



TeeJet®

Catalog 50-M

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

www.teejet.com

TeeJet Technologies
A Spraying Systems Company



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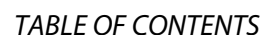
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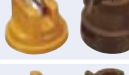
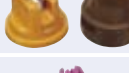
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TeeJet®

Broadcast Nozzle Selection Guide

	SOIL APPLIED	HERBICIDES		FUNGICIDES	
		POST-EMERGENCE		CONTACT	SYSTEMIC
		CONTACT	SYSTEMIC		
 Turbo TeeJet™ Reference page 9		VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD
 Turbo TeeJet™ at pressures below 30 PSI (2.0 bar) Reference page 9	GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT
 Turbo TwinJet™ Reference page 10	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
 Turbo TwinJet™ at pressures below 30 PSI (2.0 bar) Reference page 10	VERY GOOD	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo TeeJet™ Induction Reference page 11	EXCELLENT		EXCELLENT		EXCELLENT
 XR, XRC TeeJet™ Reference page 12–13		EXCELLENT	GOOD	EXCELLENT	GOOD
 XR, XRC TeeJet™ at pressures below 30 PSI (2.0 bar) Reference page 12–13	GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
 AIXR TeeJet™ Reference page 14	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT
 AI, AIC TeeJet™ Reference page 15–16	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT
 TwinJet™ Reference page 17		EXCELLENT		EXCELLENT	
 DG TwinJet™ Reference page 18	VERY GOOD	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo TeeJet™ Duo Reference page 19		EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
 Turbo TeeJet™ Duo at lower pressures Reference page 19	VERY GOOD	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo FloodJet™ Reference page 23	EXCELLENT		VERY GOOD		VERY GOOD
 TurfJet™ Reference page 24	EXCELLENT		EXCELLENT		EXCELLENT
 QCTF Turbo FloodJet™ Reference page 25	EXCELLENT				
 AirMatic AirJet™ Reference page 137	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

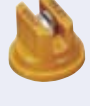
Note: Consult the chemical manufacturer's product label for specific rate and application recommendations.



INSECTICIDES		DRIFT MANAGEMENT	SPRAY ANGLE	TIP CAPACITIES	 VISIFLO [®] POLYMER VP	 VISIFLO CERAMIC VK	 VISIFLO STAINLESS STEEL VS	 STAINLESS STEEL SS
CONTACT	SYSTEMIC							
VERY GOOD	VERY GOOD	VERY GOOD	110°	01-08	•			
GOOD	EXCELLENT	VERY GOOD						
EXCELLENT	EXCELLENT	VERY GOOD	110°	02-06	•			
VERY GOOD	EXCELLENT	EXCELLENT						
	EXCELLENT	EXCELLENT	110°	015-06	•			
EXCELLENT	GOOD	GOOD	XR 80°, XR 110°	01-15	110°	•	•	•
GOOD	VERY GOOD	VERY GOOD	XRC 80°, XRC 110°	015-08	110°	•	•	
GOOD	EXCELLENT	EXCELLENT	110°	015-06	•			
GOOD	EXCELLENT	EXCELLENT	AI 110°	015-08			•	
			AIC 110°	015-10	•	•	•	
EXCELLENT			65°, 80°, 110°	01-10			•	
VERY GOOD	EXCELLENT	VERY GOOD	110°	015-08			•	
EXCELLENT	EXCELLENT	VERY GOOD	110°	01-08	•			
VERY GOOD	EXCELLENT	EXCELLENT						
	VERY GOOD	EXCELLENT	140°– 150°	02-10	•		•	
	EXCELLENT	EXCELLENT	140°–150°	02-15	•		•	
		EXCELLENT	150°	15-120			•	
EXCELLENT	EXCELLENT	EXCELLENT	CONTACT YOUR REGIONAL SALES OFFICE FOR ADDITIONAL INFORMATION					



TeeJet® Specialty Application Nozzle Selection Guide

		HERBICIDES			FUNGICIDES		INSECTICIDES	
		PRE-EMERGENCE	POST-EMERGENCE		CONTACT	SYSTEMIC	CONTACT	SYSTEMIC
			CONTACT	SYSTEMIC				
BANDING	 AI TeeJet[®] EVEN Reference page 37	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 TeeJet[®] EVEN Reference page 39	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD
	 TwinJet[®] EVEN Reference page 40		EXCELLENT		EXCELLENT		EXCELLENT	
DIRECTED SPRAYING	 AI TeeJet[®] EVEN Reference page 37	VERY GOOD	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 TeeJet[®] EVEN Reference page 39	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
	 TwinJet[®] EVEN Reference page 40		VERY GOOD		VERY GOOD		VERY GOOD	
	 AIUB TeeJet[®] Reference page 41		GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
	 ConeJet[®] Reference page 43–45		EXCELLENT		EXCELLENT		EXCELLENT	
MECHANICAL AIR ASSISTED	 ConeJet[®] Reference page 43–45		EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
	 Disc-Core[®] Reference page 46–47		EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD

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

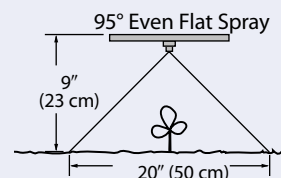
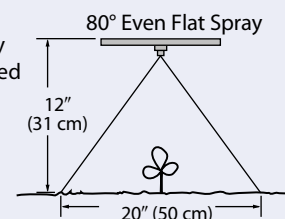


SPRAY ANGLE	TIP CAPACITY	 VISIFLO® CERAMIC VK	 VISIFLO STAINLESS STEEL VS	 STAINLESS STEEL SS	 HARDENED STAINLESS STEEL HSS
95°	015-08		•		
40°, 65°, 80°, 95°	01-15		•	•	
40°, 80°	02-06		•	•	
95°	015-08		•		
40°, 65°, 80°, 95°	01-15		•	•	
40°, 80°	02-06		•	•	
85°	02-04		•		
TXA & TXB 80°	0050-04	•			
TX 80°	1-26	•	•	•	
TXA & TXB 80°	0050-04	•			
TX 80°	1-26	•	•	•	
13°-114°	1-16	•		•	•

HELPFUL REMINDERS FOR BAND SPRAYING

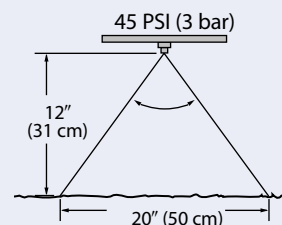
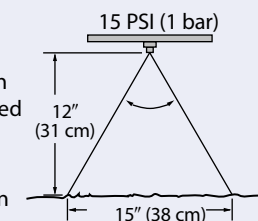
Wider angle spray tips allow the spray height to be lowered to minimize drift.

Example:



The spray angle of the nozzle and the resulting band width are directly influenced by the spraying pressure.

Example: 8002E Even Flat Spray



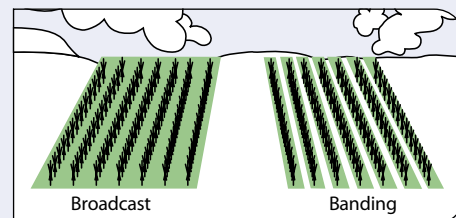
Use care when calculating:

Field Acres/Hectares vs. Treated Acres/Hectares

Field Acres/Hectares = Total Acres/Hectares of Planted Cropland

Treated Acres/Hectares =

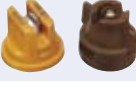
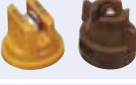
Field Acres/Hectares X Band Width
Row Spacing





TeeJet®

Turfgrass Nozzle Selection Guide

	HERBICIDES		INSECTICIDES		FUNGICIDES	
	CONTACT	SYSTEMIC	CONTACT	SYSTEMIC	CONTACT	SYSTEMIC
 Turbo TeeJet™ Reference page 9	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD	VERY GOOD
 Turbo TeeJet™ at pressures below 30 PSI (2.0 bar) Reference page 9	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
 Turbo TwinJet™ Reference page 10	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
 Turbo TwinJet™ at pressures below 30 PSI (2.0 bar) Reference page 10	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo TeeJet™ Induction Reference page 11		EXCELLENT		EXCELLENT		EXCELLENT
 XR, XRC TeeJet™ Reference page 12–13	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD
 XR, XRC TeeJet™ at pressures below 30 PSI (2.0 bar) Reference page 12–13	GOOD	VERY GOOD	GOOD	VERY GOOD	GOOD	VERY GOOD
 AIXR TeeJet™ Reference page 14	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
 AI, AIC TeeJet™ Reference page 15–16	GOOD	EXCELLENT	GOOD	EXCELLENT	GOOD	EXCELLENT
 TwinJet™ Reference page 17	EXCELLENT		EXCELLENT		EXCELLENT	
 DG TwinJet™ Reference page 18	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo TeeJet™ Duo Reference page 19	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
 Turbo TeeJet™ Duo at lower pressures Reference page 19	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT	VERY GOOD	EXCELLENT
 Turbo FloodJet™ Reference page 23		VERY GOOD		VERY GOOD		VERY GOOD
 TurfJet™ Reference page 24		EXCELLENT		EXCELLENT		EXCELLENT

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



DRIFT MANAGEMENT	SPRAY ANGLE	TIP CAPACITIES	 VISIFLO® POLYMER VP	 VISIFLO CERAMIC VK	 VISIFLO STAINLESS STEEL VS	 STAINLESS STEEL SS
VERY GOOD	110°	01-08	•			
VERY GOOD						
VERY GOOD	110°	02-06	•			
EXCELLENT						
EXCELLENT	110°	015-06	•			
GOOD	XR 80°, XR 110°	01-15	110°	•	•	•
VERY GOOD	XRC 80°, XRC 110°	015-08	110°	•	•	
EXCELLENT	110°	015-06	•			
EXCELLENT	AI 110°	015-08	•	•	•	
	AIC 110°	015-10			•	
	65°, 80°, 110°	01-10			•	
VERY GOOD	110°	015-08			•	
VERY GOOD	110°	01-08	•			
EXCELLENT						
EXCELLENT	140°– 150°	02-10	•		•	
EXCELLENT	140°–150°	02-15	•		•	



TeeJet®

Liquid Fertilizer Nozzle Selection Guide

	BROADCAST	DIRECTED	SPRAY ANGLE	TIP CAPACITIES	VISIFLO® POLYMER VP	VISIFLO CERAMIC VK	VISIFLO STAINLESS STEEL VS	STAINLESS STEEL SS
 Turbo FloodJet™ Reference page 23	EXCELLENT		140°–150°	2-10	•		•	
 QCTF Turbo FloodJet™ Reference page 25	EXCELLENT		150°	15-120			•	
 TurfJet™ Reference page 24	EXCELLENT		140°–150°	02-15	•		•	
 StreamJet™ (3-ORIFICE) Reference page 48	VERY GOOD	EXCELLENT	—	015-20	•			
 StreamJet™ (7-ORIFICE) Reference page 49	EXCELLENT	VERY GOOD	—	015-15	•			
 StreamJet™ Reference page 51		EXCELLENT	0°	0004-0060				•
 TP TeeJet™ (LARGE CAPACITY) Reference page 20	VERY GOOD		0°, 65°, 80°, 110°	0067-20			•	•
 AI TeeJet™ AIC TeeJet™ (LOW VOLUME) Reference pages 15–16	VERY GOOD		AI 110°	015-08			•	
			AIC 110°	015-10	•	•	•	
 AIXR TeeJet™ Reference page 14	GOOD		110°	015-06	•			
 Turbo TeeJet™ Induction Reference page 11	EXCELLENT		110°	015-06	•			
 AIUB TeeJet™ (LOW VOLUME) Reference page 41		VERY GOOD	85°	02-04			•	

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

Turbo TeeJet® Wide Angle Flat Spray Tips

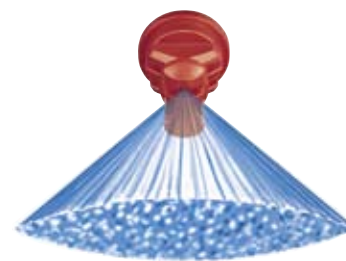


Typical Applications:

See selection guide on pages 2 and 6 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-*/-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.
- Blockage-free passage means less clogging.
- Unique internal configuration means substantially longer wear life.



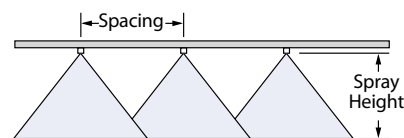
 		bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 													
					4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
TT11001 (100)	1.0	C	0.23	69.0	55.2	46.0	39.4	34.5	27.6	23.0	17.3	15.3	13.8	11.0	9.2	7.9		
	2.0	M	0.32	96.0	76.8	64.0	54.9	48.0	38.4	32.0	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		

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

Very Fine Fine Medium Coarse Very Coarse Extremely Coarse

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

110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

TT11001-VP – Polymer with VisiFlo® color-coding



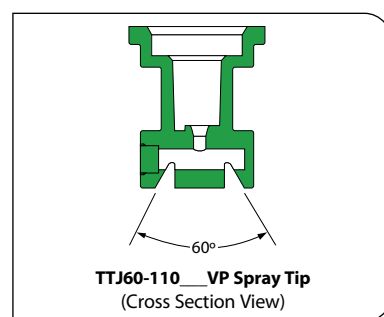
TurboTwinJet® Twin Flat Spray Tips

Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for TurboTwinJet tips.

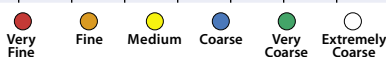
Features:

- 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 63 for additional information.



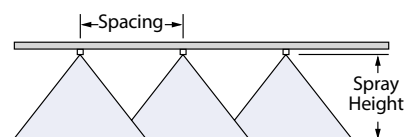
 	 bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
TTJ60-11002 (100)	1.5	C	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2	
	2.0	C	0.65	195	156	130	111	97.5	78.0	65.0	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	
	6.0	M	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
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	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	
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	
	6.0	M	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
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	
	6.0	M	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5	
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	
	6.0	C	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7	
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).

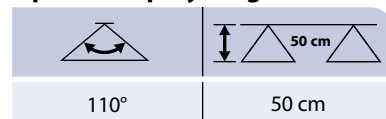


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

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

Turbo TeeJet® Induction Flat Spray Tips

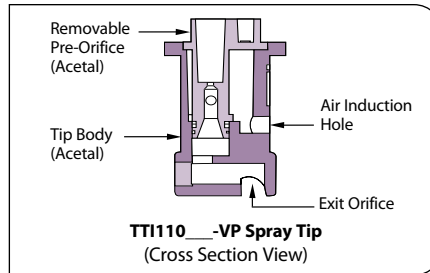


Typical Applications:

See selection guide on pages 2 and 6 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.

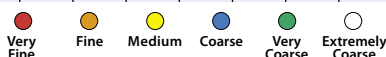


- Wide operating pressure range: 15–100 PSI (1–7 bar).
- Automatic alignment when used with 25598-*-NYR Quick TeeJet® cap and gasket. See page 63 for additional information.

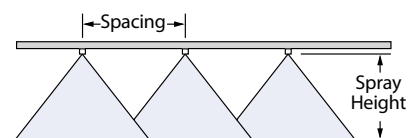


		bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 											
					4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h
TTI110015 (100)	1.0	XC	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7
	2.0	XC	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5
	3.0	XC	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)	7.0	XC	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9
	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	XC	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	XC	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	XC	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
TTI110025 (50)	6.0	XC	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4
	7.0	XC	1.21	363	290	242	207	182	145	121	90.8	80.7	72.6	58.1	48.4	41.5
	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	XC	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9
	4.0	XC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
TTI11003 (50)	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
	7.0	XC	1.51	453	362	302	259	227	181	151	113	101	90.6	72.5	60.4	51.8
	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	XC	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5
TTI11004 (50)	4.0	XC	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
	7.0	XC	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7
	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	XC	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
TTI11005 (50)	3.0	XC	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
	4.0	XC	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
	7.0	XC	2.41	723	578	482	413	362	289	241	181	161	145	116	96.4	82.6
	1.0	XC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
TTI11006 (50)	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	XC	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
	7.0	XC	3.01	903	722	602	516	452	361	301	226	201	181	144	120	103
TTI11006 (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	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	XC	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
	5.0	XC	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105
	6.0	XC	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115
TTI11006 (50)	7.0	XC	3.62	1086	869	724	621	543	434	362	272	241	217	174	145	124

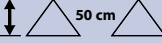
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	EXCELLENT	EXCELLENT



Optimum Spray Height

	
110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

TTI11004-VP – Polymer with VisiFlo® color-coding



XR TeeJet® Extended Range Flat Spray Tips

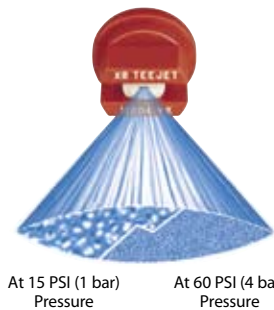
Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for XR 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.
- Available in stainless steel, ceramic and polymer in 80° and 110° spray angles with VisiFlo® color-coding.

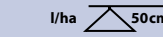
- Ceramic is available with corrosive-resistant polypropylene VisiFlo color-coded tip holder in 80° capacities 03–08 and 110° capacities 02–08.
- Brass available in 110° only.
- Automatic spray alignment with 25612*-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.
- Automatic spray alignment for sizes 10 and 15 with 25610*-NYR Quick TeeJet cap and gasket. Reference page 63 for more information.



At 15 PSI (1 bar)
Pressure

At 60 PSI (4 bar)
Pressure



 		DROP SIZE		CAPACITY ONE NOZZLE IN l/min	l/ha 															
		bar	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			
XR8001 XR11001 (100)	1.0	M	F	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			
	1.5	F	F	0.28	84.0	67.2	56.0	48.0	42.0	33.6	28.0	21.0	18.7	16.8	13.4	11.2	9.6			
	2.0	F	F	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	F	F	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	F	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			
XR80015 XR110015 (100)	4.0	F	VF	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			
	1.0	M	F	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	F	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	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	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			
XR8002 XR11002 (50)	3.0	F	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	F	F	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3			
	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			
XR8003 XR11003 (50)	2.5	M	F	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	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	F	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2			
	1.0	M	F	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	F	0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0	24.0			
XR110025 (50)	2.0	F	F	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4	27.8			
	2.5	F	F	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9			
	3.0	F	F	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9			
	4.0	F	F	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1			
	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			
XR8004 XR11004 (50)	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			
	2.5	M	F	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0			
	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			
	4.0	M	F	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6			
XR8005 XR11005 (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			
	2.5	M	M	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			
XR8006 XR11006 (50)	4.0	M	F	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4			
	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			
	2.5	M	M	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7			
XR8007 XR11007 (50)	3.0	M	M	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			
	1.0	C	C	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0			
	1.5	C	C	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6			
	2.0	C	M	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5			
XR8008 XR11008 (50)	2.5	C	M	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1			
	3.0	C	M	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3			
	4.0	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			
XR8009 XR11009 (50)	2.0	C	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5			
	2.5	C	C	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7			
	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	C	C	2.28	684	547	456	391	342	274	228	171	152	137	109	91.2	78.2			
XR8010† XR11010†	1.5	C	C	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7			
	2.0	C	C	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111			
	2.5	C	C	3.61	1083	866	722	619	542	433	361	271	241	217	173	144	124			
	3.0	C	C	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135			
	4.0	C	C	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156			
XR8015† XR11015†	1.0	C	C	3.42	1026	821	684	586	513	410	342	257	228	205	164	137	117			
	1.5	C	C	4.19	1257	1006	838	718	629	503	419	314	279	251	201	168	144			
	2.0	C	C	4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166			
	2.5	C	C	5.40	1620	1296	1080	926	810	648	540	405	360	324	259	216	185			
	3.0	C	C	5.92	1776	1421	1184	1015	888	710	592	444	395	355	284	237	203			
4.0	C	C	6.84	2052	1642	1368	1173	1026	821	684	513	456	410	328	274	235				



Typical Applications:

See selection guide on pages 2 and 6 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 (025–06 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.



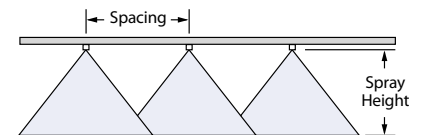
	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	l/ha											
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h
XRC80015 (100)	1.0	M	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6
	1.5	M	0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8
	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
	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
XRC8002 XRC11002 (50)	4.0	F	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2
	1.0	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
	1.5	M	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4
	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
XRC110025 (50)	3.0	F	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6
	4.0	F	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4
XRC8003 XRC11003 (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
	1.5	M	0.70	210	168	140	120	105	84.0	70.0	52.5	46.7	42.0	33.6	28.0
	2.0	F	0.81	243	194	162	139	122	97.2	81.0	60.8	54.0	48.6	38.9	32.4
	3.0	F	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6
XRC8004 XRC11004 (50)	4.0	F	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6
	1.0	M	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2
	1.5	M	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2
	2.0	M	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4
XRC8005 XRC11005 (50)	3.0	M	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2
	4.0	M	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4
XRC8006 XRC11006 (50)	1.0	C	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4
	1.5	M	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8
	2.0	M	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6
	3.0	M	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2
XRC8008 XRC11008 (50)	4.0	M	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8
	1.0	C	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6
	1.5	C	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6
	2.0	C	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4
XRC8006 XRC11006 (50)	3.0	M	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8
	4.0	M	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8
XRC8006 XRC11006 (50)	1.0	C	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8
	1.5	C	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2
	2.0	C	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6
	3.0	C	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8
XRC8008 XRC11008 (50)	4.0	C	2.74	822	658	548	470	411	329	274	206	183	164	132	110
	1.0	VC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8
	1.5	VC	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2
	2.0	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103
XRC8008 XRC11008 (50)	3.0	C	3.16	948	758	632	542	474	379	316	237	211	190	152	126
	4.0	C	3.65	1095	876	730	626	548	438	365	274	243	219	175	146

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



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

	50 cm
80°	75 cm
110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

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



AIXR TeeJet® Air Induction XR Flat Spray Tips

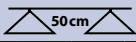
Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for AIXR TeeJet tips.

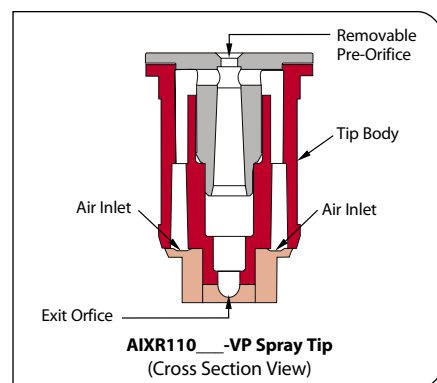
Features:

- 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-[®]-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.

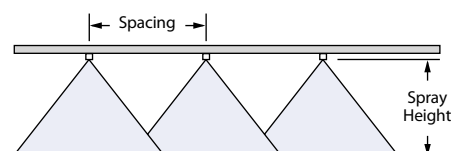


 		CAPACITY ONE NOZZLE IN l/min	l/ha 													
			4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
 AIXR110015 (100)	1.0	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7	
	2.0	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5	
	3.0	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2	
	4.0	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	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	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	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	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	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	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	5.0	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
	6.0	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	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	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	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
	4.0	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	5.0	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
	6.0	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0	
 AIXR11003 (50)	1.0	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	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
	3.0	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
	4.0	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	5.0	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
	6.0	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
 AIXR11004 (50)	1.0	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	2.0	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2	
	3.0	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	4.0	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	5.0	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9	
	6.0	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5	
 AIXR11005 (50)	1.0	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
	2.0	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	3.0	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	4.0	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	5.0	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1	
	6.0	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7	
 AIXR11006 (50)	1.0	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0	
	2.0	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	3.0	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	4.0	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	5.0	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105	
	6.0	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115	

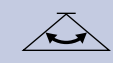
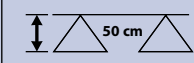
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height

	
110°	50 cm

See pages 173–187 for useful formulas and information.

How to order:

Specify tip number.

Example:

AIXR11004VP – Polymer with VisiFlo color-coding



Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for AI TeeJet tips.

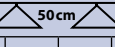
Features:

- Stainless steel insert produces a tapered edge flat spray pattern for uniform coverage in broadcast spraying.
- Polymer insert holder and pre-orifice with VisiFlo® color-coding.
- Larger droplets for less drift.
- Available in eight capacities with a recommended pressure rating 30–115 PSI (2–8 bar).

- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator.

- Automatic spray alignment with 25598-*/-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.



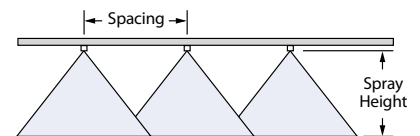
 		bar	DRO P SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 													
					4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
AI110015 (100)	2.0	VC	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5		
	3.0	VC	0.59	177	142	118	101	88.5	70.8	59.0	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	C	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	C	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5		
	7.0	C	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9		
AI11002 (50)	8.0	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9		
	2.0	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	VC	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		
AI110025 (50)	7.0	C	1.21	363	290	242	207	182	145	121	90.8	80.7	72.6	58.1	48.4	41.5		
	8.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2		
	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	VC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1		
	5.0	VC	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9		
AI11003 (50)	6.0	C	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0		
	7.0	C	1.51	453	362	302	259	227	181	151	113	101	90.6	72.5	60.4	51.8		
	8.0	C	1.62	486	389	324	278	243	194	162	122	108	97.2	77.8	64.8	55.5		
	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		
AI11004 (50)	5.0	VC	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		
	7.0	C	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7		
	8.0	C	1.93	579	463	386	331	290	232	193	145	129	116	92.6	77.2	66.2		
	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		
AI11005 (50)	4.0	VC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4		
	5.0	VC	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9		
	6.0	VC	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5		
	7.0	C	2.41	723	578	482	413	362	289	241	181	161	145	116	96.4	82.6		
	8.0	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
	2.0	XC	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2		
AI11006 (50)	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	VC	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1		
	6.0	VC	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7		
	7.0	C	3.01	903	722	602	516	452	361	301	226	201	181	144	120	103		
	8.0	C	3.22	966	773	644	552	483	386	322	242	215	193	155	129	110		
AI11008 (50)	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	VC	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105		
	6.0	VC	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115		
	7.0	C	3.62	1086	869	724	621	543	434	362	272	241	217	174	145	124		
AI11008 (50)	8.0	C	3.87	1161	929	774	663	581	464	387	290	258	232	186	155	133		
	2.0	XC	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
	3.0	XC	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108		
	4.0	VC	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125		
	5.0	VC	4.08	1224	979	816	699	612	490	408	306	272	245	196	163	140		
	6.0	VC	4.47	1341	1073	894	766	671	536	447	335	298	268	215	179	153		
AI11008 (50)	7.0	C	4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166		
	8.0	C	5.16	1548	1238	1032	885	774	619	516	387	344	310	248	206	177		

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



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

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height

110°	50 cm
110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

AI11004-VS – Stainless Steel with VisiFlo color-coding



AIC TeeJet® Air Induction Flat Spray Tips

Typical Applications:

See selection guide on pages 2 and 6 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 (015–10 capacities), ceramic (025–05 capacities) or polymer (02–05 capacities) inserts.

- Larger droplets for less drift.
- Depending on the chemical, produces large air-filled drops through the use of a Venturi air aspirator.
- AI 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.

