC" style motors use 3-wire cable.

See page 105 for electrical connectors and codes.



# DirectoValve® Control Unit for TeeJet Controllers



98600-C-433E(C)

**Includes:**

- Section valves in 2-way, Flow Back, or 3-way style.
- Pressure relief valve (98510-PP).
- Electric regulating valve, bypass mode.
- Liquid strainer (AA126ML-M50-80-VI).
- Flowmeter (801A).

MODEL NUMBER	VALVE SECTIONS	VALVE TYPE	PRESSURE	FLOW PER SECTION
98600-C-433E(C)	3	2-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 44 l/min (0.34 bar Pressure Drop)
98601-C-435E(C)	5	Flow Back	215 PSI (15 bar)	9.2 GPM (5 PSI Pressure Drop) 35 l/min (0.34 bar Pressure Drop)
98602-C-434E(C)	4	3-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 4 l/min (0.34 bar Pressure Drop)

**Note:** Valves can be ordered in 1–9 sections configuration. For inlet and outlet connections refer to page 104.



98601-B-433E(C)

**Includes:**

- Section valves in 2-way, Flow Back, or 3-way style.
- Pressure relief valve (98510-PP).
- Electric regulating valve, bypass mode.
- Liquid strainer (AA126ML-M50-80-VI).

MODEL NUMBER	VALVE SECTIONS	VALVE TYPE	PRESSURE	FLOW PER SECTION
98600-B-433E(C)	3	2-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 44 l/min (0.34 bar Pressure Drop)
98601-B-434E(C)	5	Flow Back	215 PSI (15 bar)	9.2 GPM (5 PSI Pressure Drop) 35 l/min (0.34 bar Pressure Drop)
98602-B-435E(C)	4	3-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 4 l/min (0.34 bar Pressure Drop)

**Note:** Valves can be ordered in 1–9 sections configuration. For inlet and outlet connections refer to page 104.



### Includes:

- Section valves in 2-way, Flow Back, or 3-way style.
- Pressure relief valve (98510-PP).

MODEL NUMBER	VALVE SECTIONS	VALVE TYPE	PRESSURE	FLOW PER SECTION
98600-A-437E(C)	7	2-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 44 l/min (0.34 bar Pressure Drop)
98601-A-435E(C)	5	Flow Back	215 PSI (15 bar)	9.2 GPM (5 PSI Pressure Drop) 35 l/min (0.34 bar Pressure Drop)
98602-A-433E(C)	3	3-Way	215 PSI (15 bar)	11.7 gpm (5 PSI Pressure Drop) 4 l/min (0.34 bar Pressure Drop)

**Note:** Valves can be ordered in 1–9 sections configuration. For inlet and outlet connections refer to page 104.

## Individual 430 Manifold Accessories



**344BRL-TH Throttling Regulating Valve**



**98510 Pressure Relief Valve**



**801A Flow Meter**



**344BRL-B Bypass Regulating Valve**



**AA126ML-M50 Line Strainer**

**Not shown:** 346BE(C)-2M 2-Way Master Shutoff Valve



# DirectoValve® 440 Series Manifold Shutoff Valves

The TeeJet® 440BEC series DirectoValve manifold provides a convenient, compact solution for the installation of multiple 344BEC electric ball valves. This system eliminates the need for custom fabrication of pipe or hose manifolds, drastically reducing both installation time and the chance for fluid leaks.

440BEC shutoff ball valves are available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## Features:

- Based on proven design of 344 ball valves.  
22 RPM, 0.7 second shutoff fully open to close.
- Quick, simple plumbing of up to five electric ball valves.
- Flexible inlet and outlet connection options.
- Easy mounting with built-in brackets.
- Maximum pressure rating of 300 PSI (20 bar).
- Flow rate 26 GPM (98 l/min) with 5 PSI (0.34 bar) pressure drop, 37 GPM (140 l/min) with 10 PSI (0.69 bar) pressure drop (flow rate (flow rate may vary based on number of valves and inlet size).
- Incorporates an internal resettable fuse.
- 12 VDC operation.
- Stainless steel stem with optional polypropylene or stainless steel ball.



**441BEC-4T4T-C Valve**  
(rear view)



**443BEC-4T4T-C Valve**  
(rear view)





**Sample Valve Part Number:**

**(B)443BEC-4S4H4T-CN15AB**

**OUTLET THREADS**

PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

**440 MANIFOLD SIZES**

PART CODE	DESCRIPTION
0	SINGLE REPLACEMENT VALVE
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

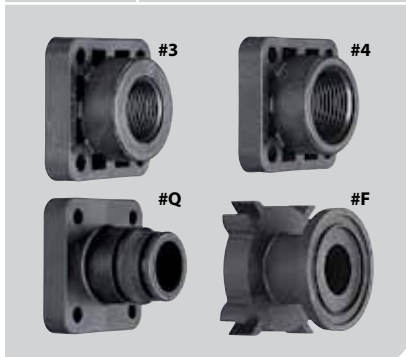
**MOTOR SPECIFICATIONS**

PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

**END CAPS OR OUTLET FITTINGS**

PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102-104 for more information on QC and flange fittings.

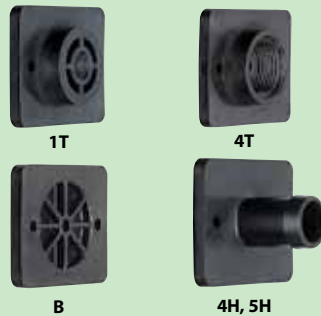
**BALL MATERIAL SPECIFICATIONS**

PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

**LEFT/RIGHT SIDE INLET FITTINGS**

PART CODE	DESCRIPTION
4T	1" PIPE THREAD
4H	1" HOSE BARB
5H	1 1/4" HOSE BARB
B	INLET BLANK
1T	1/4" THREAD GAUGE PORT

**Note:** Right and left sides are as seen with outlets facing towards you (front view).



**WIRING CONNECTORS**

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

**MOTOR CABLES**

PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**REPAIR KIT**

AB344AE-KIT

**INLET/OUTLET REQUIRED CONNECTIONS**

- **3, 4:** When ordering a standard 440 series manifold, inlets/outlets will be completed in the ordering process. No additional valve connections are required.
- **F:** When ordering F (flange) type valve outlet connections, only the outlets will be 50 series flange fittings and are ordered separately. One 50 series clamp and flange fitting is required for each valve in the manifold. See pages 102-103 for flange fitting options. The inlets will be standard 440 connections as described in the ordering process.
- **Q:** When ordering QC (Quick Connect) type valve outlet fittings, only the outlets will be QC fittings and are ordered separately. One 45229 QC hose barb connection is required for each valve in the manifold. See page 104 for QC hose barb options. The inlets will be standard 440 connections as described in the ordering process.

**Note:** Other valve configurations are possible by mixing and matching flange fittings.



# DirectoValve® 450 Series Shutoff Manifold

450BEC manifolds are available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- Available in 2-way and Flow Back versions. Pressure regulating valves can be incorporated.
- Flexible inlet/outlet connections allow for quick, simple plumbing for as many valves as needed for your sprayer.
- Stainless steel stem with optional polypropylene or stainless steel ball.
- Maximum pressure rating of 200 PSI (14 bar).
- The flow rate for the 450BEC 2-way valve is 32 GPM (121 l/min) with 5 PSI (0.34 bar) pressure drop, 45 GPM (170 l/min) with 10 PSI (0.69 bar) pressure drop.
- Wetted parts are Nylon, Teflon®, polypropylene and Viton®.



**451BEC-2F-C Valve**  
(rear view)



(front view)



**453BEC-24-C Manifold**  
(rear view)



(front view)



### Sample Valve Part Number:

(B) 453BEC-2FS-CN15AB

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
45	450 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

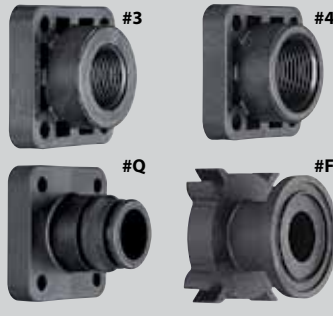
MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPE	
PART CODE	DESCRIPTION
2	2-WAY VALVE
2N	2-WAY VALVE, NARROW

**Note:** 3-way valve type not available on 450 manifold.

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102–104 for QC and flange fittings.

### INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4:** When ordering 3/4" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process. For the inlets, the 75 series flange fittings are ordered separately. Two 75 series clamps and fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- **F:** When ordering F (flange) type valve connections, the inlet/outlet fittings are ordered separately. For the outlet, one 50 series clamp and flange fitting is required per valve. For the inlets, two 75 series clamps and flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- **Q:** When ordering QC (Quick Connect) type valve outlet fittings, only the outlets will be QC fittings and are ordered separately. One 45229 QC hose barb connection is required for each valve in the manifold. See page 104 for QC hose barb options. The inlets will be standard 440 connections as described in the ordering process.

**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

**WIRING CONNECTORS**

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

BALL MATERIAL SPECIFICATIONS	
PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

### REPAIR KIT

AB344AE-KIT



# DirectoValve® 450 Series Flow Back Manifold

The 450FB Flow Back valves allow pressure from the boom lines to be relieved back to the tank when the valve is switched to the off position.

Available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- With a choice of threaded, QC (Quick Connect) hose barbs or 50 series flange fitting outlet connections, the 450FB manifolds allow quick, simple plumbing for as many valves as needed for your sprayer.
- Choice of polypropylene or stainless steel ball with stainless steel stem.
- Flow rate is 32 GPM (120 l/min) with 5 PSI (0.34 bar) pressure drop per valve, 45 GPM (170 l/min) with 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 200 PSI (14 bar).
- The 450 valve series is also available in 2-way versions, see page 88 for further information.



**453BEC-3FB4-C  
Manifold**  
(rear view)



(front view)



### Sample Valve Part Number:

(B)453BEC-3FBFS-CN15AB

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
45	450 MANIFOLD

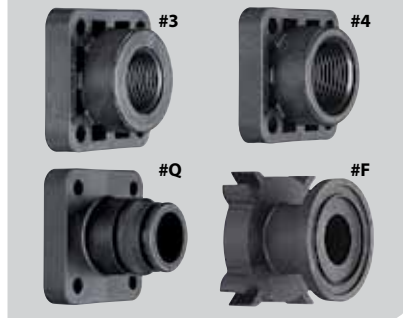
MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPE	
PART CODE	DESCRIPTION
3FB	FLOW BACK

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102-104 for QC and flange fittings.

WIRING CONNECTORS	
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.	
See page 105 for electrical connectors and codes.	

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

### INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4:** When ordering 3/4" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process.
  - For the inlets, two 75 series flange fittings and two 75 series clamps are required. For the Flow Back ports, two 45529 Quick Connect fittings are required.\*
- **F:** For the flange fitting versions, one 50 series single clamp and 50 series flange fitting is required per valve outlet.
  - For the inlets, two 75 series flange fittings and two 75 series clamps are required. For the Flow Back ports, two 45529 Quick Connect fittings are required.\*
- **Q:** For Quick Connect versions, one 45529 QC hose barb fitting is required per valve outlet.
  - For the inlets, two 75 series flange fittings and two 75 series clamps are required. For the Flow Back ports, two 45529 Quick Connect fittings are required.\*

\*See pages 102-104 for flange and Quick Connect fitting options.

**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

BALL MATERIAL SPECIFICATIONS	
PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

REPAIR KIT	
AB344AE-KIT	



# DirectoValve® 460 Series 2-Way Manifold

The 460BEC ball valve manifold utilizes a compact design that provides reliable performance at a wide range of operating pressures. Available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- With a choice of threaded, QC (Quick Connect) hose barsbs or 50 series flange fitting outlet connections, the 460BEC manifold allows quick, simple plumbing for as many valves as needed for your sprayer.
- Stainless steel stem and ball.
- Flow rate: 25 GPM (94 l/min) at 5 PSI (0.34 bar) pressure drop, 35 GPM (132 l/min) at 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 300 PSI (20 bar).
- The 460BEC valve series is also available in 3-way and Flow Back versions. See page 94 for 460B 3C and 3E, 3-way versions and page 96 for 460FB Flow Back version.



(front view)



**461BEC-2F-C Valve**  
(rear view)



**463BEC-2F-C Manifold**  
(rear view)



(front view)



**Sample Valve Part Number:**

(B)463BEC-2F-CN15AB

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
46	460 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

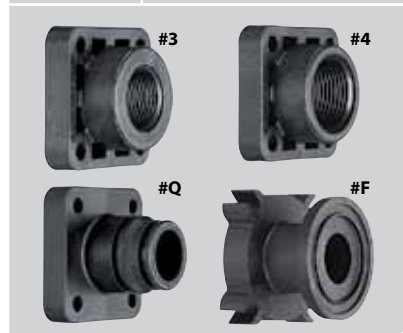
MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPE	
PART CODE	DESCRIPTION
2	2-WAY VALVE

See page 94 for 3-way valve.

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102–104 for QC and flange fittings.

WIRING CONNECTORS
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.
See page 105 for electrical connectors and codes.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4:** When ordering 3/4" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process. For the inlets to be threaded, the 50 series flange fittings are ordered separately. Two 50 series single clamps and fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
  - **F:** For the flange fitting versions, one 50 series single clamp and flange fitting is required per valve. For the inlets, two 50 series single clamps and flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
  - **Q:** When ordering QC (Quick Connect) hose barb type valve fittings. For the outlet, one 45529 QC hose barb connection is required per valve. 460 inlets are 50 series standard flanges. Any two 50 series fittings and clamps may be ordered. For the inlets to be QC, requires two each, CP46029-PP QC flange adapters, 50 series single clamps and 45529 QC hose barb connections per manifold assembly. See page 104 for QC fitting options.
- Note:** Many manifold configurations are possible by mixing and matching flange fittings.

REPAIR KIT
AB460-KIT



# DirectoValve® 460 Series 3-Way Manifold

The 460BEC 3-way ball valve manifold features an adjustable bypass setting that maintains a constant system pressure regardless of the valve being in the ON or OFF position. This is particularly effective on sprayers equipped with positive displacement pumps. Available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

### Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- Version C has VisiFlo® color-coded settings that can be used to match multiple tips.
- Version E has a single adjustment.
- With a choice of threaded, QC (Quick Connect) hose barbs or 50 series flange fitting outlet connections, the 460BEC manifold allows quick, simple plumbing for as many valves as needed for your sprayer.
- Stainless steel stem and ball.
- Flow rate: 25 GPM (94 l/min) at 5 PSI (0.34 bar) pressure drop, 35 GPM (132 l/min) at 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 300 PSI (20 bar).
- The 460BEC valve series is also available in 2-way and Flow Back versions. See page 92 for 460BEC 2-way version and page 96 for 460FB Flow Back version.

**461BEC-3EF-C Valve**  
(rear view)



**461BEC-3CF-C Valve**  
(rear view)



**463BEC-3CF-C Manifold**  
(rear view)



**463BEC-3EF-C Manifold**  
(rear view)



(front view)





## Sample Valve Part Number:

(B) 463BEC-3CF-CN15AB

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
46	460 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

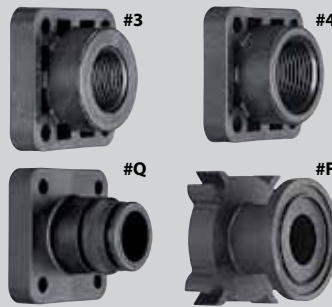
MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPE	
PART CODE	DESCRIPTION
3C	3-WAY VALVE
3E	

See page 92 for 2-way valve.

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102–104 for QC and flange fittings.

WIRING CONNECTORS
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.
See page 105 for electrical connectors and codes.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

## INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4:** When ordering 3/4" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process. For the inlets to be threaded, the 50 series flange fittings are ordered separately. Two 50 series double clamps and four flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- **F:** For the flange fitting versions, one 50 series single clamp and flange fitting is required per valve. For the inlets, two 50 series double clamps and four flange fittings are required per manifold assembly. See pages 102–103 for flange fitting options.
- **Q:** When ordering QC (Quick Connect) hose barb type valve fittings. For the outlet, one 45529 QC hose barb connection is required per valve. 460 inlets are 50 series standard flanges. Any four 50 series fittings and two double clamps may be ordered. For the inlets to be QC, requires four each, CP46029-PP QC flange adapters, 45529 QC hose barb connections and two 50 series clamps per manifold assembly. See pages 102–104 for QC and flange options.

**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

REPAIR KIT
AB460-KIT



# DirectoValve® 460 Series Flow Back Manifold

The 460FB Flow Back valves allow pressure from the boom lines to be relieved back to the tank when the valve is switched to the off position.

Available with E or EC series motors with cable or DIN electrical connections. See page 66 for more information on DirectoValve motors.

## Features:

- 22 RPM, 0.7 second shutoff fully open to close.
- With a choice of threaded, QC (Quick Connect) hose barbs or 50 series flange fitting outlet connections, the 460FB manifolds allow quick, simple plumbing for as many valves as needed for your sprayer.
- Stainless steel stem and ball.
- Flow rate is 24 GPM (91 l/min) with 5 PSI (0.34 bar) pressure drop, 34 GPM (129 l/min) with 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 115 PSI (8 bar).
- The 460FB valve series are also available in 2-way and 3-way versions, see pages 92 and 94.



**461BEC-3FB4-C Valve**  
(rear view)



(front view)





### Sample Valve Part Number:

(B) 463 BEC - 3 FBF - CN 15 AB

OUTLET THREADS	
PART CODE	DESCRIPTION
BLANK	ALL THREADS TO BE NPT (IF EQUIPPED)
(B)	ALL THREADS TO BE BSPT (IF EQUIPPED)

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
46	460 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

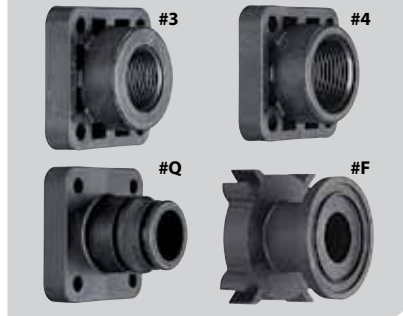
MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	22 RPM, 0.7 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

VALVE TYPE	
PART CODE	DESCRIPTION
3FB	FLOW BACK

See page 94 for 3-way valve.

END CAPS OR OUTLET FITTINGS	
PART CODE	DESCRIPTION
3	3/4" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 102-104 for QC and flange fittings.

WIRING CONNECTORS	
SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.	
See page 105 for electrical connectors and codes.	

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

### INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **3, 4:** When ordering 3/4" (3) or 1" (4) NPT or BSPT threaded connections, the valve outlet connection will be completed during the ordering process.
    - For inlets and Flow Back ports, four 50 series flange fittings and two 50 series double clamps are required per manifold.\*
  - **F:** For the flange fitting versions, one 50 series single clamp and 50 series flange fitting is required per valve outlet.
    - For inlets and Flow Back ports, four 50 series flange fittings and two 50 series double clamps are required per manifold.\*
  - **Q:** For Quick Connect versions, one 45529 QC hose barb fitting is required per valve outlet.
    - For inlets and Flow Back ports, four 50 series flange fittings and two 50 series double clamps are required per manifold.\*
- \*See pages 102-104 for flange and Quick Connect fitting options.  
**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

REPAIR KIT
AB460-KIT



# DirectoValve® 490 Series Shutoff Manifold

The 490BEC DirectoValve control valve delivers performance and dependability. The trunnion-style valve is a hard-working, commercial-duty control valve made to go the distance. It combines dozens of design features into a valve that will respond quickly and last longer than other valves.

Available with E or EC series motors with cable or DIN electrical connections.

## Features:

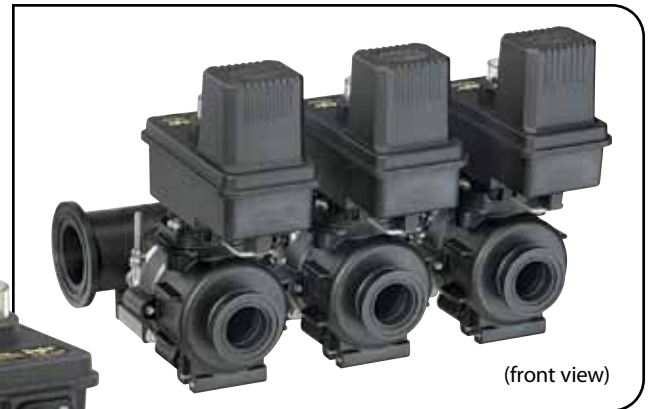
- 25 RPM, 0.6 second shutoff fully open to close. See page 66 for more information about DirectoValve motors.
- Flexible 50 series flange fitting inlet/outlet connections allow quick, simple plumbing for as many valves as needed for your sprayer.
- Available in 2-way version only. Pressure regulating valves can be incorporated.
- A uniquely designed 316 stainless steel ball reduces the amount of material that can be trapped in the valve. This reduces the likelihood of ball corrosion, reduces seal wear and increases the overall life of the valve.
- Flow rate: 100 GPM (379 l/min) at 5 PSI (0.34 bar) pressure drop, 141 GPM (534 l/min) at 10 PSI (0.69 bar) pressure drop.
- Maximum pressure rating of 150 PSI (10 bar).
- Wetted parts are polypropylene, stainless steel, carbon-filled Teflon®, Viton® and Ryton®.
- Wear-resistant carbon-filled Teflon seals improve durability and minimize the potential for leaks.
- Fasteners and mounting foot made of stainless steel to prevent corrosion, provide strength and provide easy mounting using a  $\frac{3}{16}$ " or 8 mm bolt.



**491BEC-C Valve**  
(rear view)



(front view)



(front view)



**493BEC-C Valve**  
(rear view)



**Sample Valve Part Number:**

493BEC-CN15AB

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
49	490 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD



See pages 102–103 for flange fittings.

**INLET/OUTLET REQUIRED CONNECTIONS**  
THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **F:** For the outlets, one 50 series clamp and fitting is required per valve. For the inlets, two 75 series clamps and flange fittings are required. See pages 102–103 for flange fitting options.
- **Q:** QC (Quick Connect) hose barb type valve fittings are not normally used due to flow limitations. See page 104 for more information on QC fittings.

**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

MOTOR CABLES	
PART CODE	DESCRIPTION
C	POSITIVELY SWITCHED w/ 0.5-METER CABLE
CN	NEGATIVELY SWITCHED w/ 0.5-METER CABLE
* C03	POSITIVELY SWITCHED w/ 0.3-METER CABLE
* CN03	NEGATIVELY SWITCHED w/ 0.3-METER CABLE
* C15	POSITIVELY SWITCHED w/ 1.5-METER CABLE
* CN15	NEGATIVELY SWITCHED w/ 1.5-METER CABLE
* C60	POSITIVELY SWITCHED w/ 6.0-METER CABLE
* CN60	NEGATIVELY SWITCHED w/ 6.0-METER CABLE
D	POSITIVELY SWITCHED w/ DIN CONNECTOR
DN	NEGATIVELY SWITCHED w/ DIN CONNECTOR

Items marked with "\*" are non-stock items. Please contact your regional sales office for ordering and availability information.

**Note:** DIN cables must be ordered separately. See page 66 for DIN cables.

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 66 for more information on E and EC motors.

**WIRING CONNECTORS**

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

**REPAIR KIT**

AB356-KIT



# DirectoValve® 540 Series Shutoff Manifold

The 540EC control valve builds upon the proven reliability of TeeJet electric valves in an exciting new package. The gear driven, plunger-style design provides exceptional closing force for positive shutoff and sealing. When working with abrasive solutions, the plunger and seat can also provide improved wear-life as compared to other valve designs. Additionally, the side inlet and bottom outlet configuration provides for a clean and compact installation.

## Features:

- Plunger valve design for positive and reliable shutoff.
- 0.7 second shutoff time fully open to fully closed.
- Available in 2-way version with side inlets and bottom outlet.
- 75 series flanged inlets allows for easy assembly of manifolds and accept a wide variety of flange fittings.
- Quick Connect outlet fitting for rapid attachment and removal of boom lines.
- Maximum pressure rating of 175 PSI (12 bar).
- Flow Rate: 27 GPM (102 l/min) at 5 PSI (0.34 bar) pressure drop, 38 GPM (144 l/min) at 10 PSI (0.69 bar) pressure drop.
- Wetted parts are polypropylene, nylon, stainless steel and Viton®.
- Integral mounting brackets allows for easy installation.
- Integrated 3-Pin Metri-Pack 150-series shroud connector allows for easy electrical hookup. Optional 98546 adapter cable available.



## Wiring Chart

PIN	WIRE COLOR*	BEC MOTOR	BE MOTOR**
A	Red	Constant +12VDC	+12VDC to open
B	White	Switched +12VDC (signal)	Not Used
C	Black	Constant Ground	-12VDC to open

\* Wire color used in optional 98546 cable.

\*\* For BE motors reverse polarity to close. Requires DPDT switch.





### Sample Valve Part Number:

# 543EC-2

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
54	540 MANIFOLD

MANIFOLD SIZES	
PART CODE	DESCRIPTION
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

MOTOR SPECIFICATIONS		
PART CODE	SWITCH	DESCRIPTION
E	DPDT	0.7 SECOND SHUTOFF VALVE
EC	SPST	

VALVE TYPE	
PART CODE	DESCRIPTION
2	2-WAY VALVE

### INLET/OUTLET REQUIRED CONNECTIONS

THE INLET/OUTLET FITTINGS ARE ORDERED SEPARATELY

- **F:** For the inlets, two 75 series clamps and flange fittings are required. See page 102–103 for flange fitting options.
- **Q:** For Quick Connect outlet, one 45529 QC hose barb is required per valve. See page 104 for Quick Connect fitting options.

**Note:** Many manifold configurations are possible by mixing and matching flange fittings.

### REPAIR KIT

AB540-KIT

### Sample Cable Part Number:

# 98546-15-VX

MODEL SPECIFICATION	
PART CODE	DESCRIPTION
98546	3-WIRE CABLE WITH METRI-PACK TOWER CONNECTION

LENGTH SPECIFICATION	
PART CODE	DESCRIPTION
05	0.5 METER (20")
15	1.5 METER (60")
30	3.0 METER (120")

### WIRING CONNECTORS

SPECIFIC ELECTRICAL CONNECTOR STYLE AND PIN-OUTS. IF NO CONNECTOR IS NEEDED LEAVE BLANK.

See page 105 for electrical connectors and codes.

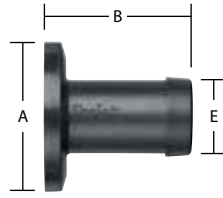


# DirectoValve® Flange Fittings

## Features:

- Polypropylene construction.
- Full port design.
- Viton® O-ring seal available with clamp (not included with flange).

## Straight Hose Barb Flanges



DESCRIPTION	SERIES	"A"	"B"	"E"	PART NUMBER
¾" Hose Barb	50	2" (51 mm)	1 1/16" (43 mm)	¾" (19 mm)	CP48150-PP
1" Hose Barb	50	2" (51 mm)	2" (51 mm)	1" (25 mm)	CP45504-PP
1 ¼" Hose Barb	50	2" (51 mm)	2" (51 mm)	1 ¼" (31 mm)	CP45505-PP
1 ½" Hose Barb	50	2" (51 mm)	2" (51 mm)	1 ½" (38 mm)	CP45506-PP
1 ¼" Hose Barb	75	3 1/16" (78 mm)	1 3/16" (46 mm)	1 ¼" (31 mm)	CP48160-PP
1 ½" Hose Barb	75	3 1/16" (78 mm)	2 3/16" (56 mm)	1 ½" (38 mm)	CP46067-PP
2" Hose Barb	75	3 1/16" (78 mm)	2 ¾" (70 mm)	2" (51 mm)	CP48161-PP

- Maximum pressure rating of 200 PSI (14 bar) for 75 series fittings.
- Maximum pressure rating of 300 PSI (20 bar) for 50 series fittings.



## Threaded Flanges (Male)

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
¾" Male Pipe Thread	50	2" (51 mm)	2" (51 mm)	CP(B)48172-PP
1" Male Pipe Thread	50	2" (51 mm)	2 3/16" (56 mm)	CP(B)48155-PP
1 ½" Male Pipe Thread	50	2" (51 mm)	2 ¾" (70 mm)	CP(B)48156-PP
1 ¼" Male Pipe Thread	75	3 1/16" (78 mm)	2 ½" (64 mm)	CP(B)48165-PP
1 ½" Male Pipe Thread	75	3 1/16" (78 mm)	2 ½" (64 mm)	CP(B)48166-PP
2" Male Pipe Thread	75	3 1/16" (78 mm)	2 5/16" (65 mm)	CP(B)48167-PP

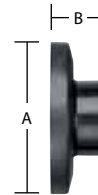
(B)=BSPT

## 90° Hose Barb Flanges



DESCRIPTION	SERIES	"A"	"B"	"C"	"E"	PART NUMBER
90° × ¾" Hose Barb	50	2" (51 mm)	1 ½" (38 mm)	2" (51 mm)	¾" (19 mm)	CP48151-PP
90° × 1" Hose Barb	50	2" (51 mm)	1 ½" (38 mm)	2" (51 mm)	1" (25 mm)	CP48152-PP
90° × 1 ¼" Hose Barb	50	2" (51 mm)	1 5/16" (49 mm)	2 5/16" (65 mm)	1 ¼" (31 mm)	CP72238-PP
90° × 1 ½" Hose Barb	50	2" (51 mm)	1 5/16" (49 mm)	2 5/16" (65 mm)	1 ½" (38 mm)	CP72239-PP
90° × 1 ¼" Hose Barb	75	3 1/16" (78 mm)	1 5/16" (49 mm)	2 5/16" (65 mm)	1 ¼" (31 mm)	CP48162-PP
90° × 1 ½" Hose Barb	75	3 1/16" (78 mm)	1 5/16" (49 mm)	2 5/16" (65 mm)	1 ½" (38 mm)	CP48163-PP
90° × 2" Hose Barb	75	3 1/16" (78 mm)	1 5/16" (49 mm)	3 5/16" (84 mm)	2" (51 mm)	CP48164-PP

## Gauge Port Flange



DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
¼" Gauge Port	50	2" (51 mm)	¾" (19 mm)	CP(B)45508-1/4-PP CP(P)45508-1/4-PP
⅜" Gauge Port	50	2" (51 mm)	¾" (19 mm)	CP(B)45539-3/8-PP CP(P)45539-3/8-PP
Blank Inlet Cover	50	2" (51 mm)	5/16" (8 mm)	CP45507-PP
¼" Gauge Port	75	3 1/16" (78 mm)	¾" (9 mm)	CP(B)46127-1/4-PP
⅜" Gauge Port	75	3 1/16" (78 mm)	¾" (9 mm)	CP(B)46127-3/8-PP
Blank Inlet Cover	75	3 1/16" (78 mm)	¾" (9 mm)	CP46069-PP

(B)=BSPT (P)=BSPP



## Straight Flange Couplings

DESCRIPTION	SERIES	"A"	"B"	"C"	PART NUMBER
Straight Coupling	50	2" (51 mm)	2 ¼" (57 mm)	2" (51 mm)	CP48157-PP
Straight Coupling	75	3 1/16" (78 mm)	4 3/8" (111 mm)	3 1/16" (78 mm)	CP48169-PP
Reducer Coupling	75/50	3 1/16" (78 mm)	2 3/16" (56 mm)	2" (51 mm)	CP45207-PP



## 90° Flange Couplings

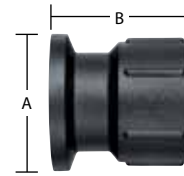
DESCRIPTION	SERIES	"A"	"B"	"C"	PART NUMBER
90° Elbow Coupling	50	2" (51 mm)	2 3/16" (56 mm)	2 3/16" (56 mm)	CP48158-PP
90° Elbow Coupling	75	3 1/16" (78 mm)	2 3/16" (56 mm)	3 1/16" (79 mm)	CP48168-PP



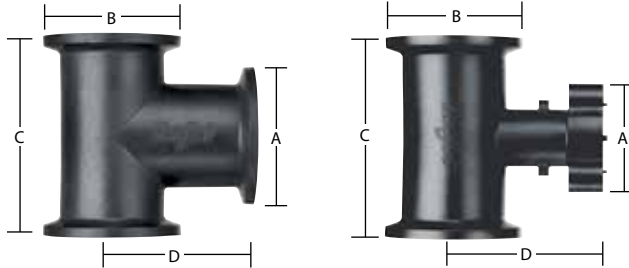


## Threaded Flanges (Female)

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
1" Female Pipe Thread	50	2" (51 mm)	2" (51 mm)	CP(B)48154-PP
1¼" Female Pipe Thread	50	2" (51 mm)	2" (51 mm)	CP(B)45512-PP
1½" Female Pipe Thread	75	3½" (78 mm)	2" (51 mm)	CP(B)46066-PP



(B)=BSPT



## Tee Flanges

DESCRIPTION	SERIES	"A"	"B"	"C"	"D"	PART NUMBER
Tee	50	2" (51 mm)	2" (51 mm)	4¾" (111 mm)	27/8" (73 mm)	CP50193-PP
Narrow Tee		2" (51 mm)	2" (51 mm)	3¾" (81 mm)	2" (51 mm)	CP55242-PP
Reducer Tee	50/75	2" (51 mm)	3½" (78 mm)	4¾" (111 mm)	27/8" (73 mm)	CP46717-PP
Tee	75	3½" (78 mm)	3½" (78 mm)	4¾" (111 mm)	31/8" (79 mm)	CP46716-PP
450 Tee Body	75	—	3½" (78 mm)	4¾" (111 mm)	3/4" (82 mm)	CP45251-PP
450 Tee Body (Narrow)	75	—	3½" (78 mm)	31/8" (79 mm)	3/4" (82 mm)	CP55224-PP

**Note:** There are no mounting provisions on the 50 series tee.

## 48143 Mounting Kit

Mounts to underside of tee and includes one extrusion and four screws. Mounting kit is not included with tees. Must be ordered separately. Also requires 5/16" or 8 mm bolt.



DESCRIPTION	PART NUMBER
Tee Mounting Kit (450 or 490 series manifold)	48143

## Flange Clamps

DESCRIPTION	SERIES	PART NUMBER
2-Way Valve	50	46070
3-Way Valve	50	46024
2-Way Valve Stainless Steel	50	55245-50
Viton® O-ring	50	CP7717-2/222-VI
2-Way Valve Stainless Steel	75	55245-75
Viton O-ring	75	CP7717-2-229-VI

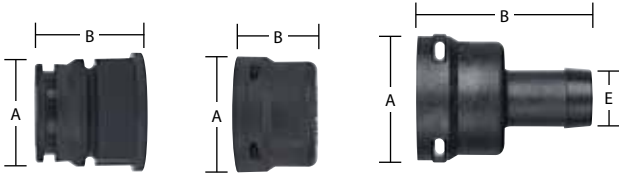


**Note:** O-ring included.



# DirectoValve® Quick Connect Fittings

- Standard Quick Connect fittings for use on valves and components equipped with Quick Connect outlets.
- Rated to 300 PSI (20 bar).



## Quick Connect Straight Hose Barb

DESCRIPTION	SERIES	"A"	"B"	"E"	PART NUMBER
1/2" Straight Hose Barb	QC(f)	1 1/16" (43 mm)	2 1/4" (57 mm)	1/2" (12 mm)	45529-1/2
5/8" Straight Hose Barb				5/8" (15 mm)	45529-5/8
3/4" Straight Hose Barb				3/4" (19 mm)	45529-3/4
1" Straight Hose Barb				1" (25 mm)	45529-1
Quick Connect Cap	QC(m)	1 1/16" (43 mm)	1 1/8" (28 mm)		45529-C
Quick Connect Plug	QC(m)	1 7/16" (36 mm)	1 3/16" (33 mm)		45529-P

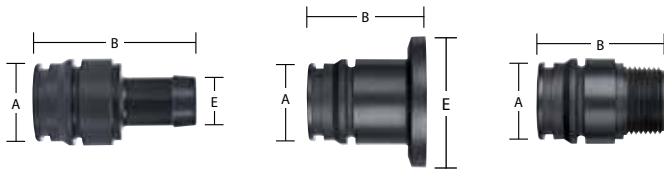
Note: O-ring and clip included.



## 90° Quick Connect Hose Barb

DESCRIPTION	SERIES	"A"	"B"	"C"	"E"	PART NUMBER
1/2" 90° Hose Barb	QC(f)	1 1/16" (43 mm)	2 19/64" (58 mm)	1 5/8" (41 mm)	1/2" (12 mm)	45529-90-1/2
3/4" 90° Hose Barb					3/4" (19 mm)	45529-90-3/4
1" 90° Hose Barb					1" (25 mm)	45529-90-1

Note: O-ring and clip included.



## Male Quick Connect Fittings

DESCRIPTION	SERIES	"A"	"B"	"E"	PART NUMBER
50-Series Flange	QC(m)	1 3/16" (33 mm)	1 3/16" (46 mm)	2" (51 mm)	CP46029-PP
3/4" Male Pipe Thread			2" (51 mm)		CP45527-NYB
1" Male Pipe Thread					CP45526-NYB
3/4" Hose Barb*			2 7/16" (62 mm)	3/4" (19 mm)	45529-3/4M
1" Hose Barb*			1" (25 mm)		45529-1M

Note: Items marked with "\*" include clip and O-ring.

- Large Quick connect fittings are used exclusively for 430 manifold inlets.
- Rated to 215 PSI (15 bar).

## Large Quick Connect Threaded Fitting

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
1/4" Female Thread (Gauge Port)	Large Quick Connect	2 1/2" (64 mm)	2 1/4" (57 mm)	(B)58456-1/4
3/4" Female Thread				(B)58456-3/4
1" Female Thread				(B)58456-1
1 1/4" Female Thread				(B)58456-1-1/4
1 1/2" Female Thread				(B)58456-1-1/2

Note: O-ring and clip included.

(B)=BSPT

## Large Quick Connect Cap Fitting

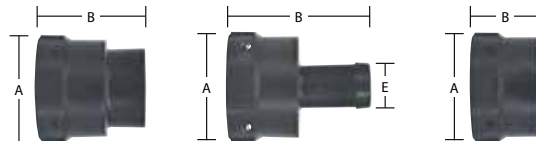
DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
Cap Fitting	Large Quick Connect	2 1/2" (64 mm)	1 5/8" (41 mm)	58456-C

Note: O-ring and clip included.



## Clip and O-Ring

DESCRIPTION	PART NUMBER
Retaining Clip 302SS	CP37166-302SS
O-Ring (Viton®)	CP7717-3-912-VI



## Large Quick Connect Straight Hose Barb Fitting

DESCRIPTION	SERIES	"A"	"B"	"E"	PART NUMBER	
1" Straight Hose Barb	Large Quick Connect	2 1/2" (64 mm)	3 1/4" (83 mm)	1" (25 mm)	58456-1000	
1 1/4" Straight Hose Barb				1 1/4" (32 mm)	58456-1250	
1 1/2" Straight Hose Barb				3 1/2" (89 mm)	1 1/2" (38 mm)	58456-1500
2" Straight Hose Barb				4" (102 mm)	2" (51 mm)	58456-2000

Note: O-ring and clip included.

## Clip and O-Ring

DESCRIPTION	PART NUMBER
Retaining Clip 302SS	CP58439-302SS
O-Ring (Viton®)	CP7717-M40X4-VI





**Note:** TeeJet Technologies recommends the use of sealed connectors to improve reliability and prolong component life.

**CHART 1: CONNECTOR CODES**

	AMP MALE FASTON CONNECTOR				AMP FEMALE FASTON CONNECTOR			
	<b>Note:</b> No pin-out code needed with these connectors.				<b>Note:</b> No pin-out code needed with these connectors.			
2-PIN OR 3-PIN	<p>2-PIN = CODE A      3-PIN = CODE J</p>				<p>2-PIN = CODE B      3-PIN = CODE K</p>			
	AMP FEMALE MATE-N-LOK® CONNECTOR (SEALED)				AMP MALE MATE-N-LOK® CONNECTOR (SEALED)			
	<p>2-PIN = CODE C      3-PIN = CODE L</p>				<p>2-PIN = CODE D      3-PIN = CODE M</p>			
	PACKARD WEATHER PACK SHROUD CONNECTOR (SEALED)				PACKARD WEATHER PACK TOWER CONNECTOR (SEALED)			
	<p>2-PIN = CODE E      3-PIN = CODE O</p>				<p>2-PIN = CODE F      3-PIN = CODE P</p>			
	DEUTSCH DT FEMALE CONNECTOR (SEALED)				DEUTSCH DT MALE CONNECTOR (SEALED)			
<p>2-PIN = CODE G      3-PIN = CODE Q</p>				<p>2-PIN = CODE H      3-PIN = CODE R</p>				
PACKARD METRIPACK FEMALE CONNECTOR (SEALED)				JST VH FEMALE CONNECTOR (SEALED)				
<p>3-PIN = CODE S</p>				<p>2-PIN = CODE I      3-PIN = CODE T</p>				
4-PIN	PACKARD WEATHER PACK SHROUD CONNECTOR (SEALED)				PACKARD WEATHER PACK TOWER CONNECTOR (SEALED)			
	<p>4-PIN = CODE U</p>				<p>4-PIN = CODE V</p>			
DEUTSCH DT FEMALE CONNECTOR								
<p>4-PIN = CODE W</p>								

**CHART 2: PIN-OUT CODES**

CODE LETTER	CONNECTOR POSITION				CODE LETTER	CONNECTOR POSITION			
	A OR 1	B OR 2	C OR 3	D OR 4		A OR 1	B OR 2	C OR 3	D OR 4
A	R	W	P	B	M	P	R	W	B
B	R	W	B	P	N	P	R	B	W
C	R	B	W	P	O	P	W	R	B
D	R	B	P	W	P	P	W	B	R
E	R	P	W	B	Q	P	B	R	W
F	R	P	B	W	R	P	B	W	R
G	W	R	B	P	S	B	R	W	P
H	W	R	P	B	T	B	R	P	W
I	W	P	R	B	U	B	W	R	P
J	W	P	B	R	V	B	W	P	R
K	W	B	R	P	W	B	P	R	W
L	W	B	P	R	X	B	P	W	R

**How to order:**

This system is to be used for 344B and 356B ball valves and 440B, 450B, 460B and 490B ball valve manifolds equipped with electrical connectors. Connector and pin-outs are to be specified in valve or manifold part number when ordering.

**Note:** On 2-pin connectors, only pin-out code C or S is used.

First: Specify code for connector desired (See Chart 1).

Second: Specify appropriate wire pin-out arrangement (See Chart 2).

Example:

356BEC-CLB

Pin-out Code

Connector Code

**Wire Codes:**

- R = Red (+12V)
- W = White (Switched)
- P = Plugged
- B = Black (Ground)



# DirectoValve® 2-Way Electrically Operated Solenoid Valves

## AA144P-, AA144A-, AA145H-, DirectoValve Control Valves

- Direct acting; large internal flow chamber without pilot hole reduces chance of clogging.
- Stainless steel wetted parts provide additional corrosion resistance.

- Operate on 12 VDC system.
- Maximum pressure of 100 PSI (7 bar).
- Encapsulated solenoid coil can be changed without removing valve from system.

- EPDM diaphragms and seat washers, Viton® optional.
- Continuous flow through bypass connection, with flow to spray line controlled by valve "on-off" action.



AA144P



AA144P-3  
(Three Unit)

### AA144P DirectoValve Control Valves

- Flow Rate: 10 GPM (38 l/min) at 5 PSI (0.34 bar) pressure drop, 14 GPM (53 l/min) at 10 PSI (0.69 bar) pressure drop.
- 2.5 amp current draw.
- Polypropylene body for chemical resistance.

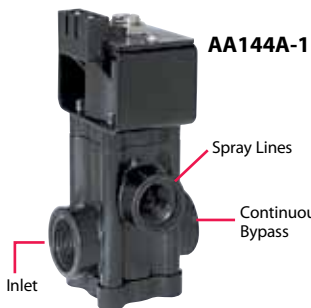
- Fabric reinforced Viton diaphragms and seat washers.
- No stroke adjustment required.
- Corrosion resistant, 430SS solenoid grade armature and armature stop.
- Encapsulated coil and magnetic circuit.

#### How to order:

To order, specify AA144P- then "1", "2" or "3" to indicate number of units.  
Example: AA(B)144P-3

MODEL NUMBER	INLET SIZE	OUTLET SIZE	CURRENT DRAW
AA(B)144P-*	3/4"	1/2"	2.5 amp

(B) = BSPT



AA144A-1

### AA144A Valve for Pressures up to 100 PSI (7 bar)

- Flow Rate: 10 GPM (38 l/min) at 5 PSI (0.34 bar) pressure drop, 14 GPM (53 l/min) at 10 PSI (0.69 bar) pressure drop.
- Can be ganged with other 144A DirectoValve control valves.
- 2.5 amp current draw.
- Polypropylene body for chemical resistance.
- Fabric reinforced diaphragms.

- Also available as 2- or 3-unit assembly.

#### How to order:

To order, specify AA144A- then "1", "2" or "3" to indicate number of units.  
Example: AA(B)144A-3

AA144A-3  
(Three Unit)



MODEL NUMBER	INLET SIZE	OUTLET SIZE	CURRENT DRAW
AA(B)144A-*	3/4"	1/2"	2.5 amp

(B) = BSPT



AA145H

### AA145H Control Valves

- Flow Rate: 15 GPM (57 l/min) at 5 PSI (0.34 bar) pressure drop, 21 GPM (79 l/min) at 10 PSI (0.69 bar) pressure drop.
- Can be ganged with other 145H DirectoValve control valves.
- 2.9 amp current draw.
- Fiberglass reinforced Nylon body.

#### How to order:

Specify part number.  
Example: AA145H-1

MODEL NUMBER	INLET SIZE	OUTLET SIZE	CURRENT DRAW
AA145H-1	1"	1"	2.9 amp



AA144P-1-3

## AA144P-1-3 DirectoValve Control Valves

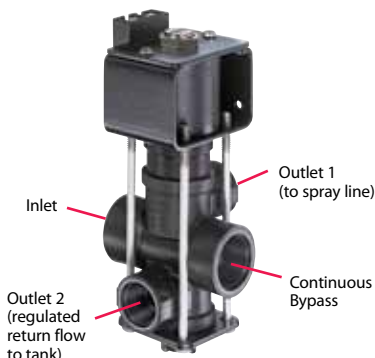
The 144P-1-3 three-way solenoid-operated DirectoValve control valve was specifically designed to provide bypass control in spraying applications. When used with part number 23520-PP throttling valve or a 4916 metering orifice plate in the bypass line, it can provide for a constant pressure spray system.

- For pressure to 65 PSI (4.5 bar).
- Flow Rate: 8 GPM (30 l/min) at 5 PSI (0.34 bar) pressure drop, 11 GPM (42 l/min) at 10 PSI (0.69 bar) pressure drop.
- Fabric-reinforced Viton® diaphragms.

- Nylon encapsulated 12 VDC coil with 1/4" Quick Connect terminals.
- Power requirement 2.5 amp.
- Glass-filled polypropylene (black) valve body.
- Internal metal parts are stainless steel.
- No stroke adjustment needed.
- Corrosion resistant, 430SS solenoid grade armature and armature stop.

**How to order:** Specify part number.  
Example: AA(B)144P-1-3

**Note:** 23520 Throttling Valve not included. See page 111 for more information.



AA144A-1-3

## AA144A-1-3 DirectoValve Control Valves

The three-way solenoid-operated DirectoValve control valve bypasses boom flow to maintain constant spraying pressure when one or more boom sections are shut off. To maintain pressure with a 23520 Throttling Valve, Outlet 2 must be throttled to match the total capacity of the nozzles on that boom section.

- For pressures to 65 PSI (4.5 bar).
- Flow Rate: 8 GPM (30 l/min) at 5 PSI (0.34 bar) pressure drop, 11 GPM (42 l/min) at 10 PSI (0.69 bar) pressure drop

- 2.5 amp current draw.
- Encapsulated 12 VDC coil can be easily changed without removing valve from line.
- Polypropylene body for chemical resistance.
- Stainless steel internal metal parts.
- Chemical resistant EPDM diaphragms and seat washers.

**How to order:**

As with the 144A DirectoValve, the 144A-1-3 can be supplied as a 2-unit and 3-unit assembly. When ordering, specify 144A-2-3 or 144A-3-3.

**Note:** 23520 Throttling Valve not included. See page 111 for more information.



AA144A-3-3  
(Three Unit)



AA144P-3-3  
(Three Unit)

MODEL NUMBER	NUMBER OF UNITS IN ASSEMBLY	SPRAY LINE CONNECTION	CONTINUOUS FLOW INLET BYPASS CONNECTION
AA(B)144P-1-3	1	1/2"	3/4"
AA(B)144P-2-3	2	1/2"	3/4"
AA(B)144P-3-3	3	1/2"	3/4"
AA(B)144A-1-3	1	1/2"	3/4"
AA(B)144A-2-3	2	1/2"	3/4"
AA(B)144A-3-3	3	1/2"	3/4"

(B) = BSPT

# DirectoValve® Solenoid Foam Marker Valves



AA144F-1-3

## TeeJet® AA144F-1-3 DirectoValve Solenoid Valve for Foam Markers

The 144F-1-3 three-way operated DirectoValve was designed for use with foam markers. With electrical power off, flow to Outlet 1 is stopped and liquid flows to Outlet 2. With electrical power on, flow to Outlet 2 is stopped and liquid flows to Outlet 1.

**Features:**

- Operating pressure range of 0–50 PSI (0–3.5 bar).

- Flow Rate: 8 GPM (30 l/min) at 5 PSI (0.34 bar) pressure drop, 11 GPM (42 l/min) at 10 PSI (0.69 bar) pressure drop.
- Nylon encapsulated 12 VDC coil with 1/4" Quick Connect terminals.
- Glass filled polypropylene (black) valve body.
- Internal metal parts are made of brass, fasteners are made of stainless steel, other metal parts are zinc-plated.
- Chemical resistant EPDM rubber seat washer and diaphragm.

**How to order:**  
AA144F-1-3



# DirectoValve® 340 Series 2-Way Manual Shutoff Ball Valves



AA(B)344M-NYB

## 344M-NYB 2-Way Nylon Manual Ball Valves

- Quarter turn of handle from shutoff to full flow.
- 3/4" or 1" NPT and BSPT (F) connection.
- Wetted parts: Nylon, Teflon®, polypropylene and Viton®.

**How to order:**  
Specify valve number.  
Example: AA(B)344M-2-1

### AA(B)344M-NYB

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)344M-2-3/4	300 PSI (20 bar)	1	3/4"
AA(B)344M-2-1		1	1"

**Flow Rate:** 5 PSI (0.34 bar) pressure drop for 32 GPM (121 l/min) flow.

(B) = BSPT



AA(B)343M-PP

## 340M-PP Series 2-Way Manual Ball Valves

- Quarter turn of handle from shutoff to full flow.
- 3/8", 1/2", 3/4", 1", 1 1/4" or 1 1/2" NPT and BSPT (F) connection.
- Wetted parts: glass-reinforced polypropylene, Teflon and Viton.

**How to order:**  
Specify valve number.  
Example: AA(B)343M-2-3/8-PP

### AA(B)343M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)343M-2-3/8-PP	150 PSI (10 bar)	1	3/8"
AA(B)343M-2-1/2-PP		1	1/2"

**Flow Rate:** 5 PSI (0.34 bar) pressure drop for 11 GPM (42 l/min) flow.

(B) = BSPT



AA(B)344M-PP

**How to order:**  
Specify valve number.  
Example: AA(B)344M-2-3/4-PP

### AA(B)344M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)344M-2-3/4-PP	125 PSI (9 bar)	1	3/4"
AA(B)344M-2-1-PP		1	1"

**Flow Rate:** 5 PSI (0.34 bar) pressure drop for 32 GPM (121 l/min) flow.

(B) = BSPT



AA(B)346M-PP

**How to order:**  
Specify valve number.  
Example: AA(B)346M-2-1-1/4-PP

### AA(B)346M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)346M-2-1-1/4-PP	125 PSI (9 bar)	1	1 1/4"
AA(B)346M-2-1-1/2-PP		1	1 1/2"

**Flow Rate:** 5 PSI (0.34 bar) pressure drop for 100 GPM (379 l/min) flow.

(B) = BSPT



AA(B)344M-NYB

### 344M-NYB 3-Way Nylon Manual Ball Valves

- 3-way version diverts flow to either outlet; no shutoff.
- 3/4" or 1" NPT and BSPT (F) connection.
- Wetted parts: Nylon, virgin Teflon®, polypropylene and Viton®.