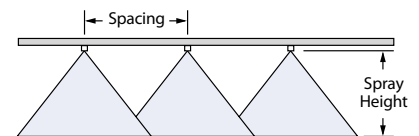
		bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 													
					4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
AIC110015 (100)	2.0	VC	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5		
	3.0	VC	0.59	177	142	118	101	88.5	70.8	59.0	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	C	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	C	0.83	249	199	166	142	125	99.6	83.0	62.3	55.3	49.8	39.8	33.2	28.5		
	7.0	C	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9		
AIC11002 (50)	8.0	C	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9		
	2.0	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	VC	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		
AIC110025 (50)	7.0	C	1.21	363	290	242	207	182	145	121	90.8	80.7	72.6	58.1	48.4	41.5		
	8.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2		
	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	VC	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1		
	5.0	VC	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9		
AIC11003 (50)	6.0	C	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0		
	7.0	C	1.51	453	362	302	259	227	181	151	113	101	90.6	72.5	60.4	51.8		
	8.0	C	1.62	486	389	324	278	243	194	162	122	108	97.2	77.8	64.8	55.5		
	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		
AIC11004 (50)	5.0	VC	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		
	7.0	C	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7		
	8.0	C	1.93	579	463	386	331	290	232	193	145	129	116	92.6	77.2	66.2		
	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		
AIC11005 (50)	4.0	VC	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4		
	5.0	VC	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9		
	6.0	VC	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5		
	7.0	C	2.41	723	578	482	413	362	289	241	181	161	145	116	96.4	82.6		
	8.0	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
	AIC11006 (50)	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		VC	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1		
6.0		VC	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7		
7.0		C	3.01	903	722	602	516	452	361	301	226	201	181	144	120	103		
AIC11008 (50)	8.0	C	3.22	966	773	644	552	483	386	322	242	215	193	155	129	110		
	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	VC	3.06	918	734	612	525	459	367	306	230	204	184	147	122	105		
	6.0	VC	3.35	1005	804	670	574	503	402	335	251	223	201	161	134	115		
AIC11010	7.0	C	3.62	1086	869	724	621	543	434	362	272	241	217	174	145	124		
	8.0	C	3.87	1161	929	774	663	581	464	387	290	258	232	186	155	133		
	2.0	XC	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
	3.0	XC	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108		
	4.0	VC	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125		
	5.0	VC	4.08	1224	979	816	699	612	490	408	306	272	245	196	163	140		
AIC11010	6.0	VC	4.47	1341	1073	894	766	671	536	447	335	298	268	215	179	153		
	7.0	C	4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166		
	8.0	C	5.16	1548	1238	1032	885	774	619	516	387	344	310	248	206	177		
	2.0	XC	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111		
	3.0	XC	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135		
	4.0	VC	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156		
AIC11010	5.0	VC	5.10	1530	1224	1020	874	765	612	510	383	340	306	245	204	175		
	6.0	VC	5.59	1677	1342	1118	958	839	671	559	419	373	335	268	224	192		
	7.0	VC	6.03	1809	1447	1206	1034	905	724	603	452	402	362	289	241	207		
	8.0	C	6.45	1935	1548	1290	1106	968	774	645	484	430	387	310	258	221		

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

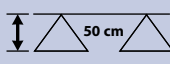
Very Fine Fine Medium Coarse Very Coarse Extremely Coarse



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



Optimum Spray Height

	
110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

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



Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for TwinJet tips.

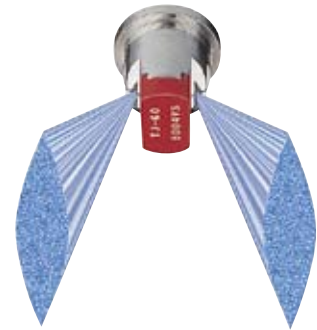
Features:

- 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 40 for TwinJet even flat spray tips.
- Automatic spray alignment with 25598-*/-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.
- Reference technical section, pages 181–186 for additional information on drift.

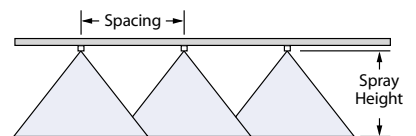


		bar	DROPSIZE 80°/110°	CAPACITY ONE NOZZLE IN l/min	l/ha 													
					4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
					km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
TJ60-6501 TJ60-8001 (100)	2.0	VF		0.32	96.0	76.8	64.0	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)	4.0	VF		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	
	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	
TJ60-6502 TJ60-8002 TJ60-11002 (100)	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	
	4.0			0.61	183	146	122	105	91.5	73.2	61.0	45.8	40.7	36.6	29.3	24.4	20.9	
	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	
TJ60-11002 (100)	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	
	4.0	F	VF	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	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	
TJ60-8003 TJ60-11003 (100)	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	
	4.0	F	F	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
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	F	F	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2	
	3.5	F	F	1.71	513	410	342	293	257	205	171	128	114	103	82.1	68.4	58.6	
TJ60-8005 TJ60-11005 (50)	4.0	F	F	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	2.0	M	M	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
	2.5	M	M	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7	
	3.0	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)	3.5	F	F	2.13	639	511	426	365	320	256	213	160	142	128	102	85.2	73.0	
	4.0	F	F	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
	2.0	M	M	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	2.5	M	M	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1	
TJ60-8008 TJ60-11008 (50)	3.0	M	M	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	3.5	M	F	2.56	768	614	512	439	384	307	256	192	171	154	123	102	87.8	
	4.0	M	F	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	2.0	C	M	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5	
TJ60-8010 TJ60-11010 (50)	2.5	M	M	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7	
	3.0	M	M	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108	
	3.5	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	
TJ60-8010 TJ60-11010 (50)	4.0	M	M	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156	

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



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	—	—



Optimum Spray Height

	50 cm
65°	90 cm
80°	75 cm
110°	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

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



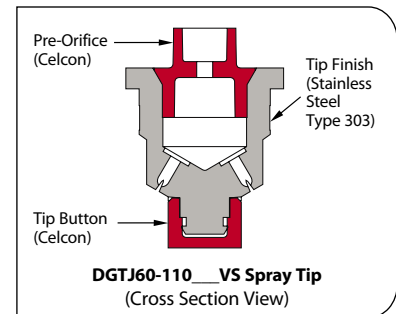
DG TwinJet® Drift Guard Twin Flat Spray Tips

Typical Applications:

See selection guide on pages 2 and 6 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 63 for more information.



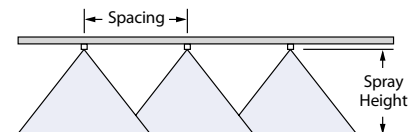
Note: Due to pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

 		DRO P SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 												
				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)	4.0	F	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	0.65	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
DGTJ60-11003 (100)	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
	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
	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
DGTJ60-11004 (50)	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
	4.0	M	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6
	2.0	C	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
DGTJ60-11006 (50)	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
	4.0	C	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
DGTJ60-11008 (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)	4.0	C	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
	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
DGTJ60-11008 (50)	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

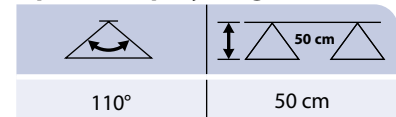
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
VERY GOOD	EXCELLENT	VERY GOOD



Optimum Spray Height



See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

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

Turbo TeeJet® Duo

Dual Polymer Flat Fan Spray Tips



Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for Turbo TeeJet Duo 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 9 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.

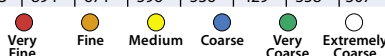
- Best suited for broadcast spraying where superior leaf coverage and canopy penetration is important.
- QJ90 adapter and Quick TeeJet® caps are made of Acetal for excellent wear life and chemical resistance. See page 62 for additional information about the QJ90-2-NYR adapter.
- Ideal for use with automatic 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 63 for additional information.



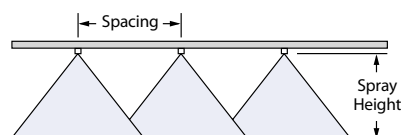
		DROP SIZE	CAPACITY ONE TT DUO IN l/min	 I/ha 													
				4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h	20 km/h	25 km/h	30 km/h	35 km/h	
QJ90-2XTT11001 (100)	1.0	C	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8	
	2.0	M	0.65	195	156	130	111	97.5	78.0	65.0	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	

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

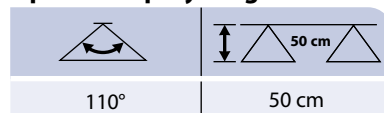


CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	VERY GOOD
VERY GOOD*	EXCELLENT*	EXCELLENT*

*At pressures below 30 PSI (2.0 bar)



Optimum Spray Height



See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

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



TeeJet® VisiFlo® Flat Spray Tips

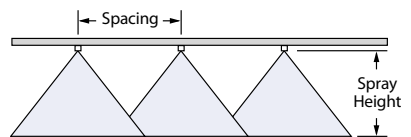
Features:

- Tapered edge flat spray pattern for uniform coverage in broadcast spraying.
- VisiFlo color-coded version available in stainless steel, ceramic and polymer in 80° or 110° spray angles in selected sizes.
- Available in ceramic 80° capacities 01–02 and 110° capacities 01–015. See XR and XRC TeeJet® tips on pages 12 and 13 for larger capacities.
- Standard version (not color-coded) available in 15°, 25°, 40°, 50° and 65° spray angles in brass, stainless steel or hardened stainless steel.
- See page 39 for TeeJet even flat spray tips.
- Automatic spray alignment with 25612*-NYR Quick TeeJet® cap and gasket. Reference page 63 for more information.
- Automatic spray alignment for sizes 10 through 20 with 25610*-NYR Quick TeeJet cap and gasket. Reference page 63 for more information.



		DROPSIZE		CAPACITY ONE NOZZLE IN l/min	l/ha 													
					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	
		bar	80°	110°	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	
TP650050† TP800050† TP1100050† (100)	2.0			0.16	48.0	38.4	32.0	27.4	24.0	19.2	16.0	12.0	10.7	9.6	7.7	6.4	5.5	
	2.5			0.18	54.0	43.2	36.0	30.9	27.0	21.6	18.0	13.5	12.0	10.8	8.6	7.2	6.2	
	3.0			0.20	60.0	48.0	40.0	34.3	30.0	24.0	20.0	15.0	13.3	12.0	9.6	8.0	6.9	
	3.5			0.22	66.0	52.8	44.0	37.7	33.0	26.4	22.0	16.5	14.7	13.2	10.6	8.8	7.5	
TP650067† TP800067† TP1100067† (100)	4.0			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			0.21	63.0	50.4	42.0	36.0	31.5	25.2	21.0	15.8	14.0	12.6	10.1	8.4	7.2	
	2.5			0.24	72.0	57.6	48.0	41.1	36.0	28.8	24.0	18.0	16.0	14.4	11.5	9.6	8.2	
	3.0			0.26	78.0	62.4	52.0	44.6	39.0	31.2	26.0	19.5	17.3	15.6	12.5	10.4	8.9	
TP6501† TP8001 TP11001 (100)	3.5			0.28	84.0	67.2	56.0	48.0	42.0	33.6	28.0	21.0	18.7	16.8	13.4	11.2	9.6	
	4.0			0.30	90.0	72.0	60.0	51.4	45.0	36.0	30.0	22.5	20.0	18.0	14.4	12.0	10.3	
	2.0	F	F	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	F	F	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	
TP65015† TP80015 TP110015 (100)	3.0	F	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	
	3.5	F	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	
	4.0	F	VF	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	
	2.0	F	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	
TP6502† TP8002 TP11002 (50)	2.5	F	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	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	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	
	4.0	F	F	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
TP6503† TP8003 TP11003 (50)	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	
	2.5	M	F	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	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	F	0.85	255	204	170	146	128	102	85.0	63.8	56.7	51.0	40.8	34.0	29.1	
TP6504† TP8004 TP11004 (50)	4.0	F	F	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
	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	
	2.5	M	F	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0	
	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	
TP6505† TP8005 TP11005 (50)	3.5	M	F	1.27	381	305	254	218	191	152	127	95.3	84.7	76.2	61.0	50.8	43.5	
	4.0	M	F	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
	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	
	2.5	M	M	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4	
TP6506† TP8006 TP11006 (50)	3.0	M	M	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	
	4.0	M	F	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4	
	2.0	C	M	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2	
TP6507† TP8007 TP11007 (50)	2.5	M	M	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7	
	3.0	M	M	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.8	67.5	
	3.5	M	M	2.13	639	511	426	365	320	256	213	160	142	128	102	85.2	73.0	
	4.0	M	M	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8	
TP6508† TP8008 TP11008 (50)	2.0	C	M	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5	
	2.5	C	M	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1	
	3.0	C	M	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3	
	3.5	C	M	2.56	768	614	512	439	384	307	256	192	171	154	123	102	87.8	
TP6510† TP8010† TP11010†	4.0	C	M	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9	
	2.0	C	C	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5	
	2.5	C	C	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7	
	3.0	C	M	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108	
TP6515† TP8015† TP11015†	3.5	C	M	3.41	1023	818	682	585	512	409	341	256	227	205	164	136	117	
	4.0	C	M	3.65	1095	876	730	626	548	438	365	274	243	219	175	146	125	
	2.0			3.23	969	775	646	554	485	388	323	242	215	194	155	129	111	
	2.5			3.61	1083	866	722	619	542	433	361	271	241	217	173	144	124	
TP6520† TP8020† TP11020†	3.0			3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135	
	3.5			4.27	1281	1025	854	732	641	512	427	320	285	256	205	171	146	
	4.0			4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156	
	2.0			4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166	
TP6520† TP8020† TP11020†	2.5			5.40	1620	1296	1080	926	810	648	540	405	360	324	259	216	185	
	3.0			5.92	1776	1421	1184	1015	888	710	592	444	395	355	284	237	203	
	3.5			6.39	1917	1534	1278	1095	959	767	639	479	426	383	307	256	219	
	4.0			6.84	2052	1642	1368	1173	1026	821	684	513	456	410	328	274	235	

Note: Always double check your application rates.
 Tabulations are based on spraying water at 70°F (21°C).
 † Available in all brass, stainless steel and hardened stainless steel only.



Optimum Spray Height

	50 cm
65°	90 cm
80°	75 cm
110°	50 cm

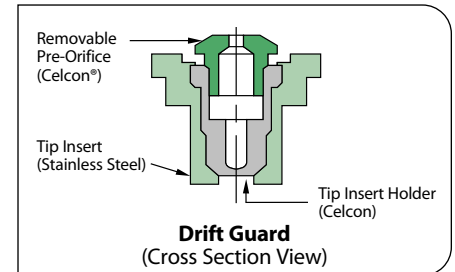
See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Examples:

- TP8002VS – Stainless Steel with VisiFlo color-coding
- TP11002VP – Polymer with VisiFlo color-coding
- TP11001VK – Ceramic with VisiFlo polymer color-coding
- TP11002-HSS – Hardened Stainless Steel
- TP8002-SS – Stainless Steel
- TP8002 – Brass



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

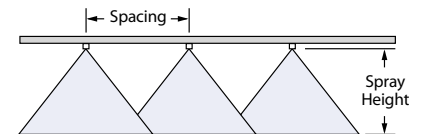
Features:

- 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 63 for more information.



		bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	I/ha 													
					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	
DG8002 [†] DG11002 (50)	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	
	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	
DG8003 [†] DG11003 (50)	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	
	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	
DG8004 [†] DG11004 (50)	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	
	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	
DG8005 [†] DG11005 (50)	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).
† Available in VisiFlo stainless steel only.



Optimum Spray Height

	80°	110°
50 cm	75 cm	50 cm

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Examples:

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



TeeJet® Double Outlet Flat Spray Tips

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



	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-SS (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
TQ150-02-SS (100)	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
	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
TQ150-03-SS (100)	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
	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
TQ150-04-SS (50)	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
TQ150-06-SS (50)	1.5	1.68	504	336	252	202	168	144	126	112
	2.0	1.94	582	388	291	233	194	166	146	129
	2.5	2.16	648	432	324	259	216	185	162	144
	3.0	2.37	711	474	356	284	237	203	178	158
TQ150-08-SS (50)	3.5	2.56	768	512	384	307	256	219	192	171
	1.5	2.23	669	446	335	268	223	191	167	149
	2.0	2.58	774	516	387	310	258	221	194	172
	2.5	2.88	864	576	432	346	288	247	216	192
TQ150-09-SS (50)	3.0	3.16	948	632	474	379	316	271	237	211
	3.5	3.41	1023	682	512	409	341	292	256	227
	1.5	2.51	753	502	377	301	251	215	188	167
	2.0	2.90	870	580	435	348	290	249	218	193
TQ150-09-SS (50)	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 173–187 for drop size classification, useful formulas and information.



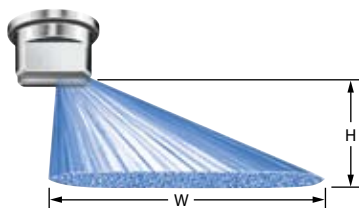
TeeJet® Off-Center Flat Spray Tips — Smaller Capacities

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 67 for swivels and hose drops.

How to order:

Specify tip number and material.
Example: OC-02 – Brass



	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 173–187 for drop size classification, useful formulas and information.

Turbo FloodJet® Wide Angle Flat Spray Tips



Typical Applications:

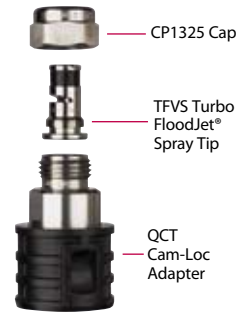
See selection guide on pages 2 and 6 for recommended typical applications for Turbo FloodJet tips.

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 63 for more information.

QCT Cam-Loc Adapter

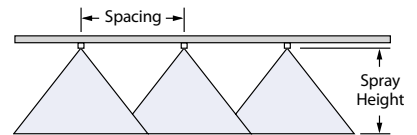
- Provides easy changeover from high capacity to lower capacity nozzles.
- Adapter fits standard 3/4" quick connect Cam-Loc holders.
- Corrosion-resistant stainless steel and polypropylene construction.
- Rated up to 100 PSI (7 bar).
- Use QJT-NYB to retrofit to Quick TeeJet.



CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
—	VERY GOOD	EXCELLENT

Tip Size (50)	Drop Size bar	Capacity ONE NOZZLE IN l/min	I/ha 75 cm										I/ha 100 cm									
			4	6	8	10	12	16	20	25	4	6	8	10	12	16	20	25	4	6	8	10
			km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
TF-12	1.0	XC	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			
	3.0	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			
TF-12.5	1.0	XC	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			
	1.5	XC	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			
	2.0	XC	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			
	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-13	1.0	XC	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	XC	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			
TF-14	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			
	1.0	XC	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	XC	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	XC	2.57	514	343	257	206	171	129	103	82.2	386	257	193	154	129	96.4	77.1	61.7			
TF-15	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			
	1.0	XC	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	XC	2.79	558	372	279	223	186	140	112	89.3	419	279	209	167	140	105	83.7	67.0			
TF-17.5	2.0	XC	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			
	1.0	XC	3.42	684	456	342	274	228	171	137	109	513	342	257	205	171	128	103	82.1			
TF-10	1.5	XC	4.19	838	559	419	335	279	210	168	134	629	419	314	251	210	157	126	101			
	2.0	XC	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	1.0	XC	4.56	912	608	456	365	304	228	182	146	684	456	342	274	228	171	137	109			
	1.5	XC	5.58	1116	744	558	446	372	279	223	179	837	558	419	335	279	209	167	134			
	2.0	XC	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			
TF-10	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).
†Specify material.



Optimum Spray Height

Spacing	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.

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Examples:

- TF-VS4 – Stainless Steel with VisiFlo color-coding
- TF-VP4 – Polymer with VisiFlo color-coding



TurfJet Wide Angle Flat Fan Spray Nozzles

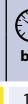
Typical Applications:

See selection guide on pages 2 and 6 for recommended typical applications for Wide Angle Flat Fan Spray Nozzles.

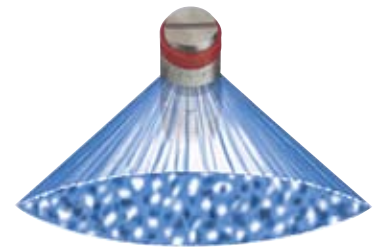
Features:

- 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 inches (50–100 cm).
- Spraying pressure — 25–75 PSI (1.5–5 bar).



 		DRO P SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 												
				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	XC	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	XC	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	XC	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	XC	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	XC	1.58	237	190	158	135	119	105	94.8	79.0	59.3	47.4	37.9	31.6	27.1
	4.0	XC	1.82	273	218	182	156	137	121	109	91.0	68.3	54.6	43.7	36.4	31.2
	5.0	XC	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	XC	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	XC	1.61	242	193	161	138	121	107	96.6	80.5	60.4	48.3	38.6	32.2	27.6
	3.0	XC	1.97	296	236	197	169	148	131	118	98.5	73.9	59.1	47.3	39.4	33.8
	4.0	XC	2.27	341	272	227	195	170	151	136	114	85.1	68.1	54.5	45.4	38.9
	5.0	XC	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	XC	1.68	252	202	168	144	126	112	101	84.0	63.0	50.4	40.3	33.6	28.8
	2.0	XC	1.94	291	233	194	166	146	129	116	97.0	72.8	58.2	46.6	38.8	33.3
	3.0	XC	2.37	356	284	237	203	178	158	142	119	88.9	71.1	56.9	47.4	40.6
	4.0	XC	2.74	411	329	274	235	206	183	164	137	103	82.2	65.8	54.8	47.0
	5.0	XC	3.06	459	367	306	262	230	204	184	153	115	91.8	73.4	61.2	52.5
1/4TTJ08	1.5	XC	2.23	335	268	223	191	167	149	134	112	83.6	66.9	53.5	44.6	38.2
	2.0	XC	2.58	387	310	258	221	194	172	155	129	96.8	77.4	61.9	51.6	44.2
	3.0	XC	3.16	474	379	316	271	237	211	190	158	119	94.8	75.8	63.2	54.2
	4.0	XC	3.65	548	438	365	313	274	243	219	183	137	110	87.6	73.0	62.6
	5.0	XC	4.08	612	490	408	350	306	272	245	204	153	122	97.9	81.6	69.9
1/4TTJ10	1.5	XC	2.79	419	335	279	239	209	186	167	140	105	83.7	67.0	55.8	47.8
	2.0	XC	3.23	485	388	323	277	242	215	194	162	121	96.9	77.5	64.6	55.4
	3.0	XC	3.95	593	474	395	339	296	263	237	198	148	119	94.8	79.0	67.7
	4.0	XC	4.56	684	547	456	391	342	304	274	228	171	137	109	91.2	78.2
	5.0	XC	5.10	765	612	510	437	383	340	306	255	191	153	122	102	87.4
1/4TTJ15	1.5	XC	4.19	629	503	419	359	314	279	251	210	157	126	101	83.8	71.8
	2.0	XC	4.83	725	580	483	414	362	322	290	242	181	145	116	96.6	82.8
	3.0	XC	5.92	888	710	592	507	444	395	355	296	222	178	142	118	101
	4.0	XC	6.84	1026	821	684	586	513	456	410	342	257	205	164	137	117
	5.0	XC	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).

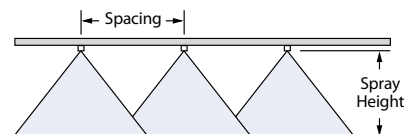


QJ4676-90-1/4-NYR

- 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

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.

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

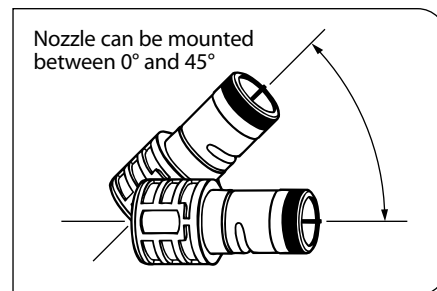
Specify tip number.

Examples:

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

1/4TTJ06-VP – Polymer with VisiFlo color-coding

Quick Turbo FloodJet® Wide Angle Flat Spray Tips



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.
- Grooved side molding for automatic alignment with any quick-connect coupler.

- 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).

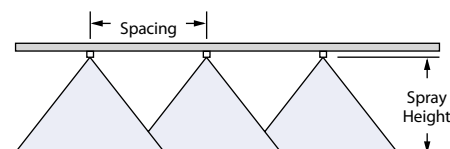
How to order:

Specify tip number.

Example:

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

SOIL INCORPORATED	PRE-EMERGENCE	DRIFT MANAGEMENT
EXCELLENT	EXCELLENT	EXCELLENT



Optimum Spray Height*

100 cm	100 cm
150 cm	150 cm

*When nozzle is mounted parallel to the ground.

See pages 173–187 for useful formulas and information.

	bar	CAPACITY ONE NOZZLE IN l/min	I/ha 100 cm										I/ha 150 cm									
			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).



FloodJet® Wide Angle Flat Spray Tips

How to order: Specify tip number.

Examples:

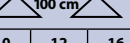
- TK-VS5 – Stainless Steel with VisiFlo® color-coding
- TKT-VP3 – Polymer
- (B)1/4K-5 – Brass
- TK-SS5 – Stainless Steel
- (B)1/8K-SS5 – Stainless Steel
- QCK-SS100 – Stainless Steel with VisiFlo color-coding

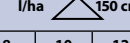
Nozzle Spacing

If the nozzle spacing on your boom is different than those tabulated, see page 173 for conversion factors.