**How to order:**  
Specify valve number.  
Example: AA(B)344M-3-1

#### AA(B)344M-NYB

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)344M-3-3/4	300 PSI (20 bar)	2	3/4"
AA(B)344M-3-1		2	1"

Flow Rate: 5 PSI (0.34 bar) pressure drop for 24 GPM (91 l/min) flow.

(B) = BSPT



AA(B)343M-PP

### 340M-PP Series 3-Way Manual Ball Valves

- 3-way version diverts flow to either outlet; no shutoff.
- 3/8", 1/2", 3/4", 1", 1 1/4" or 1 1/2" NPT and BSPT (F) connection.
- Wetted parts: glass-reinforced polypropylene, virgin Teflon and Viton.

**How to order:**  
Specify valve number.  
Example: AA(B)343M-3-3/8-PP

#### AA(B)343M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)343M-3-3/8-PP	150 PSI (10 bar)	2	3/8"
AA(B)343M-3-1/2-PP		2	1/2"

Flow Rate: 5 PSI (0.34 bar) pressure drop for 8 GPM (30 l/min) flow.

(B) = BSPT



AA(B)344M-PP

**How to order:**  
Specify valve number.  
Example: AA(B)344M-3-3/4-PP

#### AA(B)344M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)344M-3-3/4-PP	125 PSI (9 bar)	2	3/4" NPT or BSPT
AA(B)344M-3-1-PP		2	1" NPT or BSPT

Flow Rate: 5 PSI (0.34 bar) pressure drop for 24 GPM (91 l/min) flow.

(B) = BSPT



AA(B)346M-PP

**How to order:**  
Specify valve number.  
Example: AA(B)346M-3-1-1/4-PP

#### AA(B)346M-PP

VALVE NUMBER	MAXIMUM PRESSURE	NUMBER OF OUTLETS	CONNECTION SIZE
AA(B)346M-3-1-1/4-PP	125 PSI (9 bar)	2	1 1/4"
AA(B)346M-3-1-1/2-PP		2	1 1/2"

Flow Rate: 5 PSI (0.34 bar) pressure drop for 64 GPM (242 l/min) flow.

(B) = BSPT



## Piston-Type Pressure Relief/Regulating Valves

Bypasses excess liquid. Adjustable to maintain control of line pressure at any pressure within the valve's operating range. Selected pressure setting firmly held in place by locknut. Extra large valve passages to handle large flows.



**Model 23120**

### Model 23120

- 302 stainless steel spring and EPDM O-ring.
- Excellent chemical resistance.
- 1/4" port for pressure gauge pipe plug included.

### Model 23120A

- Same as 23120 but with 316SS spring and Viton® O-ring.

#### How to order:

Specify valve number.  
Example: (B)23120-1/2-PP

VALVE NUMBER	INLET & PIPE CONNECTIONS	MATERIAL	PRESSURE RANGE
(B)23120-*-PP	1/2" or 3/4"	Polypropylene	150 PSI (10 bar)
(B)23120A-*-PP	1/2" or 3/4"	Polypropylene	150 PSI (10 bar)
(B)23120-*-PP-60	1/2" or 3/4"	Polypropylene	60 PSI (4 bar)
(B)23120-*-PP-60-VI	1/2" or 3/4"	Polypropylene/Viton®	60 PSI (4 bar)

\*Specify pipe size.

(B) = BSPT



**Model 6815**

### Model 6815

- Other models for high pressures up to 1,200 PSI (82 bar) are also available.
- Brass also available with hardened stainless steel seat.

#### How to order:

Specify valve number.  
Example: (B)6815-1/2-50

VALVE NUMBER	INLET & PIPE CONNECTIONS	MATERIAL	PRESSURE RANGE
(B)6815-*-50	1/2" or 3/4"	Brass or Aluminum	50 PSI (3.5 bar)
(B)6815-*-300	1/2" or 3/4"	Brass or Aluminum	300 PSI (20 bar)
(B)6815-*-700	1/2" or 3/4"	Brass or Aluminum	700 PSI (48 bar)

\*Specify pipe size.

(B) = BSPT



**Model 110-1/4 and 110-3/8**



**Model 110-1, 110-1-1/4 and 110-1-1/2**

### Model 110

- Removable bonnet for servicing unit without removing valve from line.

#### How to order:

Specify valve number.  
Example: AA(B)110-1/4-300

VALVE NUMBER	INLET & PIPE CONNECTIONS	MATERIAL	PRESSURE RANGE
AA(B)110-*-300	1/4" or 3/8"	Brass	300 PSI (20 bar)
AA(B)110-*-700	1/4" or 3/8"	Brass	700 PSI (48 bar)
AA(B)110-1	1"	Brass, Aluminum or Ductile Iron	150 PSI (10 bar)
AA(B)110-1-1/4	1 1/4"	Brass, Aluminum or Ductile Iron	150 PSI (10 bar)
AA(B)110-1-1/2	1 1/2"	Brass, Aluminum or Ductile Iron	150 PSI (10 bar)

\*Specify pipe size.

(B) = BSPT

## Model 8460 Diaphragm-Type Pressure Relief/Regulating Valves

- Flow rate to 56 GPM (212 l/min) for 1/2" and 70 GPM (265 l/min) for 3/4".
- 8460-\*-50 uses stainless steel springs while 8460-\* uses steel springs—responsive to the pressure range of each valve.
- Extra large valve passages to handle full flow from supply line.

- Positive locknut to hold adjustment screw firmly in place. Not affected by jarring and vibration.

#### How to order:

Specify valve number.  
Example: 8460-1/2-50



**Model 8460**

VALVE NUMBER	INLET & PIPE CONNECTIONS	MATERIAL		PRESSURE RANGE
		INLET BODY	BONNET	
8460-*-50	1/2" or 3/4"	Nylon	Aluminum	50 PSI (3.5 bar)
8460-*	1/2" or 3/4"	Nylon	Aluminum	300 PSI (20 bar)

\*Specify pipe size.



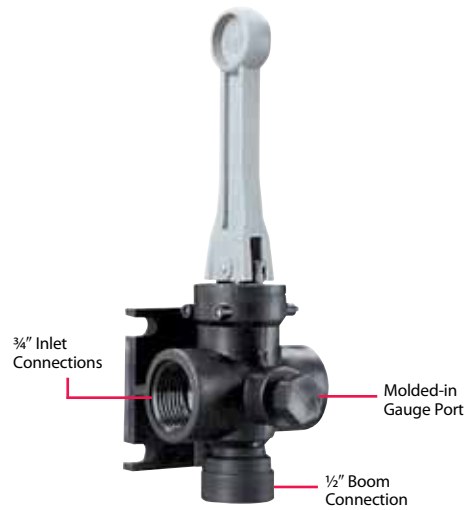
# DirectoValve® Manual Control Valve



## Model 6B

- Molded of corrosion resistant materials; all wetted parts are polypropylene, stainless steel and polyethylene.
- Maximum pressure of 150 PSI (10 bar).
- Flow Rate: 12 GPM (47 l/min) at 5 PSI (0.34 bar) pressure drop, 17 GPM (64 l/min) at 10 PSI (0.69 bar) pressure drop.
- Molded-in mounting flange and ¼" NPT gauge port.
- Valves can be ganged together using hex nipple for multiple boom control.
- Easily repaired without removing valve from spray line.

**How to order:**  
Example: AA(B)6B  
(B) = BSPT

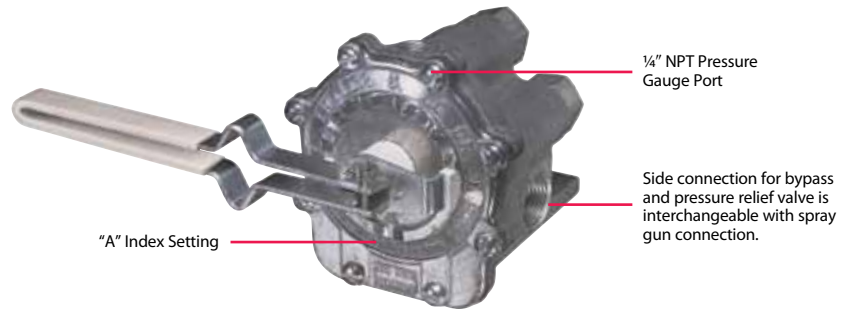


# TeeValve® Control Valves

## For Selective Control of Three-Section Boom Sprayers at Pressures up to 300 PSI (20 bar).

- Use to open any of three boom section lines in any desired combination.
- Raise lever to open, lower lever to close the valve without changing the indexed position.
- Aluminum construction with stainless steel and plastic internal parts for maximum corrosion resistance.

**How to order:**  
Example: AA17Y



## Model AA17

MODEL NUMBER	MATERIAL	MAXIMUM PRESSURE	INLET	(3) BOOM OUTLETS	ACCESSORY OUTLET
AA17Y	Aluminum, Polymer, SS	300 PSI (20 bar)	1" NPT	¾" (F)	¾" (F)
AA17L	Aluminum, Polymer, SS	300 PSI (20 bar)	¾" NPT	¾" (F)	¾" (F)

# TeeJet® Throttling Valves

For regulating flow in systems equipped with centrifugal pumps where sensitive regulation is required or to control flow in jet agitator return lines. Locknut holds pressure setting firmly in place.

## Type 23520



- Polypropylene construction for excellent chemical resistance.
- Pressures to 150 PSI (10 bar).
- ½" and ¾" NPT or BSPT connections.
- 10 PSI (0.6 bar) pressure drop at 6 GPM (37.8 l/min) flow rate for ½"; 18 GPM (69 l/min) for ¾" size.

**How to order:**  
Example: (B)23520-1/2-PP  
(B) = BSPT

## Type 12690



- Pressures to 125 PSI (9 bar).
- Constructed of Nylon, Celcon®, aluminum, steel and stainless steel.
- Choice of ½" or ¾" NPT connections.
- Maximum flow rate at 100 PSI (7 bar) is 56 GPM (212 l/min) for ½" size and 82 GPM (310 l/min) for ¾" size.

**How to order:**  
Example: 12690-1/2-NYB

## Type 12795



- Pressures to 150 PSI (10 bar).
- Available in brass, aluminum or ductile iron.
- Choice of 1", 1¼" or 1½" NPT connections.
- Flow rate at 40 PSI (3 bar) is 116 GPM (440 l/min) for 1" and 1¼" sizes and 172 GPM (651 l/min) for 1½" size.

**How to order:**  
Example: 12795-1



# TeeJet® Tip Strainers



MESH SIZE
16
24
25
50
80
100
200

## TeeJet Strainers

Strainers protect spray tip orifices from clogging and damage. Stainless steel screens are available in 24, 50, 80, 100 and 200 mesh. 19845 tip strainers are available in 25 and 50 mesh only.

TEEJET STRAINER NUMBER	STRAINER BODY AND CAP MATERIAL	MESH SCREEN MATERIAL
5053*	Brass	Stainless Steel
8079-PP*	Polypropylene	Stainless Steel
6051-SS*	Stainless Steel	Stainless Steel
19845-PP*	Polypropylene	Polypropylene

\*Specify mesh size when ordering.

## 55215 Self-Retaining Tip Strainer

### Features:

- For Use with Quick TeeJet® caps.
- Allows tip strainer to be easily removed from nozzle body for cleaning.
- 50 or 100 mesh color-coded strainer with optional EPDM or Viton® gasket.



STRAINER NUMBER	MESH
55215-50-*	50
55215-100-*	100

### How to order:

Example: 55215-50-EPR, EPDM gasket  
55215-50-VI, Viton gasket

\*Identify gasket material.

## TeeJet Slotted Strainers

One-piece strainers for use with liquids containing suspended solids.



TEEJET STRAINER NUMBER	AVAILABLE MATERIAL	EQUIVALENT TO MESH SIZE	COLOR CODE (NYLON VERSIONS ONLY)
4514-*-10	Brass or Nylon	50	Red
4514-*-20	Brass, Aluminum or Nylon	25	Yellow
4514-*-32	Brass, Aluminum or Nylon	16	Grey

\*Above numbers for brass. For Nylon add "NY". For aluminum add "AL".

## 4193A TeeJet Strainer and Check Valve

Minimizes nozzle dripping; fits all TeeJet nozzles. Ball check opens at 5 PSI (0.34 bar). Recommended for flow rates up to 0.8 GPM (3 l/min). 24, 50, 100 and 200 mesh screens. Not for use with AI or DG tips.



**Note:** Use of these ball check valves results in a pressure drop of 5 PSI (0.34 bar) to 10 PSI (0.7 bar) depending on spring rating.

CHECK VALVE NUMBER	BODY AND CAP SCREW MATERIAL	MESH SCREEN MATERIAL	BALL MATERIAL
4193A- *- *	Brass	Stainless Steel	Stainless Steel
4193A-SS- *- *	Stainless Steel	Stainless Steel	Stainless Steel
4193A-PP- *- *	Polypropylene	Stainless Steel	Viton
4193A-PP-*-SS-*	Polypropylene	Stainless Steel	Stainless Steel

\*When ordering, specify spring rating and screen mesh size.



# TeeJet® Line Strainers

The AA122 line strainer features a compact size that is well suited for small agricultural and turf sprayers. The AA122 is constructed of polypropylene head and bowl with stainless steel screen for excellent chemical resistance and is available with 1/2" or 3/4" (F) NPT pipe connections. The maximum pressure rating is 150 PSI (10 bar).



23174 45102



**AA122-PP**  
Compact Liquid Strainer

**AA122-ML**  
Compact Liquid Strainer

**37270-122-PP**  
Flush-Out Strainer

### 37270-122-PP

The screen may be periodically flushed by opening a valve (valve not included) in flush-out line.

STRAINER NUMBER	PIPE CONN.	APPROXIMATE FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP IN GPM (l/min)	SCREEN		PRESSURE RATING PSI (bar)
			MESH SIZE	PART NUMBER	
AA(B)122-1/2-PP-*	1/2"	12 (45)	16	CP23174-1-SS	150 PSI (10 bar)
AA(B)122-3/4-PP-*	3/4"	16 (60)	30	CP23174-2-SS	
AA(B)122ML-1/2-PP-*	1/2"	12 (45)	50	CP45102-3-SSPP	
AA(B)122ML-3/4-PP-*	3/4"	16 (60)	80	CP45102-4-SSPP	
(B)37270-122-1/2-PP-*	1/2"	12 (45)	100	CP45102-5-SSPP	
(B)37270-122-3/4-PP-*	3/4"	16 (60)	200	CP23174-7-SS	

\* = Mesh Size

Replacement Head Gasket: CP23173-EPR(-VI)

(B) = BSPT



AA126ML-F50



AA126ML-3 or -4

## AA126 Flush-out Line Strainer

### Features:

- 200 PSI (14 bar) maximum pressure rating.
- Strainer head and bowl are made of glass-filled polypropylene with EPDM gasket.
- Screens are made of 304SS with color-coded polypropylene frames and are removable for cleaning.
- Removable cap and O-ring for flush-out or self-cleaning operations.
- Integral mounting provision allows the strainer to be attached to machine using M8 or 5/16" diameter bolts.
- Available with 3/4", 1" NPT or BSPT (F) threads and 50 series flange fitting connections for easy assembly. For information on flange fittings see pages 102 and 103.
- Uses same screen as the AA124A line strainer.



16903

STRAINER NUMBER	PIPE/FLANGE CONNECTION (F)	FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP	SCREEN	MESH SIZE*
AA(B)126ML-F50*	50 Series Flange	35 GPM (132 l/min)	CP16903-1-SSPP	16
			CP16903-3-SSPP	30
AA(B)126ML-3*	3/4"	23 GPM (87 l/min)	CP16903-4-SSPP	50
			CP16903-5-SSPP	80
AA(B)126ML-4*	1"	35 GPM (132 l/min)	CP16903-6-SSPP	100
			CP16903-7-SSPP	200

\*Specify mesh size

Replacement Head Gasket: CP50494-EPR(-VI)



AA126ML-F75



AA126ML-5 or -6

## AA126 Flush-out Line Strainer

### Features:

- 200 PSI (14 bar) maximum pressure rating.
- Strainer head and bowl are made of glass-filled polypropylene with EPDM gasket.
- Screens are made of 304SS with color-coded polypropylene frames and are removable for cleaning.
- Removable cap and gasket for flush-out or self-cleaning operations.
- Integral mounting provision allows the strainer to be attached to machine using M10 or 3/8" diameter bolts.
- Available with 1 1/4", 1 1/2" NPT or BSPT (F) threads and 75 series flange fitting connections for easy assembly. For information on flange fittings see pages 102 and 103.
- Uses same screen as the AA124 line strainer.



15941

STRAINER NUMBER	PIPE/FLANGE CONNECTION (F)	FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP	SCREEN	MESH SIZE*
AA(B)126ML-F75*	75 Series Flange	77 GPM (291 l/min)	CP15941-1-SSPP	16
			CP15941-2-SSPP	30
AA(B)126ML-5*	1 1/4"	59 GPM (223 l/min)	CP15941-3-SSPP	50
			CP15941-4-SSPP	80
AA(B)126ML-6*	1 1/2"	77 GPM (291 l/min)	CP15941-5-SSPP	100
			CP15941-6-SSPP	120

\*Specify mesh size

Replacement Head Gasket: CP48656-EPR(-VI)



## Self-Cleaning Line Strainers

The TeeJet self-cleaning strainer extends your spraying time with a self-cleaning feature that minimizes clogging. Mounted on the discharge side of the pump, the strainer uses excess pump flow to bypass clogging particles back to the spray tank.

The tapered inner cylinder inside the entire length of the screen provides a gap between the screen face and the cylinder. This gap causes the inlet fluid to flow at a high velocity past the screen face providing for a continuous wash down of particles to the bypass line. In order for the wash down to occur, a minimum flow rate of 6 GPM (23 l/min) for 3/4" and 1" sizes and 8 GPM (30 l/min) for 1 1/4" and 1 1/2" sizes is required through the bypass line.

- Available with or without mounting lugs.
- AA126 strainers are made of glass filled polypropylene and are available in 3/4", 1", 1 1/4", 1 1/2" (F) NPT or BSPT thread as well as 50 and 75 series flange connection.
- AA124 strainers are made of an aluminum head with a nylon bowl and are available in 3/4", 1", 1 1/4", 1 1/2" (F) NPT or BSPT thread.
- Both use an all stainless steel strainer element.
- Strainers with mounting lugs are designated by "ML".

### AA(B)126MLSC

(Glass-filled Polypropylene)



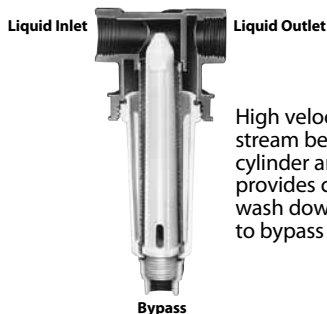
### AA(B)124ML-SC-AL

(Aluminum)



### AA(B)124-SC-AL

(Aluminum)



High velocity of liquid stream between cylinder and screen provides continuous wash down of particles to bypass line.

STRAINER NUMBER	PIPE CONN.	BYPASS PIPE CONN.	MATERIAL		MAX. PRESSURE PSI (bar)	MIN. BYPASS REQUIRED GPM (l/min)	SCREEN	
			HEAD	BOWL			MESH	NUMBER
AA(B)126MLSC-3-*	3/4" (F)	1/2" (F)	Polypropylene		200 (14)	6 (23)	16	CP12285- *SS
AA(B)124ML-3/4-SC-AL-*			Aluminum	Nylon	150 (10)			
AA(B)126MLSC-4-*	1" (F)	1/2" (F)	Polypropylene		200 (14)			
AA(B)124ML-1-SC-AL-*			Aluminum	Nylon	150 (10)			
AA(B)126MLSC-50F-*	Flange		Polypropylene		200 (14)	8 (30)	50	CP12290- *SS
AA(B)126MLSC-5-*	1 1/4" (F)	3/4" (F)	Polypropylene		200 (14)			
AA(B)124ML-1-1/4-SC-AL-*			Aluminum	Nylon	150 (10)			
AA(B)126MLSC-6-*	1 1/2" (F)	3/4" (F)	Polypropylene		200 (14)	8 (30)	80	
AA(B)124ML-1-1/2-SC-AL-*			Aluminum	Nylon	150 (10)			
AA(B)126MLSC-75F-*	Flange		Polypropylene		200 (14)		100	

STRAINER NUMBER	PIPE CONN.	BYPASS PIPE CONN.	MATERIAL		MAX. PRESSURE PSI (bar)	MIN. BYPASS REQUIRED GPM (l/min)	SCREEN	
			HEAD	BOWL			MESH	NUMBER
AA(B)124A-3/4-SC-AL-*	3/4" (F)	1/2" (F)	Aluminum	Nylon	150 (10)	6 (23)	16	CP12285- *SS
AA(B)124A-1-SC-AL-*							30	
	80							
AA(B)124-1-1/4-SC-AL-*	1 1/4" (F)	3/4" (F)					30	
AA(B)124-1-1/2-SC-AL-*	1 1/2" (F)	3/4" (F)	80	CP12290- *SS				
			100					

### How to order:

Specify strainer number.

Example: AA126ML-4SC-50

To order screen only, specify screen number.

Example: CP12285-1-SS

SCREEN	
MESH	NUMBER
16	CP12285-1-SS
30	CP12285-4-SS
50	CP12285-2-SS
80	CP12285-3-SS
100	CP12285-6-SS
16	CP12290-1-SS
30	CP12290-2-SS
50	CP12290-3-SS
80	CP12290-4-SS
100	CP12290-8-SS





Strainer heads are available in polypropylene, Nylon, aluminum and cast iron. Bowl materials include polypropylene or Nylon. Each strainer includes stainless steel screen (with polypropylene frames on ¾" to 1½" pipe sizes). Maximum temperatures up to 38°C/100°F.

Viton® O-ring seal supplied with ¾" and 1" Nylon models; EPDM supplied with ¾" and 1" polypropylene models; Buna-N gaskets supplied with 1¼" and 1½" sizes. Viton optional.

## AA(B)124A-AL



STRAINER NUMBER	PIPE CONN.	APPROXIMATE FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP IN GPM (l/min)	PRESSURE RATING PSI (bar)	SCREEN	
				MESH SIZE	PART NUMBER
AA(B)124A-3/4-AL-*	¾"	23 (87)	150 (10)	16	CP16903-1-SSPP
				20	CP16903-2-SSPP
				30	CP16903-3-SSPP
				50	CP16903-4-SSPP
AA(B)124A-1-AL-*	1"	34 (129)	150 (10)	80	CP16903-5-SSPP
				100	CP16903-6-SSPP
				200	CP16903-7-SSPP



16903

\* = Mesh Size

(B) = BSPT

## AA(B)124-AL



STRAINER NUMBER	PIPE CONN.	APPROXIMATE FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP IN GPM (l/min)	PRESSURE RATING PSI (bar)	SCREEN	
				MESH SIZE	PART NUMBER
AA(B)124-1-1/4-AL-*	1¼"	60 (230)	150 (10)	16	CP15941-1-SSPP
				30	CP15941-2-SSPP
				50	CP15941-3-SSPP
AA(B)124-1-1/2-AL-*	1½"	70 (260)	150 (10)	80	CP15941-4-SSPP
				100	CP15941-5-SSPP
AA(B)124-2-AL-*	2"	160 (610)	150 (10)	120	CP15941-6-SSPP
				16	CP14634-1-SS
AA(B)124-2-1/2-AL-*	2½"	170 (640)	150 (10)	30	CP14634-2-SS
				50	CP14634-3-SS
				80	CP14634-4-SS
				100	CP14634-8-SS



15941



14634

\* = Mesh Size

(B) = BSPT

## AA(B)124ML-AL

(with mounting holes)



STRAINER NUMBER	PIPE CONN.	APPROXIMATE FLOW RATE WITH 5 PSI (0.34 bar) PRESSURE DROP IN GPM (l/min)	PRESSURE RATING PSI (bar)	SCREEN	
				MESH SIZE	PART NUMBER
AA(B)124ML-3/4-AL-*	¾"	23 (87)	150 (10)	16	CP16903-1-SSPP
				20	CP16903-2-SSPP
				30	CP16903-3-SSPP
				50	CP16903-4-SSPP
AA(B)124ML-1-AL-*	1"	34 (129)	150 (10)	80	CP16903-5-SSPP
				100	CP16903-6-SSPP
				200	CP16903-7-SSPP
AA(B)124ML-1-1/4-AL-*	1¼"	60 (230)	150 (10)	16	CP15941-1-SSPP
				30	CP15941-2-SSPP
AA(B)124ML-1-1/2-AL-*	1½"	70 (260)	150 (10)	50	CP15941-3-SSPP
				80	CP15941-4-SSPP
AA(B)124ML-2-AL-*	2"	160 (610)	150 (10)	100	CP15941-5-SSPP
				120	CP15941-6-SSPP
AA(B)124ML-2-1/2-AL-*	2½"	170 (640)	150 (10)	16	CP14634-1-SS
				30	CP14634-2-SS
				50	CP14634-3-SS
				80	CP14634-4-SS
				100	CP14634-8-SS



16903



15941



14634

\* = Mesh Size

(B) = BSPT

### How to order:

Specify strainer number, mesh size and material.

Example: AA(B)124-1-1/4-NYB-16 Nylon

To order screen only, specify screen number.

Example: CP15941-1-SSPP



## For spot spraying, tree spraying, livestock spraying and power washing at pressures from 2 to 55 bar.

To operate spray gun, handle is rotated 360° from shutoff to maximum flow position. As handle is turned, spray changes from initial cone spray through intermediate cone spray to straight stream. Spray tips are interchangeable orifice discs made of corrosion- and erosion-resistant stainless steel.

### Choice of Materials and Capacities



#### GunJet Number AA2

Overall length 610 mm, weight 1.6 kg, brass. 3/4" garden hose thread (F) inlet connection. Also available in aluminum as GunJet AA2-AL, weight 0.57 kg.



#### GunJet Number AA2A

Overall length 381 mm, weight 1.1 kg, brass. 3/4" garden hose thread (F) inlet connection. Also available in aluminum as GunJet AA2A-AL, weight 0.45 kg. Same design as GunJet AA2.

GUNJET NUMBER	ORIFICE DISC NUMBER	PERFORMANCE	LIQUID PRESSURE IN bar			
			7 bar		55 bar	
			A	C	A	C
AA2-20	AY-SS 20	Capacity – l/min	2.0	3.5	5.8	9.6
		Max. Vert. Throw – m	—	7.5	—	10
		Max. Horiz. Throw – m	2	10.5	2.5	12.5
AA2-30	AY-SS 30	Capacity – l/min	3.0	5.4	8.5	15.4
		Max. Vert. Throw – m	—	8	—	10
		Max. Horiz. Throw – m	2	11.5	2.5	13.5
AA2-45	AY-SS 45	Capacity – l/min	4.6	8.9	13.0	25.0
		Max. Vert. Throw – m	—	9	—	11
		Max. Horiz. Throw – m	2.5	12.5	2.5	14.5
AA2-60	AY-SS 60	Capacity – l/min	6.2	13.9	17.3	38.5
		Max. Vert. Throw – m	—	9.5	—	12
		Max. Horiz. Throw – m	2.5	13.5	3	15.5
AA2-90	AY-SS 90	Capacity – l/min	8.9	18.9	25.8	53.9
		Max. Vert. Throw – m	—	10.5	—	13
		Max. Horiz. Throw – m	3	14.5	3.5	17.5
AA2-120	AY-SS 120	Capacity – l/min	12.3	24.6	34.6	65.4
		Max. Vert. Throw – m	—	11	—	14.5
		Max. Horiz. Throw – m	3.5	15	4	19
AA2-180	AY-SS 180	Capacity – l/min	18.1	42.3	50.0	119.0
		Max. Vert. Throw – m	—	11	—	14.5
		Max. Horiz. Throw – m	3.5	15	4.5	19

#### How to order:

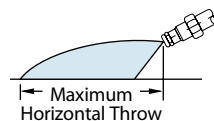
For complete gun, specify GunJet spray gun number and material.

Example: AA2-20, Brass or  
AA2-AL20, Aluminum

To order orifice disc only, specify orifice disc number.

Example: AY-SS 20

#### SETTING "A" WIDE ANGLE CONE SPRAY



#### SETTING "C" STRAIGHT STREAM SPRAY



#### GunJet Number AA143

Overall length 565 mm, weight 0.57 kg and only available in aluminum. Inlets are available with 3/4" or GH (Garden Hose) female threads.

GUNJET NUMBER	ORIFICE DISC NUMBER	PERFORMANCE	LIQUID PRESSURE IN bar			
			7 bar		55 bar	
			A	C	A	C
AA143-AL-*2	D2	Capacity – l/min	1.7	1.8	4.9	4.9
		Max. Vert. Throw – m	—	6.7	—	7.9
		Max. Horiz. Throw – m	3.0	10.1	3.4	10.7
AA143-AL-*4	D4	Capacity – l/min	3.5	3.6	9.8	10.2
		Max. Vert. Throw – m	—	8.2	—	9.8
		Max. Horiz. Throw – m	3.0	11.0	3.4	12.2
AA143-AL-*6	D6	Capacity – l/min	7.2	7.6	20.0	21.9
		Max. Vert. Throw – m	—	10.1	—	11.6
		Max. Horiz. Throw – m	3.0	13.7	3.4	15.2
AA143-AL-*8	D8	Capacity – l/min	11.8	13.0	33.3	36.3
		Max. Vert. Throw – m	—	10.8	—	12.8
		Max. Horiz. Throw – m	3.0	14.0	3.4	15.5
AA143-AL-*10	D10	Capacity – l/min	15.6	19.1	38.5	53.3
		Max. Vert. Throw – m	—	11.4	—	13.6
		Max. Horiz. Throw – m	3.2	14.9	3.7	16.5

\*Inlet size 3/4" or GH.

#### How to order:

Examples: AA143-AL-3/4-6  
AA143-AL-GH-6

To order orifice disc only, specify orifice disc number.

Example: D2





## AA43 GunJet

Designed and built for heavy-duty service. Stem extends through extension to valve seat located directly behind orifice disc for drip-free shutoff and instant operating response. Convenient trigger-lock for continuous spraying.

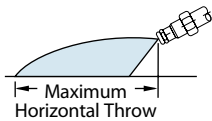
- Number AA43L for operating pressures up to 14 bar.
- Number AA43H for operating pressures up to 55 bar.
- Trigger handle control: ALL MODELS have ½" NPT or BSPT (F) inlet connections.
- Exposed packing nut for easy adjustment of packing.
- Available in aluminum only.



## Hardened Stainless Steel Type D Orifice Discs

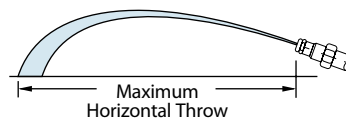
Choose one of five interchangeable orifice disc capacities. Other sizes may be available upon request. Discs are corrosion- and erosion-resistant.

**SETTING "A"**  
WIDE ANGLE CONE SPRAY



As trigger is drawn back, valve moves from shutoff position to initial wide angle spray, to continuously narrower cone sprays, to

**SETTING "C"**  
STRAIGHT STREAM SPRAY



final straight stream. Knurled ring behind trigger is adjustable to stop trigger at any desired position.

## Type 43L & 43H GunJet Spray Guns

MODEL NUMBER	OPERATING PRESSURE RANGE (bar)	MATERIAL	OVERALL LENGTH (mm)
AA(B)43L-AL	0-14	Aluminum	559
AA(B)43H-AL	14-55	Aluminum	

(B) = BSPT



## Type 43A GunJet Spray Guns

MODEL NUMBER	OPERATING PRESSURE RANGE (bar)	MATERIAL	OVERALL LENGTH (mm)
AA(B)43LA-AL	0-14	Aluminum	330
AA(B)43HA-AL	14-55	Aluminum	

(B) = BSPT

## Type 43LC-1/2 & 43HC-1/2 and GunJet Spray Guns

Types 43LC-1/2 and 43HC-1/2 have ½" NPT (F) outlet connections. Inlet connections are ½" NPT or BSPT (F).

MODEL NUMBER	OPERATING PRESSURE RANGE (bar)	MATERIAL	OVERALL LENGTH (mm)
AA(B)43LC-1/2	0-14	Brass	203
AA(B)43HC-1/2	14-55	Brass	

(B) = BSPT

GUNJET NUMBER	ORIFICE DISC NUMBER	PERFORMANCE	LIQUID PRESSURE IN bar									
			3 bar		7 bar		14 bar		28 bar		55 bar	
			A	C	A	C	A	C	A	C	A	C
AA(B)43L-AL2 AA(B)43H-AL2	D2	Capacity – l/min	1.1	1.2	1.7	1.8	2.4	2.5	3.4	3.6	4.9	4.9
		Max. Vert. Throw – m	—	6.7	—	6.7	—	7.0	—	7.3	—	7.9
		Max. Horiz. Throw – m	3.0	9.8	3.0	10.1	3.0	10.4	3.2	10.7	3.4	10.7
AA(B)43L-AL4 AA(B)43H-AL4	D4	Capacity – l/min	2.4	2.4	3.5	3.6	5.0	5.0	6.9	7.2	9.8	10.2
		Max. Vert. Throw – m	—	7.9	—	8.2	—	8.5	—	9.1	—	9.8
		Max. Horiz. Throw – m	3.0	11.0	3.0	11.0	3.2	11.3	3.4	11.9	3.4	12.2
AA(B)43L-AL6 AA(B)43H-AL6	D6	Capacity – l/min	4.7	5.1	7.2	7.6	10.3	11.1	14.5	15.6	20.0	21.9
		Max. Vert. Throw – m	—	9.6	—	10.1	—	10.5	—	11.1	—	11.6
		Max. Horiz. Throw – m	3.0	13.4	3.0	13.7	3.2	14.0	3.4	14.6	3.4	15.2
AA(B)43L-AL8 AA(B)43H-AL8	D8	Capacity – l/min	7.9	9.9	11.8	13.0	16.8	18.3	23.6	37.4	33.3	36.3
		Max. Vert. Throw – m	—	10.1	—	10.8	—	11.6	—	12.3	—	12.8
		Max. Horiz. Throw – m	3.0	13.7	3.0	14.0	3.2	14.3	3.4	14.9	3.4	15.5
AA(B)43L-AL10 AA(B)43H-AL10	D10	Capacity – l/min	10.3	12.6	15.6	19.1	22.1	27.1	31.3	38.1	38.5	53.3
		Max. Vert. Throw – m	—	10.7	—	11.4	—	12.2	—	13.0	—	13.6
		Max. Horiz. Throw – m	3.0	14.0	3.2	14.9	3.4	15.2	3.5	15.8	3.7	16.5

(B) = BSPT

### How to order:

Specify complete GunJet spray gun number and material.  
Example: AA(B)43L-AL4 Aluminum



# MeterJet® Spray Guns



Model 23624-30L

The MeterJet spray gun is designed to deliver a precisely metered volume of spray solution for low pressure spot applications of agricultural chemicals. The adjustable metering assembly allows the applicator to discharge precise volumes from 1 to 16 milliliters with a single pull of the trigger. Release of the trigger automatically recharges the unit for the next dosage. The MeterJet spray gun will accept all TeeJet® spray tips for many types of applications.

### Features:

- Available with AA30 & AA31 GunJet spray guns.
- Adjustable scales to accurately set volumes to nearest 0.1 ml.

- Charge indicator provides positive verification of full pressure in chamber.
- Maximum operating pressure of 75 PSI (5 bar).
- Minimum pressure of 25 PSI (1.7 bar) to charge unit.
- 23623L & 23624L versions available for low volume applications. Feature lighter spring and 20 PSI (1.7 bar) minimum charge pressure.
- Inlet connections available in ¼" NPT or BSPT (F).
- Wetted parts: Nylon, Teflon®, brass and stainless steel.

### How to order:

Specify part number.  
Example: (B)23623-31  
(B) = BSPT



# TeeJet® Lawn Spray Guns



Model 25660

### Features:

- Interchangeable nozzle tips are color-coded for easy identification of nozzle tip size.
- Nozzle tips provide a 45° full cone "showerhead" spray pattern.
- Convenient trigger lock for continuous spraying.

- Options available: hose shank swivel for inlet connection and extension wand and adapters for low-volume and spot spraying.
- Maximum operating pressure of 200 PSI (14 bar).
- Made of Nylon with Viton® O-rings and stainless steel springs.

MODEL NUMBER	NOZZLE TIP NUMBER	CAPACITY (l/min) AT VARIOUS PRESSURE*						
		0.15 bar	0.3 bar	0.4 bar	0.6 bar	0.7 bar	1 bar	1.5 bar
25660-1.5	CP25670-1.5-NY	5.4	7.5	8.4	10.2	10.9	12.8	15.7
25660-3.0	CP25670-3.0-NYB	7.8	10.6	11.9	14.4	15.5	18.2	22.0
25660-4.0	CP25670-4.0-NY	9.1	12.4	13.9	17.0	17.8	20.9	25.4

\*Pressure measured at spray nozzle.



### 25990 Swivel

Allows operator to concentrate on application without hose interference. ¾" (M) NPT connection with ½" hose shank. Maximum pressure 150 PSI (10 bar).

### 25657-NYB Adapter

Replaces shower nozzle to allow extension wand or standard TeeJet tip to be attached directly to lawn spray gun. ¾" (F) GHT inlet with ¼"-16 TeeJet thread outlet. Maximum pressure 150 PSI (10 bar). See page 122 for adjustable ConeJet® nozzles.

### 22665 Extension Wand

For low volume and spot spraying applications. Available in both 15" and 24" (38 cm and 61 cm) lengths, the extension fits on 25657-NYB adapter. Maximum pressure 150 PSI (10 bar).

### CP22673-PP & CP22664-PP Adapters

Used for attaching standard TeeJet tips or adjustable ConeJet nozzles. See page 122 for adjustable ConeJet nozzles.





## PW4000A

The model PW4000A GunJet is a durable high-pressure spray gun that offers comfort and control. Trigger locks into an off position to prevent accidental discharge. The PW4000A operates at up to 4,000 PSI (275 bar) and provides flow rates up to 10 GPM (38 l/min). Liquid temperatures up to 300°F (150°C). Available with 1/4" or 3/8" NPT or BSPT inlet and outlet connections.

## PW4000AS

The model PW4000AS has the same features as PW4000A except available with a 3/8" NPT or BSPT swivel inlet.

### How to order:

Specify model number.

Example: (B)PW4000A –  
 3/8" inlet and 1/4" outlet  
 (B)PW4000A-1/4x1/4 –  
 1/4" inlet and outlet  
 (B)PW4000A-3/8x3/8 –  
 3/8" inlet and outlet

(B) = BSPT



## AA30A

Maximum pressure rating of 1,500 PSI (105 bar) with 5 GPM (19 l/min), 200°F (93°C) and 1/4" (F) NPT or BSPT inlet thread. Materials including Nylon handles and trigger guards, forged brass valve bodies, Buna-N or Viton® stem seals, Teflon® valve seats and stainless steel working parts mean long, productive equipment life.

### How to order:

Specify model number.

Example: AA(B)30A-1/4

(B) = BSPT

## AA30L-PP

This new version of the standard AA30L GunJet spray gun is constructed of polypropylene for excellent corrosion resistance. The maximum pressure rating is 150 PSI (10 bar) with flow rates up to 5 GPM (19 l/min). Liquid inlet connection available in 1/4" (F) NPT or BSPT. Wetted parts are polypropylene, stainless steel and Viton.

### How to order:

Specify model number.

Example: AA(B)30L-PP

(B) = BSPT



See page 123 for extensions.

## AA23L-7676

The AA23L-7676 GunJet spray gun (shown above) is also available without extension as GunJet spray gun AA23L. Flow rates up to 5 GPM (19 l/min). Maximum operating pressure of 250 PSI (17 bar). Inlet 1/4" NPS (M) thread. Strong aluminum alloy body. When used with extension, the valve stem extends through the entire extension length for drip-free shutoff immediately behind the spray tip. Accommodates all interchangeable TeeJet® spray tips.

## AA30L-22425

The AA30L-22425 GunJet spray gun (shown above) is also available without extension as GunJet spray gun AA30L. Flow rates up to 5 GPM (19 l/min). Maximum operating pressure of 250 PSI (17 bar). Outlet connection is 1/8"-16 TeeJet® thread. Body and trigger molded of tough Nylon. When used with extension, the valve stem extends through the entire extension length for drip-free shutoff immediately behind the spray tip. Accommodates all interchangeable TeeJet spray tips.



GUNJET NUMBER	EXTENSION LENGTH
AA23L	Without Extension
AA23L-7676-8	8" (203 mm)
AA23L-7676-18	18" (457 mm)
AA23L-7676-24	24" (610 mm)
AA23L-7676-36	36" (914 mm)
AA23L-7676-48	48" (1,219 mm)

GUNJET NUMBER	EXTENSION LENGTH
AA(B)30L-1/4	Without Extension
AA(B)30L-22425-8	8" (203 mm)
AA(B)30L-22425-18	18" (457 mm)
AA(B)30L-22425-24	24" (610 mm)
AA(B)30L-22425-36	36" (914 mm)
AA(B)30L-22425-48	48" (1,219 mm)

### How to order:

Specify model number.

Example: AA23L

### How to order:

Specify model number.

Example: AA(B)30L-1/4

(B) = BSPT



# TriggerJet<sup>®</sup> Spray Guns

38720-PPB-X\*





## Model 50800

The 50800 TriggerJet spray gun is a lightweight spray gun designed for use with backpack, canister or other low-pressure sprayers. The TriggerJet is made of molded polypropylene for excellent chemical resistance and durability.

### Features:

- Available with 15" (381 mm) polypropylene or 21" (533 mm) aluminum extension wand.
- Available with 38720-PPB-X18 or X26 adjustable ConeJet<sup>®</sup> tips with a 30° offset.
- Trigger lock permits locking gun in an open position for continuous flow.
- Maximum operating pressure of 100 PSI (7 bar).
- 1/4" or 3/8" hose shank connection.
- Approximate max. hose O.D.— 1/2" (13 mm).
- Polypropylene strainer located inside handle to prevent tip clogging.

MODEL NUMBER	DESCRIPTION	INLET CONNECTION	TIP NUMBER
50800-15-PP-300	15" (381 mm) Polypropylene Extension	1/4" Hose Barb Inlet	 38720-PPB-X18
50800-15-PP-406		3/8" Hose Barb Inlet	
50800-21-AL-300	21" (533 mm) Aluminum Extension	1/4" Hose Barb Inlet	
50800-21-AL-406		3/8" Hose Barb Inlet	
50800-15-PP-300-X26	15" (381 mm) Polypropylene Extension	1/4" Hose Barb Inlet	 38720-PPB-X26 See page 122 for flow rate.
50800-15-PP-406-X26		3/8" Hose Barb Inlet	
50800-21-AL-300-X26	21" (533 mm) Aluminum Extension	1/4" Hose Barb Inlet	
50800-21-AL-406-X26		3/8" Hose Barb Inlet	

## 50800 TriggerJet Less Extension and Tip

### Feature:

- Can be fitted with any standard TeeJet<sup>®</sup> tip.

MODEL NUMBER	DESCRIPTION	INLET CONNECTION
50800-PP-300	TriggerJet, Less Extension	1/4" Hose Barb Inlet
50800-PP-406	TriggerJet, Less Extension	3/8" Hose Barb Inlet






## Model 22670

The 22670 TriggerJet spray gun kit combines the 22650 TriggerJet spray gun with an extension wand and the items listed in Features. Maximum pressure rating is 150 PSI (10 bar).

### Features:

- 22650 TriggerJet spray gun with choice of 1/4" or 3/8" hose shank and a 1/4" NPT or BSPT (F) thread inlet connection.
- Trigger lock permits locking gun in an open position for continuous flow (optional).
- 22665 extension wand with choice of 15" (381 mm) or 24" (610 mm) lengths.
- 38720-PPB-X8 adjustable ConeJet® spray tip with Viton® O-ring.
- CP22673-PP 45° and CP22664-PP straight adapters (other capacities available).
- Accepts all standard TeeJet spray tips and tip strainers.

MODEL NUMBER	EXTENSION LENGTH	INLET CONNECTION	TIP NUMBER
(B)22670-PP-15-1/4	15" (38 cm)	1/4" (F)	 38720-PPB-X8 (Standard nozzle shipped with TriggerJet)
22670-PP-15-300	15" (38 cm)	1/4" Hose Shank	
22670-PP-15-406	15" (38 cm)	3/8" Hose Shank	
(B)22670-PP-24-1/4	24" (61 cm)	1/4" (F)	
22670-PP-24-300	24" (61 cm)	1/4" Hose Shank	
22670-PP-24-406	24" (61 cm)	3/8" Hose Shank	

(B)=BSPT

### How to order:

Specify model number.  
 Example: (B)22670-PP-15-1/4  
 Reference page 122 for additional spray tip information.



## Model 22650

The 22650 TriggerJet spray gun is a lightweight spray gun designed for use with backpack, canister or other low-pressure sprayers. The TriggerJet is made of molded polypropylene for excellent chemical resistance and durability.

### Features:

- Choice of 1/4" or 3/8" hose shank and 1/4" NPT or BSPT (F) thread inlet connection.
- Replaceable diaphragm made of Viton.
- Trigger lock permits locking gun in an open position for continuous flow (optional).
- Maximum operating pressure of 150 PSI (10 bar).
- Accepts all standard TeeJet spray tips and tip strainers.

MODEL NUMBER	EXTENSION LENGTH	INLET CONNECTION	TIP NUMBER
(B)22650-PP-1/4	NONE	1/4" (F)	NONE
22650-PP-300		1/4" Hose Shank	
22650-PP-406		3/8" Hose Shank	

(B)=BSPT

### How to order:

Specify model number.  
 Example: (B)22650-PP-1/4  
 Reference page 122 for additional spray tip information.



# ConeJet® Adjustable Spray Tips

## 38720-PP

- Provides adjustable spray from solid stream to a hollow cone pattern.
- Made of polypropylene material for excellent chemical resistance.
- Fits any 1/16"–16 TeeJet® male thread bodies.
- 30° offset from horizontal incorporated into main tip body.



ADJUSTABLE CONEJET TIP NUMBER	PERFORMANCE	LIQUID PRESSURE IN bar									
		1.5 bar		2 bar		3 bar		4 bar		7 bar	
		SETTING		SETTING		SETTING		SETTING		SETTING	
	A	B	A	B	A	B	A	B	A	B	
38720-PPB-X8	Capacity – l/min	0.37	1.2	0.45	1.5	0.49	1.8	0.61	2.2	0.79	2.8
	Spray Angle	66°	—	71°	—	74°	—	77°	—	80°	—
	Max. Throw, m	1	10	1	11	1	12	1	12	1.2	12
38720-PPB-X12	Capacity – l/min	0.57	1.9	0.68	2.3	0.76	2.6	0.91	3.2	1.2	4.2
	Spray Angle	71°	—	75°	—	77°	—	78°	—	80°	—
	Max. Throw, m	1.1	11	1.2	12	1.2	12	1.2	12	1.2	12
38720-PPB-X18	Capacity – l/min	0.75	2.6	0.91	3.1	1.1	3.5	1.3	4.2	1.6	5.3
	Spray Angle	61°	—	68°	—	80°	—	80°	—	80°	—
	Max. Throw, m	1.2	12	1.2	13	1.2	13	1.2	13	1.8	13
38720-PPB-X26	Capacity – l/min	1.2	3.4	1.4	4.1	1.6	4.7	2.0	5.7	2.6	7.4
	Spray Angle	77°	—	82°	—	84°	—	86°	—	86°	—
	Max. Throw, m	1.2	10	1.4	11	1.5	12	1.7	12	1.8	12

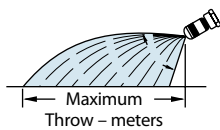
## 5500

Knurled body of tip rotates through a half turn to provide spray selection from wide angle, finely atomized cone spray to a straight stream spray. Tip settings "A" and "B" represent two extreme points of rotation in tip adjustment. Other sizes available.