(B)1/4K FloodJet (1/8" – 1" NPT) QCK Quick FloodJet® TKT Turbo FloodJet® TK FloodJet

		CAPACITY ONE NOZZLE IN l/min	l/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
1/8K-50	1.0	0.23	34.5	23.0	17.3	13.8	11.5	8.6	6.9	5.5
TK-50	1.5	0.28	42.0	28.0	21.0	16.8	14.0	10.5	8.4	6.7
(100)	2.0	0.33	49.5	33.0	24.8	19.8	16.5	12.4	9.9	7.9
	3.0	0.40	60.0	40.0	30.0	24.0	20.0	15.0	12.0	9.6
1/8K-75	1.0	0.34	51.0	34.0	25.5	20.4	17.0	12.8	10.2	8.2
TK-75	1.5	0.42	63.0	42.0	31.5	25.2	21.0	15.8	12.6	10.1
(100)	2.0	0.48	72.0	48.0	36.0	28.8	24.0	18.0	14.4	11.5
	3.0	0.59	88.5	59.0	44.3	35.4	29.5	22.1	17.7	14.2
1/8K-1	1.0	0.46	69.0	46.0	34.5	27.6	23.0	17.3	13.8	11.0
TK-1	1.5	0.56	84.0	56.0	42.0	33.6	28.0	21.0	16.8	13.4
(100)	2.0	0.65	97.5	65.0	48.8	39.0	32.5	24.4	19.5	15.6
	3.0	0.80	120	80.0	60.0	48.0	40.0	30.0	24.0	19.2
1/8K-1.5	1.0	0.68	102	68.0	51.0	40.8	34.0	25.5	20.4	16.3
TK-1.5	1.5	0.83	125	83.0	62.3	49.8	41.5	31.1	24.9	19.9
(50)	2.0	0.96	144	96.0	72.0	57.6	48.0	36.0	28.8	23.0
	3.0	1.18	177	118	88.5	70.8	59.0	44.3	35.4	28.3
[1/8K, 1/4K, TK]-2	1.0	0.91	137	91.0	68.3	54.6	45.5	34.1	27.3	21.8
TK-2	1.5	1.11	167	111	83.3	66.6	55.5	41.6	33.3	26.6
(50)	2.0	1.29	194	129	96.8	77.4	64.5	48.4	38.7	31.0
	3.0	1.58	237	158	119	94.8	79.0	59.3	47.4	37.9
[1/8K, 1/4K, TK]-2.5	1.0	1.14	171	114	85.5	68.4	57.0	42.8	34.2	27.4
TK-2.5	1.5	1.40	210	140	105	84.0	70.0	52.5	42.0	33.6
(50)	2.0	1.61	242	161	121	96.6	80.5	60.4	48.3	38.6
	3.0	1.97	296	197	148	118	98.5	73.9	59.1	47.3
[1/8K, 1/4K, TK]-3	1.0	1.37	206	137	103	82.2	68.5	51.4	41.1	32.9
[TK, TKT]-3	1.5	1.68	252	168	126	101	84.0	63.0	50.4	40.3
(50)	2.0	1.94	291	194	146	116	97.0	72.8	58.2	46.6
	3.0	2.37	356	237	178	142	119	88.9	71.1	56.9
[1/8K, TK]-4	1.0	1.82	273	182	137	109	91.0	68.3	54.6	43.7
TK-4	1.5	2.23	335	223	167	134	112	83.6	66.9	53.5
(50)	2.0	2.57	386	257	193	154	129	96.4	77.1	61.7
	3.0	3.15	473	315	236	189	158	118	94.5	75.6
[1/8K, 1/4K, TK]-5	1.0	2.28	342	228	171	137	114	85.5	68.4	54.7
[TK, TKT]-5	1.5	2.79	419	279	209	167	140	105	83.7	67.0
(50)	2.0	3.22	483	322	242	193	161	121	96.6	77.3
	3.0	3.95	593	395	296	237	198	148	119	94.8
[1/8K, 1/4K, TK]-7.5	1.0	3.42	513	342	257	205	171	128	103	82.1
TK-7.5	1.5	4.19	629	419	314	251	210	157	126	101
(50)	2.0	4.84	726	484	363	290	242	182	145	116
	3.0	5.92	888	592	444	355	296	222	178	142
[1/8K, 1/4K, TK]-10	1.0	4.56	684	456	342	274	228	171	137	109
TK-10	1.5	5.58	837	558	419	335	279	209	167	134
(50)	2.0	6.45	968	645	484	387	323	242	194	155
	3.0	7.90	1185	790	593	474	395	296	237	190
[1/8K, 1/4K]-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
	3.0	9.47	1421	947	710	568	474	355	284	227
[1/8K, 1/4K]-15	1.0	6.84	1026	684	513	410	342	257	205	164
TK-15	1.5	8.38	1257	838	629	503	419	314	251	201
	2.0	9.67	1451	967	725	580	484	363	290	232
	3.0	11.8	1770	1180	885	708	590	443	354	283
[1/8K, 1/4K]-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
	3.0	14.2	2130	1420	1065	852	710	533	426	341
[1/8K, 1/4K]-20	1.0	9.12	1368	912	684	547	456	342	274	219
TK-20	1.5	11.2	1680	1120	840	672	560	420	336	269
	2.0	12.9	1935	1290	968	774	645	484	387	310
	3.0	15.8	2370	1580	1185	948	790	593	474	379
QCK-20	1.0	10.0	1500	1000	750	600	500	375	300	240
	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-22	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
	3.0	18.9	2835	1890	1418	1134	945	709	567	454

		CAPACITY ONE NOZZLE IN l/min	l/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
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	3.0	21.3	2130	1420	1065	852	710	533	426	341
	1.0	13.7	1370	913	685	548	457	343	274	219
QCK-30	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
	2.0	22.6	2260	1507	1130	904	753	565	452	362
	3.0	27.7	2770	1847	1385	1108	923	693	554	443
[3/8K, 1/2K]-40	1.0	18.2	1820	1213	910	728	607	455	364	291
	1.5	22.3	2230	1487	1115	892	743	558	446	357
QCK-40	2.0	25.7	2570	1713	1285	1028	857	643	514	411
	3.0	31.5	3150	2100	1575	1260	1050	788	630	504
3/8K-45	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
1/2K-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
QCK-50	2.0	32.2	3220	2147	1610	1288	1073	805	644	515
	3.0	39.5	3950	2633	1975	1580	1317	988	790	632
1/2K-60	1.0	27.3	2730	1820	1365	1092	910	683	546	437
	1.5	33.4	3340	2227	1670	1336	1113	835	668	534
QCK-60	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
	3.0	55.3	5530	3687	2765	2212	1843	1383	1106	885
[1/2K, 3/4K]-80	1.0	36.5	3650	2433	1825	1460	1217	913	730	584
	1.5	44.7	4470	2980	2235	1788	1490	1118	894	715
QCK-80	2.0	51.6	5160	3440	2580	2064	1720	1290	1032	826
	3.0	63.2	6320	4213	3160	2528	2107	1580	1264	1011
[1/2K, 3/4K]-90	1.0	41.0	4100	2733	2050	1640	1367	1025	820	656
	1.5	50.2	5020	3347	2510	2008	1673	1255	1004	803
	2.0	58.0	5800	3867	2900	2320	1933	1450	1160	928
	3.0	71.0	7100	4733	3550	2840	2367	1775	1420	1136
3/4K-100	1.0	45.6	4560	3040	2280	1824	1520	1140	912	730
	1.5	55.8	5580	3720	2790	2232	1860	1395	1116	893
QCK-100	2.0	64.5	6450	4300	3225	2580	2150	1613	1290	1032
	3.0	79.0	7900	5267	3950	3160	2633	1975	1580	1264
3/4K-110	1.0	50.1	5010	3340	2505	2004	1670	1253	1002	802
	1.5	61.4	6140	4093	3070	2456	2047	1535	1228	982
	2.0	70.9	7090	4727	3545	2836	2363	1773	1418	1134
[1/2K, 3/4K]-120	3.0	86.8	8680	5787	4340	3472	2893	2170	1736	1389
	1.0	54.7	5470	3647	2735	2188	1823	1368	1094	875
	1.5	67.0	6700	4467	3350	2680	2233	1675	1340	1072
	2.0	77.4	7740	5160	3870	3096	2580	1935	1548	1238
QCK-120	3.0	94.7	9470	6313	4735	3788	3157	2368	1894	1515
	1.0	63.8	6380	4253	3190	2552	2127	1595	1276	1021
3/4K-140	1.5	78.1	7810	5207	3905	3124	2603	1953	1562	1250
	2.0	90.2	9020	6013	4510	3608	3007	2255	1804	1443
	3.0	111	11100	7400	5550	4440	3700	2775	2220	1776
QCK-150	1.0	68.4	6840	4560	3420	2736	2280	1710	1368	1094
	1.5	83.8	8380	5587	4190	3352	2793	2095	1676	1341
	2.0	96.7	9670	6447	4835	3868	3223	2418	1934	1547
	3.0	118	11800	7867	5900	4720	3933	2950	2360	1888
3/4K-160	1.0	72.9	7290	4860	3645	2916	2430	1823	1458	1166
	1.5	89.3	8930	5953	4465	3572	2977	2233	1786	1429
	2.0	103	10300	6867	5150	4120	3433	2575	2060	1648
	3.0	126	12600	8400	6300	5040	4200	3150	2520	2016
3/4K-180	1.0	82.0	8200	5467	4100	3280	2733	2050	1640	1312
	1.5	100	10000	6667	5000	4000	3333	2500	2000	1600
QCK-180	2.0	116	11600	7733	5800	4640	3867	2900	2320	1856
	3.0	142	14200	9467	7100	5680	4733	3550	2840	2272
3/4K-210	1.0	95.7	9570	6380	4785	3828	3190	2393	1914	1531
	1.5	117	11700	7800	5850	4680	3900	2925	2340	1872
QCK-210	2.0	135	13500	9000	6750	5400	4500	3375	2700	2160
	3.0	166	16600	11067	8300	6640	5533	4150	3320	2656



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.

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

Typical Assembly with Ceramic Disc and Core



CP26277-1-NY Quick TeeJet® Cap for ceramic disc and core.
See page 63 for ordering information.

Hollow Cone Spray Pattern

Produced by Cores #13, 23, 25, 45 & 46



Orifice Discs

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

Ceramic Sizes Available:

DCER-2 through DCER-10.



Cores

Standard cores are made of brass. Also available in ceramic, hardened stainless steel, aluminum and Nylon. All cores, with the exception of ceramic, are made with rear "nibs". Be 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.



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

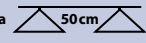
To order core only, specify core number and material.

Examples:

- DC13-CER – Ceramic
- DC13-HSS – Hardened Stainless Steel
- DC13-AL – Aluminum
- 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.

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 173–187 for useful formulas and information.

		bar	CAPACITY ONE NOZZLE IN l/min	l/hr 									
				5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	14 km/h	16 km/h	
D2	DC13	5.0	0.41	98.4	82.0	70.3	61.5	54.7	49.2	41.0	35.1	30.8	
		10.0	0.53	127	106	90.9	79.5	70.7	63.6	53.0	45.4	39.8	
		15.0	0.63	151	126	108	94.5	84.0	75.6	63.0	54.0	47.3	
		20.0	0.70	168	140	120	105	93.3	84.0	70.0	60.0	52.5	
D3	DC13	5.0	0.44	106	88.0	75.4	66.0	58.7	52.8	44.0	37.7	33.0	
		10.0	0.59	142	118	101	88.5	78.7	70.8	59.0	50.6	44.3	
		15.0	0.68	163	136	117	102	90.7	81.6	68.0	58.3	51.0	
		20.0	0.77	185	154	132	116	103	92.4	77.0	66.0	57.8	
D4	DC13	5.0	0.59	142	118	101	88.5	78.7	70.8	59.0	50.6	44.3	
		10.0	0.76	182	152	130	114	101	91.2	76.0	65.1	57.0	
		15.0	0.89	214	178	153	134	119	107	89.0	76.3	66.8	
		20.0	1.00	240	200	171	150	133	120	100	85.7	75.0	
D2	DC23	5.0	0.53	127	106	90.9	79.5	70.7	63.6	53.0	45.4	39.8	
		10.0	0.70	168	140	120	105	93.3	84.0	70.0	60.0	52.5	
		15.0	0.83	199	166	142	125	111	99.6	83.0	71.1	62.3	
		20.0	0.93	223	186	159	140	124	112	93.0	79.7	69.8	
D3	DC23	5.0	0.58	139	116	99.4	87.0	77.3	69.6	58.0	49.7	43.5	
		10.0	0.78	187	156	134	117	104	93.6	78.0	66.9	58.5	
		15.0	0.93	223	186	159	140	124	112	93.0	79.7	69.8	
		20.0	1.10	264	220	189	165	147	132	110	94.3	82.5	
D4	DC23	5.0	0.77	185	154	132	116	103	92.4	77.0	66.0	57.8	
		10.0	1.10	264	220	189	165	147	132	110	94.3	82.5	
		15.0	1.30	312	260	223	195	173	156	130	111	97.5	
		20.0	1.40	336	280	240	210	187	168	140	120	105	
D5	DC23	5.0	0.91	218	182	156	137	121	109	91.0	78.0	68.3	
		10.0	1.30	312	260	223	195	173	156	130	111	97.5	
		15.0	1.50	360	300	257	225	200	180	150	129	113	
		20.0	1.70	408	340	291	255	227	204	170	146	128	
D2	DC25	5.0	0.79	190	158	135	119	105	94.8	79.0	67.7	59.3	
		10.0	1.10	264	220	189	165	147	132	110	94.3	82.5	
		15.0	1.30	312	260	223	195	173	156	130	111	97.5	
		20.0	1.50	360	300	257	225	200	180	150	129	113	
D3	DC25	5.0	0.95	228	190	163	143	127	114	95.0	81.4	71.3	
		10.0	1.30	312	260	223	195	173	156	130	111	97.5	
		15.0	1.60	384	320	274	240	213	192	160	137	120	
		20.0	1.80	432	360	309	270	240	216	180	154	135	
D4	DC25	5.0	1.40	336	280	240	210	187	168	140	120	105	
		10.0	2.00	480	400	343	300	267	240	200	171	150	
		15.0	2.40	576	480	411	360	320	288	240	206	180	
		20.0	2.80	672	560	480	420	373	336	280	240	210	
D5	DC25	5.0	1.70	408	340	291	255	227	204	170	146	128	
		10.0	2.40	576	480	411	360	320	288	240	206	180	
		15.0	2.90	696	580	497	435	387	348	290	249	218	
		20.0	3.30	792	660	566	495	440	396	330	283	248	
D2	DC45	5.0	1.00	240	200	171	150	133	120	100	85.7	75.0	
		10.0	1.40	336	280	240	210	187	168	140	120	105	
		15.0	1.70	408	340	291	255	227	204	170	146	128	
		20.0	2.00	480	400	343	300	267	240	200	171	150	
D3	DC45	5.0	1.20	288	240	206	180	160	144	120	103	90.0	
		10.0	1.60	384	320	274	240	213	192	160	137	120	
		15.0	2.00	480	400	343	300	267	240	200	171	150	
		20.0	2.30	552	460	394	345	307	276	230	197	173	
D4	DC45	5.0	1.80	432	360	309	270	240	216	180	154	135	
		10.0	2.50	600	500	429	375	333	300	250	214	188	
		15.0	3.10	744	620	531	465	413	372	310	266	233	
		20.0	3.60	864	720	617	540	480	432	360	309	270	
D5	DC45	5.0	2.30	552	460	394	345	307	276	230	197	173	
		10.0	3.20	768	640	549	480	427	384	320	274	240	
		15.0	3.90	936	780	669	585	520	468	390	334	293	
		20.0	4.50	1080	900	771	675	600	540	450	386	338	



ConeJet® VisiFlo® Hollow Cone Spray Tips

Typical Applications:

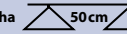
Excellent: Post-Emerge Contact Herbicides, Fungicides and Insecticides—To assure finely atomized spray droplets reach target areas.

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

Features:

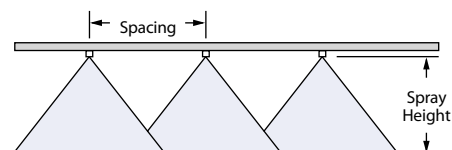
- VisiFlo color-coded version consists of stainless steel or ceramic orifice in polypropylene body. Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Finely atomized spray pattern provides thorough coverage.
- TX-VS1 and TX-VS2 available in VisiFlo color-coded stainless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



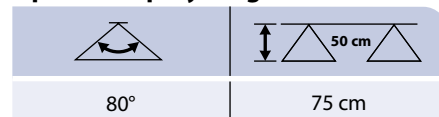
		CAPACITY ONE NOZZLE IN l/min	l/ha 								
			5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	14 km/h	16 km/h
TX-1	5.0	0.081	19.4	16.2	13.9	12.2	10.8	9.7	8.1	6.9	6.1
	7.0	0.093	22.3	18.6	15.9	14.0	12.4	11.2	9.3	8.0	7.0
	10.0	0.11	26.4	22.0	18.9	16.5	14.7	13.2	11.0	9.4	8.3
	15.0	0.13	31.2	26.0	22.3	19.5	17.3	15.6	13.0	11.1	9.8
	20.0	0.14	33.6	28.0	24.0	21.0	18.7	16.8	14.0	12.0	10.5
TX-2	5.0	0.16	38.4	32.0	27.4	24.0	21.3	19.2	16.0	13.7	12.0
	7.0	0.19	45.6	38.0	32.6	28.5	25.3	22.8	19.0	16.3	14.3
	10.0	0.22	52.8	44.0	37.7	33.0	29.3	26.4	22.0	18.9	16.5
	15.0	0.26	62.4	52.0	44.6	39.0	34.7	31.2	26.0	22.3	19.5
	20.0	0.30	72.0	60.0	51.4	45.0	40.0	36.0	30.0	25.7	22.5
TX-3	5.0	0.25	60.0	50.0	42.9	37.5	33.3	30.0	25.0	21.4	18.8
	7.0	0.28	67.2	56.0	48.0	42.0	37.3	33.6	28.0	24.0	21.0
	10.0	0.33	79.2	66.0	56.6	49.5	44.0	39.6	33.0	28.3	24.8
	15.0	0.39	93.6	78.0	66.9	58.5	52.0	46.8	39.0	33.4	29.3
	20.0	0.45	108	90.0	77.1	67.5	60.0	54.0	45.0	38.6	33.8
TX-4	5.0	0.33	79.2	66.0	56.6	49.5	44.0	39.6	33.0	28.3	24.8
	7.0	0.39	93.6	78.0	66.9	58.5	52.0	46.8	39.0	33.4	29.3
	10.0	0.45	108	90.0	77.1	67.5	60.0	54.0	45.0	38.6	33.8
	15.0	0.55	132	110	94.3	82.5	73.3	66.0	55.0	47.1	41.3
	20.0	0.62	149	124	106	93.0	82.7	74.4	62.0	53.1	46.5
TX-6	5.0	0.50	120	100	85.7	75.0	66.7	60.0	50.0	42.9	37.5
	7.0	0.58	139	116	99.4	87.0	77.3	69.6	58.0	49.7	43.5
	10.0	0.68	163	136	117	102	90.7	81.6	68.0	58.3	51.0
	15.0	0.82	197	164	141	123	109	98.4	82.0	70.3	61.5
	20.0	0.93	223	186	159	140	124	112	93.0	79.7	69.8
TX-8	5.0	0.67	161	134	115	101	89.3	80.4	67.0	57.4	50.3
	7.0	0.79	190	158	135	119	105	94.8	79.0	67.7	59.3
	10.0	0.93	223	186	159	140	124	112	93.0	79.7	69.8
	15.0	1.10	264	220	189	165	147	132	110	94.3	82.5
	20.0	1.30	312	260	223	195	173	156	130	111	97.5
TX-10	5.0	0.84	202	168	144	126	112	101	84.0	72.0	63.0
	7.0	0.98	235	196	168	147	131	118	98.0	84.0	73.5
	10.0	1.20	288	240	206	180	160	144	120	103	90.0
	15.0	1.40	336	280	240	210	187	168	140	120	105
	20.0	1.60	384	320	274	240	213	192	160	137	120
TX-12	5.0	1.00	240	200	171	150	133	120	100	85.7	75.0
	7.0	1.20	288	240	206	180	160	144	120	103	90.0
	10.0	1.40	336	280	240	210	187	168	140	120	105
	15.0	1.70	408	340	291	255	227	204	170	146	128
	20.0	2.00	480	400	343	300	267	240	200	171	150
TX-18	5.0	1.50	360	300	257	225	200	180	150	129	113
	7.0	1.80	432	360	309	270	240	216	180	154	135
	10.0	2.20	528	440	377	330	293	264	220	189	165
	15.0	2.60	624	520	446	390	347	312	260	223	195
	20.0	3.00	720	600	514	450	400	360	300	257	225
TX-26	5.0	2.20	528	440	377	330	293	264	220	189	165
	7.0	2.60	624	520	446	390	347	312	260	223	195
	10.0	3.10	744	620	531	465	413	372	310	266	233
	15.0	3.80	912	760	651	570	507	456	380	326	285
	20.0	4.40	1056	880	754	660	587	528	440	377	330

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

†Specify material.



Optimum Spray Height



See pages 173–187 for useful formulas and information.

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



Typical Applications:

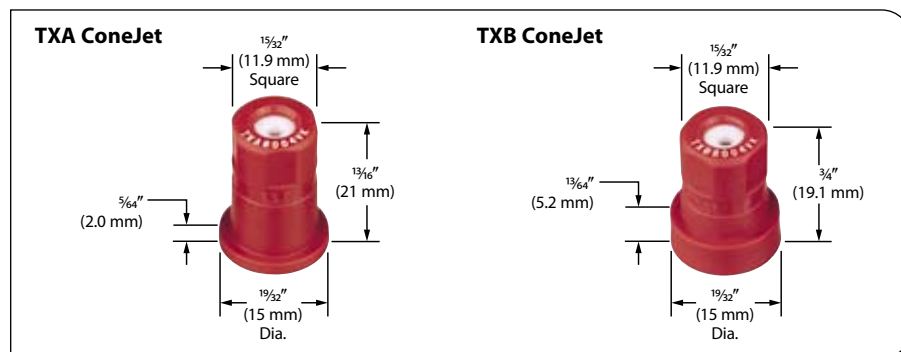
Excellent: Post-Emerge Contact Herbicides, Fungicides and Insecticides —

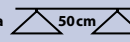
To assure finely atomized spray droplets reach target areas.

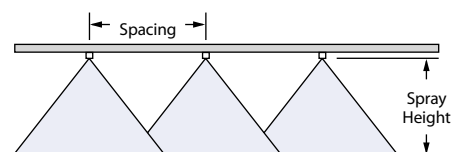
Good: For use with defoliant and foliar fertilizers at pressures 40 PSI (3 bar) and above.

Features:

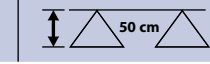
- Maximum operating pressure 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar).
- Finely atomized spray pattern provides thorough coverage.
- Longer wear life.
- Resists corrosion.
- Accepts more abrasive pesticide formulation.
- Polypropylene body for use with corrosive materials and ceramic insert.
- Popular nozzle sizes fit most sprayers.
- Incorporates ISO color-coding scheme.



Nozzle	bar	CAPACITY ONE NOZZLE IN l/min	l/ha 									
			5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	14 km/h	16 km/h	
TXA800050VK TXB800050VK (100)	5.0	0.25	60.0	50.0	42.9	37.5	33.3	30.0	25.0	21.4	18.8	
	7.0	0.28	67.2	56.0	48.0	42.0	37.3	33.6	28.0	24.0	21.0	
	10.0	0.33	79.2	66.0	56.6	49.5	44.0	39.6	33.0	28.3	24.8	
	15.0	0.39	93.6	78.0	66.9	58.5	52.0	46.8	39.0	33.4	29.3	
	20.0	0.45	108	90.0	77.1	67.5	60.0	54.0	45.0	38.6	33.8	
TXA800067VK TXB800067VK (50)	5.0	0.33	79.2	66.0	56.6	49.5	44.0	39.6	33.0	28.3	24.8	
	7.0	0.39	93.6	78.0	66.9	58.5	52.0	46.8	39.0	33.4	29.3	
	10.0	0.45	108	90.0	77.1	67.5	60.0	54.0	45.0	38.6	33.8	
	15.0	0.55	132	110	94.3	82.5	73.3	66.0	55.0	47.1	41.3	
	20.0	0.62	149	124	106	93.0	82.7	74.4	62.0	53.1	46.5	
TXA8001VK TXB8001VK (50)	5.0	0.50	120	100	85.7	75.0	66.7	60.0	50.0	42.9	37.5	
	7.0	0.58	139	116	99.4	87.0	77.3	69.6	58.0	49.7	43.5	
	10.0	0.68	163	136	117	102	90.7	81.6	68.0	58.3	51.0	
	15.0	0.82	197	164	141	123	109	98.4	82.0	70.3	61.5	
	20.0	0.93	223	186	159	140	124	112	93.0	79.7	69.8	
TXA80015VK TXB80015VK (50)	5.0	0.75	180	150	129	113	100	90.0	75.0	64.3	56.3	
	7.0	0.88	211	176	151	132	117	106	88.0	75.4	66.0	
	10.0	1.00	240	200	171	150	133	120	100	85.7	75.0	
	15.0	1.30	312	260	223	195	173	156	130	111	97.5	
	20.0	1.50	360	300	257	225	200	180	150	129	113	
TXA8002VK TXB8002VK (50)	5.0	1.00	240	200	171	150	133	120	100	85.7	75.0	
	7.0	1.20	288	240	206	180	160	144	120	103	90.0	
	10.0	1.40	336	280	240	210	187	168	140	120	105	
	15.0	1.70	408	340	291	255	227	204	170	146	128	
	20.0	2.00	480	400	343	300	267	240	200	171	150	
TXA8003VK TXB8003VK (50)	5.0	1.50	360	300	257	225	200	180	150	129	113	
	7.0	1.80	432	360	309	270	240	216	180	154	135	
	10.0	2.20	528	440	377	330	293	264	220	189	165	
	15.0	2.60	624	520	446	390	347	312	260	223	195	
	20.0	3.00	720	600	514	450	400	360	300	257	225	
TXA8004VK TXB8004VK (50)	5.0	2.10	504	420	360	315	280	252	210	180	158	
	7.0	2.40	576	480	411	360	320	288	240	206	180	
	10.0	2.90	696	580	497	435	387	348	290	249	218	
	15.0	3.60	864	720	617	540	480	432	360	309	270	
	20.0	4.10	984	820	703	615	547	492	410	351	308	



Optimum Spray Height

	
80°	75 cm

See pages 173–187 for useful formulas and information.

How to order:

Specify tip number.

Example:

TXA8004VK – Ceramic with VisiFlo color-coding

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

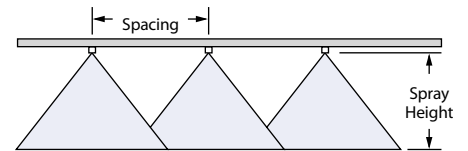


FullJet® Wide Angle Full Cone Spray Tips



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 63 for more information.



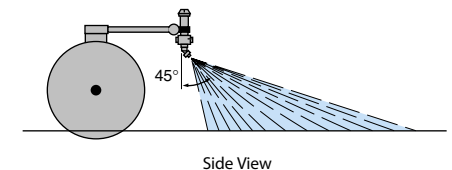
Optimum Spray Height

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.

See pages 173–187 for useful formulas and information.



How to order:

Specify tip number.

Examples:

FL-5VS – Stainless Steel with VisiFlo color-coding

FL-5VC – Celcon with Stainless Steel vane and VisiFlo color-coding

	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).

WhirlJet® Wide Angle Hollow Cone Spray Nozzles

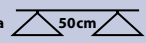


Features:

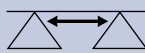
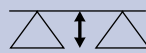
- Made of stainless steel.
- Large orifices and open internal passages help minimize clogging problems.
- Nozzle caps are interchangeable.
- 1/4" NPT or BSPT (M) inlet connection.