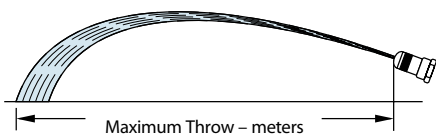


ADJUSTABLE CONEJET TIP NUMBER	PERFORMANCE	LIQUID PRESSURE IN bar											
		1.5 bar		2 bar		3 bar		4 bar		7 bar		10 bar	
		SETTING		SETTING		SETTING		SETTING		SETTING		SETTING	
	A	B	A	B	A	B	A	B	A	B	A	B	
5500-X1	Capacity – l/min	—	0.19	0.057	0.23	0.064	0.26	0.076	0.33	0.095	0.42	0.11	0.53
	Spray Angle	—	—	38°	—	54°	—	76°	—	80°	—	83°	—
	Max. Throw, m	—	7.4	0.30	8.4	0.46	9.5	0.46	9.1	0.46	7.7	0.46	5.5
5500-X2	Capacity – l/min	0.09	0.34	0.11	0.42	0.12	0.49	0.15	0.61	0.19	0.76	0.22	0.95
	Spray Angle	40°	—	60°	—	68°	—	75°	—	80°	—	83°	—
	Max. Throw, m	0.46	8.9	0.46	9.8	0.61	10.2	0.61	10.0	0.61	8.7	0.61	6.4
5500-X3	Capacity – l/min	0.14	0.49	0.17	0.64	0.19	0.72	0.22	0.87	0.28	1.14	0.33	1.40
	Spray Angle	57°	—	68°	—	72°	—	76°	—	80°	—	82°	—
	Max. Throw, m	0.61	9.5	0.61	10.4	0.61	10.8	0.61	10.4	0.61	9.2	0.61	7.7
5500-PPB-X3	Max. Throw, m	0.61	9.4	0.61	10.1	0.61	10.1	0.61	9.7	0.61	8.8	0.61	7.0
	Capacity – l/min	0.19	0.68	0.22	0.83	0.25	0.95	0.30	1.17	0.38	1.51	0.45	1.85
	Spray Angle	61°	—	70°	—	73°	—	77°	—	80°	—	81°	—
5500-X4	Capacity – l/min	0.23	0.79	0.29	0.98	0.31	1.14	0.38	1.40	0.49	1.82	0.57	2.20
	Spray Angle	61°	—	70°	—	74°	—	77°	—	80°	—	81°	—
	Max. Throw, m	0.76	10.0	0.76	10.9	0.91	11.1	0.91	10.7	0.91	9.5	0.91	7.6
5500-X5	Capacity – l/min	0.23	0.79	0.29	0.98	0.31	1.14	0.38	1.40	0.49	1.82	0.57	2.20
	Spray Angle	61°	—	70°	—	74°	—	77°	—	80°	—	81°	—
	Max. Throw, m	0.76	10.3	0.76	11.1	0.91	11.3	0.91	10.9	0.91	9.7	0.91	8.0
5500-PPB-X5	Max. Throw, m	0.76	9.9	0.76	10.2	0.91	10.2	0.91	9.8	0.91	9.0	0.91	8.0
	Capacity – l/min	0.28	0.98	0.33	1.21	0.38	1.40	0.45	1.70	0.57	2.20	0.72	2.69
	Spray Angle	65°	—	71°	—	74°	—	77°	—	80°	—	80°	—
5500-PPB-X6	Max. Throw, m	0.76	10.6	0.91	11.4	0.91	11.7	1.1	11.1	1.1	10.0	1.1	8.4
	Max. Throw, m	0.76	10.2	0.91	10.4	0.91	10.4	1.1	10.0	1.1	9.2	1.1	8.3
	Capacity – l/min	0.37	1.25	0.45	1.51	0.49	1.78	0.61	2.16	0.79	2.80	0.95	3.41
5500-X8	Capacity – l/min	0.37	1.25	0.45	1.51	0.49	1.78	0.61	2.16	0.79	2.80	0.95	3.41
	Spray Angle	66°	—	71°	—	74°	—	77°	—	80°	—	80°	—
	Max. Throw, m	0.91	10.9	0.91	11.9	0.91	12.1	0.91	11.5	1.2	10.5	1.2	9.1
5500-PPB-X8	Max. Throw, m	0.91	10.5	0.91	10.5	0.91	10.5	0.91	10.1	1.2	9.5	1.2	8.7
	Capacity – l/min	0.45	1.59	0.57	1.97	0.64	2.27	0.79	2.76	0.98	3.56	1.17	4.54
	Spray Angle	68°	—	72°	—	75°	—	78°	—	80°	—	80°	—
5500-X10	Capacity – l/min	0.45	1.59	0.57	1.97	0.64	2.27	0.79	2.76	0.98	3.56	1.17	4.54
	Spray Angle	68°	—	72°	—	75°	—	78°	—	80°	—	80°	—
	Max. Throw, m	0.91	11.2	1.1	12.1	1.1	12.3	1.2	11.9	1.2	10.9	1.2	9.7
5500-X12	Capacity – l/min	0.57	1.85	0.68	2.27	0.76	2.61	0.91	3.18	1.17	4.16	1.44	4.92
	Spray Angle	69°	—	73°	—	76°	—	78°	—	80°	—	80°	—
	Max. Throw, m	1.1	11.5	1.2	12.4	1.2	12.7	1.2	12.3	1.2	11.4	1.2	10.2
5500-PPB-X12	Max. Throw, m	1.1	10.9	1.2	10.9	1.2	10.9	1.2	10.7	1.2	10.1	1.2	9.0
	Capacity – l/min	0.64	2.08	0.76	2.54	0.87	2.95	1.10	3.60	1.40	4.54	1.70	5.68
	Spray Angle	70°	—	74°	—	76°	—	78°	—	80°	—	80°	—
5500-X14	Capacity – l/min	0.64	2.08	0.76	2.54	0.87	2.95	1.10	3.60	1.40	4.54	1.70	5.68
	Spray Angle	70°	—	74°	—	76°	—	78°	—	80°	—	80°	—
	Max. Throw, m	1.1	11.6	1.2	12.6	1.2	13.0	1.2	12.6	1.4	11.9	1.4	10.9
5500-X18	Capacity – l/min	0.79	2.61	0.98	3.18	1.14	3.67	1.40	4.54	1.78	5.68	2.20	7.19
	Spray Angle	71°	—	75°	—	77°	—	78°	—	80°	—	79°	—
	Max. Throw, m	1.2	11.6	1.2	12.8	1.2	13.3	1.2	13.0	1.5	12.3	1.5	11.4
5500-PPB-X18	Max. Throw, m	1.2	11.0	1.2	11.1	1.2	11.1	1.2	11.0	1.5	10.4	1.5	9.5
	Capacity – l/min	0.98	3.14	1.21	3.79	1.40	4.54	1.70	5.30	2.20	7.19	2.65	8.71
	Spray Angle	71°	—	75°	—	78°	—	79°	—	80°	—	78°	—
5500-X22	Capacity – l/min	0.98	3.14	1.21	3.79	1.40	4.54	1.70	5.30	2.20	7.19	2.65	8.71
	Spray Angle	71°	—	75°	—	78°	—	79°	—	80°	—	78°	—
	Max. Throw, m	1.2	11.7	1.40	13.0	1.5	13.6	1.5	13.2	1.5	12.4	1.5	11.3
5500-PPB-X22	Capacity – l/min	1.17	3.71	1.40	4.54	1.63	5.30	2.01	6.43	2.57	8.33	3.14	10.22
	Spray Angle	72°	—	76°	—	78°	—	79°	—	80°	—	78°	—
	Max. Throw, m	1.4	11.6	1.5	13.1	1.5	13.7	1.7	13.3	1.7	12.6	1.7	11.2

TIP SETTING "A"  
CONE SPRAY PATTERN



TIP SETTING "B"  
STRAIGHT STREAM SPRAY PATTERN



Above data is based on spraying water from a height of about 0.75 meters with tip tilted about as shown at left for each setting.



Top quality hand valves for use with spray nozzles, extensions and handles to suit your application needs. Hand valve assemblies may be made from parts shown on this page. The “typical assembly” shown at right includes 4727 handle, 4688 valve, 4673-8 curved extension with swivel body, TeeJet cap and flat spray tip.



Typical Shutoff Valve Assembly

### AA31 for pressures up to 500 PSI (35 bar)

Comfortable palm fitting gun. For use with any TeeJet spray tip. ¼” NPS (M) inlet connection.

Forged brass body and nickel-plated steel trigger. Teflon® valve seat and packing, stainless steel valve stem. Weight 12 oz. (0.34 kg). Also supplied as 31-1/4F with ¼” NPT (F) inlet connection.



AA31

## Valves



4688

6466

**4688 Trigger Valve** with trigger lock. Max. flow rate 2 GPM (7.6 l/min), max. pressure of 250 PSI (17 bar). ¼” NPT (F) inlet connection, ½”–16 (M) outlet connection. Use with TeeJet and ConeJet® tips, adjustable ConeJet tips or MulteeJet® tips. Brass material.

**6466 Trigger Valve**, same as 4688, less trigger lock, with extra long trigger. Brass material.

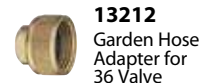


6104

6590

**6104 Trigger Valve** with trigger lock. Same as 4688 except with ¼” NPT (F) inlet and outlet connections. Brass material.

**6590 Trigger Valve**, same as 6104, less trigger lock, with extra long trigger. Brass material.



13212

Garden Hose Adapter for 36 Valve

**13212 Adapter**, ⅜” NPT (F) outlet, ¾” garden hose thread inlet for use with ⅜” 36 valve. Brass material.

## Valve Handles

Choice of valve handles — for above valves



4727



4754



4725

Outlet connections are ¼” NPT (M) to fit ¼” NPT (F) inlets of all valves shown. Choice of types for every need.

**(B)4727 Sure Grip Handle**, brass, rubber-covered, ¼” NPS (M) or BSPT hose inlet connection.

**4754 Sure Grip Handle**, brass, rubber-covered, ¾” garden hose thread (F) inlet connection.

**4725 Handle**, made of ½” brass pipe with bushing. Slip hose over pipe to form handle.

## Extensions for Valves and Spray Guns



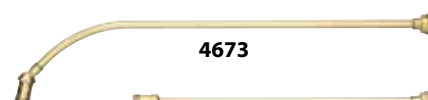
9527

### High-Pressure Curved Extensions

9527—for pressures to 1,000 PSI (70 bar). Fits models 23H and 31 GunJet spray guns.

For Pressures up to 1,000 PSI

EXTENSION TYPE AND NUMBER	EXTENSION LENGTH IN INCHES (millimeters)
9527-8	8” (203 mm)
9527-18	18” (457 mm)
9527-24	24” (610 mm)
9527-36	36” (914 mm)
9527-48	48” (1,219 mm)



4673

7715



22665-PP

### TriggerJet® Extension

22665-PP is for use with 22650-PP TriggerJet spray gun. Maximum pressure rating of 150 PSI (10 bar). Available in 15” and 24” (38 and 61 cm) lengths.

### Straight and Curved Extensions

4673 and 6671—for pressures to 125 PSI (9 bar). 7715—for pressures to 250 PSI (17 bar). Fits models 23L and 31 GunJet® spray guns and trigger valves.

STRAIGHT WITH FIXED BODY	CURVED WITH SWIVEL BODY	CURVED WITH FIXED BODY	EXTENSION LENGTH
7715-8	4673-8	6671-8	8” (203 mm)
7715-18	4673-18	6671-18	18” (457 mm)
7715-24	4673-24	6671-24	24” (610 mm)
7715-30	4673-30	6671-30	30” (762 mm)
7715-36	4673-36	6671-36	36” (914 mm)
7715-48	4673-48	6671-48	48” (1,219 mm)

# Technical Information

## Useful Formulas

$$\frac{l/\text{min}}{\text{(Per Nozzle)}} = \frac{l/\text{ha} \times \text{km/h} \times W}{60,000}$$

$$l/\text{ha} = \frac{60,000 \times l/\text{min} \text{ (Per Nozzle)}}{\text{km/h} \times W}$$

l/min – Liters Per Minute

L/ha – Liters Per Hectare

km/h – Kilometers Per Hour

W – Nozzle spacing (in cm) for broadcast spraying

– Spray width (in cm) for single nozzle, band spraying or boomless spraying

– Row spacing (in cm) divided by the number of nozzles per row for directed spraying

## Useful Formulas for Roadway Applications

$$l/\text{km} = \frac{60 \times l/\text{min}}{\text{km/hr}} \quad l/\text{min} = \frac{l/\text{km} \times \text{km/hr}}{60}$$

l/km = Liters Per Lane Kilometer

**Note:** l/km is not a normal volume per unit area measurement. It is a volume per distance measurement. Increases or decreases in lane width (swath width) are not accommodated by these formulas.

## Measuring Travel Speed

Measure a test course in the area to be sprayed or in an area with similar surface conditions. Minimum lengths of 30 and 60 meters are recommended for measuring speeds up to 8 and 14 km/h, respectively. Determine the time required to travel the test course. To help ensure accuracy, conduct the speed check with a partially loaded sprayer and select the engine throttle setting and gear that will be used when spraying. Repeat the above process and average the times that were measured. Use the following equation or the table at right to determine ground speed.

$$\text{Speed (km/h)} = \frac{\text{Distance (m)} \times 3.6}{\text{Time (seconds)}}$$

## Speeds

Speed in km/h	Time Required in SECONDS to Travel a Distance of:			
	30 m	60 m	90 m	120 m
5	22	43	65	86
6	18	36	54	72
7	15	31	46	62
8	14	27	41	54
9	—	24	36	48
10	—	22	32	43
11	—	20	29	39
12	—	18	27	36
13	—	17	25	33
14	—	15	23	31
16	—	14	20	27
18	—	—	18	24
20	—	—	16	22
25	—	—	13	17
30	—	—	—	14
35	—	—	—	12
40	—	—	—	11

## Nozzle Spacing

If the nozzle spacing on your boom is different than those tabulated, multiply the tabulated l/ha coverages by one of the following factors.

50 cm	
Other Spacing (cm)	Conversion Factor
20	2.5
25	2
30	1.67
35	1.43
40	1.25
45	1.11
60	.83
70	.71
75	.66

75 cm	
Other Spacing (cm)	Conversion Factor
40	1.88
45	1.67
50	1.5
60	1.25
70	1.07
80	.94
90	.83
110	.68
120	.63

100 cm	
Other Spacing (cm)	Conversion Factor
70	1.43
75	1.33
80	1.25
85	1.18
90	1.11
95	1.05
105	.95
110	.91
120	.83

## Miscellaneous Conversion Factors

One Hectare = 10,000 Square Meters  
2.471 Acres

One Acre = 0.405 Hectare

One Liter Per Hectare = 0.1069 Gallon  
Per Acre

One Kilometer = 1,000 Meters  
= 3,300 Feet = 0.621 Mile

One Liter = 0.26 Gallon  
= 0.22 Imperial Gallon

One Bar = 100 Kilopascals  
= 14.5 Pounds Per Square Inch

One Kilometer Per Hour = 0.62 Mile  
Per Hour

## Suggested Minimum Spray Heights

The nozzle height suggestions in the table below are based on the minimum overlap required to obtain uniform distribution. However, in many cases, typical height adjustments are based on a 1 to 1 nozzle spacing to height ratio. For example, 110° flat spray tips spaced 50 cm apart are commonly set 50 cm above the target.

	Nozzle Spacing (cm)			
	50 cm	75 cm	100 cm	
TP, TJ	65°	75	100	NR*
TP, XR, TX, DG, TJ, AI, XRC	80°	60	80	NR*
TP, XR, DG, TT, TTI, TJ, DGTJ, AI, AIXR, AIC, XRC, TTJ, AITTJ	110°	40	60	NR*
FullJet®	120°	40**	60**	75**
FloodJet® TK, TF, K, QCK, QCTF, 1/4TTJ	120°	40***	60***	75***

\* Not recommended.

\*\* Nozzle height based on 30° to 45° angle of orientation (see page 24 of catalog).

\*\*\* Wide angle spray tip height is influenced by nozzle orientation. The critical factor is to achieve a double spray pattern overlap.

# Technical Information

## Spraying Liquids with a Density Other Than Water

Since all the tabulations in this catalog are based on spraying water, which weighs 1 kilogram per liter, 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 l/min or l/ha of the spray liquid by the water rate conversion factor. Then use the new converted l/min or l/ha rate to select the proper size nozzle.

### Example:

Desired application rate is 100 l/ha of a liquid that has a density of 1.28 kg/L. Determine the correct nozzle size as follows:

$$\begin{aligned} & \text{l/ha (liquid other than water) x} \\ & \text{Conversion Factor} \\ & = \text{l/ha (from table in catalog)} \end{aligned}$$

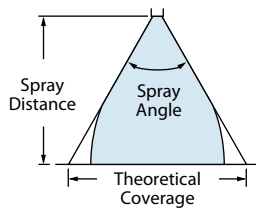
$$\begin{aligned} & 100 \text{ l/ha (1.28 kg/L solution) x 1.13} \\ & = 113 \text{ l/ha (water)} \end{aligned}$$

The applicator should choose a nozzle size that will supply 113 l/ha of water at the desired pressure.

DENSITY - kg/L	CONVERSION FACTOR
0.84	0.92
0.96	0.98
1.00 - WATER	1.00
1.08	1.04
1.20	1.10
1.28 - 28% nitrogen	1.13
1.32	1.15
1.44	1.20
1.68	1.30

## Spray Coverage Information

This table lists the theoretical coverage of spray patterns as calculated from the included spray angle of the spray and the distance from the nozzle orifice. These values are based on the assumption that the spray angle remains the same throughout the entire spray distance. In actual practice, the tabulated spray angle does not hold for long spray distances.

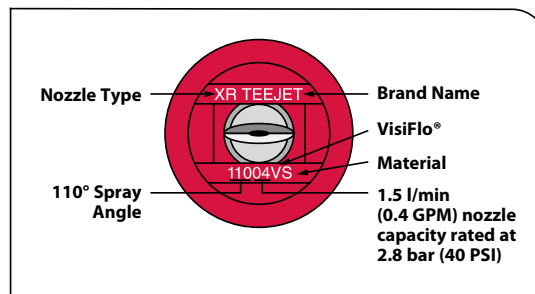


INCLUDED SPRAY ANGLE	THEORETICAL COVERAGE AT VARIOUS SPRAY HEIGHTS (IN cm)							
	20 cm	30 cm	40 cm	50 cm	60 cm	70 cm	80 cm	90 cm
15°	5.3	7.9	10.5	13.2	15.8	18.4	21.1	23.7
20°	7.1	10.6	14.1	17.6	21.2	24.7	28.2	31.7
25°	8.9	13.3	17.7	22.2	26.6	31.0	35.5	39.9
30°	10.7	16.1	21.4	26.8	32.2	37.5	42.9	48.2
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
85°	36.7	55.0	73.3	91.6	110	128	147	165
90°	40.0	60.0	80.0	100	120	140	160	180
95°	43.7	65.5	87.3	109	131	153	175	196
100°	47.7	71.5	95.3	119	143	167	191	215
110°	57.1	85.7	114	143	171	200	229	257
120°	69.3	104	139	173	208	243		
130°	85.8	129	172	215	257			
140°	110	165	220	275				
150°	149	224	299					

## Nozzle Nomenclature

There are many types of nozzles available, with each providing different flow rates, spray angles, droplet sizes and patterns. Some of these spray tip characteristics are indicated by the tip number.

**Remember, when replacing tips, be sure to purchase the same tip number, thereby ensuring your sprayer remains properly calibrated.**



$$A = \frac{B+C}{D}$$

# Technical Information

## Universal Application Rate Chart for 40 cm Tip Spacing

TIP CAPACITY	LIQUID PRESSURE IN bar	CAPACITY 1 NOZZLE IN l/min	L/ha – 40 cm NOZZLE SPACING											
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
01	1.0	0.23	86.3	57.5	43.1	34.5	28.8	24.6	21.6	19.2	17.3	13.8	11.5	9.9
	1.5	0.28	105	70.0	52.5	42.0	35.0	30.0	26.3	23.3	21.0	16.8	14.0	12.0
	2.0	0.32	120	80.0	60.0	48.0	40.0	34.3	30.0	26.7	24.0	19.2	16.0	13.7
	3.0	0.39	146	97.5	73.1	58.5	48.8	41.8	36.6	32.5	29.3	23.4	19.5	16.7
	4.0	0.45	169	113	84.4	67.5	56.3	48.2	42.2	37.5	33.8	27.0	22.5	19.3
	5.0	0.50	188	125	93.8	75.0	62.5	53.6	46.9	41.7	37.5	30.0	25.0	21.4
	6.0	0.55	206	138	103	82.5	68.8	58.9	51.6	45.8	41.3	33.0	27.5	23.6
7.0	0.60	225	150	113	90.0	75.0	64.3	56.3	50.0	45.0	36.0	30.0	25.7	
015	1.0	0.34	128	85.0	63.8	51.0	42.5	36.4	31.9	28.3	25.5	20.4	17.0	14.6
	1.5	0.42	158	105	78.8	63.0	52.5	45.0	39.4	35.0	31.5	25.2	21.0	18.0
	2.0	0.48	180	120	90.0	72.0	60.0	51.4	45.0	40.0	36.0	28.8	24.0	20.6
	3.0	0.59	221	148	111	88.5	73.8	63.2	55.3	49.2	44.3	35.4	29.5	25.3
	4.0	0.68	255	170	128	102	85.0	72.9	63.8	56.7	51.0	40.8	34.0	29.1
	5.0	0.76	285	190	143	114	95.0	81.4	71.3	63.3	57.0	45.6	38.0	32.6
	6.0	0.83	311	208	156	125	104	88.9	77.8	69.2	62.3	49.8	41.5	35.6
7.0	0.90	338	225	169	135	113	96.4	84.4	75.0	67.5	54.0	45.0	38.6	
02	1.0	0.46	173	115	86.3	69.0	57.5	49.3	43.1	38.3	34.5	27.6	23.0	19.7
	1.5	0.56	210	140	105	84.0	70.0	60.0	52.5	46.7	42.0	33.6	28.0	24.0
	2.0	0.65	244	163	122	97.5	81.3	69.6	60.9	54.2	48.8	39.0	32.5	27.9
	3.0	0.79	296	198	148	119	98.8	84.6	74.1	65.8	59.3	47.4	39.5	33.9
	4.0	0.91	341	228	171	137	114	97.5	85.3	75.8	68.3	54.6	45.5	39.0
	5.0	1.02	383	255	191	153	128	109	95.6	85.0	76.5	61.2	51.0	43.7
	6.0	1.12	420	280	210	168	140	120	105	93.3	84.0	67.2	56.0	48.0
7.0	1.21	454	303	227	182	151	130	113	101	90.8	72.6	60.5	51.9	
025	1.0	0.57	214	143	107	85.5	71.3	61.1	53.4	47.5	42.8	34.2	28.5	24.4
	1.5	0.70	263	175	131	105	87.5	75.0	65.6	58.3	52.5	42.0	35.0	30.0
	2.0	0.81	304	203	152	122	101	86.8	75.9	67.5	60.8	48.6	40.5	34.7
	3.0	0.99	371	248	186	149	124	106	92.8	82.5	74.3	59.4	49.5	42.4
	4.0	1.14	428	285	214	171	143	122	107	95.0	85.5	68.4	57.0	48.9
	5.0	1.28	480	320	240	192	160	137	120	107	96.0	76.8	64.0	54.9
	6.0	1.40	525	350	263	210	175	150	131	117	105	84.0	70.0	60.0
7.0	1.51	566	378	283	227	189	162	142	126	113	90.6	75.5	64.7	
03	1.0	0.68	255	170	128	102	85.0	72.9	63.8	56.7	51.0	40.8	34.0	29.1
	1.5	0.83	311	208	156	125	104	88.9	77.8	69.2	62.3	49.8	41.5	35.6
	2.0	0.96	360	240	180	144	120	103	90.0	80.0	72.0	57.6	48.0	41.1
	3.0	1.18	443	295	221	177	148	126	111	98.3	88.5	70.8	59.0	50.6
	4.0	1.36	510	340	255	204	170	146	128	113	102	81.6	68.0	58.3
	5.0	1.52	570	380	285	228	190	163	143	127	114	91.2	76.0	65.1
	6.0	1.67	626	418	313	251	209	179	157	139	125	100	83.5	71.6
7.0	1.80	675	450	338	270	225	193	169	150	135	108	90.0	77.1	
04	1.0	0.91	341	228	171	137	114	97.5	85.3	75.8	68.3	54.6	45.5	39.0
	1.5	1.12	420	280	210	168	140	120	105	93.3	84.0	67.2	56.0	48.0
	2.0	1.29	484	323	242	194	161	138	121	108	96.8	77.4	64.5	55.3
	3.0	1.58	593	395	296	237	198	169	148	132	119	94.8	79.0	67.7
	4.0	1.82	683	455	341	273	228	195	171	152	137	109	91.0	78.0
	5.0	2.04	765	510	383	306	255	219	191	170	153	122	102	87.4
	6.0	2.23	836	558	418	335	279	239	209	186	167	134	112	95.6
7.0	2.41	904	603	452	362	301	258	226	201	181	145	121	103	
05	1.0	1.14	428	285	214	171	143	122	107	95.0	85.5	68.4	57.0	48.9
	1.5	1.39	521	348	261	209	174	149	130	116	104	83.4	69.5	59.6
	2.0	1.61	604	403	302	242	201	173	151	134	121	96.6	80.5	69.0
	3.0	1.97	739	493	369	296	246	211	185	164	148	118	98.5	84.4
	4.0	2.27	851	568	426	341	284	243	213	189	170	136	114	97.3
	5.0	2.54	953	635	476	381	318	272	238	212	191	152	127	109
	6.0	2.79	1046	698	523	419	349	299	262	233	209	167	140	120
7.0	3.01	1129	753	564	452	376	323	282	251	226	181	151	129	
06	1.0	1.37	514	343	257	206	171	147	128	114	103	82.2	68.5	58.7
	1.5	1.68	630	420	315	252	210	180	158	140	126	101	84.0	72.0
	2.0	1.94	728	485	364	291	243	208	182	162	146	116	97.0	83.1
	3.0	2.37	889	593	444	356	296	254	222	198	178	142	119	102
	4.0	2.74	1028	685	514	411	343	294	257	228	206	164	137	117
	5.0	3.06	1148	765	574	459	383	328	287	255	230	184	153	131
	6.0	3.35	1256	838	628	503	419	359	314	279	251	201	168	144
7.0	3.62	1358	905	679	543	453	388	339	302	272	217	181	155	
08	1.0	1.82	683	455	341	273	228	195	171	152	137	109	91.0	78.0
	1.5	2.23	836	558	418	335	279	239	209	186	167	134	112	95.6
	2.0	2.58	968	645	484	387	323	276	242	215	194	155	129	111
	3.0	3.16	1185	790	593	474	395	339	296	263	237	190	158	135
	4.0	3.65	1369	913	684	548	456	391	342	304	274	219	183	156
	5.0	4.08	1530	1020	765	612	510	437	383	340	306	245	204	175
	6.0	4.47	1676	1118	838	671	559	479	419	373	335	268	224	192
7.0	4.83	1811	1208	906	725	604	518	453	403	362	290	242	207	
10	1.0	2.28	855	570	428	342	285	244	214	190	171	137	114	97.7
	1.5	2.79	1046	698	523	419	349	299	262	233	209	167	140	120
	2.0	3.23	1211	808	606	485	404	346	303	269	242	194	162	138
	3.0	3.95	1481	988	741	593	494	423	370	329	296	237	198	169
	4.0	4.56	1710	1140	855	684	570	489	428	380	342	274	228	195
	5.0	5.10	1913	1275	956	765	638	546	478	425	383	306	255	219
	6.0	5.59	2096	1398	1048	839	699	599	524	466	419	335	280	240
7.0	6.03	2261	1508	1131	905	754	646	565	503	452	362	302	258	
15	1.0	3.42	1283	855	641	513	428	366	321	285	257	205	171	147
	1.5	4.19	1571	1048	786	629	524	449	393	349	314	251	210	180
	2.0	4.83	1811	1208	906	725	604	518	453	403	362	290	242	207
	3.0	5.92	2220	1480	1110	888	740	634	555	493	444	355	296	254
	4.0	6.84	2565	1710	1283	1026	850	733	641	570	513	410	342	293
	5.0	7.64	2865	1910	1433	1146	955	819	716	637	573	458	382	327
	6.0	8.37	3139	2093	1569	1256	1046	897	785	698	628	502	419	359
7.0	9.04	3390	2260	1695	1356	1130	969	848	753	678	542	452	387	
20	1.0	4.56	1710	1140	855	684	570	489	428	380	342	274	228	195
	1.5	5.58	2093	1395	1046	837	698	598	523	465	419	335	279	239
	2.0	6.44	2415	1610	1208	966	805	690	604	537	483	386	322	276
	3.0	7.89	2959	1973	1479	1184	986	845	740	658	592	473	395	338
	4.0	9.11	3416	2278	1708	1367	1139	976	854	759	683	547	456	390
	5.0	10.19	3821	2548	1911	1529	1274	1092	955	849	764	611	510	437
	6.0	11.16	4185	2790	2093	1674	1395	1196	1046	930	837	670	558	478
7.0	12.05	4519	3013	2259	1808	1506	1291	1130	1004	904	723	603	516	

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



$$A = \frac{B+C}{D}$$

# Technical Information

## Universal Application Rate Chart for 75 cm Tip Spacing

TIP CAPACITY	LIQUID PRESSURE IN bar	CAPACITY 1 NOZZLE IN l/min	L/ha - 75 cm NOZZLE SPACING											
			4 km/h	6 km/h	8 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h
01	1.0	0.23	46.0	30.7	23.0	18.4	15.3	13.1	11.5	10.2	9.2	7.4	6.1	5.3
	1.5	0.28	56.0	37.3	28.0	22.4	18.7	16.0	14.0	12.4	11.2	9.0	7.5	6.4
	2.0	0.32	64.0	42.7	32.0	25.6	21.3	18.3	16.0	14.2	12.8	10.2	8.5	7.3
	3.0	0.39	78.0	52.0	39.0	31.2	26.0	22.3	19.5	17.3	15.6	12.5	10.4	8.9
	4.0	0.45	90.0	60.0	45.0	36.0	30.0	25.7	22.5	20.0	18.0	14.4	12.0	10.3
	5.0	0.50	100	66.7	50.0	40.0	33.3	28.6	25.0	22.2	20.0	16.0	13.3	11.4
	6.0	0.55	110	73.3	55.0	44.0	36.7	31.4	27.5	24.4	22.0	17.6	14.7	12.6
7.0	0.60	120	80.0	60.0	48.0	40.0	34.3	30.0	26.7	24.0	19.2	16.0	13.7	
015	1.0	0.34	68.0	45.3	34.0	27.2	22.7	19.4	17.0	15.1	13.6	10.9	9.1	7.8
	1.5	0.42	84.0	56.0	42.0	33.6	28.0	24.0	21.0	18.7	16.8	13.4	11.2	9.6
	2.0	0.48	96.0	64.0	48.0	38.4	32.0	27.4	24.0	21.3	19.2	15.4	12.8	11.0
	3.0	0.59	118	78.7	59.0	47.2	39.3	33.7	29.5	26.2	23.6	18.9	15.7	13.5
	4.0	0.68	136	90.7	68.0	54.4	45.3	38.9	34.0	30.2	27.2	21.8	18.1	15.5
	5.0	0.76	152	101	76.0	60.8	50.7	43.4	38.0	33.8	30.4	24.3	20.3	17.4
	6.0	0.83	166	111	83.0	66.4	55.3	47.4	41.5	36.9	33.2	26.6	22.1	19.0
7.0	0.90	180	120	90.0	72.0	60.0	51.4	45.0	40.0	36.0	28.8	24.0	20.6	
02	1.0	0.46	92.0	61.3	46.0	36.8	30.7	26.3	23.0	20.4	18.4	14.7	12.3	10.5
	1.5	0.56	112	74.7	56.0	44.8	37.3	32.0	28.0	24.9	22.4	17.9	14.9	12.8
	2.0	0.65	130	86.7	65.0	52.0	43.3	37.1	32.5	28.9	26.0	20.8	17.3	14.9
	3.0	0.79	158	105	79.0	63.2	52.7	45.1	39.5	35.1	31.6	25.3	21.1	18.1
	4.0	0.91	182	121	91.0	72.8	60.7	52.0	45.5	40.4	36.4	29.1	24.3	20.8
	5.0	1.02	204	136	102	81.6	68.0	58.3	51.0	45.3	40.8	32.6	27.2	23.3
	6.0	1.12	224	149	112	89.6	74.7	64.0	56.0	49.8	44.8	35.8	29.9	25.6
7.0	1.21	242	161	121	96.8	80.7	69.1	60.5	53.8	48.4	38.7	32.3	27.7	
025	1.0	0.57	114	76.0	57.0	45.6	38.0	32.6	28.5	25.3	22.8	18.2	15.2	13.0
	1.5	0.70	140	93.3	70.0	56.0	46.7	40.0	35.0	31.1	28.0	22.4	18.7	16.0
	2.0	0.81	162	108	81.0	64.8	54.0	46.3	40.5	36.0	32.4	25.9	21.6	18.5
	3.0	0.99	198	132	99.0	79.2	66.0	56.6	49.5	44.0	39.6	31.7	26.4	22.6
	4.0	1.14	228	152	114	91.2	76.0	65.1	57.0	50.7	45.6	36.5	30.4	26.1
	5.0	1.28	256	171	128	102	85.3	73.1	64.0	56.9	51.2	41.0	34.1	29.3
	6.0	1.40	280	187	140	112	93.3	80.0	70.0	62.2	56.0	44.8	37.3	32.0
7.0	1.51	302	201	151	121	101	86.3	75.5	67.1	60.4	48.3	40.3	34.5	
03	1.0	0.68	136	90.7	68.0	54.4	45.3	38.9	34.0	30.2	27.2	21.8	18.1	15.5
	1.5	0.83	166	111	83.0	66.4	55.3	47.4	41.5	36.9	33.2	26.6	22.1	19.0
	2.0	0.96	192	128	96.0	76.8	64.0	54.9	48.0	42.7	38.4	30.7	25.6	21.9
	3.0	1.18	236	157	118	94.4	78.7	67.4	59.0	52.4	47.2	37.8	31.5	27.0
	4.0	1.36	272	181	136	109	90.7	77.7	68.0	60.4	54.4	43.5	36.3	31.1
	5.0	1.52	304	203	152	122	101	86.9	76.0	67.6	60.8	48.6	40.5	34.7
	6.0	1.67	334	223	167	134	111	95.4	83.5	74.2	66.8	53.4	44.5	38.2
7.0	1.80	360	240	180	144	120	103	90.0	80.0	72.0	57.6	48.0	41.1	
04	1.0	0.91	182	121	91.0	72.8	60.7	52.0	45.5	40.4	36.4	29.1	24.3	20.8
	1.5	1.12	224	149	112	89.6	74.7	64.0	56.0	49.8	44.8	35.8	29.9	25.6
	2.0	1.29	258	172	129	103	86.0	73.7	64.5	57.3	51.6	41.3	34.4	29.5
	3.0	1.58	316	211	158	126	105	90.3	79.0	70.2	63.2	50.6	42.1	36.1
	4.0	1.82	364	243	182	146	121	104	91.0	80.9	72.8	58.2	48.5	41.6
	5.0	2.04	408	272	204	163	136	117	102	90.7	81.6	65.3	54.4	46.6
	6.0	2.23	446	297	223	178	149	127	112	99.1	89.2	71.4	59.5	51.0
7.0	2.41	482	321	241	193	161	138	121	107	96.4	77.1	64.3	55.1	
05	1.0	1.14	228	152	114	91.2	76.0	65.1	57.0	50.7	45.6	36.5	30.4	26.1
	1.5	1.39	278	185	139	111	92.7	79.4	69.5	61.8	55.6	44.5	37.1	31.8
	2.0	1.61	322	215	161	129	107	92.0	80.5	71.6	64.4	51.5	42.9	36.8
	3.0	1.97	394	263	197	158	131	113	98.5	87.6	78.8	63.0	52.5	45.0
	4.0	2.27	454	303	227	182	151	130	114	101	90.8	72.6	60.5	51.9
	5.0	2.54	508	339	254	203	169	145	127	113	102	81.3	67.7	58.1
	6.0	2.79	558	372	279	223	186	159	140	124	112	89.3	74.4	63.8
7.0	3.01	602	401	301	241	201	172	151	134	120	96.3	80.3	68.8	
06	1.0	1.37	274	183	137	110	91.3	78.3	68.5	60.9	54.8	43.8	36.5	31.3
	1.5	1.68	336	224	168	134	112	96.0	84.0	74.7	67.2	53.8	44.8	38.4
	2.0	1.94	388	259	194	155	129	111	97.0	86.2	77.6	62.1	51.7	44.3
	3.0	2.37	474	316	237	190	158	135	119	105	94.8	75.8	63.2	54.2
	4.0	2.74	548	365	274	219	183	157	137	122	110	87.7	73.1	62.6
	5.0	3.06	612	408	306	245	204	175	153	136	122	97.9	81.6	69.9
	6.0	3.35	670	447	335	268	223	191	168	149	134	107	89.3	76.6
7.0	3.62	724	483	362	290	241	207	181	161	145	116	96.5	82.7	
08	1.0	1.82	364	243	182	146	121	104	91.0	80.9	72.8	58.2	48.5	41.6
	1.5	2.23	446	297	223	178	149	127	112	99.1	89.2	71.4	59.5	51.0
	2.0	2.58	516	344	258	206	172	147	129	115	103	82.6	68.8	59.0
	3.0	3.16	632	421	316	253	211	181	158	140	126	101	84.3	72.2
	4.0	3.65	730	487	365	292	243	209	183	162	146	117	97.3	83.4
	5.0	4.08	816	544	408	326	272	233	204	181	163	131	109	93.3
	6.0	4.47	894	596	447	358	298	255	224	199	179	143	119	102
7.0	4.83	966	644	483	386	322	276	242	215	193	155	129	110	
10	1.0	2.28	456	304	228	182	152	130	114	101	91.2	73.0	60.8	52.1
	1.5	2.79	558	372	279	223	186	159	140	124	112	89.3	74.4	63.8
	2.0	3.23	646	431	323	258	215	185	162	144	129	103	86.1	73.8
	3.0	3.95	790	527	395	316	263	226	198	176	158	126	105	90.3
	4.0	4.56	912	608	456	365	304	261	228	203	182	146	122	104
	5.0	5.10	1020	680	510	408	340	291	255	227	204	163	136	117
	6.0	5.59	1118	745	559	447	373	319	280	248	224	179	149	128
7.0	6.03	1206	804	603	482	402	345	302	268	241	193	161	138	
15	1.0	3.42	684	456	342	274	228	195	171	152	137	109	91.2	78.2
	1.5	4.19	838	559	419	335	279	239	210	186	168	134	112	95.8
	2.0	4.83	966	644	483	386	322	276	242	215	193	155	129	110
	3.0	5.92	1184	789	592	474	395	338	296	263	237	189	158	135
	4.0	6.84	1368	912	684	547	456	391	342	304	274	219	182	156
	5.0	7.64	1528	1019	764	611	509	437	382	340	306	244	204	175
	6.0	8.37	1674	1116	837	670	558	478	419	372	335	268	223	191
7.0	9.04	1808	1205	904	723	603	517	452	402	362	289	241	207	
20	1.0	4.56	912	608	456	365	304	261	228	203	182	146	122	104
	1.5	5.58	1116	744	558	446	372	319	279	248	223	179	149	128
	2.0	6.44	1288	859	644	515	429	368	322	286	258	206	172	147
	3.0	7.89	1578	1052	789	631	526	451	395	351	316	252	210	180
	4.0	9.11	1822	1215	911	729	607	521	456	405	364	292	243	208
	5.0	10.19	2038	1359	1019	815	679	582	510	453	408	326	272	233
	6.0	11.16	2232	1488	1116	893	744	638	558	496	446	357	2	

# Information About Spray Pressure

## Flow Rate

Nozzle flow rate varies with spraying pressure. In general, the relationship between l/min and pressure is as follows:

$$\frac{l/min_1}{l/min_2} = \frac{\sqrt{bar_1}}{\sqrt{bar_2}}$$

This equation is explained by the illustration to the right. Simply stated, in order to double the flow through a nozzle, the pressure must be increased four times.

Higher pressure not only increases the flow rate through a nozzle, but it also influences the droplet size and the rate of orifice wear. As pressure is increased, the droplet size decreases and the rate of orifice wear increases.

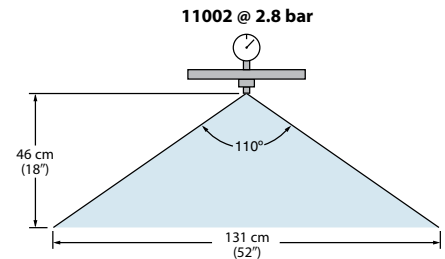
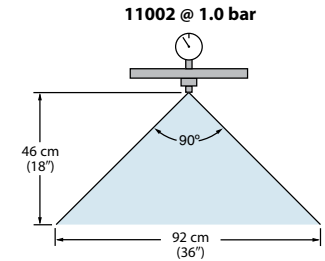
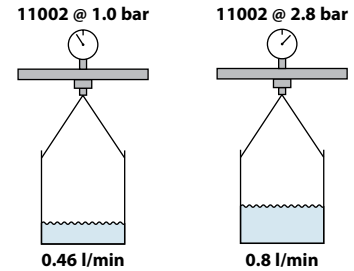
The values given in the tabulation sections of this catalog indicate the most commonly used pressure ranges for the associated spray tips. When information on the performance of spray tips outside of the pressure range given in this catalog is required, contact TeeJet Technologies or your local rep.

## Spray Angle and Coverage

Depending on the nozzle type and size, the operating pressure can have a significant effect on spray angle and quality of spray distribution. As shown here for an 11002 flat spray tip, lowering the pressure results in a smaller spray angle and a significant reduction in spray coverage.

Tabulations for spray tips in this catalog are based on spraying water. Generally, liquids more viscous than water produce relatively smaller spray angles, while liquids with surface tensions lower than water will produce wider spray angles. In situations where the uniformity of spray distribution is important, be careful to operate your spray tips within the proper pressure range.

**Note:** Suggested minimum spray heights for broadcast spraying are based upon nozzles spraying water at the rated spray angle.



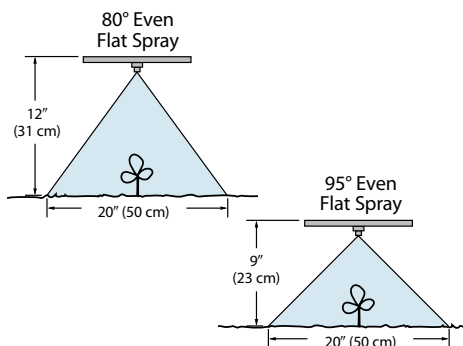
## Pressure Drop Through Various Hose Sizes

FLOW IN l/min	PRESSURE DROP IN 3 m (10') LENGTH WITHOUT COUPLINGS										
	6.4 mm		9.5 mm		12.7 mm		19.0 mm		25.4 mm		
	bar	Kpa	bar	Kpa	bar	Kpa	bar	Kpa	bar	Kpa	
1.9	0.1	9.6		1.4							
3.8				4.8							
5.8			0.1	9.6		2.8					
7.7			0.2	16.5		4.1					
9.6			0.2	23.4	0.1	6.2					
11.5					0.1	8.3					
15.4					0.1	13.8					
19.2					0.2	20.0		2.8			
23.1					0.3	27.6		4.1			
30.8							0.1	6.2		2.1	
38.5							0.1	9.6		2.8	

## Helpful Reminders for Band Spraying

Wider angle spray tips allow the spray height to be lowered to minimize drift.

Example:



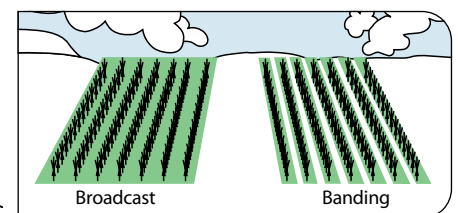
The spray angle of the nozzle and the resulting band width are directly influenced by the spraying pressure.

Example: 8002E Even Flat Spray

Use care when calculating:  
Field Acres/Hectares vs. Treated Acres/Hectares

Field Acres/Hectares = Total Acres/Hectares  
of Planted Cropland

Treated Acres/Hectares =  
 $\frac{\text{Field Acres/Hectares} \times \text{Band Width}}{\text{Row Spacing}}$



## Pressure Drop Through Sprayer Components

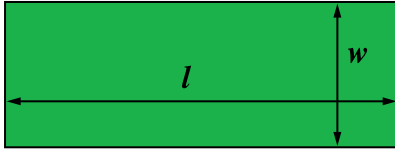
COMPONENT NUMBER	TYPICAL PRESSURE DROP (bar) AT VARIOUS FLOW RATES (l/min)																						
	2.0 l/min	3.0 l/min	4.0 l/min	5.0 l/min	7.5 l/min	10.0 l/min	15.0 l/min	20.0 l/min	25.0 l/min	30.0 l/min	40.0 l/min	50.0 l/min	75.0 l/min	100 l/min	150 l/min	200 l/min	250 l/min	300 l/min	375 l/min	450 l/min	550 l/min	750 l/min	
AA2 GunJet			0.02	0.03	0.06	0.11	0.26	0.45	0.71	1.02	1.82	2.84											
AA18 GunJet		0.02	0.04	0.07	0.16	0.28	0.62	1.10	1.72	2.48	4.42												
AA30L GunJet		0.03	0.05	0.07	0.17	0.30	0.67	1.19	1.86	2.67	4.75												
AA43 GunJet						0.02	0.05	0.08	0.13	0.18	0.32	0.51	1.14	2.02	4.55								
AA143 GunJet						0.02	0.04	0.07	0.10	0.15	0.27	0.42	0.94	1.68	3.78								
AA6B Valve						0.02	0.03	0.06	0.10	0.14	0.25	0.38	0.87	1.54	3.46								
AA17 Valve						0.02	0.03	0.06	0.10	0.14	0.25	0.38	0.87	1.54	3.46								
AA144A/144P Valve						0.02	0.03	0.06	0.10	0.14	0.25	0.38	0.87	1.54	3.46								
AA144A-1-3/AA144P-1-3 Valve					0.02	0.04	0.09	0.15	0.24	0.34	0.60	0.94	2.13	3.78									
AA145H Valve							0.02	0.04	0.07	0.09	0.17	0.26	0.59	1.05	2.35	4.19							
344 2-way Valve										0.02	0.04	0.06	0.13	0.23	0.52	0.93	1.45	2.09	3.27				
344 3-way Valve								0.02	0.03	0.04	0.07	0.10	0.23	0.41	0.92	1.64	2.57	3.70					
346 2-way Valve													0.02	0.05	0.09	0.15	0.21	0.33	0.48	0.72	1.33		
346 3-way Valve													0.03	0.06	0.13	0.23	0.36	0.52	0.82	1.18	1.76	3.27	
356 Valve													0.02	0.05	0.09	0.15	0.21	0.33	0.48	0.72	1.33		
430 2-way* Manifold						0.02	0.04	0.07	0.11	0.16	0.28	0.44	0.99	1.76	3.95								
430 3-way* Manifold						0.02	0.04	0.07	0.11	0.16	0.28	0.44	0.99	1.76	3.95								
430 FB* Manifold					0.02	0.03	0.06	0.11	0.17	0.25	0.44	0.69	1.56	2.78									
440* Manifold									0.02	0.03	0.06	0.09	0.20	0.35	0.80	1.42	2.21	3.19					
450* Manifold										0.02	0.04	0.06	0.13	0.23	0.52	0.93	1.45	2.09	3.27				
450 FB* Manifold										0.02	0.04	0.06	0.13	0.23	0.52	0.93	1.45	2.09	3.27				
460 2-way* Manifold								0.02	0.02	0.03	0.06	0.09	0.21	0.38	0.85	1.51	2.35	3.39					
460 3-way* Manifold									0.02	0.02	0.03	0.06	0.09	0.21	0.38	0.85	1.51	2.35	3.39				
460 FB* Manifold									0.02	0.03	0.04	0.07	0.10	0.23	0.41	0.92	1.64	2.57	3.70				
490* Manifold														0.02	0.05	0.09	0.15	0.21	0.33	0.48	0.72	1.33	
QJ350A Nozzle Body	0.03	0.07	0.12	0.18	0.41	0.74	1.65	2.94															
QJ360C Nozzle Body	0.02	0.04	0.08	0.12	0.26	0.47	1.06	1.88	2.94														
QJ360E Nozzle Body	0.04	0.09	0.17	0.26	0.59	1.05	2.35																
24230A/24216A Nozzle Body	0.03	0.07	0.12	0.18	0.41	0.74	1.65	2.94															
QJ17560A Nozzle Body	0.02	0.04	0.08	0.12	0.26	0.47	1.06	1.88	2.94														
AA122-1/2 Line Strainer						0.02	0.04	0.07	0.10	0.15	0.27	0.42	0.94	1.68	3.78								
AA122-3/4 Line Strainer							0.02	0.04	0.06	0.09	0.15	0.24	0.53	0.94	2.13	3.78							
AA126-3 Line Strainer								0.02	0.03	0.04	0.07	0.11	0.25	0.45	1.01	1.80	2.81	4.04					
AA126-4/F50/M50 Line Strainer									0.02	0.03	0.05	0.11	0.20	0.44	0.78	1.22	1.76	2.74	3.95				
AA126-5 Line Strainer												0.02	0.04	0.07	0.15	0.27	0.43	0.62	0.96	1.38	2.07	3.85	
AA126-6/F75 Line Strainer													0.02	0.04	0.09	0.16	0.25	0.36	0.56	0.81	1.21	2.26	

\*Manifold pressure drop data based on a single valve. Quantity of valves, inlet fitting size and inlet feed setup may affect pressure drop rating. Please contact your local TeeJet sale representative for additional information.

# Area Measurement

It is essential to know the amount of area that you intend to cover when applying a pesticide or fertilizer. Turf areas such as home lawns and golf course greens, tees and fairways should be measured in square feet or acres, depending upon the units needed.

## Rectangular Areas



Area = Length ( $l$ ) x Width ( $w$ )

### Example:

What is the area of a lawn that is 150 meters long by 75 meters wide?

$$\begin{aligned} \text{Area} &= 150 \text{ meters} \times 75 \text{ meters} \\ &= 11,250 \text{ square meters} \end{aligned}$$

By using the following equation, it is possible to determine the area in hectares.

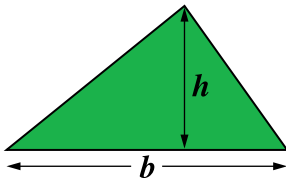
$$\text{Area in hectares} = \frac{\text{Area in square meters}}{10,000 \text{ square meters per hectare}}$$

(There are 10,000 square meters in a hectare.)

### Example:

$$\begin{aligned} \text{Area in hectares} &= \frac{11,250 \text{ square meters}}{10,000 \text{ square meters per hectare}} \\ &= 1.125 \text{ hectares} \end{aligned}$$

## Triangular Areas



$$\text{Area} = \frac{\text{Base } (b) \times \text{Height } (h)}{2}$$

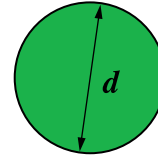
### Example:

The base of a corner lot is 120 meters while the height is 50 meters. What is the area of the lot?

$$\begin{aligned} \text{Area} &= \frac{120 \text{ meters} \times 50 \text{ meters}}{2} \\ &= 3,000 \text{ square meters} \end{aligned}$$

$$\begin{aligned} \text{Area in hectares} &= \frac{3,000 \text{ square meters}}{10,000 \text{ square meters per hectare}} \\ &= 0.30 \text{ hectare} \end{aligned}$$

## Circular Areas



$$\text{Area} = \frac{\pi \times \text{Diameter}^2 (d)}{4}$$

$$\pi = 3.14159$$

### Example:

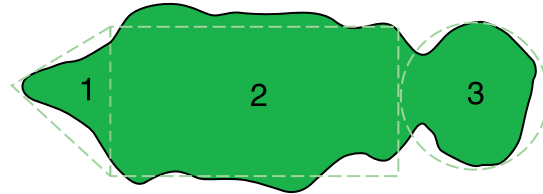
What is the area of a green that has a diameter of 15 meters?

$$\text{Area} = \frac{\pi \times (15 \text{ meters})^2}{4} = \frac{3.14 \times 225}{4}$$

$$= 177 \text{ square meters}$$

$$\begin{aligned} \text{Area in hectares} &= \frac{177 \text{ square meters}}{10,000 \text{ square meters per hectare}} \\ &= 0.018 \text{ hectare} \end{aligned}$$

## Irregular Areas



Any irregularly shaped turf area can usually be reduced to one or more geometric figures. The area of each figure is calculated and the areas are then added together to obtain the total area.

### Example:

What is the total area of the Par-3 hole illustrated above?

The area can be broken into a triangle (area 1), a rectangle (area 2) and a circle (area 3). Then use the previously mentioned equations for determining areas to find the total area.

$$\text{Area 1} = \frac{15 \text{ meters} \times 20 \text{ meters}}{2} = 150 \text{ square meters}$$

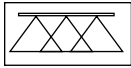
$$\text{Area 2} = 15 \text{ meters} \times 150 \text{ meters} = 2,250 \text{ square meters}$$

$$\text{Area 3} = \frac{3.14 \times (20)^2}{4} = 314 \text{ square meters}$$

$$\text{Total Area} = 150 + 2,250 + 314 = 2,714 \text{ square meters}$$

$$= \frac{2,714 \text{ square meters}}{10,000 \text{ square meters per hectare}} = 0.27 \text{ hectare}$$

# Sprayer Calibration



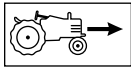
## Broadcast Application

Sprayer calibration (1) **readies your sprayer for operation** and (2) **diagnoses tip wear**. This will give you optimum performance of your TeeJet® tips.

### Equipment Needed:

- TeeJet Calibration Container
- Calculator
- TeeJet Cleaning Brush
- One new TeeJet Spray Tip matched to the nozzles on your sprayer
- Stopwatch or wristwatch with second hand

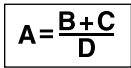
## STEP NUMBER 1



### Check Your Tractor/Sprayer Speed!

Knowing your real sprayer speed is an essential part of accurate spraying. Speedometer readings and some electronic measurement devices can be inaccurate because of wheel slippage. Check the time required to move over a 30- or 60-meter strip on your field. Fence posts can serve as permanent markers. The starting post should be far enough away to permit your tractor/sprayer to reach desired spraying speed. Hold that speed as you travel between the “start” and “end” markers. Most accurate measurement will be obtained with the spray tank half full. Refer to the table on page 124 to calculate your real speed. When the correct throttle and gear settings are identified, mark your tachometer or speedometer to help you control this vital part of accurate chemical application.