Hollow Cone Spray Pattern



	bar	CAPACITY ONE NOZZLE IN l/min	l/ha  50cm					
			5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h
1/4B-SS2-2W	1.0	0.89	214	178	153	134	119	107
	1.5	1.06	254	212	182	159	141	127
	2.0	1.20	288	240	206	180	160	144
	2.5	1.33	319	266	228	200	177	160
	3.0	1.44	346	288	247	216	192	173
1/4B-SS2-5W	1.0	1.21	290	242	207	182	161	145
	1.5	1.46	350	292	250	219	195	175
	2.0	1.66	398	332	285	249	221	199
	2.5	1.84	442	368	315	276	245	221
1/4B-SS3-8W	3.0	1.99	478	398	341	299	265	239
	1.0	1.85	444	370	317	278	247	222
	1.5	2.24	538	448	384	336	299	269
	2.0	2.56	614	512	439	384	341	307
1/4B-SS5-5W	2.5	2.84	682	568	487	426	379	341
	3.0	3.10	744	620	531	465	413	372
	1.0	2.27	545	454	389	341	303	272
	1.5	2.76	662	552	473	414	368	331
1/4B-SS5-8W	2.0	3.17	761	634	543	476	423	380
	2.5	3.54	850	708	607	531	472	425
	3.0	3.86	926	772	662	579	515	463
1/4B-SS5-8W	1.0	2.32	557	464	398	348	309	278
	1.5	2.81	674	562	482	422	375	337
	2.0	3.26	782	652	559	489	435	391
	2.5	3.63	871	726	622	545	484	436
1/4B-SS5-10W	3.0	3.97	953	794	681	596	529	476
	1.0	2.96	710	592	507	444	395	355
	1.5	3.63	871	726	622	545	484	436
	2.0	4.19	1006	838	718	629	559	503
1/4B-SS5-15W	2.5	4.68	1123	936	802	702	624	562
	3.0	5.13	1231	1026	879	770	684	616
	1.0	3.12	749	624	535	468	416	374
	1.5	3.79	910	758	650	569	505	455
1/4B-SS10-10W	2.0	4.35	1044	870	746	653	580	522
	2.5	4.87	1169	974	835	731	649	584
	3.0	5.26	1262	1052	902	789	701	631
	1.0	4.53	1087	906	777	680	604	544
	1.5	5.51	1322	1102	945	827	735	661
	2.0	6.33	1519	1266	1085	950	844	760
	2.5	7.05	1692	1410	1209	1058	940	846
	3.0	7.70	1848	1540	1320	1155	1027	924

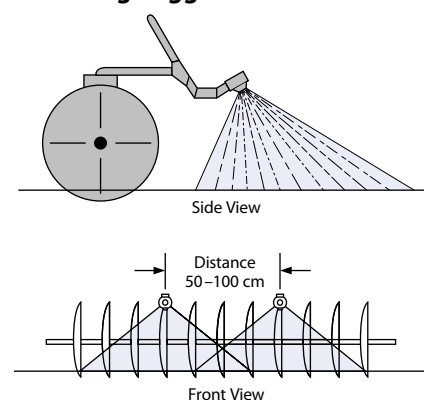
Optimum Spray Height

	
50 cm	50 cm
75 cm	75 cm

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

See pages 173–187 for useful formulas and information.

Mounting Suggestions:



How to order:

Specify nozzle number and material.

Example:

(B) 1/4B-SS-5W Stainless Steel

(B) = BSPT

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



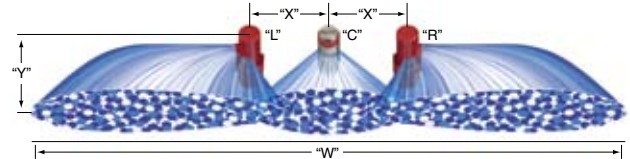
XP BoomJet® Boomless Flat Spray Nozzles

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 feet (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).



 "R", "L"	CENTER NOZZLE "C"	l/ha FOR THREE NOZZLES																	
		 bar	DROP SIZE	CAPACITY THREE NOZZLES IN l/min	SPRAY WIDTH "W" (meters)		NOZZLE SPACING "X" = 50 cm												
							HEIGHT "Y" = 60 cm						HEIGHT "Y" = 90 cm						
							60 cm HEIGHT	90 cm HEIGHT	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
(B)1/4XP10R (B)1/4XP10L	1/4TTJ08	1.5	XC	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	XC	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	XC	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	XC	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	4.0	XC	13.2	9.0	9.8	220	110	73.3	55.0	36.7	27.5	202	101	67.3	50.5	33.7	25.3	
		1.5	XC	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	XC	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	XC	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	
(B)1/4XP25R (B)1/4XP25L	1/4TTJ10	3.5	XC	20.7	9.8	10.2	317	158	106	79.2	52.8	39.6	304	152	101	76.1	50.7	38.1	
		4.0	XC	22.3	10.2	10.8	328	164	109	82.0	54.7	41.0	310	155	103	77.4	51.6	38.7	
		1.5	XC	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	XC	19.1	8.4	9.2	341	171	114	85.3	56.8	42.6	311	156	104	77.9	51.9	38.9	
(B)1/2XP40R (B)1/2XP40L	1/4TTJ15	3.0	XC	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	XC	25.6	9.8	10.2	392	196	131	98.0	65.3	49.0	376	188	125	94.1	62.7	47.1	
		4.0	XC	27.5	10.2	10.8	404	202	135	101	67.4	50.6	382	191	127	95.5	63.7	47.7	
		1.5	XC	26.6	7.8	8.4	512	256	171	128	85.3	63.9	475	238	158	119	79.2	59.4	
(B)1/2XP40R (B)1/2XP40L	1/4TTJ15	2.0	XC	31.0	9.0	9.8	517	258	172	129	86.1	64.6	474	237	158	119	79.1	59.3	
		3.0	XC	37.7	9.6	10.4	589	295	196	147	98.2	73.6	544	272	181	136	90.6	68.0	
		3.5	XC	40.8	10.2	10.8	600	300	200	150	100	75.0	567	283	189	142	94.4	70.8	
		4.0	XC	44.4	10.8	11.6	617	308	206	154	103	77.1	574	287	191	144	95.7	71.8	

 "R", "L"	CENTER NOZZLE "C" 	l/ha FOR THREE NOZZLES																	
		 bar	DROP SIZE	CAPACITY THREE NOZZLES IN l/min	SPRAY WIDTH "W" (meters)		NOZZLE SPACING "X" = 75 cm												
							HEIGHT "Y" = 60 cm						HEIGHT "Y" = 90 cm						
							60 cm HEIGHT	90 cm HEIGHT	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
(B)1/4XP10R (B)1/4XP10L	1/4TTJ06 (50)	1.5	XC	7.30	6.7	7.5	163	81.7	54.5	40.9	27.2	20.4	146	73.0	48.7	36.5	24.3	18.3	
		2.0	XC	8.40	7.5	8.3	168	84.0	56.0	42.0	28.0	21.0	152	75.9	50.6	38.0	25.3	19.0	
		3.0	XC	10.3	8.3	9.1	186	93.1	62.0	46.5	31.0	23.3	170	84.9	56.6	42.4	28.3	21.2	
		3.5	XC	11.3	9.1	9.7	186	93.1	62.1	46.6	31.0	23.3	175	87.4	58.2	43.7	29.1	21.8	
		4.0	XC	12.2	9.5	10.3	193	96.3	64.2	48.2	32.1	24.1	178	88.8	59.2	44.4	29.6	22.2	
(B)1/4XP20R (B)1/4XP20L	1/4TTJ06 (50)	1.5	XC	12.8	6.9	8.3	278	139	92.8	69.6	46.4	34.8	231	116	77.1	57.8	38.6	28.9	
		2.0	XC	14.8	8.5	8.9	261	131	87.1	65.3	43.5	32.6	249	125	83.1	62.4	41.6	31.2	
		3.0	XC	18.1	9.7	10.1	280	140	93.3	70.0	46.6	35.0	269	134	89.6	67.2	44.8	33.6	
		3.5	XC	19.8	10.3	10.7	288	144	96.1	72.1	48.1	36.0	278	139	92.5	69.4	46.3	34.7	
		4.0	XC	21.3	10.7	11.3	299	149	99.5	74.6	49.8	37.3	283	141	94.2	70.7	47.1	35.3	
(B)1/4XP25R (B)1/4XP25L	1/4TTJ08	1.5	XC	15.9	7.9	8.3	302	151	101	75.5	50.3	37.7	287	144	95.8	71.8	47.9	35.9	
		2.0	XC	18.5	8.9	9.7	312	156	104	77.9	52.0	39.0	286	143	95.4	71.5	47.7	35.8	
		3.0	XC	22.7	9.7	10.3	351	176	117	87.8	58.5	43.9	331	165	110	82.6	55.1	41.3	
		3.5	XC	24.7	10.3	10.7	360	180	120	89.9	60.0	45.0	346	173	115	86.6	57.7	43.3	
		4.0	XC	26.5	10.7	11.3	371	186	124	92.9	61.9	46.4	352	176	117	87.9	58.6	44.0	
(B)1/2XP40R (B)1/2XP40L	1/4TTJ10	1.5	XC	25.2	8.3	8.9	455	228	152	114	75.9	56.9	425	212	142	106	70.8	53.1	
		2.0	XC	29.4	9.5	10.3	464	232	155	116	77.4	58.0	428	214	143	107	71.4	53.5	
		3.0	XC	35.8	10.1	10.9	532	266	177	133	88.6	66.5	493	246	164	123	82.1	61.6	
		3.5	XC	38.6	10.7	11.3	541	271	180	135	90.2	67.6	512	256	171	128	85.4	64.0	
		4.0	XC	41.9	11.3	12.1	556	278	185	139	92.7	69.5	519	260	173	130	86.6	64.9	
(B)1/2XP80R (B)1/2XP80L	1/4TTJ15	1.5	XC	48.4	9.5	10.9	764	382	255	191	127	95.5	666	333	222	167	111	83.3	
		2.0	XC	55.8	10.7	11.5	782	391	261	196	130	97.8	728	364	243	182	121	91.0	
		3.0	XC	68.1	11.3	12.1	904	452	301	226	151	113	844	422	281	211	141	106	
		3.5	XC	73.2	11.5	12.5	955	477	318	239	159	119	878	439	293	220	146	110	
		4.0	XC	79.2	12.1	12.7	982	491	327	245	164	123	935	468	312	234	156	117	

Note: Always double check your application rates.

Tabulations are based on spraying water at 70°F (21°C).

See pages 173–187 for drop size classification, useful formulas and information.

(B)=BSPT

Very Fine Fine Medium Coarse Very Coarse Extremely Coarse

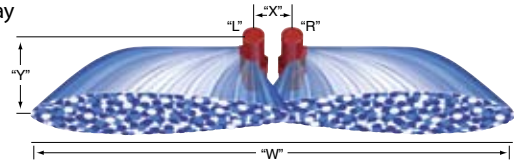
XP BoomJet® Boomless Flat Spray Nozzles



- NPT or BSPT (male) threads for easy installation.
- Color-coding for easy capacity identification.

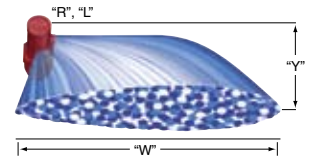
How to order:
Specify part number.
Example:

(B)1/2XP80L(R)-VS – VisiFlo® Stainless
Steel left boom spray



 "R", "L"	 bar	DROPS SIZE	CAPACITY TWO NOZZLE IN l/min	SPRAY WIDTH "W" (meters)		NOZZLE SPACING "X" = 0-7 cm										l/ha FOR TWO NOZZLES									
				60 cm HEIGHT	90 cm HEIGHT	HEIGHT "Y" = 60 cm										HEIGHT "Y" = 90 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	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	1.5	XC	5.62	5.2	6.0	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	XC	6.46	6.0	6.8	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	XC	7.90	6.8	7.6	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	XC	8.52	7.6	8.2	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	4.0	XC	9.10	8.0	8.8	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
	1.5	XC	11.1	5.4	6.8	308	206	154	123	103	77.1	61.7	49.3	41.1	35.2	245	163	122	97.9	81.6	61.2	49.0	39.2	32.6	28.0
	2.0	XC	12.9	7.0	7.4	276	184	138	111	92.1	69.1	55.3	44.2	36.9	31.6	261	174	131	105	87.2	65.4	52.3	41.8	34.9	29.9
	3.0	XC	15.7	8.2	8.6	287	191	144	115	95.7	71.8	57.4	46.0	38.3	32.8	274	183	137	110	91.3	68.5	54.8	43.8	36.5	31.3
(B)1/4XP25R (B)1/4XP25L	3.5	XC	17.0	8.8	9.2	290	193	145	116	96.6	72.4	58.0	46.4	38.6	33.1	277	185	139	111	92.4	69.3	55.4	44.3	37.0	31.7
	4.0	XC	18.2	9.2	9.8	297	198	148	119	98.9	74.2	59.3	47.5	39.6	33.9	279	186	139	111	92.9	69.6	55.7	44.6	37.1	31.8
	1.5	XC	13.7	6.4	6.8	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
	2.0	XC	15.9	7.4	8.2	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
(B)1/2XP40R (B)1/2XP40L	3.0	XC	19.5	8.2	8.8	357	238	178	143	119	89.2	71.3	57.1	47.6	40.8	332	222	166	133	111	83.1	66.5	53.2	44.3	38.0
	3.5	XC	21.0	8.8	9.2	358	239	179	143	119	89.5	71.6	57.3	47.7	40.9	342	228	171	137	114	85.6	68.5	54.8	45.7	39.1
	4.0	XC	22.4	9.2	9.8	365	243	183	146	122	91.3	73.0	58.4	48.7	41.7	343	229	171	137	114	85.7	68.6	54.9	45.7	39.2
	1.5	XC	22.4	6.8	7.4	494	329	247	198	165	124	98.8	79.1	65.9	56.5	454	303	227	182	151	114	90.8	72.6	60.5	51.9
(B)1/2XP80R (B)1/2XP80L	2.0	XC	26.2	8.0	8.8	491	328	246	197	164	123	98.3	78.6	65.5	56.1	447	298	223	179	149	112	89.3	71.5	59.5	51.0
	3.0	XC	31.8	8.6	9.4	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	XC	34.0	9.2	9.8	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
	4.0	XC	36.8	9.8	10.6	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
(B)1/2XP80R (B)1/2XP80L	1.5	XC	44.2	8.0	9.4	829	553	414	332	276	207	166	133	111	94.7	705	470	353	282	235	176	141	113	94.0	80.6
	2.0	XC	51.0	9.2	10.0	832	554	416	333	277	208	166	133	111	95.0	765	510	383	306	255	191	153	122	102	87.4
	3.0	XC	62.2	9.8	10.6	952	635	476	381	317	238	190	152	127	109	880	587	440	352	293	220	176	141	117	101
	3.5	XC	66.4	10.0	11.0	996	664	498	398	332	249	199	159	133	114	905	604	453	362	302	226	181	145	121	103
(B)1/2XP80L	4.0	XC	71.6	10.6	11.2	1013	675	507	405	338	253	203	162	135	116	959	639	479	384	320	240	192	153	128	110

Note: Always double check your application rates.
Tabulations are based on spraying water at 70°F (21°C).
See pages 173-187 for drop size classification, useful formulas and information.



		DROPSIZE	CAPACITY ONE NOZZLE IN l/min	SPRAY WIDTH "W" (meters)		NOZZLE SPACING "X" = 0-7 cm																					I/ha FOR SINGLE NOZZLE									
				60 cm HEIGHT	90 cm HEIGHT	HEIGHT "Y" = 60 cm										HEIGHT "Y" = 90 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	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	1.5	XC	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	XC	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	XC	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	XC	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)1/4XP10L	4.0	XC	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											
	1.5	XC	5.56	2.7	3.4	309	206	154	124	103	77.2	61.8	49.4	41.2	35.3	245	164	123	98.1	81.8	61.3	49.1	39.2	32.7	28.0											
	2.0	XC	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											
	3.0	XC	7.87	4.1	4.3	288	192	144	115	96.0	72.0	57.6	46.1	38.4	32.9	275	183	137	110	91.5	68.6	54.9	43.9	36.6	31.4											
(B)1/4XP20L	3.5	XC	8.52	4.4	4.6	290	194	145	116	96.8	72.6	58.1	46.5	38.7	33.2	278	185	139	111	92.6	69.5	55.6	44.5	37.0	31.8											
	4.0	XC	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											
	1.5	XC	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											
	2.0	XC	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											
(B)1/4XP25R	3.0	XC	9.77	4.1	4.4	357	238	179	143	119	89.4	71.5	57.2	47.7	40.9	333	222	167	133	111	83.3	66.6	53.3	44.4	38.1											
	3.5	XC	10.5	4.4	4.6	358	239	179	143	119	89.5	71.6	57.3	47.7	40.9	342	228	171	137	114	85.6	68.5	54.8	45.7	39.1											
	4.0	XC	11.2	4.6	4.9	365	243	183	146	122	91.3	73.0	58.4	48.7	41.7	343	229	171	137	114	85.7	68.6	54.9	45.7	39.2											
	1.5	XC	11.2	3.4	3.7	494	329	247	198	165	124	98.8	79.1	65.9	56.5	454	303	227	182	151	114	90.8	72.6	60.5	51.9											
(B)1/2XP40R	2.0	XC	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	89.3	71.5	59.5	51.0											
	3.0	XC	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	XC	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											
	4.0	XC	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											
(B)1/2XP80R	1.5	XC	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											
	2.0	XC	25.5	4.6	5.0	832	554	416	333	277	208	166	133	111	95.0	765	510	383	306	255	191	153	122	102	87.4											
	3.0	XC	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											
	3.5	XC	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											
(B)1/2XP80L	4.0	XC	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



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

Type 5880 BoomJet nozzle is used for spraying areas not easily accessed with a boom sprayer. It combines two off-center tips and three VeeJet® nozzles to produce an overall wide swath flat spray. The nozzle assembly provides good distribution considering the wide pattern coverage obtained; however, the uniformity is not as good as with a properly operated boom sprayer.* Supplied with one additional 1/4" NPT pipe plug and one blank tip for setting BoomJet to one side only. Also has a 1/4" NPT pressure gauge port.

*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.

	(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
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
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
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
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 173–187 for useful formulas and information.



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

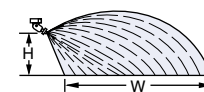
Large capacity swivel nozzles, available in both single or double styles, are available with 3/4" NPT (F) inlet connections for use as boomless type nozzles. For double swivels the tabulated GPM (l/min) capacities are twice those shown for single swivels.

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.



	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 173–187 for useful formulas and information.

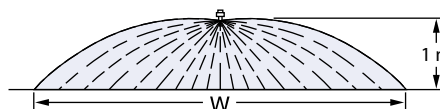


Type 1/4-KLC and Type 3/4-KLC
1/4" NPT male and 3/4" NPT male
pipe connections



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

	 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
3/4-KLC-50	0.7	19.1	6.1	626	470	376	313	235	188	157
	1.0	22.8	7.0	651	489	391	326	244	195	163
	2.0	32.3	7.9	818	613	491	409	307	245	204
	3.0	39.5	8.5	929	697	558	465	349	279	232
3/4-KLC-72	0.7	27.5	6.4	859	645	516	430	322	258	215
	1.0	32.9	7.6	866	649	519	433	325	260	216
	2.0	46.5	8.8	1057	793	634	528	396	317	264
	3.0	56.9	9.4	1211	908	726	605	454	363	303
3/4-KLC-108	0.7	41.2	6.4	1288	966	773	644	483	386	322
	1.0	49.2	8.5	1158	868	695	579	434	347	289
	2.0	69.6	10.1	1378	1034	827	689	517	413	345
	3.0	85.3	11.0	1551	1163	931	775	582	465	388

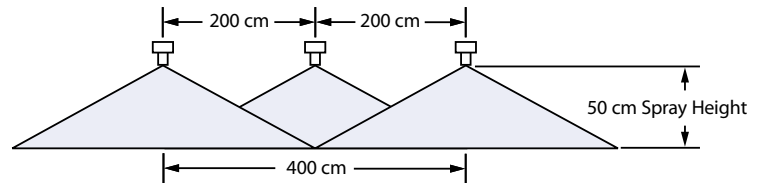
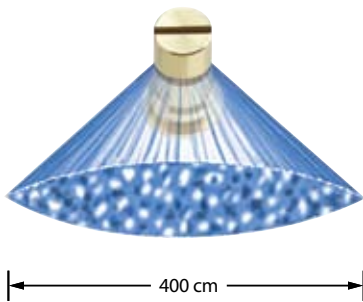
Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 173–187 for useful formulas and information.



TFW Turbo FloodJet® Extra-Wide Angle Flat Spray Tips

Features:

- Excellent spray distribution quality.
- Extra-wide spray pattern allows tip to be used for boomless spray applications.
- Ideal tip for residential and estate sprayers.
- Single tip provides approximately 160" (400 cm) spray pattern width at 20" (50 cm) height.
- For proper coverage spray patterns must be double overlapped.
- Large orifice reduces likelihood of clogging.
- Recommended operating pressure range: 20–50 PSI (1.5–3.5 bar).
- All brass construction.
- Can be used with CP25599-*/-NY Quick TeeJet® cap for automatic alignment.



Spray height may require adjustment to provide a suggested double overlap condition. As shown above.



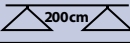
How to order:

Specify tip number.

Examples:

TFW-12 – Brass

TFW-20 – Brass

		CAPACITY ONE NOZZLE IN l/min	l/ha 											
	bar		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
TFW-12	1.5	3.35	251	201	168	144	126	112	101	83.8	62.8	50.3	40.2	33.5
	2.0	3.87	290	232	194	166	145	129	116	96.8	72.6	58.1	46.4	38.7
	2.5	4.33	325	260	216	185	162	144	130	108	81.1	64.9	51.9	43.3
	3.0	4.74	356	284	237	203	178	158	142	119	88.9	71.1	56.9	47.4
	3.5	5.12	384	307	256	219	192	171	154	128	96.0	76.8	61.4	51.2
TFW-20	1.5	5.58	418	335	279	239	209	186	167	139	105	83.7	66.9	55.8
	2.0	6.44	483	387	322	276	242	215	193	161	121	96.6	77.3	64.4
	2.5	7.20	540	432	360	309	270	240	216	180	135	108	86.4	72.0
	3.0	7.89	592	473	395	338	296	263	237	197	148	118	94.7	78.9
	3.5	8.52	639	511	426	365	320	284	256	213	160	128	102	85.2

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 173–187 for useful formulas and information.



Typical Applications:

See selection guide on pages 4 and 5 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 63 for more information.



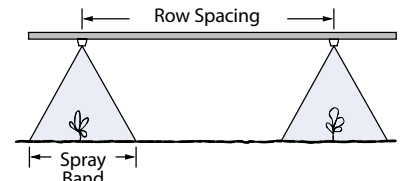
Note: Due to the pre-orifice design, this tip is not compatible with the 4193A check valve tip strainer.

	bar	DROP SIZE	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
				km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h	km/h
AI9501EVS (100)	2.0	VC	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	VC	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	C	0.68	204	136	102	81.6	54.4	40.8	136	90.7	68.0	54.4	36.3	27.2
	5.0	C	0.76	228	152	114	91.2	60.8	45.6	152	101	76.0	60.8	40.5	30.4
	6.0	C	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
AI9502EVS (50)	8.0	C	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
	2.0	VC	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	VC	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6
	4.0	VC	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4
	5.0	C	1.02	306	204	153	122	81.6	61.2	204	136	102	81.6	54.4	40.8
	6.0	C	1.12	336	224	168	134	89.6	67.2	224	149	112	89.6	59.7	44.8
AI9502SEVS (50)	7.0	C	1.21	363	242	182	145	98.6	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
	2.0	XC	0.81	243	162	122	97.2	64.8	48.6	162	108	81.0	64.8	43.2	32.4
	3.0	VC	0.99	297	198	149	119	79.2	59.4	198	132	99.0	79.2	52.8	39.6
	4.0	VC	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
AI9503EVS (50)	6.0	C	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
	2.0	XC	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
	3.0	VC	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2
	4.0	VC	1.36	408	272	204	163	109	81.6	272	181	136	109	72.5	54.4
AI9504EVS (50)	5.0	VC	1.52	456	304	228	182	122	91.2	304	203	152	122	81.1	60.8
	6.0	C	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
	2.0	XC	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6
	3.0	VC	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2
AI9505EVS (50)	4.0	VC	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
	2.0	XC	1.61	483	322	242	193	129	96.6	322	215	161	129	85.9	64.4
AI9506EVS (50)	3.0	XC	1.97	591	394	296	236	158	118	394	263	197	158	105	78.8
	4.0	VC	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
AI9508EVS (50)	2.0	XC	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	VC	2.74	822	548	411	329	219	164	548	365	274	219	146	110
	5.0	VC	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	C	3.62	1086	724	543	434	290	217	724	483	362	290	193	145

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

Very Fine Fine Medium Coarse Very Coarse Extremely Coarse

CONTACT PRODUCT	SYSTEMIC PRODUCT	DRIFT MANAGEMENT
GOOD	EXCELLENT	EXCELLENT



	95°	I/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 I/ha rate on band widths, multiply the tabulated I/ha for ROW SPACING by conversion factors.

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

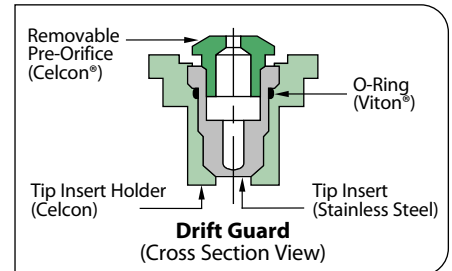
Specify tip number.

Example:

AI9504EVS – Stainless Steel with VisiFlo color-coding



DG TeeJet® Drift Guard Even Flat Spray Tips



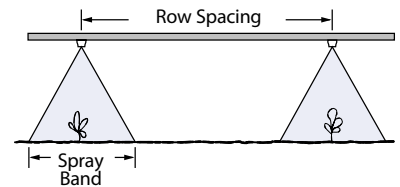
Note: Due to the pre-orifice design, this tip is not compatible with the 4193A check valve.

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.



	bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	I/ha 50cm Field Hectares						I/ha 75 cm 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
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

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

Very Fine Fine Medium Coarse Very Coarse Extremely Coarse

	95°	I/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 I/ha rate on band widths, multiply the tabulated I/ha for ROW SPACING by conversion factors.

See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

DG95015EVS – Stainless Steel with VisiFlo color-coding



Typical Applications:

See selection guide on pages 4 and 5 for recommended typical applications for TeeJet tips.

Features:

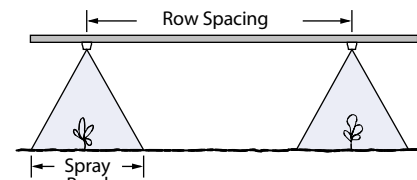
- Ideal for banding over the row or in row middles.
- Provides uniform distribution throughout the flat spray pattern.
- Easily mounted on spray boom or planter.
- Available with VisiFlo® color-coding in stainless steel or all stainless steel, hardened stainless steel and brass.



Tip	bar	CAPACITY ONE NOZZLE IN l/min	I/ha 50 cm Field Hectares						I/ha 75 cm 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
			l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha	l/ha
TP4001E†	2.0	0.32	96.0	64.0	48.0	38.4	25.6	19.2	64.0	42.7	32.0	25.6	17.1	12.8
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
TP4015E†	2.0	4.83	1449	966	725	580	386	290	966	644	483	386	258	193
TP6515E†	2.5	5.40	1620	1080	810	648	432	324	1080	720	540	432	288	216
TP8015E†	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

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

† Available in brass, stainless steel and hardened stainless steel only.



Tip	I/ha 50 cm Field Hectares					I/ha CONVERSION FACTORS*	
	40°	65°	80°	95°	110°	50 cm	75 cm
20 cm	27cm	16cm	12cm	9cm	7cm	2.50	3.75
25 cm	34cm	20cm	15cm	11cm	9cm	2.00	3.00
30 cm	41cm	24cm	18cm	14cm	11cm	1.67	2.50
40 cm	55cm	31cm	24cm	18cm	14cm	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 173–187 for useful formulas and information.

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



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.

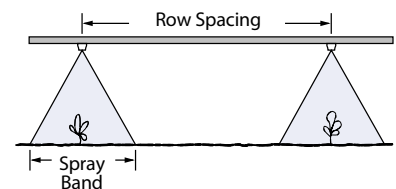
These tips also provide good pre-emergence coverage on cloddy fields and fields covered with crop residue.