## STEP NUMBER 2



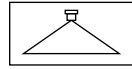
### The Inputs

Before spraying, record the following:

	EXAMPLE
Nozzle type on your sprayer. . . . .	TT11004 Flat Spray Tip
(All nozzles must be identical)	
Recommended application volume . . . . .	190 l/ha
(From manufacturer's label)	
Measured sprayer speed . . . . .	10 km/h
Nozzle spacing. . . . .	50 cm



## STEP NUMBER 3



### Calculating Required Nozzle Output

Determine l/min nozzle output from formula.

$$\text{FORMULA: } \text{l/min} = \frac{\text{l/ha} \times \text{km/h} \times \text{W}}{60,000}$$

$$\text{EXAMPLE: } \text{l/min} = \frac{190 \times 10 \times 50}{60,000}$$

**ANSWER:** 1.58 l/min

## STEP NUMBER 4



### Setting the Correct Pressure

Turn on your sprayer and check for leaks or blockage. Inspect and clean, if necessary, all tips and strainers with TeeJet brush. Replace one tip and strainer **with an identical new tip and strainer** on sprayer boom.

Check appropriate tip selection table and determine the pressure required to deliver the nozzle output calculated from the formula in Step 3 for your new tip. Since all of the tabulations are based on spraying water, conversion factors must be used when spraying solutions that are heavier or lighter than water (see page 125).

**Example:** (Using above inputs) refer to TeeJet table on page 5 for TT11004 flat spray tip. The table shows that this nozzle delivers 1.58 l/min at 3 bar.

Turn on your sprayer and adjust pressure. **Collect and measure the volume of the spray from the new tip for one minute in the collection jar.** Fine tune the pressure until you collect 1.58 l/min.

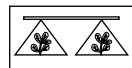
You have now adjusted your sprayer to the proper pressure. It will properly deliver the application rate specified by the chemical manufacturer at your measured sprayer speed.

## STEP NUMBER 5



### Checking Your System

**Problem Diagnosis:** Now, check the flow rate of a few tips on each boom section. If the flow rate of any tip is 10 percent greater or less than that of the newly installed spray tip, recheck the output of that tip. If only one tip is faulty, replace with new tip and strainer and your system is ready for spraying. However, if a second tip is defective, **replace all tips on the entire boom**. This may sound unrealistic, but two worn tips on a boom are ample indication of tip wear problems. Replacing only a couple of worn tips invites potentially serious application problems.



### Banding and Directed Applications

The only difference between the above procedure and calibrating for banding or directed applications is the input value used for “W” in the formula in Step 3.

For single nozzle banding or boomless applications:

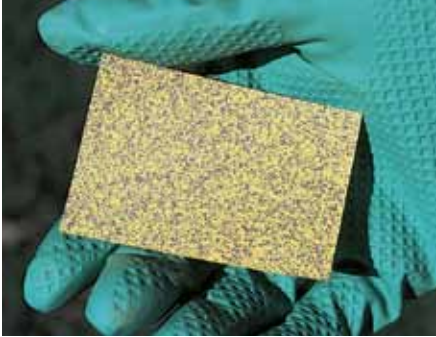
W = Sprayed band width or swath width (in cm).

For multiple nozzle directed applications:

W = Row spacing (in cm) divided by the number of nozzles per row.

$$A = \frac{B+C}{D}$$

# Calibration/Adjustment Accessories



## Water and Oil Sensitive Paper

These specially coated papers are used for evaluating spray distributions, swath widths, droplet densities and penetration of spray. Water sensitive paper is yellow and is stained blue by exposure to aqueous spray droplets. White oil sensitive paper turns black in areas exposed to oil droplets. For more information on water sensitive paper see Data Sheet 20301; for more information on oil sensitive paper see Data Sheet 20302.

Water and oil sensitive paper sold by TeeJet Technologies is manufactured by Syngenta Crop Protection AG.



WATER SENSITIVE PAPER		
PART NUMBER	PAPER SIZE	QUANTITY/PACKAGE
20301-1N	76mm x 26mm	50 cards
20301-2N	76mm x 52mm	50 cards
20301-3N	500mm x 26mm	25 strips

OIL SENSITIVE PAPER		
PART NUMBER	PAPER SIZE	QUANTITY/PACKAGE
20302-1	76mm x 52mm	50 cards

### How to order:

Specify part number.  
Example: 20301-1N  
Water Sensitive Paper

## TeeJet Tip Cleaning Brush



### How to order:

Specify part number.  
Example: CP20016-NY

## TeeJet Calibration Container



The TeeJet Calibration Container features a 68 oz. (2.0 L) capacity and a raised dual scale in both U.S. and metric graduations. The container is molded of polypropylene for excellent chemical resistance and durability.

### How to order:

Example: CP24034A-PP  
(Calibration Container only)

## TeeJet 38560 Wind Meter

- Measures wind velocity on three scales: Beaufort, MPH (miles per hour) and m/sec (meters per second).

- Wide wind velocity range.
- Compact and lightweight for convenient transport and storage.

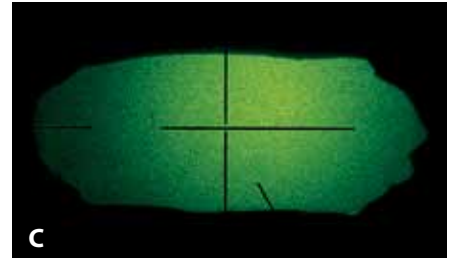
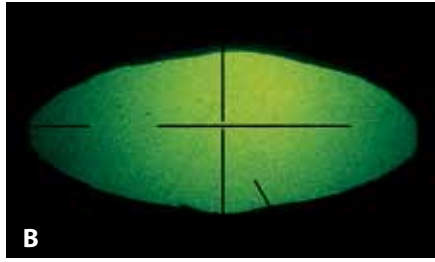
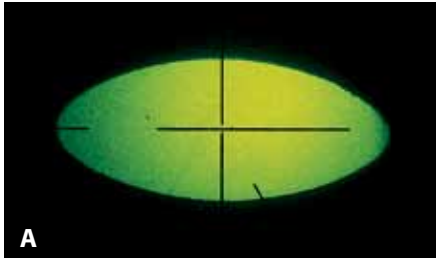
- Easy to operate and maintain.

### How to order:

Specify part number.  
Example: 38560



# Spray Tip Wear

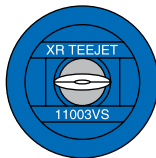


## Tips Don't Last Forever!

There is sufficient evidence that spray tips may be the most neglected component in today's farming. Even in countries with obligatory sprayer testing, spray tips are the most significant failure. On the other hand, they are among the most critical of items in proper application of valuable agricultural chemicals.

For example, a 10 percent over-application of chemical on a twice-sprayed 200-hectare farm could represent a loss of U.S. \$1,000–\$5,000 based on today's chemical investments of \$25.00–\$125.00 per hectare. This does not take into account potential crop damage.

## Spray Tip Care is the First Step to Successful Application



The successful performance of a crop chemical is highly dependent on its proper application as recommended by the chemical manufacturer. Proper selection and operation of spray nozzles are very important steps in accurate chemical application. The volume of spray passing through each nozzle plus the droplet size and spray distribution on the target can influence pest control.

Critical in controlling these three factors is the spray nozzle orifice. Careful craftsmanship

## An Inside Look at Nozzle Orifice Wear and Damage

While wear may not be detected when visually inspecting a nozzle, it can be seen when viewed through an optical comparator. The edges of the worn nozzle (B) appear more rounded than the edges of the new nozzle (A). Damage to nozzle (C) was caused by improper cleaning. The spraying results from these tips can be seen in the illustrations below.

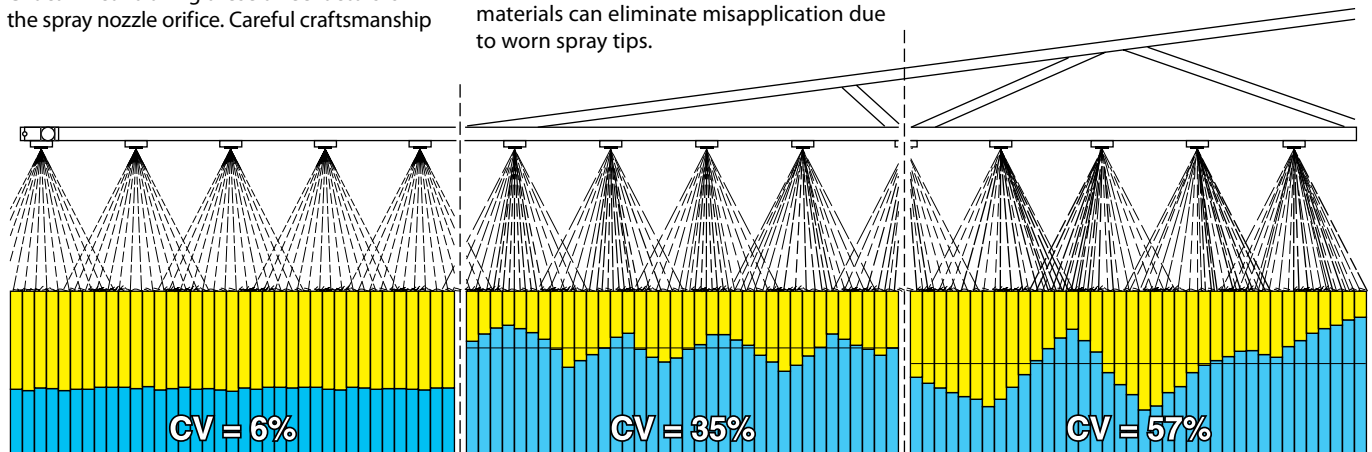
goes into the precision manufacturing of each nozzle orifice. European standards, for example the JKI, require very small flow tolerances of new nozzles (+/-5%) of nominal flow. Many TeeJet nozzle types and sizes are already JKI-approved, which confirms the high quality standard designed into TeeJet nozzles. To maintain the quality in practical spraying as long as possible, the operator's job is the proper maintenance of those spray tips.

The illustration below compares the spraying results obtained from well-maintained vs. poorly-maintained spray tips. Poor spray distribution can be prevented. Selection of longer wearing tip materials or frequent replacement of tips from softer materials can eliminate misapplication due to worn spray tips.

## Determining Tip Wear

The best way to determine if a spray tip is excessively worn is to compare the flow rate from the used tip to the flow rate of a new tip of the same size and type. Charts in this catalog indicate the flow rates for new nozzles. Check the flow of each tip by using an accurate graduated collection container, a timing device and an accurate pressure gauge mounted at the nozzle tip. Compare the flow rate of the old tip to that of the new one. Spray tips are considered excessively worn and should be replaced when their flow exceeds the flow of a new tip by 10%. Reference page 131 for more information.

Careful cleaning of a clogged spray tip can mean the difference between a clean field and one with weed streaks. Flat spray tips have finely crafted thin edges around the orifice to control the spray. Even the slightest damage from improper cleaning can cause both an increased flow rate and poor spray distribution. Be sure to use adequate strainers in your spray system to minimize clogging. If a tip does clog, only use a soft bristled brush or toothpick to clean it – never use a metal object. Use extreme care with soft tip materials such as plastic. Experience has shown that even a wooden toothpick can distort the orifice.



### NEW SPRAY TIPS

Produce a uniform distribution when properly overlapped.

### WORN SPRAY TIPS

Have a higher output with more spray concentrated under each tip.

### DAMAGED SPRAY TIPS

Have a very erratic output – overapplying and underapplying.

One of the most overlooked factors that can dramatically influence the effectiveness of a given crop production chemical is spray distribution. The uniformity of the spray distribution across the boom or within the spray swath is an essential component to achieving maximum chemical effectiveness with minimal cost and minimal non-target contamination. This is more than critical if carrier and chemical rates are applied at the recommended minimum rate. There are many other factors influencing a crop production chemical's effectiveness, such as weather, application timing, active ingredient rates, pest infestation, etc. However, an operator must become aware of spray distribution quality if maximum efficiency is expected.

## Measurement Techniques

Spray distribution can be measured in different ways. TeeJet Technologies and some sprayer manufacturers, as well as other research and testing stations, have patternators (spray tables) that collect the spray from nozzles on a standardized or real boom. These patternators have a number of channels aligned perpendicular to the nozzle spray. The channels carry the spray liquid into vessels for measuring and analysis (see photo with TeeJet patternator). Under controlled conditions, very accurate distribution measurements can be made for nozzle evaluation and development. Distribution measurements can also take place on an actual farm sprayer. For static measurements along the sprayer boom, a patternator equal or very similar to the one described earlier is placed under the boom in

a stationary position or as a small patternator unit scanning the whole boom up to a width of 50 m. Any system of patternator measures electronically the quantity of water in each channel and calculates the values. A distribution quality test gives the applicator important information about the state of the nozzles on the boom. When much more detailed information about spray quality and coverage is required, a dynamic system—spraying a tracer (dye)—can be used. The same is true if the distribution within the swath on a boom has to be measured. Currently, only a few test units worldwide have the ability to perform a stationary test. These tests usually involve shaking or moving the spray boom to simulate actual field and application conditions.

Most of the distribution measuring devices result in data points representing the sprayer's boom swath uniformity. These data points can be very revealing just through visual observation. However, for comparison reasons, a statistical method is widely accepted. This method is Coefficient of Variation (Cv). The Cv compiles all the patternator data points and summarizes them into a simple percentage, indicating the amount of variation within a given distribution. For extremely uniform distributions under accurate conditions, the Cv can be  $\leq 7\%$ . In some European countries, nozzles must conform to very strict Cv specifications, while other countries may require the sprayer's distribution to be tested for uniformity every one or two years. These types of stipulations emphasize the great importance of distribution quality and its effect on crop production effectiveness.

## Factors Affecting Distribution

There are a number of factors contributing to the distribution quality of a spray boom or resulting Cv percentage. During a static measurement, the following factors can significantly affect the distribution.

- Nozzles
  - type
  - pressure
  - spacing
  - spray angle
  - offset angle
  - spray pattern quality
  - flow rate
  - overlap
- Boom Height
- Worn Nozzles
- Pressure Losses
- Plugged Filters
- Plugged Nozzles
- Plumbing Factors Influencing Liquid Turbulence at Nozzle

Additionally, in the field during the spraying application or during a dynamic distribution test, the following can influence the distribution quality:

- Boom Stability
  - vertical movement (pitch)
  - horizontal movement (yaw)
- Environmental Conditions
  - wind velocity
  - wind direction
- Pressure Losses (sprayer plumbing)
- Sprayer Speed and Resulting Turbulence

The effect of distribution uniformity on the efficiency of a crop production chemical can vary under different circumstances. The crop production chemical itself can have dramatic influence over its efficiency. Always consult the manufacturer's chemical label or recommendation before spraying.





# Droplet Size and Drift Information

A nozzle's spray pattern is made up of numerous spray droplets of varying sizes. Droplet size refers to the diameter of an individual spray droplet.

Since most nozzles have a wide distribution of droplet sizes (otherwise known as droplet spectrum), it is useful to summarize this with statistical analysis. Most advanced drop size measuring devices are automated, using computers and high-speed illumination sources such as lasers to analyze thousands of droplets in a few seconds. Through statistics, this large volume of data can be reduced to a single number that is representative of the drop sizes contained in the spray pattern and can then be classified into droplet size classes. These classes (extremely fine, very fine, fine, medium,

coarse, very coarse, extremely coarse and ultra coarse) can then be used to compare one nozzle to another. Care must be taken when comparing one nozzle's drop size to another, as the specific testing procedure and instrument can bias the comparison.

Droplet sizes are usually measured in microns (micrometers). One micron equals 0.001 mm. The micron is a useful unit of measurement because it is small enough that whole numbers can be used in drop size measurement.

The majority of agricultural nozzles can be classified as producing either fine, medium, coarse or very coarse droplets. A nozzle with a coarse or very coarse droplet is usually selected to minimize off-target spray drift, while a nozzle with a fine droplet

is required to obtain maximum surface coverage of the target plant.

To show comparisons between nozzle types, spray angle, pressure and flow rate, refer to the droplet size classes shown in the tables on pages 136–137.

Another droplet size measurement that is useful for determining a nozzle's drift potential is the percentage of driftable fines. Since the smaller droplets have a greater tendency to move off-target, it makes sense to determine what the percentage of small droplets is for a particular nozzle in order to minimize it when drift is a concern. Droplets below 150 microns are considered potential drift contributors. The table below shows several nozzles and their percentage of driftable fines.

TeeJet Technologies uses the most advanced measuring instrumentation (PDPA and Oxford lasers) to characterize sprays, obtaining droplet size and other important information. For the latest accurate information about nozzles and their droplet size, please contact your nearest TeeJet representative.



## Driftable Droplets\*

NOZZLE TYPE (1.16 l/min FLOW)	APPROXIMATE PERCENT OF SPRAY VOLUME LESS THAN 150 MICRONS	
	1.5 bar	3 bar
XR-Extended Range TeeJet (110°)	16%	32%
TT-Turbo TeeJet (110°)	4%	13%
TTJ60- Turbo TwinJet (110°)	3%	10%
TF-Turbo FloodJet	2%	7%
AIXR-Air Induction XR (110°)	2%	7%
AITTJ60-Air Induction Turbo TwinJet (110°)	1%	6%
AI-Air Induction TeeJet (110°)	N/A	5%
TTI-Turbo TeeJet Induction (110°)	<1%	2%

\*Data obtained from Oxford VisiSizer system spraying water at 70°F (21°C) under laboratory conditions.



$$A = \frac{B+C}{D}$$

# Drop Size Classification

Nozzle selection is often based upon droplet size. The droplet size from a nozzle becomes very important when the efficacy of a particular plant protection chemical is dependent on coverage, or the prevention of spray leaving the target area is a priority.

The majority of the nozzles used in agriculture can be classified as producing droplets in the range of fine to ultra coarse droplets. Nozzles that produce droplets in the finer to middle portion of the range are usually recommended for post-emergence contact applications, which require excellent coverage on the intended target area. This may include herbicides, insecticides and fungicides. Nozzles producing droplets

from the middle to coarser end of the range, while offering less thorough surface coverage, provide significantly improved drift control. These nozzles are commonly used for systemic and pre-emergence surface applied herbicides.


An important point to remember when choosing a spray nozzle that produces a droplet size in one of the eight categories is that one nozzle can produce different droplet size classifications at different pressures. A nozzle might produce medium droplets at low pressures, while producing fine droplets as pressure is increased.

Droplet size classes are shown in the following tables to assist in choosing an appropriate spray tip.


Category	Symbol	Color Code	Approximate Dv0.5 (VMD) (microns)
Extremely Fine	XF	Purple	≈50
Very Fine	VF	Red	<136
Fine	F	Orange	136-177
Medium	M	Yellow	177-218
Coarse	C	Blue	218-349
Very Coarse	VC	Green	349-428
Extremely Coarse	XC	White	428-622
Ultra Coarse	UC	Black	>622

Droplet size classifications are based on BCPC specifications and in accordance with ASABE Standard S572.1 at the date of printing. Classifications are subject to change.


## Turbo TwinJet® (TTJ60)

	bar									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TTJ60-11002	C	C	C	C	M	M	M	M	M	M
TTJ60-110025	VC	C	C	C	C	C	C	M	M	M
TTJ60-11003	VC	C	C	C	C	C	C	C	M	M
TTJ60-11004	VC	C	C	C	C	C	C	C	C	M
TTJ60-11005	VC	C	C	C	C	C	C	C	C	C
TTJ60-11006	XC	VC	C	C	C	C	C	C	C	C


## AIXR TeeJet® (AIXR)

	bar										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
AIXR110015	XC	VC	VC	C	C	C	C	M	M	M	M
AIXR11002	XC	XC	VC	VC	C	C	C	C	C	M	M
AIXR110025	XC	XC	XC	VC	VC	C	C	C	C	C	C
AIXR11003	XC	XC	XC	VC	VC	C	C	C	C	C	C
AIXR11004	UC	XC	XC	XC	VC	VC	VC	C	C	C	C
AIXR11005	UC	XC	XC	XC	XC	VC	VC	VC	C	C	C
AIXR11006	UC	XC	XC	XC	XC	VC	VC	VC	C	C	C


## Turbo TeeJet® (TT)

	bar										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TT11001	C	M	M	M	F	F	F	F	F	F	F
TT110015	C	C	M	M	M	M	M	F	F	F	F
TT11002	C	C	C	M	M	M	M	M	M	M	F
TT110025	VC	C	C	M	M	M	M	M	M	M	M
TT11003	VC	C	C	C	C	M	M	M	M	M	M
TT11004	XC	VC	C	C	C	C	C	C	M	M	M
TT11005	XC	VC	VC	VC	C	C	C	C	C	M	M
TT11006	XC	VC	VC	VC	C	C	C	C	C	C	M
TT11008	XC	XC	VC	VC	C	C	C	C	C	C	M


## AI TeeJet (AI) and AIC TeeJet (AIC)

	bar											
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	8
AI110015	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C	C
AI11002	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C	C
AI110025	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11003	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11004	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11005	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11006	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	VC	C
AI11008	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AI11010	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AI11015	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C


## Air Induction Turbo TwinJet (AITTJ60)

	bar										
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7
AITTJ60-11002	XC	VC	VC	VC	C	C	C	C	C	C	M
AITTJ60-110025	XC	VC	VC	VC	C	C	C	C	C	C	M
AITTJ60-11003	UC	XC	XC	VC	VC	VC	C	C	C	C	C
AITTJ60-11004	UC	XC	XC	VC	VC	VC	C	C	C	C	C
AITTJ60-11005	UC	XC	XC	XC	VC	VC	VC	C	C	C	C
AITTJ60-11006	UC	XC	XC	XC	VC	VC	VC	C	C	C	C


## Turbo TeeJet Induction (TTI)

	bar											
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7
TTI110015	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC	XC	XC
TTI11002	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC
TTI110025	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC
TTI11003	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC
TTI11004	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC
TTI11005	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC
TTI11006	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC


### XR TeeJet® (XR) and XRC TeeJet (XRC)

	bar						
	1	1.5	2	2.5	3	3.5	4
XR8001	M	F	F	F	F	F	F
XR80015	M	M	F	F	F	F	F
XR8002	M	M	M	M	F	F	F
XR8003	M	M	M	M	M	M	M
XR8004	C	M	M	M	M	M	M
XR8005	C	C	C	M	M	M	M
XR8006	C	C	C	C	C	C	C
XR8008	VC	VC	C	C	C	C	C
XR11001	F	F	F	F	F	VF	VF
XR110015	F	F	F	F	F	F	F
XR11002	M	F	F	F	F	F	F
XR110025	M	M	F	F	F	F	F
XR11003	M	M	F	F	F	F	F
XR11004	M	M	M	M	M	F	F
XR11005	C	M	M	M	M	M	M
XR11006	C	C	M	M	M	M	M
XR11008	C	C	C	C	M	M	M
XRC11010	VC	C	C	C	C	C	M
XRC11015	XC	VC	VC	VC	C	C	C
XRC11020	XC	XC	XC	VC	VC	VC	VC


### TeeJet® (TP)

	bar				
	2	2.5	3	3.5	4
TP8001	F	F	F	F	F
TP80015	F	F	F	F	F
TP8002	M	M	F	F	F
TP8003	M	M	M	M	M
TP8004	M	M	M	M	M
TP8005	C	M	M	M	M
TP8006	C	C	C	C	C
TP8008	C	C	C	C	C
TP11001	F	F	F	VF	VF
TP110015	F	F	F	F	F
TP11002	F	F	F	F	F
TP11003	F	F	F	F	F
TP11004	M	M	M	F	F
TP11005	M	M	M	M	M
TP11006	M	M	M	M	M
TP11008	C	C	M	M	M


### TurfJet (TTJ)

	bar						
	1.5	2	3	3.5	4	4.5	5
1/4TTJ02	UC	UC	XC	XC	XC	XC	XC
1/4TTJ04	UC	UC	UC	UC	UC	UC	UC
1/4TTJ05	UC	UC	UC	UC	UC	UC	UC
1/4TTJ06	UC	UC	UC	UC	UC	UC	UC
1/4TTJ08	UC	UC	UC	UC	UC	UC	UC
1/4TTJ10	UC	UC	UC	UC	UC	UC	UC
1/4TTJ15	UC	UC	UC	UC	UC	UC	UC


### Turbo FloodJet® (TF)

	bar				
	1	1.5	2	2.5	3
TF-2	UC	XC	XC	XC	VC
TF-2.5	UC	UC	XC	XC	XC
TF-3	UC	UC	XC	XC	XC
TF-4	UC	UC	UC	XC	XC
TF-5	UC	UC	UC	UC	XC
TF-7.5	UC	UC	UC	UC	XC
TF-10	UC	UC	UC	UC	XC


### DG TwinJet (DGTJ60)

	bar				
	2	2.5	3	3.5	4
DGTJ60-110015	F	F	F	F	F
DGTJ60-11002	M	M	F	F	F
DGTJ60-11003	C	M	M	M	M
DGTJ60-11004	C	C	C	C	C
DGTJ60-11006	C	C	C	C	C
DGTJ60-11008	C	C	C	C	C


### TwinJet® (TJ)

	bar				
	2	2.5	3	3.5	4
TJ60-6501	F	VF	VF	VF	VF
TJ60-650134	F	F	F	VF	VF
TJ60-6502	F	F	F	F	F
TJ60-6503	M	F	F	F	F
TJ60-6504	M	M	M	M	F
TJ60-6506	M	M	M	M	M
TJ60-6508	C	C	M	M	M
TJ60-8001	VF	VF	VF	VF	VF
TJ60-8002	F	F	F	F	F
TJ60-8003	F	F	F	F	F
TJ60-8004	M	M	F	F	F
TJ60-8005	M	M	M	F	F
TJ60-8006	M	M	M	M	M
TJ60-8008	C	M	M	M	M
TJ60-8010	C	C	C	M	M
TJ60-11002	F	VF	VF	VF	VF
TJ60-11003	F	F	F	F	F
TJ60-11004	F	F	F	F	F
TJ60-11005	M	M	F	F	F
TJ60-11006	M	M	M	F	F
TJ60-11008	M	M	M	M	M
TJ60-11010	M	M	M	M	M

### DG TeeJet® (DG E)

	bar				
	2	2.5	3	3.5	4
DG95015E	M	M	F	F	F
DG9502E	M	M	M	M	M
DG9503E	C	M	M	M	M
DG9504E	C	C	M	M	M
DG9505E	C	C	C	M	M

### DG TeeJet (DG)

	bar				
	2	2.5	3	3.5	4
DG80015	M	M	M	M	F
DG8002	C	M	M	M	M
DG8003	C	M	M	M	M
DG8004	C	C	M	M	M
DG8005	C	C	C	M	M
DG110015	M	F	F	F	F
DG11002	M	M	M	M	M
DG11003	C	M	M	M	M
DG11004	C	C	M	M	M
DG11005	C	C	C	M	M

# Drift Causes and Control



Figure 1. This is not what crop protection should look like!