See selection guide on page 4 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 63 for more information.



	bar	DROPSIZE	CAPACITY ONE NOZZLE IN l/min	I/ha 50cm Field Hectares						I/ha 75 cm 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
 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

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

● Very Fine
 ● Fine
 ● Medium
 ● Coarse
 ● Very Coarse
 ● Extremely Coarse

	I/ha CONVERSION FACTORS*	
	40°	80°
20cm	2.50	3.75
25cm	2.00	3.00
30cm	1.67	2.50
40cm	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 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

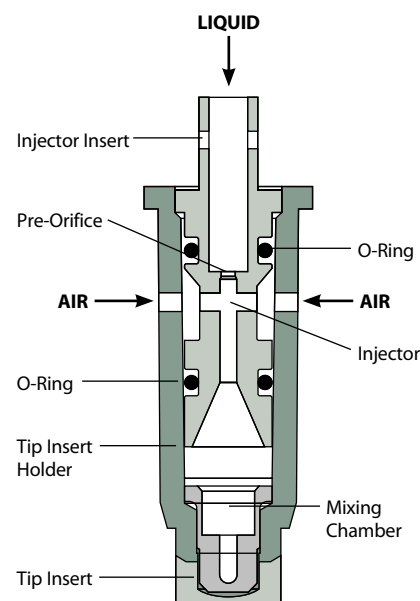
Example:

TJ60-4002EVS – Stainless Steel with VisiFlo color-coding



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 63 for more information.



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

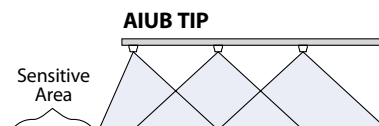
	bar	DROP SIZE	CAPACITY ONE NOZZLE IN l/min	l/ha 50cm						l/ha 75cm					
				4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h
AIUB8502 (50)	2.0	VC	0.65	195	130	97.5	78.0	52.0	39.0	130	86.7	65.0	52.0	34.7	26.0
	3.0	VC	0.79	237	158	119	94.8	63.2	47.4	158	105	79.0	63.2	42.1	31.6
	4.0	VC	0.91	273	182	137	109	72.8	54.6	182	121	91.0	72.8	48.5	36.4
	5.0	C	1.02	306	204	153	122	81.6	61.2	204	136	102	81.6	54.4	40.8
	6.0	C	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	XC	0.81	243	162	122	97.2	64.8	48.6	162	108	81.0	64.8	43.2	32.4
	3.0	VC	0.99	297	198	149	119	79.2	59.4	198	132	99.0	79.2	52.8	39.6
	4.0	VC	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	C	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	XC	0.96	288	192	144	115	76.8	57.6	192	128	96.0	76.8	51.2	38.4
	3.0	VC	1.18	354	236	177	142	94.4	70.8	236	157	118	94.4	62.9	47.2
	4.0	VC	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	C	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	XC	1.29	387	258	194	155	103	77.4	258	172	129	103	68.8	51.6
	3.0	VC	1.58	474	316	237	190	126	94.8	316	211	158	126	84.3	63.2
	4.0	VC	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).

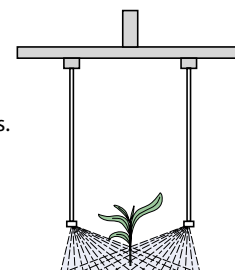


Typical Applications:

- 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.



See pages 173–187 for drop size classification, useful formulas and information.

How to order:

Specify tip number.

Example:

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



TeeJet® Full Cone Spray Tips

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



Type 1/4TG



Three Nozzles Per Row Spacing

See pages 173–187 for useful formulas and information.

	bar	CAPACITY ONE NOZZLE IN l/min	l/ha (THREE NOZZLES PER ROW)							
			110 cm				120 cm			
			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).



TeeJet® UB—Underleaf Banding Spray Tips

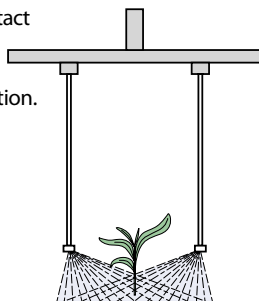
Features:

- 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.



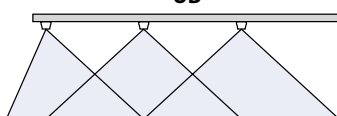
Typical Applications:

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

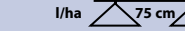


UB

Sensitive Area



See pages 173–187 for useful formulas and information.

	 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	
D25143-UB-8501 (100)	3.5	0.64	171	146	128	114	102	93.1	85.3	78.8	73.1	68.3	64.0	
	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	
D25143-UB-85015 (80)	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	
	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	
D25143-UB-8502 (50)	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	
	1.5	1.12	299	256	224	199	179	163	149	138	128	119	112	
D25143-UB-8503 (50)	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-8504 (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	
D25143-UB-8504 (50)	3.5	2.56	683	585	512	455	410	372	341	315	293	273	256	
	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	
D25143-UB-8504 (50)	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



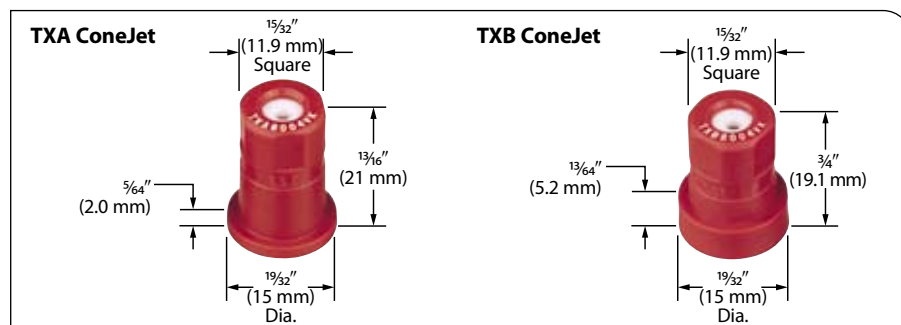
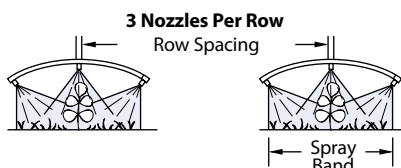
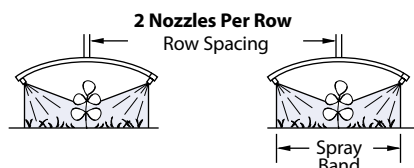
Typical Applications:

See selection guide on pages 4 and 5 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 (0–20 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*	
	50 cm	75 cm
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 173–187 for useful formulas and information.

How to order:

Specify tip number.

Example:

TXA8004VK – Ceramic with VisiFlo color-coding



	bar	CAPACITY TWO NOZZLES IN l/min	l/ha 50 cm				l/ha 75 cm				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
TXA800050VK	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
TXB800050VK	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
(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
TXA800067VK	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
TXB800067VK	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
(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	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	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
TXB8001VK	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
(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
TXA80015VK	5.0	1.50	450	300	225	180	300	200	150	120	5.0	2.25	675	450	338	270	450	300	225	180
TXB80015VK	7.0	1.76	528	352	264	211	352	235	176	141	7.0	2.64	792	528	396	317	528	352	264	211
(50)	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	5.0	2.00	600	400	300	240	400	267	200	160	5.0	3.00	900	600	450	360	600	400	300	240
TXB8002VK	7.0	2.40	720	480	360	288	480	320	240	192	7.0	3.60	1080	720	540	432	720	480	360	288
(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
TXA8003VK	5.0	3.00	900	600	450	360	600	400	300	240	5.0	4.50	1350	900	675	540	900	600	450	360
TXB8003VK	7.0	3.60	1080	720	540	432	720	480	360	288	7.0	5.40	1620	1080	810	648	1080	720	540	432
(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
TXA8004VK	5.0	4.20	1260	840	630	504	840	560	420	336	5.0	6.30	1890	1260	945	756	1260	840	630	504
TXB8004VK	7.0	4.80	1440	960	720	576	960	640	480	384	7.0	7.20	2160	1440	1080	864	1440	960	720	576
(50)	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	2146	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).



ConeJet® VisiFlo® Hollow Cone Spray Tips

Typical Applications:

See selection guide on pages 4 and 5 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:

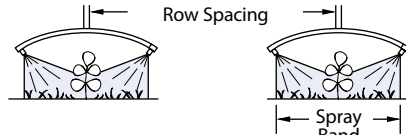
Specify tip number.

Examples:

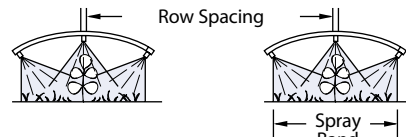
- TXVS-4 – Stainless Steel with VisiFlo color-coding
- TX-4 – Brass
- TX-SS4 – Stainless Steel
- TX-VK4 – Ceramic with VisiFlo color-coding



2 Nozzles Per Row



3 Nozzles Per Row



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

See pages 173–187 for useful formulas and information.



	bar	CAPACITY TWO NOZZLES IN l/min	I/ha 50cm				I/ha 75cm				bar	CAPACITY THREE NOZZLES IN l/min	I/ha 50cm				I/ha 75cm			
			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
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	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
TX-1	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
TX-1	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	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
TX-2	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
TX-2	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	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
TX-3	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
TX-3	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	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
TX-4	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
TX-4	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	10.0	1.36	408	272	204	163	272	181	136	109	10.0	2.04	612	408	306	245	408	272	204	163
TX-6	15.0	1.64	492	328	246	197	328	219	164	131	15.0	2.46	738	492	369	295	492	328	246	197
TX-6	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	10.0	1.86	558	372	279	223	372	248	186	149	10.0	2.79	837	558	419	335	558	372	279	223
TX-8	15.0	2.20	660	440	330	264	440	293	220	176	15.0	3.30	990	660	495	396	660	440	330	264
TX-8	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	10.0	2.40	720	480	360	288	480	320	240	192	10.0	3.60	1080	720	540	432	720	480	360	288
TX-10	15.0	2.80	840	560	420	336	560	373	280	224	15.0	4.20	1260	840	630	504	840	560	420	336
TX-10	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	10.0	2.80	840	560	420	336	560	373	280	224	10.0	4.20	1260	840	630	504	840	560	420	336
TX-12	15.0	3.40	1020	680	510	408	680	453	340	272	15.0	5.10	1530	1020	765	612	1020	680	510	408
TX-12	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	10.0	4.40	1320	880	660	528	880	587	440	352	10.0	6.60	1980	1320	990	792	1320	880	660	528
TX-18	15.0	5.20	1560	1040	780	624	1040	693	520	416	15.0	7.80	2340	1560	1170	936	1560	1040	780	624
TX-18	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	10.0	6.20	1860	1240	930	744	1240	827	620	496	10.0	9.30	2790	1860	1395	1116	1860	1240	930	744
TX-26	15.0	7.60	2280	1520	1140	912	1520	1013	760	608	15.0	11.4	3420	2280	1710	1368	2280	1520	1140	912
TX-26	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.



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:

- VisiFlo color-coded versions consist of stainless steel or ceramic orifice in a polypropylene body.

- Standard ConeJet spray nozzles (not color-coded) are available in brass and stainless steel with 65° (TY) and 80° (TX) spray angles.
- Finely atomized hollow cone spray pattern provides thorough coverage.
- Maximum pressure rating of 300 PSI (20 bar) [spray angle is 80° at 100 PSI (7 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	
TXVS-1	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	
TXVS-2	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	
TXVK-3	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	
TXVK-4	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	
TXVK-6	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	
TXVK-8	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	
TXVK-10	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	
TXVK-12	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	
TXVK-18	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	
TXVK-26	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	
TX†800050VK	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†800067VK	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†8001VK	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†80015VK	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	
TX†8002VK	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†8003VK	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†8004VK	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	

†Specify "A" or "B." See pages 43 and 44 for more information on ConeJet spray tips. **Note:** Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C). See pages 173–187 for useful formulas and information.

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 173–187 for useful formulas and information.



TeeJet® Disc-Core Type Hollow Cone Spray Tips

Typical Assembly with Ceramic Disc and Core



TeeJet
Nozzle Body



4514-NY
Slotted Strainer*



Core



Disc



CP20230
TeeJet Cap

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

Hollow Cone Type Spray Tips

		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 173–187 for useful formulas and 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 63 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-AL – Aluminum
- 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



Hardened Stainless Steel



Stainless Steel



Polymer

Cores

Standard cores are made of brass. Also available in ceramic, hardened stainless steel, aluminum 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.



Ceramic



Hardened Stainless Steel



Aluminum



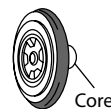
Brass



Nylon



CP18999



Seal

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



Full Cone Type Spray Tips

		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 173–187 for useful formulas and 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-AL – Aluminum
- 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® SJ-3 Fertilizer Nozzles



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 174 for liquid density conversion factors.
- Recommended operating pressure: 20–60 PSI (1.5–4 bar).

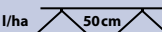
How to order:

Specify tip number.

Example:

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



	bar	CAPACITY ONE NOZZLE IN l/min	l/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
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 173–187 for useful formulas and information.



Typical Application:

- Excellent for application of liquid fertilizer.

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).

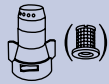
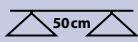
How to order:

Specify nozzle number.
Example: SJ7-04-VP



50854-NYB
Extension Adapter



	 bar	CAPACITY ONE NOZZLE IN l/min	l/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 173–187 for useful formulas and information.



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:

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

Tabulated flow rates are for spraying water into air 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 174 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.

	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

	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

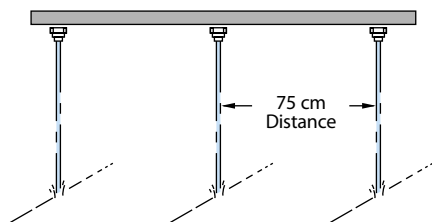
	l/min						
	0.5 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar
CP4916-98	2.01	2.85	3.49	4.03	4.50	4.93	5.69
CP4916-103	2.10	2.97	3.64	4.21	4.70	5.15	5.95
CP4916-107	2.36	3.34	4.09	4.72	5.28	5.78	6.67
CP4916-110	2.50	3.53	4.33	5.00	5.59	6.12	7.07
CP4916-115	2.76	3.90	4.77	5.51	6.16	6.75	7.79
CP4916-120	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 173–187 for useful formulas and information.



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 174 for liquid density conversion factors.



How to order:

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

	 bar	CAPACITY ONE NOZZLE IN l/min	l/ha 								
			4 km/h	6 km/h	8 km/h	10 km/h	15 km/h	20 km/h	25 km/h	30 km/h	35 km/h
 H1/4U-SS0004 TP0004-SS	1.0	0.91	182	121	91.0	72.8	48.5	36.4	29.1	24.3	20.8
	1.5	1.12	224	149	112	89.6	59.7	44.8	35.8	29.9	25.6
	2.0	1.29	258	172	129	103	68.8	51.6	41.3	34.4	29.5
	2.5	1.44	288	192	144	115	76.8	57.6	46.1	38.4	32.9
 H1/4U-SS0006 TP0006-SS	1.0	1.37	274	183	137	110	73.1	54.8	43.8	36.5	31.3
	1.5	1.67	334	223	167	134	89.1	66.8	53.4	44.5	38.2
	2.0	1.93	386	257	193	154	103	77.2	61.8	51.5	44.1
	2.5	2.16	432	288	216	173	115	86.4	69.1	57.6	49.4
 H1/4U-SS0008 TP0008-SS	1.0	1.82	364	243	182	146	97.1	72.8	58.2	48.5	41.6
	1.5	2.23	446	297	223	178	119	89.2	71.4	59.5	51.0
	2.0	2.58	516	344	258	206	138	103	82.6	68.8	59.0
	2.5	2.88	576	384	288	230	154	115	92.2	76.8	65.8
 H1/4U-SS0010 TP0010-SS	1.0	2.28	456	304	228	182	122	91.2	73.0	60.8	52.1
	1.5	2.79	558	372	279	223	149	112	89.3	74.4	63.8
	2.0	3.22	644	429	322	258	172	129	103	85.9	73.6
	2.5	3.60	720	480	360	288	192	144	115	96.0	82.3
 H1/4U-SS0015 TP0015-SS	1.0	3.42	684	456	342	274	182	137	109	91.2	78.2
	1.5	4.18	836	557	418	334	223	167	134	111	95.5
	2.0	4.83	966	644	483	386	258	193	155	129	110
	2.5	5.40	1080	720	540	432	288	216	173	144	123
 H1/4U-SS0020 TP0020-SS	1.0	4.56	912	608	456	365	243	182	146	122	104
	1.5	5.58	1116	744	558	446	298	223	179	149	128
	2.0	6.45	1290	860	645	516	344	258	206	172	147
	2.5	7.21	1442	961	721	577	385	288	231	192	165
 H1/4U-SS0030 TP0030-SS	1.0	6.84	1366	911	683	546	364	273	219	182	156
	1.5	8.37	1674	1116	837	670	446	335	268	223	191
	2.0	9.66	1932	1288	966	773	515	386	309	258	221
	2.5	10.8	2160	1440	1080	864	576	432	346	288	247
 H1/4U-SS0040 TP0040-SS	1.0	9.11	1822	1215	911	729	486	364	292	243	208
	1.5	11.2	2240	1493	1120	896	597	448	358	299	256
	2.0	12.9	2580	1720	1290	1032	688	516	413	344	295
	2.5	14.4	2880	1920	1440	1152	768	576	461	384	329
 H1/4U-SS0050	1.0	11.4	2280	1520	1140	912	608	456	365	304	261
	1.5	13.9	2780	1853	1390	1112	741	556	445	371	318
	2.0	16.1	3220	2147	1610	1288	859	644	515	429	368
	2.5	18.0	3600	2400	1800	1440	960	720	576	480	411
 H1/4U-SS0060	1.0	13.7	2740	1827	1370	1096	731	548	438	365	313
	1.5	16.7	3340	2227	1670	1336	891	668	534	445	382
	2.0	19.3	3860	2573	1930	1544	1029	772	618	515	441
	2.5	21.6	4320	2880	2160	1728	1152	864	691	576	494

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).
See pages 173–187 for useful formulas and information.





TeeJet® Tank Rinsing Nozzles

27500E-TEF

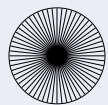
- The 27500 tank rinsing nozzle has a fluid-driven rotational spray head with orifices positioned to provide effective rinsing of sprayer tanks.
- 27500E-R spray head can easily be removed for inspection and maintenance.
- Provides 360° coverage of inside surface of tank.



27500E



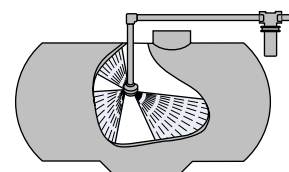
27500R

NOZZLE NUMBER	CAPACITY – l/min					TYPE OF COVERAGE	SPRAY ANGLE
	0.7 bar	1.5 bar	2 bar	3 bar	3.5 bar		
(B)27500E-1/2-8-TEF	15.3	22	26	32	34		360°
(B)27500E-R-1/2-8-TEF							
(B)27500E-3/4-18-TEF	34	50	58	71	77		
(B)27500E-R-3/4-18-TEF							

(B)=BSPT

- Made of corrosion-resistant Teflon® material.
- Mounting connection— $\frac{3}{4}$ " NPT or BSPT (F).

Typical Application



D41892-(B)1/2-POM-6

- The rotary tank rinsing nozzle is used for rinsing the insides of chemical containers and spray tanks up to 6.5 ft. (2.0 m) in diameter.
- Available with $\frac{1}{2}$ " 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

(B)=BSPT

- 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 $\frac{1}{2}$ " (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 $1\frac{1}{2}$ " (26 mm) diameter openings or larger.
- Three flat spray orifices provide self-rotational forces needed to create spherical coverage.
- Available in $\frac{1}{2}$ " NPT or BSPT (F) connections.

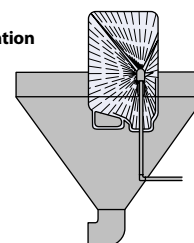


NOZZLE NUMBER	INLET PIPE CONNECTION	CAPACITY - l/min				
		1.5 bar	2 bar	2.5 bar	3 bar	4 bar
(B)23240-3-HSS-5.7-316SS	$\frac{1}{2}$ " (F)	13.9	16.1	18.0	19.7	23.0
(B)23240-3-HSS-7-316SS		19.5	23.0	25.0	28.0	32.0

(B)=BSPT

- Made of 316 stainless steel with hardened stainless steel bearings and races for maximum wear life. 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 $\frac{1}{2}$ " or $\frac{3}{4}$ " 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	

(B)=BSPT

How to order:

(B) VSM - $\frac{3}{4}$ - 140
 | | | |
 BSPT Nozzle Type Size Capacity



Y33180-PP & Y9270-PP

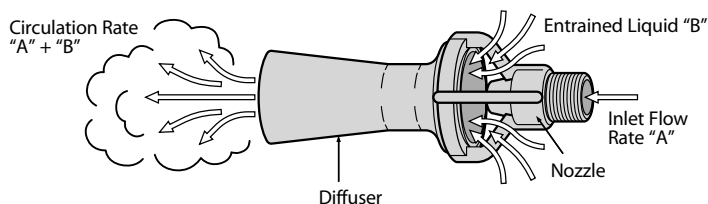
Features:

- 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

QJ350 Compact Nozzle Body for Dry Booms

- Compact design means easier mounting and less interference with boom structure.
- Available with 3 or 5 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 ½", ¾" 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 65 for additional 21950 ChemSaver spring capacities.
- 1.80 GPM (6.80 l/min) with 5 PSI (0.34 bar) pressure drop.



- Molded hex socket in upper clamp for attaching to flat surfaces.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.

QJ353

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ353-500-1-NYB	QJ353-500-2-NYB	3	½"
QJ353-750-1-NYB	QJ353-750-2-NYB	3	¾"
QJ353-1000-1-NYB	QJ353-1000-2-NYB	3	1"



QJ353

QJ355

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ355-500-1-NYB	QJ355-500-2-NYB	5	½"
QJ355-750-1-NYB	QJ355-750-2-NYB	5	¾"
QJ355-1000-1-NYB	QJ355-1000-2-NYB	5	1"



QJ355



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

PART NUMBER (PLATED STEEL)	TO FIT
QJ111-1/2	½" Pipe (⅜" & 7/8" O.D. Tubings)
QJ111-3/4	¾" Pipe (1" & 1½" O.D. Tubings)
QJ111-1	1" Pipe (1½", 1¾" & 1⅞" O.D. Tubings)
QJ111-1-1/4	1¼" Pipe (1⅞" & 1⅝" O.D. Tubings)
QJ111HP-3/4	¾" Pipe (1" & 1½" O.D. Tubings)

PART NUMBER		TO FIT
PLATED STEEL	STAINLESS STEEL	
QJ111SQ-3/4	QJ111SQ-3/4-304SS	¾" Square Tubing
QJ111SQ-1	QJ111SQ-1-304SS	1" Square Tubing
QJ111SQ-1¼	QJ111SQ-1¼-304SS	1¼" Square Tubing
QJ111SQ-1½	QJ111SQ-1½-304SS	1½" Square Tubing



QJ111HP

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 ½", ¾" 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 65 for additional 21950 ChemSaver spring capacities.
- Standard EPDM diaphragm with Viton® available as an option.
- Also available with optional 56720 ChemSaver air shutoff valve, see page 65 for additional information.
- Durable design mounts body high on boom structure for maximum protection.
- 2.25 GPM (8.5 l/min) with 5 PSI (0.34 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.
- 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	½"
QJ363C-750-1-NYB	QJ363C-750-2-NYB	3	¾"
QJ363C-1000-1-NYB	QJ363C-1000-2-NYB	3	1"



QJ364C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ364C-500-1-NYB	QJ364C-500-2-NYB	4	½"
QJ364C-750-1-NYB	QJ364C-750-2-NYB	4	¾"
QJ364C-1000-1-NYB	QJ364C-1000-2-NYB	4	1"



QJ365C

PART NUMBER		NUMBER OF SPRAY OUTLETS	TO FIT HOSE I.D.
SINGLE	DOUBLE		
QJ365C-500-1-NYB	QJ365C-500-2-NYB	5	½"
QJ365C-750-1-NYB	QJ365C-750-2-NYB	5	¾"
QJ365C-1000-1-NYB	QJ365C-1000-2-NYB	5	1"





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.



24230A

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.
- 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 65 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).
- Also available with optional 56720 ChemSaver air shutoff valve, see page 65 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 $\frac{3}{8}$ ", $\frac{1}{2}$ " or $\frac{3}{4}$ " I.D. hose.
- Maximum operating pressure of 125 PSI (9 bar).

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

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

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

QJ39685 Series Quick TeeJet Nozzle Body

Features:

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



Single Left
QJ39685-1L-500-NYB



Double
QJ39685-2-500-NYB



Single Right
QJ39685-1R-500-NYB

QJ200 Series Diaphragm Check Valve Quick TeeJet Nozzle Assemblies

- Available with single, double or triple hose shanks for $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " 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).

	PART NUMBER SINGLE	TO FIT HOSE I.D.
	19349-211-406-NYB	$\frac{3}{8}$ "
	19349-211-540-NYB	$\frac{1}{2}$ "
	19349-211-785-NYB	$\frac{3}{4}$ "

	PART NUMBER DOUBLE	TO FIT HOSE I.D.
	19350-212-406-NYB	$\frac{3}{8}$ "
	19350-212-540-NYB	$\frac{1}{2}$ "
	19350-212-785-NYB	$\frac{3}{4}$ "

	PART NUMBER TRIPLE	TO FIT HOSE I.D.
	19351-213-406-NYB	$\frac{3}{8}$ "
	19351-213-540-NYB	$\frac{1}{2}$ "
	19351-213-785-NYB	$\frac{3}{4}$ "

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 $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " 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).

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	$\frac{3}{8}$ "
	22251-311-500-NYB	$\frac{1}{2}$ "
	22251-311-750-NYB	$\frac{3}{4}$ "

	PART NUMBER DOUBLE	TO FIT HOSE I.D.
	22252-312-375-NYB	$\frac{3}{8}$ "
	22252-312-500-NYB	$\frac{1}{2}$ "
	22252-312-750-NYB	$\frac{3}{4}$ "

Note: See page 54 for vari-spacing clamps. See page 63 for Quick TeeJet caps.

- 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 54 for order information.



QJ350 Compact Nozzle Body for Wet Booms

- Compact design means easier mounting and less interference with boom structure.
- Available with 3 or 5 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 65 for additional 21950 ChemSaver spring capacities.
- 1.80 GPM (6.80 l/min) with 5 PSI (0.34 bar) pressure drop.
- Molded hex socket in upper clamp for attaching to flat surfaces.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ353-20mm-NYB	3	20 mm Tubing
QJ353-1/2-NYB	3	1/2" Pipe
QJ353-3/4-NYB	3	3/4" Pipe
QJ353-1-NYB	3	1" Pipe

PART NUMBER	NUMBER OF SPRAY OUTLETS	TO CLAMP ON
QJ355-20mm-NYB	5	20 mm Tubing
QJ355-1/2-NYB	5	1/2" Pipe
QJ355-3/4-NYB	5	3/4" Pipe
QJ355-1-NYB	5	1" Pipe

QC360 Quick TeeJet® Nozzle Body with CAM-LOC Adapter

- Same features as QJ360C multiple nozzle bodies.
- Body designed to fit into standard CAM-LOC style quick couplers allowing for quick change to smaller capacity spray tips.
- Locating nib keeps body properly oriented in CAM-LOC fitting.