When applying crop protection chemicals, spray drift is a term used for those droplets containing the active ingredients that are not deposited on the target area. The droplets most prone to spray drift are usually small in size, less than 200  $\mu\text{m}$  micron in diameter and easily moved off the target area by wind or other climatic conditions. Drift can cause crop protection chemicals to be deposited in undesirable areas with serious consequences, such as:

- Damage to sensitive adjoining crops.
- Surface water contamination.
- Health risks for animals and people.
- Possible contamination to the target area and adjacent areas or possible over-application within the target area.

## Causes of Spray Drift

A number of variables contribute to spray drift; these are predominantly due to the spray equipment system and meteorological factors.

### ■ Droplet Size

Within the spray equipment system, drop size is the most influential factor related to drift.

When a liquid solution is sprayed under pressure it is atomized into droplets of varying sizes: **The smaller the nozzle size and the greater the spray pressure, the smaller the droplets and therefore the greater the proportion of driftable droplets.**

### ■ Spray Height

As the distance between the nozzle and the target area increases, the greater impact wind velocity can have on drift. The influence of wind can increase the proportion of smaller drops being carried off target and considered drift.

**Do not spray at greater heights than those recommended by the spray tip manufacturer, while taking care not to spray below the minimum recommended heights. (Optimum spray height 75 cm for 80° spray tips, 50 cm for 110° spray tips.)**

### ■ Operating Speed

Increased operating speeds can cause the spray to be diverted back into upward wind currents and vortices behind the sprayer, which traps small droplets and can contribute to drift.

**Apply crop protection chemicals according to good, professional practices at maximum operating speeds of 6 to 8 km/h (with air induction type nozzles—up to 10 km/h). As wind velocities increase, reduce operating speed.\***

\* Liquid fertilizer applications using the TeeJet® tips with very coarse droplets can be performed at higher operating speeds.

### ■ Wind Velocity

Among the meteorological factors affecting drift, wind velocity has the greatest impact. Increased wind speeds cause increased spray drift. It is common knowledge that in most parts of the world the wind velocity is variable throughout the day (see Figure 2). Therefore, it is important for spraying to take place during the relatively calm hours of the day. The early morning and early evening are usually the most calm. **Refer to chemical label for velocity recommendations.** When spraying with traditional techniques the following rules-of-thumb apply:

In low wind velocity situations, spraying can be performed at recommended nozzle pressures.

As wind velocities increase up to 3 m/s, spray pressure should be reduced and nozzle size increased to obtain larger droplets that are less prone to drift. Wind measurements should be taken throughout the spraying operation with a wind meter or anemometer. As the risk of spray drift increases, selecting designed to more coarse droplets that are less prone to drift is extremely important. Some such TeeJet nozzles that fit into this category are: DG TeeJet®, Turbo TeeJet®, AI TeeJet, Turbo TeeJet Induction, and AIXR TeeJet.

When wind velocities exceed 5 m/s (11 MPH), spraying operation should not be performed.

### ■ Air Temperature and Humidity

In ambient temperatures over 25°C/77°F with low relative humidity, small droplets are especially prone to drift due to the effects of evaporation.

**High temperature during the spraying application may necessitate system changes, such as nozzles that produce a coarser droplet or suspending spraying.**

### ■ Crop Protection Chemicals and Carrier Volumes

Before applying crop protection chemicals, the applicator should read and follow all instructions provided by the manufacturer. Since extremely low carrier volume usually necessitates the use of small nozzle sizes, the drift potential is increased. As high a carrier volume as practical is recommended.

## Application Regulations for Spray Drift Control

In several European countries, regulatory authorities have issued application regulations in the use of crop protection chemicals to protect the environment. In order to protect the surface waters and the field buffer areas (examples are: hedges and grassy areas of a certain width) distance requirements must be kept because of spray drift. Inside the European Union (EU) there is a directive for the harmonization of crop protection chemicals in regard to environmental protection. In this respect the procedures that have been implemented in Germany, England and the Netherlands will be established in other EU countries in the coming years.

To reach the objectives for environmental protection, spray drift reducing measures have been integrated as a central instrument in the practice of risk evaluation. For example, buffer zones may be reduced in width if certain spraying techniques or equipment are used that have been approved and certified by certain regulatory agencies. Many of the TeeJet nozzles designed for reducing spray drift have been approved and certified in several EU countries. The certification of those registrars fits into a drift reduction category, such as 90%, 75%, or 50% (90/75/50) control of drift (see page 186). This rating is related to the comparison of the BCPC reference nozzle capacity of 03 at 3 bar.

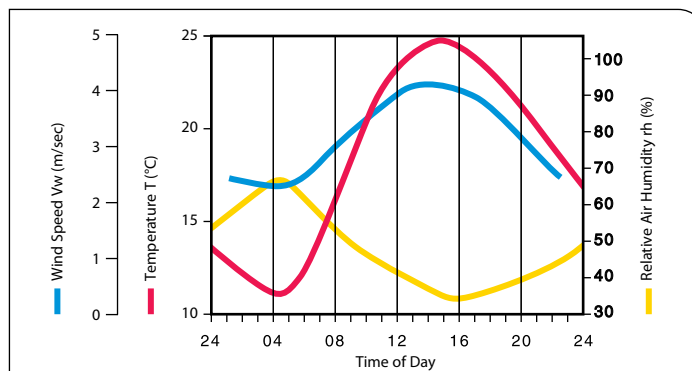


Figure 2. Development of wind velocity, air temperature and relative air humidity (example). From: Malberg

## Nozzles for Spray Drift Control

Drift potential can be minimized even when it is necessary to use small nozzle capacities by selecting nozzle types that produce larger Volume Median Diameter (VMD) droplets and a lower percentage of small droplets. Figure 4 is an example showing VMD's produced by nozzles of identical flow rates (size 11003) which produce coarser droplets than an XR TeeJet and then larger droplets in sequence; TT/TTJ60, AIXR, AI, AITTJ60 and TTI. TTI nozzles produce the coarsest droplet size spectrum of this group. When operating at a pressure of 3 bar (50 PSI) and 7 km/h (5 MPH) ground speed, the application rate is 200 l/ha (20 MPH). At the same time, the observation is that the VMD increases significantly from the XR to the TTI. This shows that it is possible to cover the entire droplet size spectrum from very fine to extremely coarse droplets by using different types of nozzles. While susceptibility to drift decreases when droplets become larger, the number of droplets available may lead to less uniform coverage. To compensate for this drawback and for the chemical to be effective, it is necessary to apply the optimum pressure range specified for a particular type of nozzle. If applicators comply with the parameters set by the manufacturers, they will always cover 10–15% of the target surface on average, which is not least attributed to the fact that less drift translates into more effective

coverage. Figure 4 shows the VMD curves by nozzle type indicating the optimum pressure ranges for the individual nozzles which should be selected with respect to both effective drift control and effect of the chemical. When the focus is on drift control, TT, TTJ60 and AIXR are operated at pressures of less than 2 bar (29.5 PSI). Yet, where maximum effect is critical, the nozzles are operated at pressures between 2 bar (29.5 PSI) and 3.5 bar (52 PSI) or even higher in specific conditions. These pressure ranges do not apply to AI and TTI, which operate at less than 3 bar (43.5 PSI) when drift control is critical and always at 4 bar (58 PSI) and 7 bar (101.5 PSI) and even 8 bar (116 PSI) when the emphasis is on chemical affect. Therefore, for applicators to select the correct nozzle size it is necessary to consider the spray pressure at which a chemical is most effective. With this, they simply have to reduce pressure and ground speed to comply with statutory buffer strip requirements. It is down to the conditions prevailing at the individual farm (location of the field, number of water bodies, type of chemical applied, etc.) whether they should choose a TeeJet nozzle that reduces drift by 50%, 75% or 90%. On principle, applicators should use 75% or 90% drift control nozzles (extremely coarse droplets) only when spraying near field boundaries and 50% or less TeeJet nozzles in all other areas of the field.

While the classic XR TeeJet orifice provides two functions; metering the volume flow rate and distributing and creating the droplets, all other nozzle types discussed above use a pre-orifice for metering while distribution and droplet creation takes place at the exit orifice (Fig. 3). Both functions and devices relate to each other with respect to geometry and spacing and interact with respect to the droplet size produced. The TT, TTJ60, AITTJ60 and TTI nozzles force the

liquid to change direction after it has passed the pre-orifice, forcing it into a horizontal chamber and to change direction again into the nearly vertical passage in the orifice itself (global patent). The AI, AITTJ60, AIXR and TTI air induction nozzles operate on the Venturi principle, where the pre-orifice generates a higher-velocity stream, aspirating air through the side holes. This specific air / liquid mix creates more coarse droplets that are filled with air, depending on the chemical used.

## Summary

Successful drift management centers on sound knowledge about drift contributing factors and the use of drift control, TeeJet nozzles. To strike a sound balance between successful chemical application and environmental protection, applicators should use approved broadcast TeeJet nozzles that are classified as drift control and operate these within the pressure ranges that ensure chemical effectiveness; i.e. set nozzles to 50% drift control or less. The following list shows all the relevant factors that need to be considered, optimized or applied to achieve effective drift control:

- Low-Drift TeeJet nozzles
- Spraying pressure and droplet size
- Application rate and nozzle size
- Spraying height
- Forward speed
- Wind velocity
- Ambient temperature and relative humidity
- Buffer strips (or apply options that allow reducing the width of buffer strips)
- Compliance with manufacturer instructions

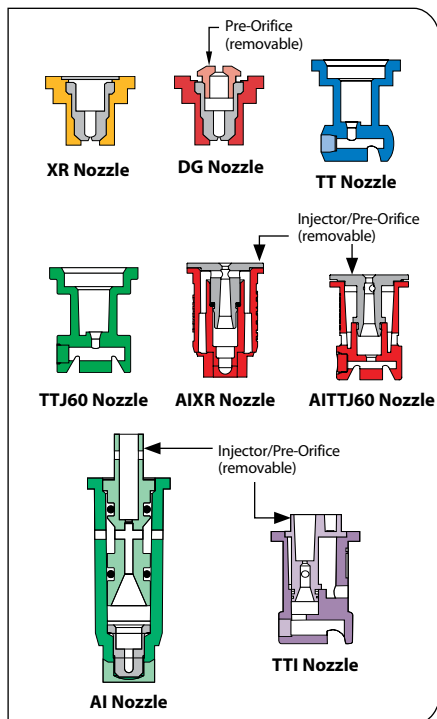


Figure 3: XR, DG, TT, AIXR, AI, AITTJ60, TTJ60 and TTI nozzles (sectional drawings).

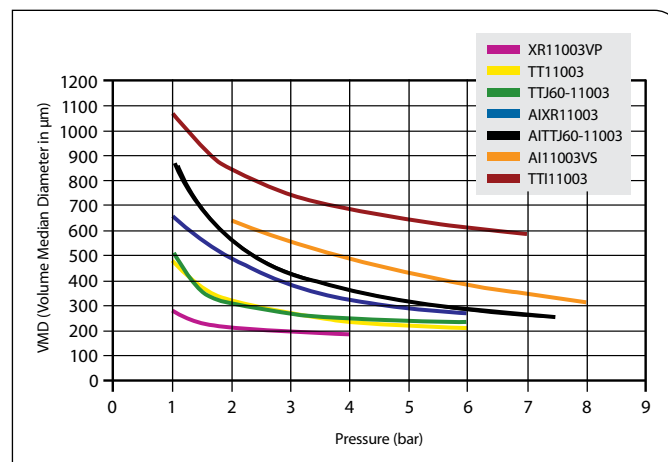


Figure 4. Volumetric droplet diameters of XR, TT, TTJ60, AIXR, AI, AITTJ60 and TTI nozzles relative to pressure

Measurement conditions:  
 – Continuous Oxford Laser measurement across the full width of the flat spray  
 – Water temperature 21 °C

# Assessment of Nozzle Drift Control in Europe

Several European countries now consider it important to assess nozzles for spray drift control as this enables general cooperation between agriculture, nature conservation and environmental protection. Although spray pattern distribution testing has been carried out for several decades (see page 134), preliminary assessment criteria for drift control during chemical applications were first defined in the 1980's and 1990's. A minimum value was determined for the small droplet ratio ( $D_{v0.1}$ ) of nozzles. The development of the XR TeeJet® nozzles, together with the first generation of drift control nozzles (DG TeeJet®), achieved significant advances in crop protection technology. However, these proved insufficient as environmental regulations on chemical application became more and more restrictive. Stricter requirements for buffer strips to protect surface water and sensitive areas around fields in particular have led to the development of a program that assesses nozzle drift control as well as to innovative nozzles producing larger droplet sizes. While nozzle development is described on pages 138 and 139, priority here is given to describing drift control evaluation programs.

## Drift control assessment systems in Europe

Countries such as the UK, the Netherlands and Germany do not use standardized systems for measuring reduction in drift. However, one aspect shared by all systems is they all use a reference system based on the 03 nozzle specified in the BCPC droplet size classification scheme at 43.5 PSI (3 bar) pressure and at a spray height of 19.7" (50 cm) above the target surface. Drift from this nozzle is defined as 100%. The drift control levels from other nozzle types at the same pressure are compared with this reference nozzle. For example, a nozzle categorized as 50% produces at least 50% less drift than the reference nozzle. The countries mentioned above have compiled corresponding percentage drift control categories, which vary from one another in some areas and are valid only at a national level.

While in Germany drift control categories of 50% / 75% / 90% / 99% apply, they are categorized as 50% / 75% / 90% / 95% in the Netherlands and as 25% / 50% / 75% in the UK. Furthermore, the same nozzle type and size operated at the same pressure may be categorized as 50% in country A and 75% in country B. This is due to different methods of measurement and calculation. The future may lead to international standardization emerging over the next few years as a result of approaching EU harmonization. At present, TeeJet Technologies is obliged to test new developments and have them assessed in each of these countries to verify the effectiveness of the technical advances so farmers can use our products without fearing conflict with the government.

## The system in Germany

In Germany, the Julius Kühn Institute-Federal Research Institute for Cultivated Plants (JKI), is responsible for testing nozzles for agricultural use. Drift measurements are taken in the field under the most standardized conditions possible for temperature, wind direction, wind velocity and forward speed. This method is mandatory for testing air-assisted sprayers and their affect on nozzles used on permanent crops such as orchards and vineyards. Thanks to field measurements recorded over many years and their high correlation with temperature-controlled wind tunnel measurements, drift measurements on agricultural nozzles can now also be conducted at the JKI wind tunnel in absolutely standardized conditions. In all cases, tracer methods are used to quantify droplets of a high detection limit on artificial collectors and feed the data into a "DIX model" (drift potential index). This gives DIX values expressed as categories in the percentage drift reduction classes.

## The system in the UK

The UK currently uses only one assessment system for agricultural nozzles. The Pesticide Safety Directorate (PSD) evaluates data recorded in the wind tunnel, but in contrast to the JKI, it records the droplets landed on horizontal collectors. The climatic conditions are standardized as well. The test nozzle is compared with the BCPC reference nozzle and awarded a corresponding star rating where one

star equates to drift levels up to 75%, two stars up to 50% and three stars up to 25% of those of the reference system.

## The system in the Netherlands

Although the Dutch have used an assessment system for agricultural nozzles for several years (Lozingenbesluit Open Teelten Veehouderij/ Water Pollution Act, Sustainable Crop Protection), they are about to introduce a system for nozzles used in orchard spraying. Agrotechnology & Food Innovations B.V. (WageningenUR) is in charge of the measurements. A Phase Doppler Particle Analyzer (PDPA laser) is used to investigate the droplets and droplet speed from a nozzle offering the following characteristics:  $D_{v0.1}$ , VMD,  $D_{v0.9}$  and volume fraction <100µm. The data collected is then fed into the IDEFICS model. The calculation also factors in a reference crop and stage, a buffer strip in the field, forward speed and defined weather conditions to arrive at a percentage nozzle classification for the particular spray pressure under examination. Approval bodies such as CTB (75% / 90% / 95%) and RIZA (50%) publish the classifications.

## Benefits and options for users

The use of drift control nozzles brings significant benefits to users in the countries listed, as well as others around the world. Depending on the location of the fields relative to environmentally sensitive areas such as surface water and field boundaries, applicators can reduce the width of buffer strips, as stipulated by the relevant restrictions in association with the approval of the chemical (e.g. 20 meter no-spray buffer strips). Consequently, it is possible to apply chemicals subject to restrictions in field margins near surface water etc., provided that the user complies with the national application regulations. If the directions of use for a particular product require a 75% reduction of drift, allowing for carrier volume and travel speed, it will be necessary to use a nozzle with a 75% drift control classification and operate it at the spray pressure specified. As a general rule, forward speed can be optimized so that the same nozzle can be used near the field boundaries as well as within the middle of the applied field area. With this, the carrier volume remains constant in different situations. Since it is possible to define minimum buffer strip widths for all applications at a national level as well, these must always be considered on a case by case basis.

In general, for successful crop protection, it is necessary to select nozzles of a high percentage classification (75% or higher) only in those situations where statutory buffer strip requirements apply. Otherwise, we suggest using nozzles at a spray pressure achieving a 50% drift control or using non-classified nozzles.

For further information about the low-drift categories of TeeJet nozzles, contact your TeeJet representative or go to [www.teejet.com](http://www.teejet.com).

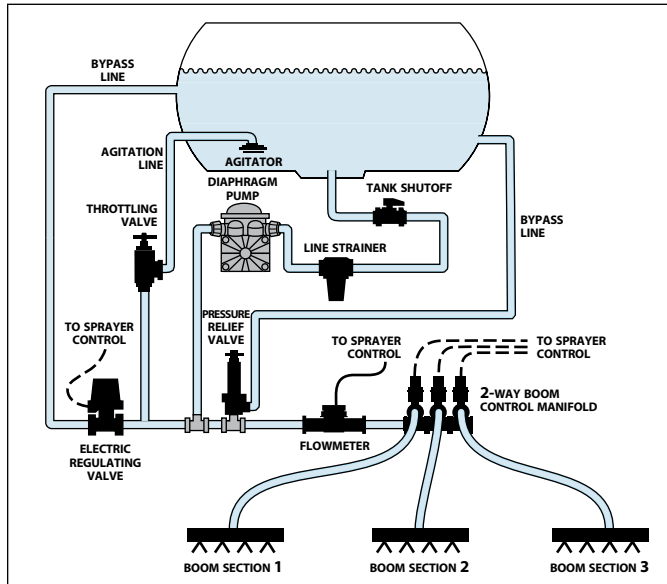


# Plumbing Diagrams

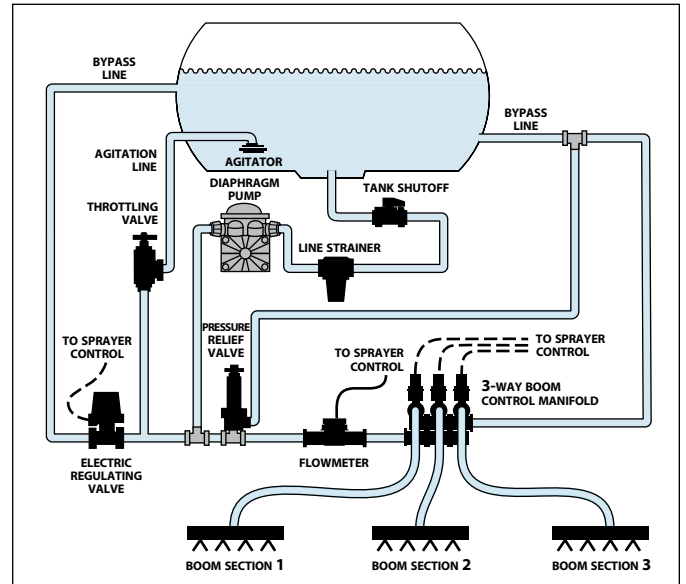
The following diagrams have been developed to serve as a guideline for plumbing agricultural sprayers. Similar manual valves may be substituted for electric valves. However, the sequence in which these valves occur should remain the same. Note that one of the most common causes of premature valve failure is improper installation.

## Positive Displacement Pump

Piston, roller and diaphragm pumps are all types of positive displacement pumps. This means that pump output is proportional to speed and virtually independent of pressure. A key component in a positive displacement system is the pressure relief valve. Proper placement and sizing of the pressure relief valve is essential for safe and accurate operation of a positive displacement pump.



**Two-Way Plumbing Diagram (Positive Displacement)**

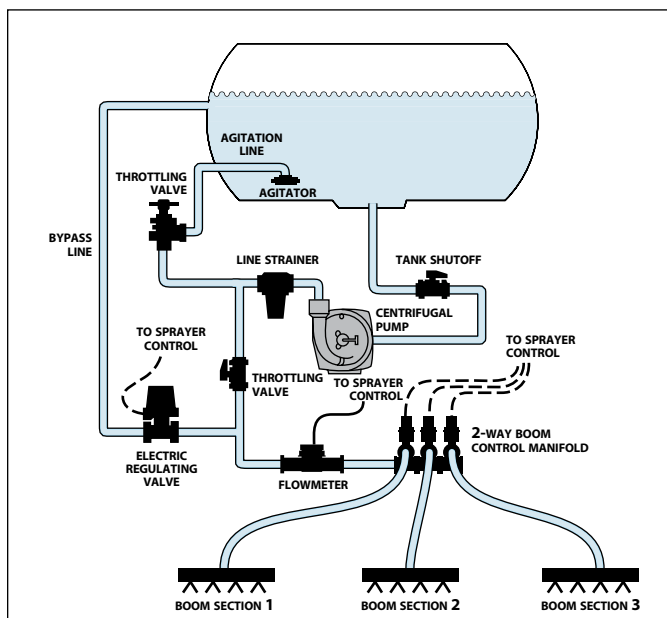


**Three-Way Plumbing Diagram (Positive Displacement)**

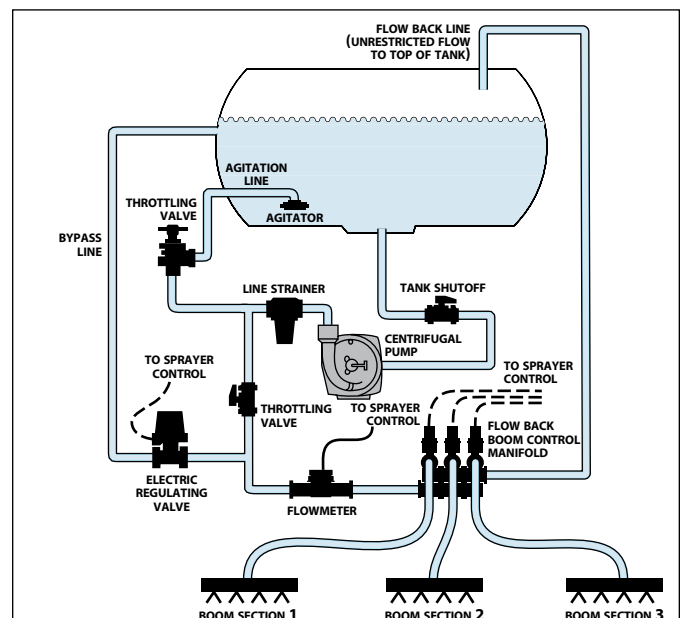
## Non-Positive Displacement Pump

The centrifugal pump is the most common non-positive displacement pump. The output from this type of pump is influenced by pressure. This pump is ideal for delivering large volumes of liquid

at low pressures. A key component of the centrifugal pump is the throttling valve. A manual throttling valve on the main output line is essential for the accurate operation of the centrifugal pump.



**Two-Way Plumbing Diagram (Non-Positive Displacement)**

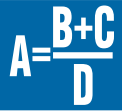


**Flow Back Plumbing Diagram (Non-Positive Displacement)**









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At TeeJet Technologies our single focus is on application technology. Our company and our products have been part of agricultural applications since the first crop protection products came onto the market in the 1940's. Innovative, industry-leading solutions in the fields of spraying, fertilizing and seeding are what you've come to expect from TeeJet, and we are constantly developing the products and technologies to help you take your business to the next level.

### FLOW BACK VALVES

Our Flow Back valves are improving the accuracy of spraying operations in a broad range of applications. The patented Flow Back feature provides rapid shutoff of spray tips when boom sections are shutoff. These valves eliminate the five second, ten second or even longer shutoff delay common on sprayers equipped with standard valves.



### AIR INDUCTION TURBO TWINJET® TWIN FLAT SPRAY TIPS

The AITJT60-VP is a flat pattern spray tip utilizing air induction technology to provide larger droplet sizes to reduce off-target drift. With matching forward and rearward facing spray patterns, it is an ideal spray tip for postemergence applications requiring a combination of coverage, penetration and minimal spray drift.



### E-CHEMSAVER® ELECTRIC TIP SHUTOFF

Positive, drip-free spray tip shutoff saves product and prevents damage caused by overspray. TeeJet Technologies e-ChemSaver electric tip shutoff utilizes a solenoid design for rapid response and low current draw. This simple, compact design is ideal for a variety of sprayer applications.



### STREAMJET NOZZLES

StreamJet nozzles are offered in multiple sizes and configurations to provide precise fertilizer metering and uniform distribution while minimizing leaf burn. Imprecise fertilizer application can be very costly in terms of yield loss, wasted product and environmental concerns. TeeJet Technologies StreamJet nozzles offer the ideal blend of compact size, affordability, ease of installation and superior performance in the field.



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LI-51-M