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 65 for additional 21950 ChemSaver spring capacities.
- Standard EPDM diaphragm with Viton® available as an option.
- Also available with optional 56720 ChemSaver air shutoff valve, see page 65 for additional information.
- 2.25 GPM (8.5 l/min) with 5 PSI (0.34 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.
- 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 is 1.5 GPM (5.7 l/min) with a 5 PSI (0.35 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® 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.
- Maximum pressure of 300 PSI (20 bar).
- Available in 1" pipe connections and mounts with a 3/8" (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 65 for additional 21950 ChemSaver spring capacities.
- Standard O-rings and diaphragm made of EPDM and Buna with Viton® optional.
- Also available with optional 56720 ChemSaver air shutoff valve, see page 65 for more information.
- Molded hex socket in the upper clamp for attaching to flat surfaces.
- Hinged upper clamp reduces assembly time and fits inside common boom channels.



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



QJ363F



QJ364F



QJ365F



24216A

Type 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 subassembly for attachment to flat surfaces.
- Mounts to a ⅜" (9.5 mm) hole drilled in pipe or tubing.

PART NUMBER	TO CLAMP ON
24216A-20mm-NYB	20 mm Tubing
24216A-1/2-NYB	½" Pipe
24216A-3/4-NYB	¾" Pipe
24216A-1-NYB	1" Pipe



QJ22187

Type QJ22187-NYB

- Can be mounted to ½", ¾" or 1" pipe or equivalent size tubing.
- ½" and ¾" 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 ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Maximum operating pressure of 300 PSI (20 bar).

PART NUMBER	TO CLAMP ON
QJ22187-1/2-NYB	½" Pipe
QJ22187-3/4-NYB	¾" Pipe
QJ22187-1-NYB	1" Pipe



QJ17560A

Type QJ17560A-NYB

- Can be mounted to 20 mm, 25 mm, ½", ¾" 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 ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Maximum operating pressure of 300 PSI (20 bar).

- ½" and ¾" sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces.

PART NUMBER	TO CLAMP ON
QJ17560A-20mm-NYB	20 mm Tubing
QJ17560A-25mm-NYB	25 mm Tubing
QJ17560A-1/2-NYB	½" Pipe
QJ17560A-3/4-NYB	¾" Pipe
QJ17560A-1-NYB	1" Pipe



QJ7421

Type QJ7421-NYB

- Can be mounted to ½", ¾" or 1" pipe or equivalent size tubing.
- Mounts to a ⅜" (9.5 mm) hole drilled in pipe or tubing.
- Maximum operating pressure of 300 PSI (20 bar).

- ½" and ¾" sizes include a mounting hole in upper clamp subassembly for mounting to flat surfaces.

PART NUMBER	TO CLAMP ON
QJ7421-1/2-NYB	½" Pipe
QJ7421-3/4-NYB	¾" Pipe
QJ7421-1-NYB	1" Pipe



Quick TeeJet® Adapters and Accessories

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

(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



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).

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



QJT8360-NYB



QJT8360-NYB
QJP19011-NYB

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).

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



Quick TeeJet® Caps for Hardi Nozzle Bodies

Color Code

1	2	3	4	5	6	7	8
Black	White	Red	Blue	Green	Yellow	Brown	Orange

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	TJ TwinJet®	AI TeeJet® & AIUB TeeJet®	SJ-3 StreamJet®	DG TwinJet®	Turbo TeeJet® Induction
	CP21399-*.CE	21398H-*.CELR					
	CP23307-*.CE	23306H-*.CELR	TeeJet Flat Spray Tips (Smaller Capacities)				
			Standard -0067 Thru -08	XR -01 Thru -08	AIXR TeeJet®	DG TeeJet®	TT OC TeeJet® -01 Thru -08
							Turbo TwinJet®

Note: When using TeeJet tip strainer, use CP26227 gasket in place of CP23308 gasket.



Color Code

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

Ordering Information

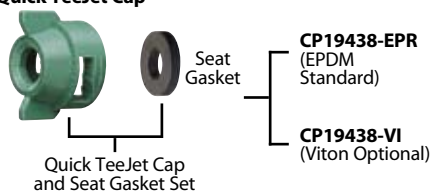
QUICK TEEJET CAPS	PART NUMBER		FOR USE WITH FLAT SPRAY TIPS 300 PSI (20 BAR) MAXIMUM PRESSURE
	QUICK TEEJET CAP ONLY	QUICK TEEJET CAP & SEAT GASKET SET	
	CP25611- *-NY	25612- *-NYR	TeeJet Flat Spray Tips (Smaller Capacities) TP Standard -0067 Thru -08 XR -01 Thru -08 DG TeeJet® TT Turbo TwinJet® AIXR TeeJet® OC TeeJet® -01 Thru -08
	CP25611-9-PP††	25612-9-PP††	
	CP25609- *-NY	25610- *-NYR	TeeJet Flat Spray Tips (Larger Capacities) TP Standard -10 Thru -20 XR -10 Thru -15
	CP25597- *-NY	25598- *-NYR	TJ TwinJet® AI TeeJet® & AIUB TeeJet® SJ-3 StreamJet® DG TwinJet® Turbo TeeJet Induction®
	CP25595- *-NY	25596- *-NYR	TeeJet Flat Spray Tips (Smaller Capacities) Tips can be positioned in choice of two spray plane directions—parallel or perpendicular to wings of Quick TeeJet cap.
	CP25599- *-NY	25600- *-NYR	Turbo FloodJet® VisiFlo® Spray Tip TK-VS FloodJet® VisiFlo Spray Tip Locating Nib
	CP25607- *-NY	25608- *-NYR	TK FloodJet® FL FullJet® TX ConeJet® TG Full Cone Hose Shank
	CP25607-9-PP††	25608-9-PP††	
	CP25607- *-NY	—	D-Disc Core Seal Core CP18999-EPR (EPDM standard) CP18999-VI (Viton® optional) Used with DC-Core Inserts and CP4916 Flow Regulators (Insert Core into Seal)
	—	QJ4676-45-1/4-NYR†	45° Quick TeeJet cap
	—	QJ4676-90-1/4-NYR†	90° Quick TeeJet cap
	CP26277-1-NY†	26278-1-NYR†	Ceramic Disc-Core D-Disc Core
	—	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). Unless otherwise specified, a yellow (6) cap will be supplied. 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.

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.

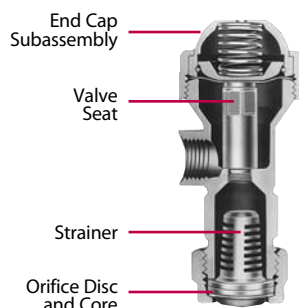
Example: CP19438-EPR



TeeJet® ChemSaver® Diaphragm Check Valves

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. For flow rates up to 2.5 GPM (9.5 l/min). Overall length 2 1/2" (70 mm). Weight: 1 1/2 ounces (43 g).

Reference page 62 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. Large capacity flow rates up to 10 GPM (38 l/min) for 1/2" NPT size, up to 15 GPM (57 l/min) for 3/4" NPT size. 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. For flow rates up to 2 GPM (7.6 l/min). Overall length 2" (51 mm). Weight: 1 ounce (28 g).

Reference page 62 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. For flow rates up to 4 GPM (15 l/min). 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. For flow rates up to 1.5 GPM (5.7 l/min). Overall length 2 5/16" (59 mm). Weights: brass 3 ounces (85 g), aluminum 1 ounce (28 g).



4666B

Made in choice of brass or aluminum with replaceable stainless steel valve seat. 1/8" NPT (F) inlet and outlet connections. For flow rates up to 1.5 GPM (5.7 l/min). Overall length 1 5/16" (34 mm). Check valve opens at 7 PSI (0.5 bar) pressure. Weights: brass 2 1/2 ounces (71 g), and aluminum 1 ounce (28 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. For larger flow rates up to 4 GPM (15.1 l/min). 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 7/16" (37 mm). For flow rates up to 2 GPM (7.6 l/min). Weights: brass 2 1/2 ounces (71 g), aluminum 2 ounces (57 g).

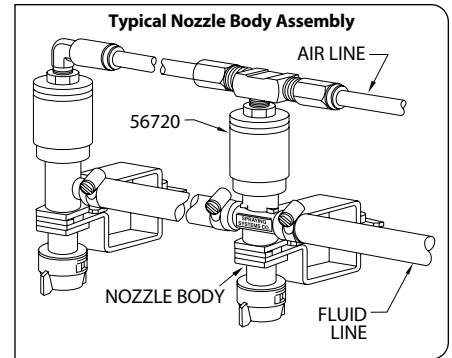
(B)=BSPT



58140



56720



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.

56720 ChemSaver Air Shutoff Valve

Pneumatic Line Features:

- 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 1/8" NPT or BSPT (F) threads.
 - Valve is normally closed.
 - Air consumption per valve: 0.015 CF/CYCLE (.0007 L/CYCLE).

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																	
																		
Back end of Diaphragm Check Valves (Brass)	CP6227-TEF Diaphragm Teflon® (optional) To be used with 4620 Diaphragm	CP4620-FA Diaphragm Fairprene® or Viton	9758 End Cap Subassembly Brass, Aluminum	CP4624 Retainer Brass, Aluminum														
				<table><tr><th>PART NUMBER</th><th>APPROXIMATE OPENING PRESSURE</th></tr><tr><td>21950-2-NY</td><td>2 PSI (0.14 bar)</td></tr><tr><td>21950-8-NYB</td><td>8 PSI (0.6 bar)</td></tr><tr><td>21950-10-NYB</td><td>10 PSI (0.7 bar)</td></tr><tr><td>21950-15-NY</td><td>15 PSI (1 bar)</td></tr><tr><td>21950-20-NYB</td><td>20 PSI (1.4 bar)</td></tr><tr><td>21950-30-NYB</td><td>30 PSI (2 bar)</td></tr></table>	PART NUMBER	APPROXIMATE OPENING PRESSURE	21950-2-NY	2 PSI (0.14 bar)	21950-8-NYB	8 PSI (0.6 bar)	21950-10-NYB	10 PSI (0.7 bar)	21950-15-NY	15 PSI (1 bar)	21950-20-NYB	20 PSI (1.4 bar)	21950-30-NYB	30 PSI (2 bar)
PART NUMBER	APPROXIMATE OPENING PRESSURE																	
21950-2-NY	2 PSI (0.14 bar)																	
21950-8-NYB	8 PSI (0.6 bar)																	
21950-10-NYB	10 PSI (0.7 bar)																	
21950-15-NY	15 PSI (1 bar)																	
21950-20-NYB	20 PSI (1.4 bar)																	
21950-30-NYB	30 PSI (2 bar)																	
Back end of Diaphragm Check Valves (Nylon)	CP6227-TEF Diaphragm Teflon (optional) To be used with 21953 Diaphragm	CP21953-EPR Diaphragm EPDM or Viton Note: Nib on diaphragm fits into hole in end cap assembly.	21950-NYB ChemSaver End Cap Assembly Nylon/polypropylene															
																		
QJ353	CP56709-EPDM Diaphragm EPDM or Viton	56714-NYB End Cap Subassembly	CP56711-NYB Retaining Ring															



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 1½" 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.



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

How to order:

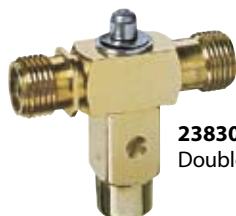
Specify model number.
Example: 23770-SS



TeeJet® Specialty Valves

Rollover Valves

Developed for use on airblast sprayers. Maximum operating pressure of 500 PSI (34 bar). Positive shutoff at 90° from "on" position. Indexing recommended only at zero line pressure. Can be used with all standard TeeJet tips and strainers. Available inlet connections shown below. Made of brass.



23830
Double Outlet

PART NUMBER	INLET CONNECTION
(B)23830	1¼"–16
(B)23830-1/4M	¼" Male
(B)23830-1/4F	¼" Female

(B)=BSPT



23831
Single Outlet

PART NUMBER	INLET CONNECTION
(B)23831	1¼"–16
(B)23831-1/4M	¼" Male
(B)23831-1/4F	¼" Female

(B)=BSPT

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	¼" (F) x ¼" (F)
(B)23220-1/8F x 1/8F	⅛" (F) x ⅛" (F)
(B)23220-1/4M x T	¼" (M) x 1¼"–16 (M)
(B)23220-1/4F x T	¼" (F) x 1¼"–16 (M)
(B)23220-1/4M x 1/4F	¼" (M) x ¼" (F)
(B)23220-1/4F x 1/4M	¼" (F) x ¼" (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.



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	360°



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.

(B)=BSPT

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 62 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



TeeJet® Hose Shank Nozzle Bodies

For Operating Pressures up to 125 PSI (9 bar)

Brass, stainless steel, Nylon and Celcon®/stainless steel hose shank nozzle bodies.

See page 69 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"	

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"	

How to order:

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

Example: 12202-CE-1062



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 5/32" (7.2 mm) hole drilled in pipe or tubing.

How to order:

Specify split eyelet assembly number.

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



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

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



7421
Operating pressures up to 250 PSI (17 bar)

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

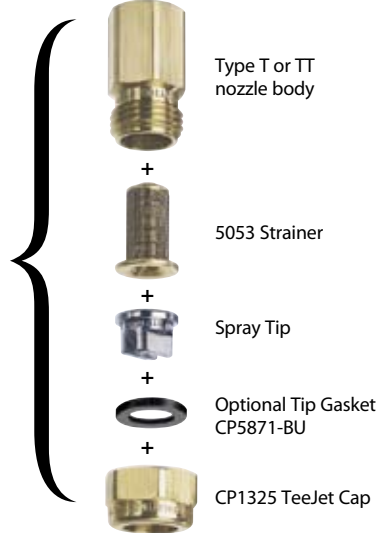


Standard Parts

TeeJet
Spray Nozzle



=



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

(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

(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 BODY NUMBER	MATERIAL
CP1325	Brass
CP8027-NYB	Nylon
CP8027-1-NYB	Nylon (Extra-long size)
CP1325-AL	Aluminum
CP1325-I	Steel
CP1325-SS	Stainless Steel
CP18032A-NYB	Winged Cap, Nylon

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 1/16"-16 (M)

(B) = BSPT

How to order:

Specify part number.

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

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 (1 3/16" & 7/8" O.D. Tubings)
AA111-3/4	3/4" Pipe (1" & 1 1/16" O.D. Tubings)
AA111-1	1" Pipe (1 1/8", 1 1/4" & 1 3/8" O.D. Tubings)
AA111-1-1/4	1 1/4" Pipe (1 1/16" & 1 1/8" O.D. Tubings)



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

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)4676-1/4-NYB Nylon



CP4928



CP6250



6406

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 5/16". 1/8" NPT female outlet connection.

CP6406 Adapter—Brass, aluminum or steel. Length 1 1/16". 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, aluminum, stainless steel or electrofilmed aluminum. 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"

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. (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

How to order:

Specify hose shank number and material.

Example: 4251-250 Brass



13434
13437

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



Shutoff/Control Motors

Boom Control motors are 25 RPM, 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 98 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.

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, date, month).

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

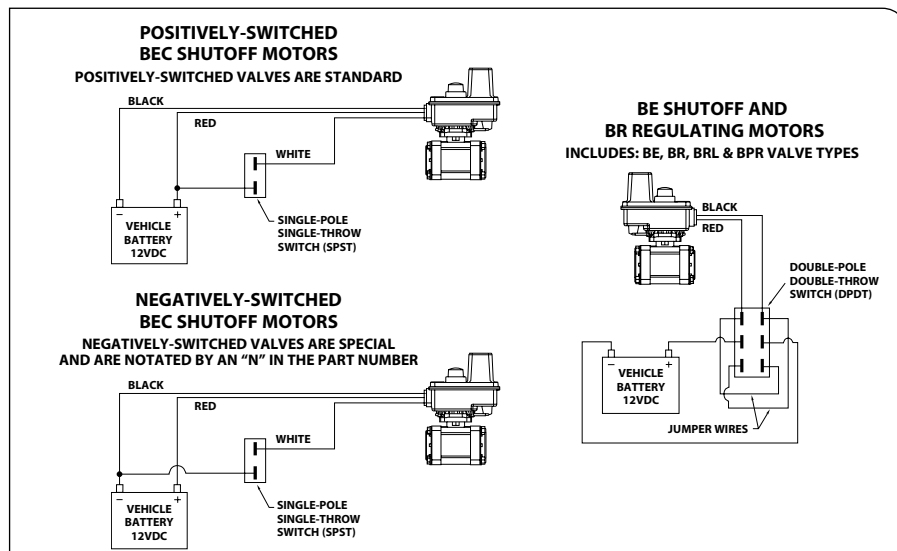
How to Order:

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



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

DIN cables are ordered separately.





B Style Shutoff Motor Numbers

BEC POSITIVE SWITCH MOTOR	*BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	CURRENT DRAW FOR SHUTOFF MOTORS (AMPS)**			CABLE LENGTH
			344B	346B	356	
50515-25CP03	* 50515-25CN03	* 50533-25C03	1.34	1.75	2.2	1.0 ft. (0.3 meter) cable
50515-25CP05	* 50515-25CN05	50533-25C05	1.34	1.75	2.2	1.5 ft. (0.5 meter) cable
50515-25CP15	* 50515-25CN15	* 50533-25C15	1.34	1.75	2.2	5 ft. (1.5 meter) cable
50515-25CP60	* 50515-25CN60	* 50533-25C60	1.34	1.75	2.2	20 ft. (6 meter) cable
50515-25DP	* 50515-25DN	* 50533-25D	1.34	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

BEC POSITIVE SWITCH MOTOR	BEC NEGATIVE SWITCH MOTOR	BE SWITCH MOTOR	CURRENT DRAW FOR SHUTOFF MOTORS (AMPS)**			CABLE LENGTH
			344B	346B	356	
50994-25CP03	* 50994-25CN03	* 50433-25C03	1.34	1.75	2.2	1.0 ft. (0.3 meter) cable
50994-25CP05	* 50994-25CN05	50433-25C05	1.34	1.75	2.2	1.5 ft. (0.5 meter) cable
50994-25CP15	* 50994-25CN15	* 50433-25C15	1.34	1.75	2.2	5 ft. (1.5 meter) cable
50994-25CP60	* 50994-25CN60	* 50433-25C60	1.34	1.75	2.2	20 ft. (6 meter) cable
50994-25DP	* 50994-25DN	* 50433-25D	1.34	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 ft. (0.3 meter) cable
1	* 50516-01C05	* 50996-01C05	0.10	0.12	1.5 ft. (0.5 meter) cable
1	* 50516-01C15	* 50996-01C15	0.10	0.12	5 ft. (1.5 meter) cable
1	* 50516-01C60	* 50996-01C60	0.10	0.12	20 ft. (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 ft. (0.3 meter) cable
3	* 50516-03C05	* 50996-03C05	0.15	0.20	1.5 ft. (0.5 meter) cable
3	* 50516-03C15	* 50996-03C15	0.15	0.20	5 ft. (1.5 meter) cable
3	* 50516-03C60	* 50996-03C60	0.15	0.20	20 ft. (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 ft. (0.3 meter) cable
6	* 50516-06C05	* 50996-06C05	0.43	0.50	1.5 ft. (0.5 meter) cable
6	* 50516-06C15	* 50996-06C15	0.43	0.50	5 ft. (1.5 meter) cable
6	* 50516-06C60	* 50996-06C60	0.43	0.50	20 ft. (6 meter) cable
6	* 50516-06D	* 50996-06D	0.43	0.50	DIN Electrical Connector

* 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 71 for DIN cable options.



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.

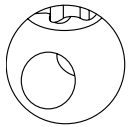
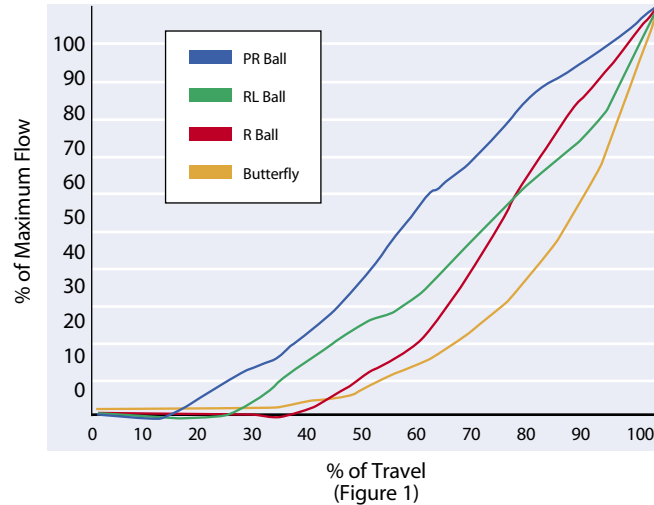
A valve that works well throughout the flow spectrum has the best chance to work in all situations.

Types of Regulating Valves

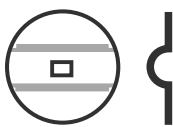
Special ball shapes make regulating valves more responsive and able to work with both high and low application rates. Most agricultural sprayers use either a

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.

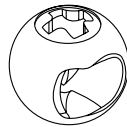
Regulating Valve Flow Curves



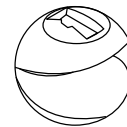
R Type Valve



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

Spraying Systems Co.® 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	MAXIMUM FLOW 5 PSI (0.34 bar) SPEED (RPM)
344BR-2	300 PSI (20 bar)	32 GPM (121 l/min)
344BR-3	300 PSI (20 bar)	32 GPM (121 l/min)
344BRL-2	300 PSI (20 bar)	27 GPM (12 l/min)
* 344BPR-2	300 PSI (20 bar)	12 GPM (45 l/min)
* 344BPR-3	300 PSI (20 bar)	12 GPM (45 l/min)
346BR-2	150 PSI (10 bar)	100 GPM (379 l/min)
346BR-3	150 PSI (10 bar)	64 GPM (242 l/min)
* 346BPR-2	150 PSI (10 bar)	53 GPM (200 l/min)
* 346BPR-3	150 PSI (10 bar)	53 GPM (200 l/min)

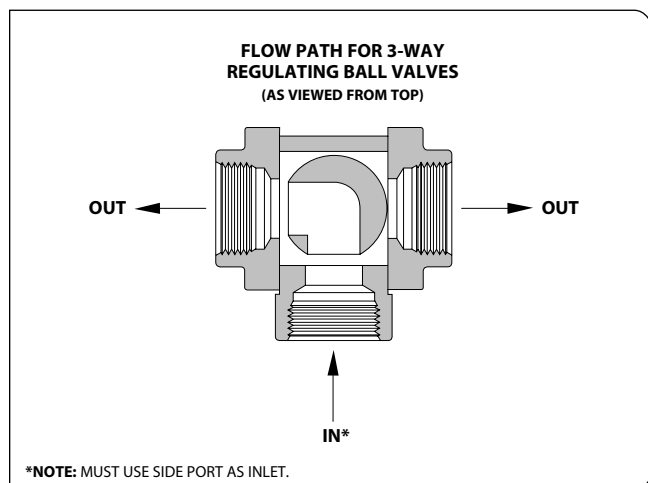


344B and 346B Pressure Regulating Ball Valves

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 96 and 97 for additional information and options.
- Wetted parts are Nylon, polypropylene, stainless steel, Teflon®, and Viton®.
- See pages 71–73 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 – 5 PSI (0.34 bar) pressure loss for 28.4 GPM (107 l/min) flow.
- 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-pull 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 (344 SERIES ONLY)

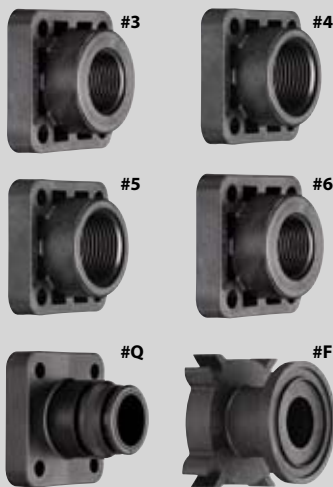
*Not available in stainless steel.

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



See pages 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 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)

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 (flange) type valve connections, the inlet/outlet fittings are ordered separately. 50 series clamps and flange fittings are required. See pages 96 and 97 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 97 for QC options.

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

REPAIR KITS

AB344AE-KIT	AB346B-KIT
AB346BRB-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 page 71 for more information on DirectoValve motors.

Features:

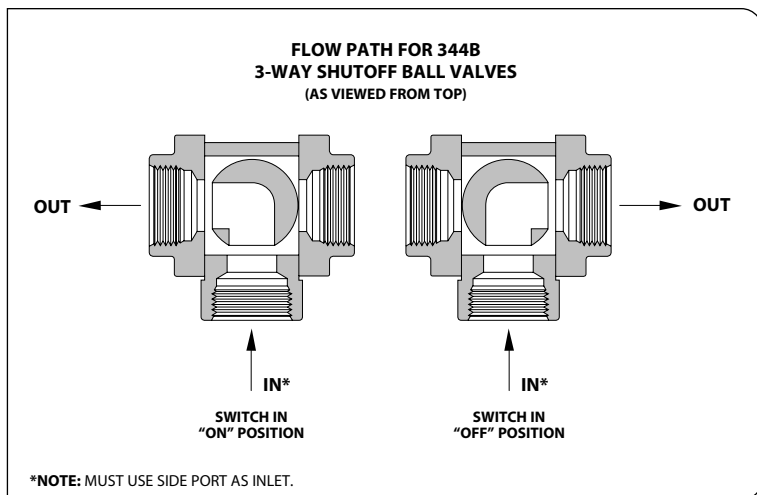
- 25 RPM, 0.6 second shutoff fully open to close.
- Flexible inlet/outlets provide quick simple plumbing for a single valve. See page 77 for more information.
- Available in 2-way or 3-way versions. 2-way valves allow complete shutoff while the 3-way valves divert flow to a bypass line when boom controls 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.
- The flow rate for the 344BEC 3-way valve is 24 GPM (91 l/min) with a 5 PSI (0.34 bar) pressure drop.
- Wetted parts are Nylon, Teflon®, polypropylene, stainless steel and Viton®.



**344BEC-33-C
3-Way Valve**
(rear view)



**344BEC-24-C
2-Way Valve**
(rear view)





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	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

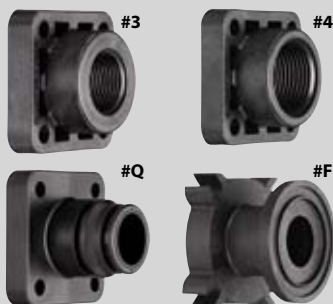
See page 71 for more information on E and EC motors.

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 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 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 96 and 97 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 97 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

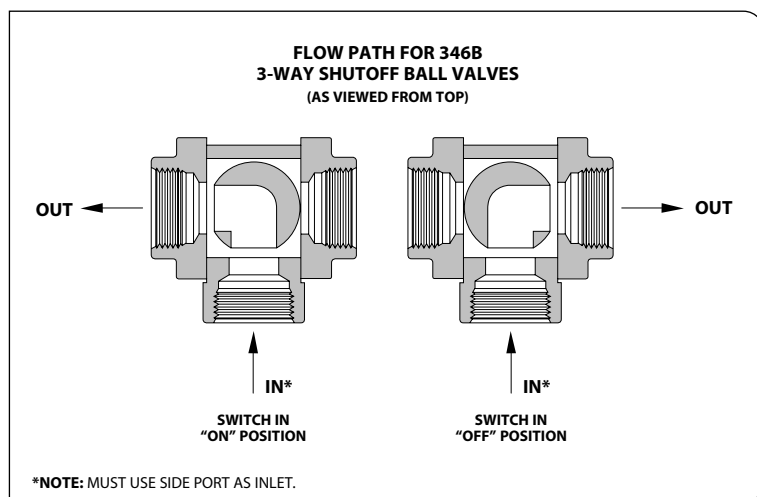


DirectoValve® 346 Series Shutoff Valves

346BEC shutoff ball valves are available with E or EC series motors with cable or DIN electrical connections. See page 71 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.
- The flow rate for the 346BEC 3-way valve is 64 GPM (242 l/min) with a 5 PSI (0.34 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®.





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 71 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



See pages 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 for DIN cables.

BALL MATERIAL SPECIFICATIONS

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

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 (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 96 and 97 for flange fitting options.

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

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 71 for more information on DirectoValve motors.

Features:

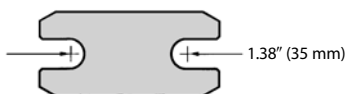
- 25 RPM, 0.6 second shutoff fully open to close.
- Flow rate is 100 GPM (379 l/min) with a 5 PSI (0.34 bar) pressure drop.
- Maximum pressure rating of 150 PSI (10 bar).
- Wetted materials are polypropylene, stainless steel, carbon-filled Teflon®, Viton® and Ryton®.
- 50 series flange fittings reduce leaks and allow various inlet/outlet connections. See pages 96 and 97 for more information.



356BEC-C Valve
(rear view)



(front view)



Mounting foot pattern
for 3/16" (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 3/16" 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 71 for more information on E and EC motors.

50 SERIES FLANGE INLET/OUTLET



See pages 96 and 97 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 96 and 97 for flange fitting options.
- **Q:** QC (Quick Connect) hose barb type valve fittings are not normally used due to flow limitations. See page 97 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 71 for DIN cables.

WIRING CONNECTORS

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

See page 98 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.



56600-11
(344BEC, see page 76)



56602-11
(346BEC, see page 78)



56604-11
(356BEC, see page 80)



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)**

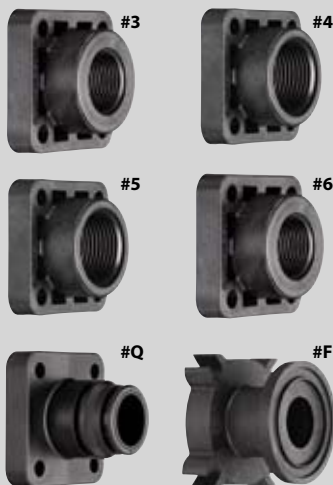
PART CODE	DESCRIPTION
56600	344BEC BALL VALVE
56602	346BEC BALL VALVE
56604	356BEC BALL VALVE

**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



See pages 96 and 97 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 98 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 71 for DIN cables.

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

PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

REPAIR KIT

AB344AE-KIT for 344A&B Valves

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 (flange) type valve connections, the inlet/outlet fittings are ordered separately. 50 series clamps and flange fittings are required. See pages 96 and 97 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 97 for QC options.

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



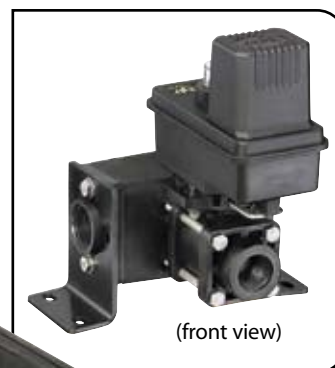
DirectoValve® 440 Series Manifold Shutoff Valves

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 71 for more information on DirectoValve motors.

Features:

- Based on proven design of 344 ball valves.
25 RPM, 0.6 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 (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.



(front view)

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



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



(front 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
1	1-VALVE MANIFOLD
2	2-VALVE MANIFOLD
3	3-VALVE MANIFOLD
4	4-VALVE MANIFOLD
5	5-VALVE MANIFOLD

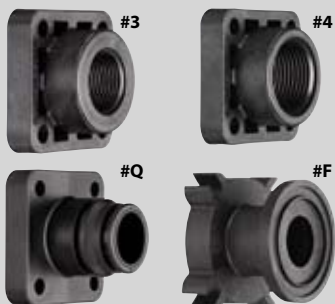
MOTOR SPECIFICATIONS

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

See page 71 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 96 and 97 for more information on QC and flange fittings.

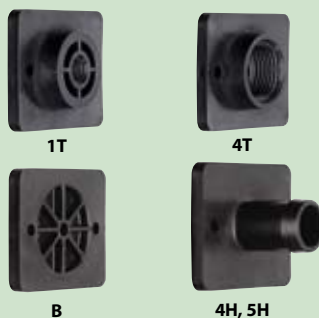
BALL MATERIAL SPECIFICATIONS

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 98 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 71 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 96 and 97 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 97 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 71 for more information on DirectoValve motors.

Features:

- 25 RPM, 0.6 second shutoff fully open to close.
- Available in 2-way version only. 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.
- Wetted parts are Nylon, Teflon®, polypropylene and Viton®.



451BEC-24-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	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 71 for more information on E and EC motors.

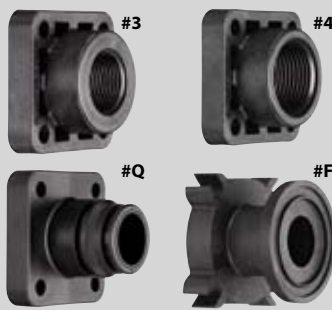
VALVE TYPE

PART CODE	DESCRIPTION
2	2-WAY VALVE

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 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 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, the 75 series flange fittings are ordered separately. Two 75 series clamps and fittings are required per manifold assembly. See pages 96 and 97 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 96 and 97 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 97 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.

BALL MATERIAL SPECIFICATIONS

PART CODE	DESCRIPTION
BLANK	POLYPROPYLENE BALL
S	STAINLESS STEEL BALL

REPAIR KIT

AB344AE-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. See page 71 for more information on DirectoValve motors.

Features:

- 25 RPM, 0.6 second shutoff fully open to close. See page 71 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 material that can be trapped causing corrosion ball drag that can shorten the life of a valve.
- Flow rate is 100 GPM (379 l/min) with 5 PSI (0.34 bar) pressure drop.
- Maximum pressure rating of 150 PSI (10 bar).
- Wetted materials 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 $\frac{5}{16}$ " or 8 mm bolt.



491BEC-C Valve
(rear view)

(front view)



493BEC-C Valve
(rear view)

(front 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

50 SERIES FLANGE INLET/OUTLET



See pages 96 and 97 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 96 and 97 for flange fitting options.
- **Q:** QC (Quick Connect) hose barb type valve fittings are not normally used due to flow limitations. See page 97 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 71 for DIN cables.

WIRING CONNECTORS

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

See page 98 for electrical connectors and codes.

MOTOR SPECIFICATIONS

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

See page 71 for more information on E and EC motors.

REPAIR KIT

AB356-KIT



DirectoValve® 460 Series 2-Way Manifold

The 460BEC ball valve manifold gives you continued reliability. Available with E or EC series motors with cable or DIN electrical connections. See page 71 for more information on DirectoValve motors.

Features:

- 25 RPM, 0.6 second shutoff fully open to close.
- With a choice of 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 is 25 GPM (94 l/min) with 5 PSI (0.34 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 92 for 460B 3C and 3E, 3-way versions and page 94 for 460FB flow back version.



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



(front 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	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 71 for more information on E and EC motors.

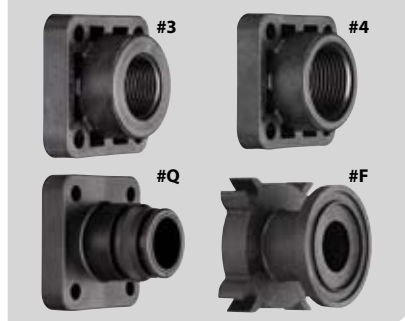
VALVE TYPE

PART CODE	DESCRIPTION
2	2-WAY VALVE

See page 92 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 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 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 96 and 97 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 96 and 97 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 97 for QC fitting options.

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

REPAIR KIT

AB460-SS-KIT



DirectoValve® 460 Series 3-Way Manifold

The 460BEC ball valve manifold gives you continued reliability. Available with E or EC series motors with cable or DIN electrical connections. See page 71 for more information on DirectoValve motors.

Features:

- 25 RPM, 0.6 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 is 25 GPM (94 l/min) with 5 PSI (0.34 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 90 for 460BEC 2-way version and page 94 for 460FB flow back version.

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



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



463BEC-3CQ-C Manifold
(rear view)



463BEC-3E4-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	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 71 for more information on E and EC motors.

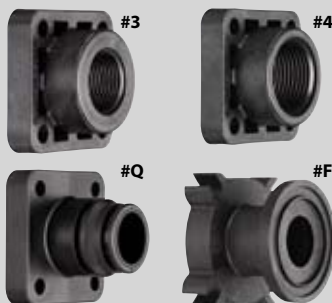
VALVE TYPE

PART CODE	DESCRIPTION
3C	3-WAY VALVE
3E	

See page 90 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 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 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 96 and 97 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 96 and 97 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 96 and 97 for QC and flange options.

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

REPAIR KIT

AB460-KIT



DirectoValve® 460FB Flow Back Manifold

The 460FB flow back valve allows 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 71 for more information on DirectoValve motors.

Features:

- 25 RPM, 0.6 second shutoff fully open to close.
- With a choice of threaded, QC (Quick Connect) hose barbs or 50 series flange fitting outlet connections, the 460B manifold allows 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 per valve.
- Maximum pressure rating of 300 PSI (20 bar).
- The 460B valve series is also available in 2-way and 3-way versions. See page 90 for 460B 2-way versions and page 92 for 460B 3-way versions.

(front view)



461BEC-FB4-C Valve
(rear view)



463BEC-FB4-C Manifold
(rear view)



(front view)





Sample Valve Part Number:

(B)463BEC-3FBF-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	25 RPM, 0.6 SECOND SHUTOFF VALVE
EC	SPST	

See page 71 for more information on E and EC motors.

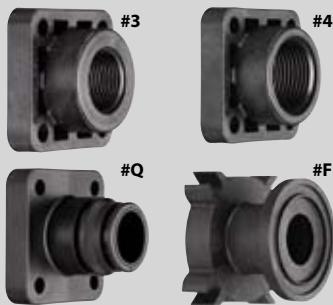
VALVE TYPE

PART CODE	DESCRIPTION
3FB	FLOW BACK

See page 92 for 3-way valve.

END CAPS OR OUTLET FITTINGS

PART CODE	DESCRIPTION
3	¾" PIPE THREAD
4	1" PIPE THREAD
Q	QUICK CONNECT
F	50 SERIES FLANGE



See pages 96 and 97 for QC and flange fittings.

WIRING CONNECTORS

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

See page 98 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 71 for DIN cables.

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

- **3, 4:** When ordering ¾" (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 96 and 97 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 96 and 97 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, two 50 series double clamps and four 45529 QC hose barb connections per manifold assembly. See pages 96 and 97 for QC and flange options.

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

REPAIR KIT

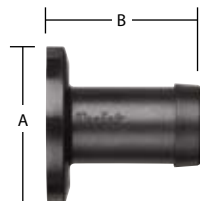
AB460-KIT



Features:

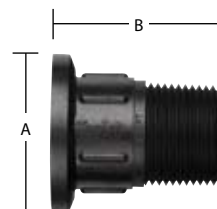
- Polypropylene construction.
- Full port design.
- Viton® O-ring seal available with clamp (not included with flange).

Straight Hose Barb Flanges



DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
3/4" Hose Barb	50	2" (51 mm)	1 1/16" (43 mm)	CP48150-PP
1" Hose Barb	50	2" (51 mm)	2" (51 mm)	CP45504-PP
1 1/4" Hose Barb	50	2" (51 mm)	2" (51 mm)	CP45505-PP
1 1/2" Hose Barb	50	2" (51 mm)	2" (51 mm)	CP45506-PP
1 1/4" Hose Barb	75	3 1/16" (78 mm)	1 3/16" (46 mm)	CP48160-PP
1 1/2" Hose Barb	75	3 1/16" (78 mm)	2 3/16" (56 mm)	CP46067-PP
2" Hose Barb	75	3 1/16" (78 mm)	2 3/4" (70 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.

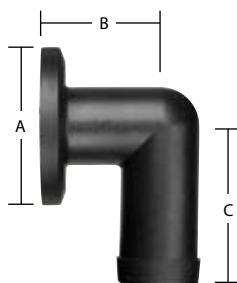


Threaded Flanges (Male)

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
3/4" 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 1/2" Male Pipe Thread	50	2" (51 mm)	2 3/4" (70 mm)	CP(B)48156-PP
1 1/4" Male Pipe Thread	75	3 1/16" (78 mm)	2 1/2" (64 mm)	CP(B)48165-PP
1 1/2" Male Pipe Thread	75	3 1/16" (78 mm)	2 1/2" (64 mm)	CP(B)48166-PP
2" Male Pipe Thread	75	3 1/16" (78 mm)	2 9/16" (65 mm)	CP(B)48167-PP

(B)=BSPT

90° Hose Barb Flanges



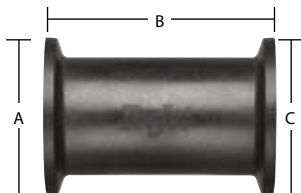
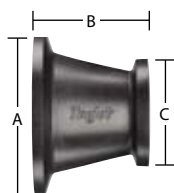
DESCRIPTION	SERIES	"A"	"B"	"C"	PART NUMBER
90° × 3/4" Hose Barb	50	2" (51 mm)	1 1/2" (38 mm)	2" (51 mm)	CP48151-PP
90° × 1" Hose Barb	50	2" (51 mm)	1 1/2" (38 mm)	2" (51 mm)	CP48152-PP
90° × 1 1/4" Hose Barb	75	3 1/16" (78 mm)	1 15/16" (49 mm)	2 9/16" (65 mm)	CP48162-PP
90° × 1 1/2" Hose Barb	75	3 1/16" (78 mm)	1 15/16" (49 mm)	2 9/16" (65 mm)	CP48163-PP
90° × 2" Hose Barb	75	3 1/16" (78 mm)	1 15/16" (49 mm)	3 3/16" (84 mm)	CP48164-PP

Gauge Port Flange



DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
1/4" Gauge Port	50	2" (51 mm)	3/4" (19 mm)	CP(B)45508-1/4-PP CP(P)45508-1/4-PP
3/8" Gauge Port	50	2" (51 mm)	3/4" (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
1/4" Gauge Port	75	3 1/16" (78 mm)	3/8" (9 mm)	CP(B)46127-1/4-PP
3/8" Gauge Port	75	3 1/16" (78 mm)	3/8" (9 mm)	CP(B)46127-3/8-PP
Blank Inlet Cover	75	3 1/16" (78 mm)	3/8" (9 mm)	CP46069-PP

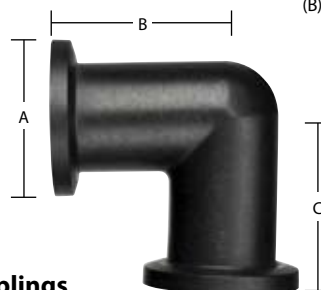
(B)=BSPT (P)=BSPP



Straight Flange Couplings

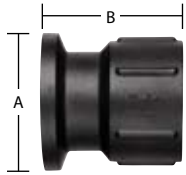
DESCRIPTION	SERIES	"A"	"B"	"C"	PART NUMBER
Straight Coupling	50	2" (51 mm)	2 1/4" (57 mm)	2" (51 mm)	CP48157-PP
Straight Coupling	75	3 1/16" (78 mm)	4 3/8" (111 mm)	3 1/16" (78 mm)	CP48169-PP
Reducer Coupling	75/50	3 1/16" (78 mm)	2 3/16" (56 mm)	2" (51 mm)	CP45207-PP

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 1/8" (79 mm)	CP48168-PP

DirectoValve® Flange Fittings



Threaded Flanges (Female)

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
1" Female Pipe Thread	50	2" (51 mm)	2" (51 mm)	CP(B)48154-PP
1½" Female Pipe Thread	50	2" (51 mm)	2" (51 mm)	CP(B)45512-PP
1½" Female Pipe Thread	75	3¼" (78 mm)	2" (51 mm)	CP(B)46066-PP

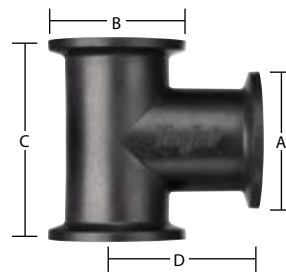
(B)=BSPT



Flange Connectors

DESCRIPTION	SERIES	PART NUMBER
2-Way Valve	50	46070
3-Way Valve	50	46024
2-Way Valve Stainless Steel	50	46072-50
Viton® O-ring	50	CP7717-2/222-VI
2-Way Valve Stainless Steel	75	46072-75
Viton O-ring	75	CP7717-2-229-VI

Note: O-ring included.



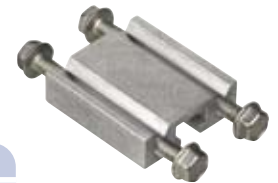
Tee Flanges

DESCRIPTION	SERIES	"A"	"B"	"C"	"D"	PART NUMBER
Tee	50	2" (51 mm)	2" (51 mm)	4¾" (111 mm)	2⅞" (73 mm)	CP50193-PP
Reducer Tee	50/75	2" (51 mm)	3⅛" (78 mm)	4¾" (111 mm)	2⅞" (73 mm)	CP46717-PP
Tee 16-PP	75	3⅛" (78 mm)	3⅛" (78 mm)	4¾" (111 mm)	3⅞" (79 mm)	CP46716-PP
450 Tee Body	75	—	3⅛" (78 mm)	4¾" (111 mm)	3⅞" (79 mm)	CP45251-PP

Note: There are no mounting provisions on the 50 series tee.

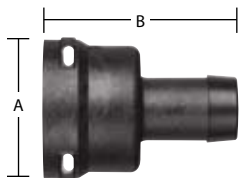
48143 Mounting Kit

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 ⅝" or 8 mm bolt.



DESCRIPTION	PART NUMBER
Tee Mounting Kit (450 or 490 series manifold)	48143

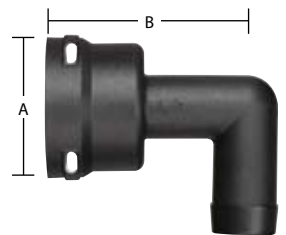
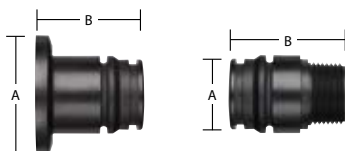
DirectoValve® Quick Connect Fittings



Quick Connect Straight Hose Barb

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
½" Straight Hose Barb	QC	1⅞" (42.7 mm)	2¼" (57 mm)	45529-1/2
¾" Straight Hose Barb				45529-3/4
1" Straight Hose Barb				45529-1

Note: O-ring and clip included.



90° Quick Connect Hose Barb

DESCRIPTION	SERIES	"A"	"B"	"C"	PART NUMBER
½" 90° Hose Barb	QC	1⅞" (42.7 mm)	2⅞" (58.4 mm)	1⅞" (38.6 mm)	45529-90-1/2
¾" 90° Hose Barb					45529-90-3/4
1" 90° Hose Barb					45529-90-1

Note: O-ring and clip included.



Clip and O-Ring

DESCRIPTION	PART NUMBER
Retaining Clip 302SS	CP37166-302SS
O-Ring (Viton®)	CP7717-2/120-VI

Quick Connection Outlet Flange Adapter

DESCRIPTION	SERIES	"A"	"B"	PART NUMBER
Male Quick Connect	50	2" (51 mm)	1⅞" (46 mm)	CP46029-PP
Quick Connect	¾" (M)	⅝" (33 mm)	2" (51 mm)	CP45227-NYB



DirectoValve® Electrical Connectors

Note: Spraying Systems Co.® recommends the use of sealed connectors to improve reliability and prolong component life.

CHART 1: CONNECTOR CODES

2-PIN OR 3-PIN	AMP MALE FASTON CONNECTOR Note: No pin-out code needed with these connectors. 2-PIN = CODE A 3-PIN = CODE J	AMP FEMALE FASTON CONNECTOR Note: No pin-out code needed with these connectors. 2-PIN = CODE B 3-PIN = CODE K
	AMP FEMALE MATE-N-LOK® CONNECTOR (SEALED) 2-PIN = CODE C 3-PIN = CODE L	AMP MALE MATE-N-LOK® CONNECTOR (SEALED) 2-PIN = CODE D 3-PIN = CODE M
	PACKARD WEATHER PACK SHROUD CONNECTOR (SEALED) 2-PIN = CODE E 3-PIN = CODE O	PACKARD WEATHER PACK TOWER CONNECTOR (SEALED) 2-PIN = CODE F 3-PIN = CODE P
	DEUTSCH DT FEMALE CONNECTOR (SEALED) 2-PIN = CODE G 3-PIN = CODE Q	DEUTSCH DT MALE CONNECTOR (SEALED) 2-PIN = CODE H 3-PIN = CODE R
	PACKARD METRIPACK FEMALE CONNECTOR (SEALED) 3-PIN = CODE S	JST VH FEMALE CONNECTOR (SEALED) 2-PIN = CODE I 3-PIN = CODE T
	PACKARD WEATHER PACK SHROUD CONNECTOR (SEALED) 4-PIN = CODE U	PACKARD WEATHER PACK TOWER CONNECTOR (SEALED) 4-PIN = CODE V

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)



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

- 10 GPM (37.9 l/min) flow with only 5 PSI (0.34 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)

- 10 GPM (37.9 l/min) flow with only 5 PSI (0.34 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

MODEL NUMBER	INLET SIZE	OUTLET SIZE	CURRENT DRAW
AA(B)144A-*	3/4"	1/2"	2.5 amp

(B) = BSPT

AA144A-3
(Three Unit)



AA145H Control Valves

- For pressures to 100 PSI (7 bar); 15 GPM (56.7 l/min) flow with 5 PSI (0.34 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



AA145H



DirectoValve®

Electrically Operated Metered Bypass Valves



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.

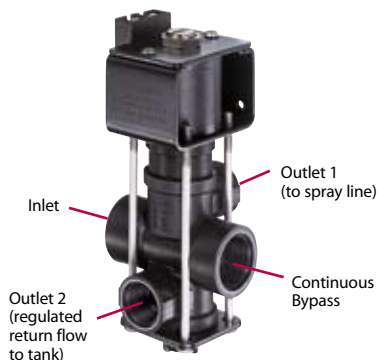
- For pressure to 65 PSI (4.5 bar).
- 5 PSI (0.34 bar) pressure drop with 8 GPM (30 l/min) flow.
- Fabric-reinforced Viton® diaphragms.

- 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 104 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).
- 8 GPM (30 l/min) flow at only 5 PSI (0.34 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 104 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).

- Large flow capacities, 5 PSI (0.34 bar) pressure drop with 8 GPM (30 l/min) flow.
- 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



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 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 (322 l/min) flow.

(B) = BSPT



DirectoValve® 340 Series 3-Way Manual Bypass Ball Valves



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

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".
- Stainless 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

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).
- Large capacity, 12 GPM (47 l/min) at 5 PSI (0.34 bar) pressure drop.
- Molded-in mounting flange and 1/4" 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



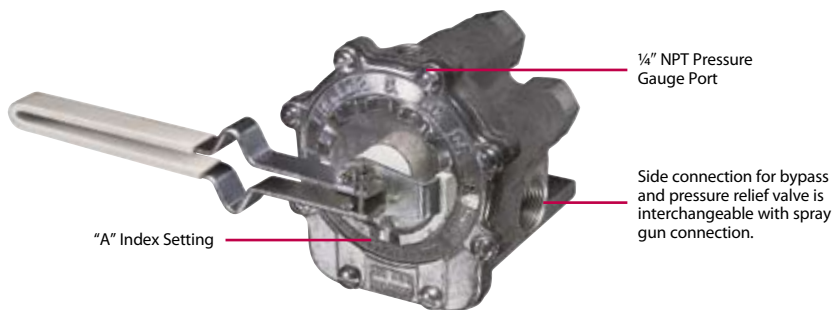
TeeValve® Control Valves

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	3/4" (F)	3/4" (F)
AA17L	Aluminum, Polymer, SS	300 PSI (20 bar)	3/4" NPT	3/4" (F)	3/4" (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).
- 1/2" and 3/4" NPT or BSPT connections.
- 10 PSI (0.6 bar) pressure drop at 6 GPM (37.8 l/min) flow rate for 1/2"; 18 GPM (69 l/min) for 3/4" size.

How to order:

Example: (B)23520-1/2-PP
(B) = BSPT



Type 12690

- Pressures to 125 PSI (9 bar).
- Available in Nylon, Celcon®, aluminum, steel and stainless steel.
- Choice of 1/2" or 3/4" NPT connections.
- Maximum flow rate at 100 PSI (7 bar) is 56 GPM (212 l/min) for 1/2" size and 82 GPM (310 l/min) for 3/4" 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", 1 1/4" or 1 1/2" NPT connections.
- Flow rate at 40 PSI (3 bar) is 116 GPM (440 l/min) for 1" and 1 1/4" sizes and 172 GPM (651 l/min) for 1 1/2" size.

How to order:

Example: 12795-1





MESH SIZE
16
24
50
80
100
200

TeeJet Strainers

Strainers protect spray tip orifices from clogging and damage. Stainless steel screens are available in 24, 50 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
4514-*-10	Brass or Nylon	50
4514-*-20	Brass, Aluminum or Nylon	25
4514-*-32	Brass, Aluminum or Nylon	16

*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
4193A- *- *	Brass	Stainless Steel
4193A-SS- *- *	Stainless Steel	Stainless Steel
4193A-PP- *- *	Polypropylene	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 ½" or ¾" (F) NPT pipe connections. The maximum pressure rating is 150 PSI (10 bar).



37270-122-PP

The screen may be periodically flushed by opening a valve (valve not included) in flush-out line.



23174 45102

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-*	½"	12 (45)	16	CP23174-1-SS	150 PSI (10 bar)
AA(B)122-3/4-PP-*	¾"	16 (60)	30	CP23174-2-SS	
AA(B)122ML-1/2-PP-*	½"	12 (45)	50	CP45102-3-SSPP	
AA(B)122ML-3/4-PP-*	¾"	16 (60)	80	CP45102-4-SSPP	
(B)37270-122-1/2-PP-*	½"	12 (45)	100	CP45102-5-SSPP	
(B)37270-122-3/4-PP-*	¾"	16 (60)			

* = Mesh Size

(B) = BSPT



AA126ML-F50



AA126ML-3 or -4



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 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 96 and 97.
- 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

(B)=BSPT

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 96 and 97.
- 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)126-5-*	1 1/4"	59 GPM (223 l/min)	CP15941-3-SSPP	50
			CP15941-4-SSPP	80
AA(B)126-6-*	1 1/2"	77 GPM (291 l/min)	CP15941-5-SSPP	100
			CP15941-6-SSPP	120

*Specify mesh size

(B)=BSPT



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 ¾" and 1" sizes and 8 GPM (30 l/min) for 1¼" and 1½" 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 ¾", 1", 1¼", 1½" (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 ¾", 1", 1¼", 1½" (F) NPT or BSPT thread.
- Both use an all stainless steel strainer element.
- Strainers with mounting lugs are designated by "ML".

AA(B)126ML-SC

(Glass-filled Polypropylene)



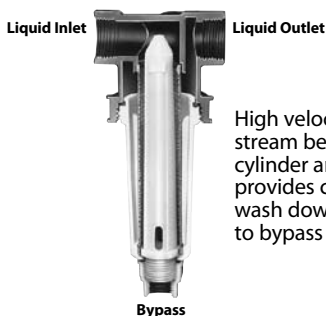
AA(B)124ML-SC-AL

(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.	MATERIAL		MAX. PRESSURE PSI (bar)	MIN. BYPASS REQUIRED GPM (l/min)	SCREEN	
		HEAD	BOWL			MESH	NUMBER
AA(B)126ML-3SC-*	¾" (F)	Polypropylene		200 (14)	6 (23)	16	CP12285-SS
AA(B)124ML-3/4-SC-AL-*		Aluminum	Nylon	150 (10)		30	
AA(B)126ML-4SC-*	1" (F)	Polypropylene		200 (14)		50	CP12290-SS
AA(B)124ML-1-SC-AL-*		Aluminum	Nylon	150 (10)	8 (30)	80	
AA(B)126ML-50FSC-*	Flange	Polypropylene		200 (14)		100	
AA(B)126ML-5SC-*	1¼" (F)	Polypropylene		200 (14)	8 (30)	16	CP12285-SS
AA(B)124ML-1-1/4-SC-AL-*		Aluminum	Nylon	150 (10)		30	
AA(B)126ML-6SC-*	1½" (F)	Polypropylene		200 (14)		50	
AA(B)124ML-1-1/2-SC-AL-*		Aluminum	Nylon	150 (10)	8 (30)	80	CP12290-SS
AA(B)126ML-75FSC-*	Flange	Polypropylene		200 (14)		100	

(B)=BSPT

STRAINER NUMBER	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-*	¾" (F)	Aluminum	Nylon	150 (10)	6 (23)	16	CP12285-SS
AA(B)124A-1-SC-AL-*	1" (F)					30	
AA(B)124A-1-1/4-SC-AL-*	1¼" (F)				8 (30)	80	CP12290-SS
AA(B)124A-1-1/2-SC-AL-*	1½" (F)					30	
						80	
						100	

(B)=BSPT

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

* = Mesh Size

(B) = BSPT



16903

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)124A-1-1/4-AL-*	1¼"	60 (230)	150 (10)	16	CP15941-1-SSPP
				30	CP15941-2-SSPP
				50	CP15941-3-SSPP
AA(B)124A-1-1/2-AL-*	1½"	70 (260)	150 (10)	80	CP15941-4-SSPP
				100	CP15941-5-SSPP
				120	CP15941-6-SSPP
AA(B)124A-2-AL-*	2"	160 (610)	150 (10)	16	CP14634-1-SS
				30	CP14634-2-SS
				50	CP14634-3-SS
AA(B)124A-2-1/2-AL-*	2½"	170 (640)	150 (10)	80	CP14634-4-SS
				100	CP14634-8-SS

* = Mesh Size

(B) = BSPT



15941



14634

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
				16	CP15941-1-SSPP
AA(B)124ML-1-1/4-AL-*	1¼"	60 (230)	150 (10)	30	CP15941-2-SSPP
				50	CP15941-3-SSPP
				80	CP15941-4-SSPP
				100	CP15941-5-SSPP
AA(B)124ML-1-1/2-AL-*	1½"	70 (260)	150 (10)	120	CP15941-6-SSPP
				16	CP14634-1-SS
				30	CP14634-2-SS
				50	CP14634-3-SS
AA(B)124ML-2-AL-*	2"	160 (610)	150 (10)	80	CP14634-4-SS
				100	CP14634-8-SS

* = Mesh Size

(B) = BSPT



16903



15941



14634

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

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 1 1/4 pounds.



GunJet Number AA2A

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:

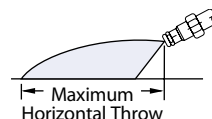
For complete gun, specify GunJet spray gun number and material.

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

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

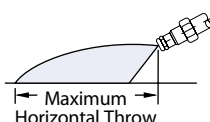
Choose one of five interchangeable orifice disc capacities. Other sizes may be available upon request. Discs are corrosion- and erosion-resistant.



Hardened Stainless Steel Type DX-HSS Spray Tips

For spraying trees and other applications where maximum spray throw is required. Write for Data Sheet 6990.

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	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	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	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



Model 23623-31

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 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.
- Optional spring for low volume applications available.
- 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 THREADS

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	25670-1.5-NY	5.4	7.5	8.4	10.2	10.9	12.8	15.7
25660-3.0	25670-3.0-NY	7.8	10.6	11.9	14.4	15.5	18.2	22.0
25660-4.0	25670-4.0-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 1½"-16 TeeJet thread outlet. Maximum pressure 150 PSI (10 bar). See page 115 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 115 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.

See page 116 for extensions.



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



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.

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)

How to order:

Specify model number.

Example: AA23L



How to order:

Specify model number.

Example: PW(B)4000A

(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



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
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: AA(B)30L-1/4

(B) = BSPT



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® 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" Polypropylene Extension	1/4" Hose Barb Inlet	 38720-PPB-X18
50800-15-PP-406		3/8" Hose Barb Inlet	
50800-21-AL-300	21" Aluminum Extension	1/4" Hose Barb Inlet	 38720-PPB-X26 See page 115 for flow rate.
50800-21-AL-406		3/8" Hose Barb Inlet	
50800-15-PP-300-X26	15" Polypropylene Extension	1/4" Hose Barb Inlet	
50800-15-PP-406-X26		3/8" Hose Barb Inlet	
50800-21-AL-300-X26	21" Aluminum Extension	1/4" Hose Barb Inlet	
50800-21-AL-406-X26		3/8" Hose Barb Inlet	

Example: 50800-15-PPB-300

50800 TriggerJet Less Extension and Tip

- Can be fitted with any standard TeeJet® 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 Spraying Systems Co.® spray tips and tip strainers.

MODEL NUMBER	EXTENSION LENGTH	INLET CONNECTION	TIP NUMBER
(B)22670-PP-15-1/4	15" (381 mm)	1/4" (F)	 38720-PPB-X8 (Standard nozzle shipped with TriggerJet)
22670-PP-15-300	15" (381 mm)	1/4" Hose Shank	
22670-PP-15-406	15" (381 mm)	3/8" Hose Shank	
(B)22670-PP-24-1/4	24" (610 mm)	1/4" (F)	
22670-PP-24-300	24" (610 mm)	1/4" Hose Shank	
22670-PP-24-406	24" (610 mm)	3/8" Hose Shank	

(B)=BSPT

How to order:

Specify model number.
Example: (B)22670-PP-15-1/4
Reference page 115 for additional spray tip information.



22650-PP-*

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 Spraying Systems Co.® 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 115 for additional spray tip information.



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.

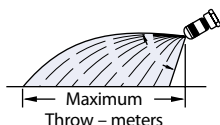


5500-PP

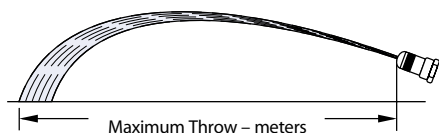
The 5500 adjustable ConeJet tip is also available in a polypropylene version. The polypropylene tip has the same performance characteristics as the brass tip and provides excellent chemical resistance. This tip's light weight makes it well-suited for use on handheld and backpack type sprayers.

O-Ring: EPDM is standard, Viton® is optional.

TIP SETTING "A" CONE SPRAY PATTERN



TIP SETTING "B" STRAIGHT STREAM SPRAY PATTERN



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	.46	9.1	.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	0.91	9.2	0.91	7.7
5500-PPB-X3	Max. Throw, m	0.61	9.4	0.61	10.1	0.61	10.1	0.61	9.7	0.91	8.8	0.91	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	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
	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°	—
5500-PPB-X5	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
	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
5500-X6	Spray Angle	65°	—	71°	—	74°	—	77°	—	80°	—	80°	—
	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
5500-PPB-X6	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-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	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
	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°	—
5500-PPB-X12	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
	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
5500-X14	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
	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
5500-PPB-X18	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
	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
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

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. 1/4" 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 1/4" 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). 1/4" NPT (F) inlet connection, 1/2"-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.

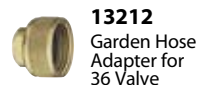


6104

6590

6104 Trigger Valve with trigger lock. Same as 4688 except with 1/4" 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, 3/8" NPT (F) outlet, 3/4" garden hose thread inlet for use with 3/8" 36 valve. Brass material.

Valve Handles

Choice of valve handles—for above valves



4727



4754



4725

Outlet connections are 1/4" NPT (M) to fit 1/4" NPT (F) inlets of all valves shown. Choice of types for every need.

(B)4727 Sure Grip Handle, brass, rubber-covered, 1/4" NPS (M) or BSPT hose inlet connection.

4754 Sure Grip Handle, brass, rubber-covered, 3/4" garden hose thread (F) inlet connection.

4725 Handle, made of 1/8" brass pipe with bushing. Slip hose over pipe to form handle.

Extensions for Valves and Spray Guns



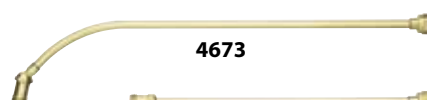
9527

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). Includes straight and 45° adapters. 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)



		APPLICATION TYPE										
		LIQUID	GRANULAR	MULTI-PRODUCT	VARIABLE-RATE CAPABLE	SLURRY CAPABLE	DIRECT INJECTION CAPABLE	ROADSIDE	COMBINE HARVESTER CAPACITY AND GRAIN LOSS MONITOR	FIELD MAPPING	OTHER MACHINE CONTROL AND MONITORING	ISOBUS COMPATIBLE
	834 Reference Page 128	YES										
	844-E, 854 Reference Page 126–127	YES			YES							
	ARC Reference Page 132	YES	YES									
	TASC® 6100 Reference Page 132	YES	YES		YES							
	TASC 6200 Reference Page 132	YES	YES	YES	YES							
	TASC 6500 Reference Page 132	YES	YES	YES	YES		YES					
	TASC 6300, TASC 6600 Reference Page 132	YES		YES	YES		YES					
	85 Reference Page 140	YES			YES	YES						
	70 Reference Page 148	YES			YES						YES	
	LH 500 Reference Page 142		YES		YES	YES			YES		YES	
	LH 4000 Reference Page 138				YES							
	LH 765, LH 865 Reference Page 144								YES			
	LH 6000 VIRTUAL TERMINAL Reference Page 152											YES
	IC24 JOB COMPUTER Reference Page 153	YES	YES								YES	YES
	IC34 JOB COMPUTER Reference Page 153	YES										YES
	LEGACY® 6000 SYSTEM Reference Page 154	YES	YES	YES	YES		YES	YES		YES	YES	



	GPS GUIDANCE TYPE									
	GRAPHICAL GUIDANCE	MOUNTING LOCATION	STRAIGHT AB (PARALLEL) GUIDANCE	CURVED AB GUIDANCE	HEADLAND MODE (ADAPTIVE CURVE)	ASSISTED STEERING COMPATIBLE	TILT SENSOR COMPATIBLE	ON-SCREEN MAPPING	FIELD MAPPING AND APPLICATION REPORTS	SWATH MANAGER AUTOMATIC BOOM SECTION CONTROL COMPATIBLE
 CENTERLINE 220 Reference Page 119	YES	INSIDE CAB	YES	YES		YES				
 CENTERLINE Reference Page 120		INSIDE OR OUTSIDE	YES	YES	YES		YES			YES
 CENTERLINE PLUS SMARTPAD II Reference Page 120	YES	INSIDE OR OUTSIDE	YES	YES	YES		YES	YES	YES	YES
 LEGACY® 6000 Reference Page 154	YES	CONSOLE INSIDE/ LIGHTBAR INSIDE OR OUTSIDE	YES	YES	YES	YES	YES	YES	YES	YES





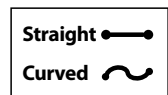
Compact Guidance for any Application

The compact CenterLine 220 is designed to let you profit from GPS lightbar guidance with any field operation. Inside the compact guidance system is a high-quality WAAS/EGNOS GPS receiver and the guidance capabilities that make TeeJet leaders in lightbar guidance.

- Versatile GPS guidance in a compact, portable package.
- LED Lightbar guidance plus a graphical display for complete guidance information.
- High-quality, 5 Hz internal GPS engine with external antenna.
- Simple setup gets you up and running in no time.
- Straight-line (parallel) and curved AB guidance modes.
- Integrated look-ahead functionality anticipates vehicle's future position.
- Return-to-point feature.
- Durable, sealed rubber keypad is easy to see and provides good tactile feedback.
- Provides RADAR-like speed signal output for use with other control systems that require a ground speed signal.



Working Page Layout



Guidance Mode



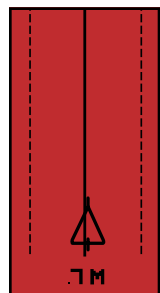
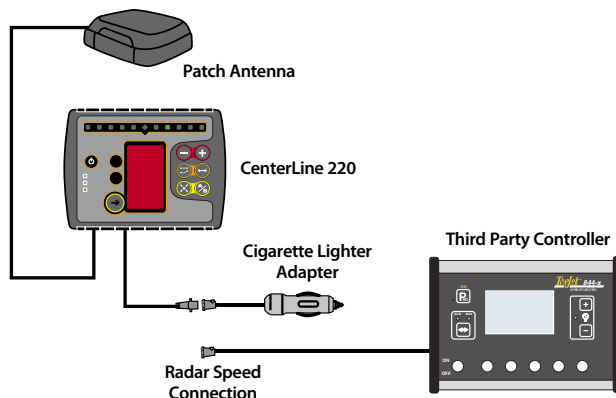
Swath Number

X-Track Direction

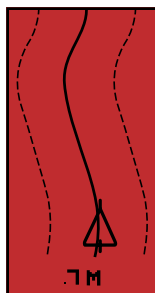
X-Track Distance

Speed

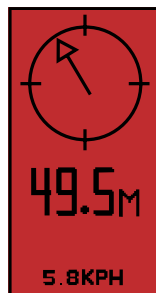
You have a point stored for return-to-point.



View Page
Straight AB



View Page
Curved AB



View Page
Return-to-Point



Set Swath
Width Screen

How to Order

PART NUMBER	DESCRIPTION
90-02340	CenterLine 220 Kit, US Version
90-02341	CenterLine 220 Kit, Metric Version
90-02343	CenterLine 220 Kit, Autonomous Metric Version
90-02342	CenterLine 220 Kit, EGNOS

ACCESSORIES

78-50155	Patch Antenna
90-02349	RAM Mount Kit for CenterLine 220



Lightbar Guidance System with Wireless Remote Control

- Compact lightbar with fully adjustable brightness for day or night operation.
- Convenient wireless remote controls lightbar functions — even if the lightbar is mounted outside.
- The foundation of your GPS guidance system.



Effective Guidance

Lightbar Guidance System with Wireless Remote Control

CenterLine offers the most features, the best price and wireless convenience in one complete kit. This compact lightbar guidance system is available with a WAAS/EGNOS DGPS receiver/antenna and includes a wireless remote control.

Guidance that Works the Way You Do

Choose from parallel, headland (contour) or curved AB modes. CenterLine automatically gives you guidance information to the closest swath and counts down the distance to the next swath as you turn at row ends.

Shows You the Information You Want

A bright text display reports the application information of your choice automatically. It also warns you when you enter an area of the field that has already been applied. Data you can monitor includes:

- Current position error from active swath
- Current swath number
- Vehicle speed
- Area that's been applied
- Course relative to 360° position

Mapping and Data Collection

When used with the Smartpad II handheld computer, the CenterLine system can map field boundaries, field hazards and application records. And you can view progress on-screen as you work.

Upgradable to Meet Your Needs

CenterLine is upgradable to match your changing guidance needs. CenterLine is fully compatible with Swath Manager automatic boom section control as well as the Tilt Compensation Module.

Smartpad II

See Where You've Missed

Maps are viewed as you make them so skips can be seen and fixed before leaving the field.

Built to Last

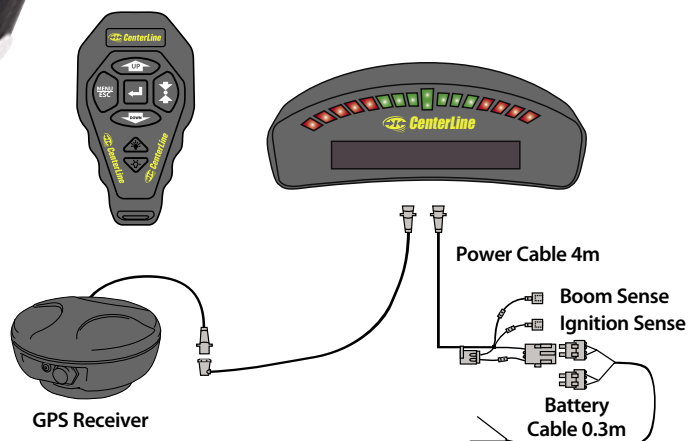
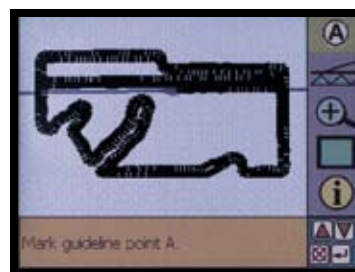
Durable housing is designed to withstand the rigors of field work.

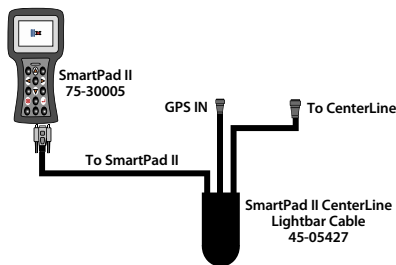
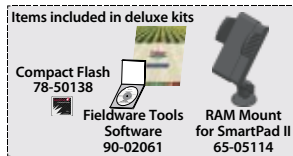
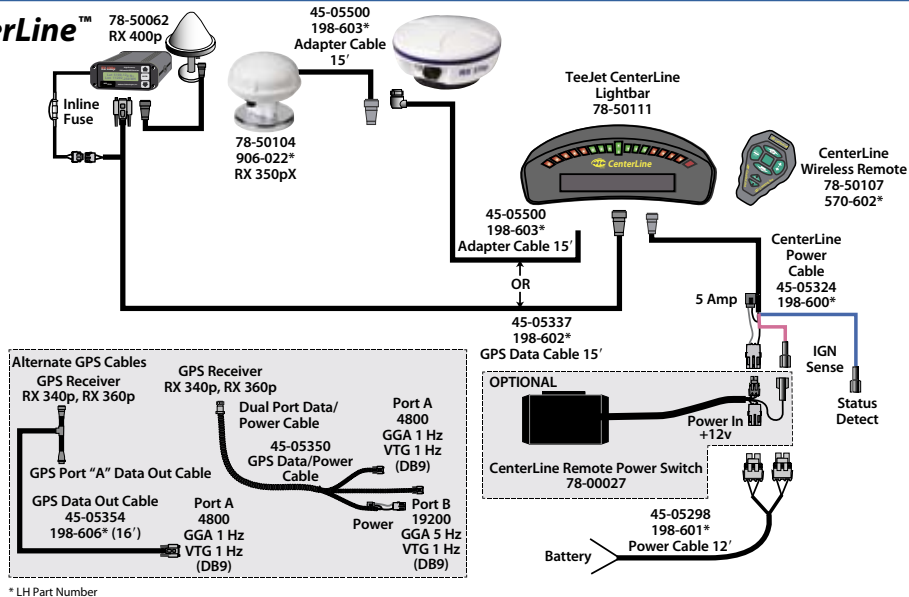
Keep a Permanent Record

Smartpad II uses compact flash data cards and saves all field records. Download these to your office computer for a permanent record.

High-Resolution Display

76 mm x 50 mm (3" x 2") high-resolution color touch screen display is easy to view in any lighting.





Spare Parts and Accessories

PART NUMBER	DESCRIPTION
45-05298	Battery Cable—12'
45-05324	CenterLine Power Cable—12'
45-05337	CenterLine Power/Data Cable (Packard/DB9)—15'
45-05338	GPS Data Cable w/12 pos. DT
45-05340	Deutsch to DB9 and Power
45-05343	Extension Cable—CenterLine to GPS Data Cable—10'
45-05350	GPS Data Cable with dual DB9 and Power—16'
45-05354	GPS Data Cable with single DB9—16'
45-05427	CenterLine to SmartPad II Harness
64-05066	Suction Cup Mount
65-05114	SmartPad II RAM Mount
65-05052	CenterLine Lightbar Bracket
78-00027	Remote Power Switch
78-50150	RX 340p GPS Receiver
78-50062	RX 400p GPS Receiver
78-50148	RX 370p GPS WAAS Receiver
78-50152	RX 370p GPS Receiver (Autonomous)
78-50153	RX 370p GPS Receiver (EGNOS 120,126)
78-50154	RX 370p GPS Receiver (e-dif)
78-50151	RX 500 GPS Receiver
78-50094	CenterLine Wireless Remote (418 Mhz—Black Enclosure)
78-50096	TeeJet CenterLine Lightbar (418 Mhz—Black Enclosure)
78-50107	CenterLine Wireless Remote (433 Mhz—Gray Enclosure)
78-50111	TeeJet CenterLine Lightbar (433 Mhz—Gray Enclosure)
78-50138	Compact Flash Card, 128 MB
90-02061	Fieldware Tools ver 3.00
98-01094	CenterLine Quick Start Guide—English
98-01105	CenterLine Quick Start Guide—Portuguese
98-05054	CenterLine User Guide—English
98-05057	CenterLine User Guide—Portuguese

How to Order

PART NUMBER	DESCRIPTION
90-02185	TeeJet CenterLine Basic System (no GPS Receiver)
90-02379	TeeJet CenterLine System with RX 340p GPS Receiver
90-02186	TeeJet CenterLine System with RX 370p GPS Receiver
90-02187	TeeJet CenterLine System with RX 400p GPS Receiver
90-02223	TeeJet CenterLine System with RX 370p e-dif (Portuguese)
90-02278	TeeJet CenterLine System with RX 370p e-dif (Spanish)
90-02350	TeeJet CenterLine System with RX 370p (autonomous)
90-02380	CenterLine with SmartPad II Basic and RX340p
90-02292	CenterLine with SmartPad II Basic and RX 370p
90-02381	CenterLine with SmartPad II Deluxe and RX 340p
90-02296	CenterLine with SmartPad II Deluxe and RX 370p
90-02351	CenterLine with SmartPad II Basic and RX 370p (autonomous)
90-02278	Smartpad II Deluxe Upgrade Kit for CenterLine
90-02290	Smartpad II Basic Upgrade Kit for CenterLine
75-30005	Smartpad II Handheld Computer



Assisted Steering with Precise Product Control

Better tools deliver better work and FieldPilot is the ultimate tool for field application work. Merging assisted steering with precise product control, FieldPilot will raise you to a new level of efficiency while reducing costs.

Applicators and farmers who have used the system say that FieldPilot is the best thing to happen to field application equipment in more than 30 years. Machine guidance, product control and even boom section on/off status are managed automatically. This frees the operator to keep track of other critical functions such as spray boom height, proper application patterns, vehicle speed, and the status of the tank or hopper.

We keep it simple too. All functions are controlled through only one console and simple, intuitive controls. This makes setup and training easier and reduces the confusion of running multiple systems side-by-side.

One Console Brings it Together

The console that ties the system together is the Legacy® 6000. It has a full-color display with resolution and brightness that stand out even in direct sunlight. The Legacy 6000 regulates liquid, granular, and anhydrous ammonia product application as well as seed population control. All application data—including maps—are stored for easy download and reporting when the job is complete.

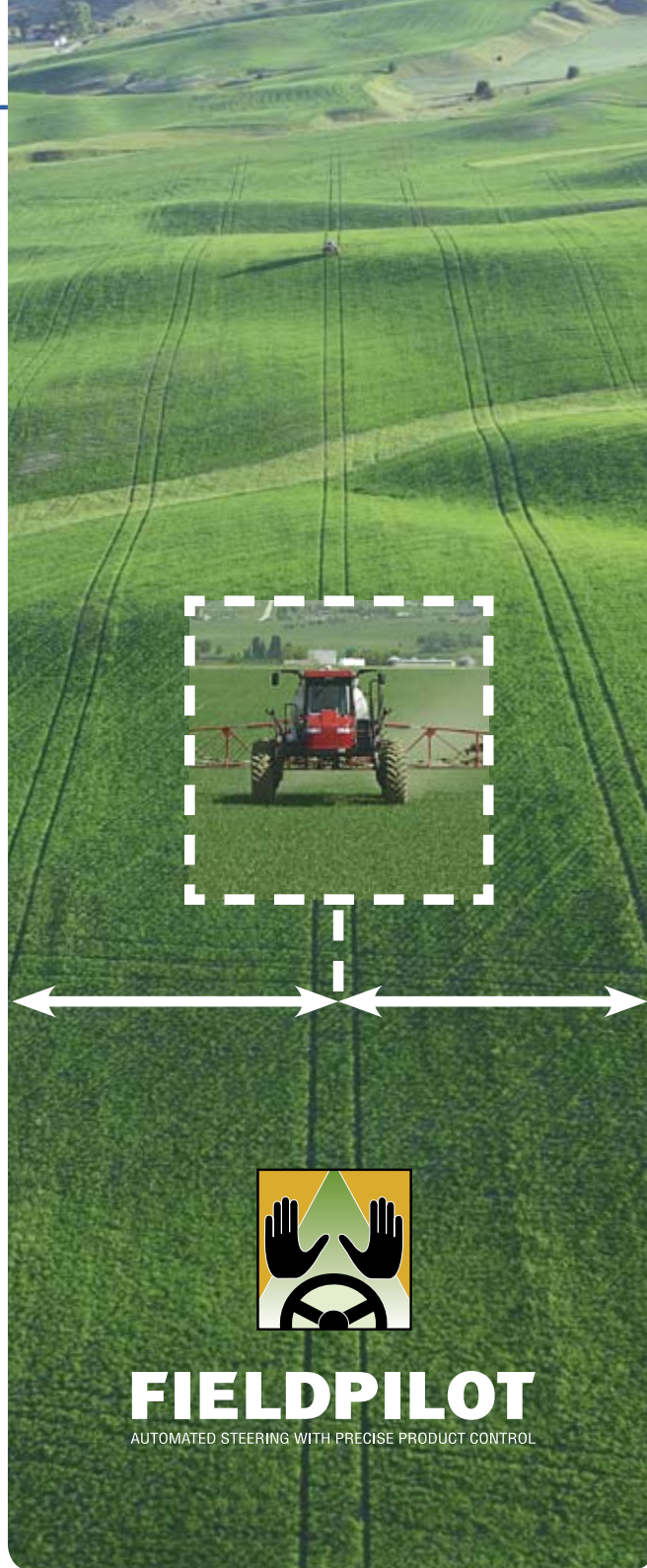
Legacy 6000 manages assisted steering too. Choose parallel, circle pivot, curved A-B, or headland guidance modes; then begin by pressing a key on the console to mark the A-B points. After the first pass is set, the operator makes the end-row turns manually, and after lining up for the next pass, a quick tap of the foot switch puts the machine back in assisted steering mode. The operator can manually override the steering at any time, and when the vehicle reaches a preset off-target distance, the system disengages.

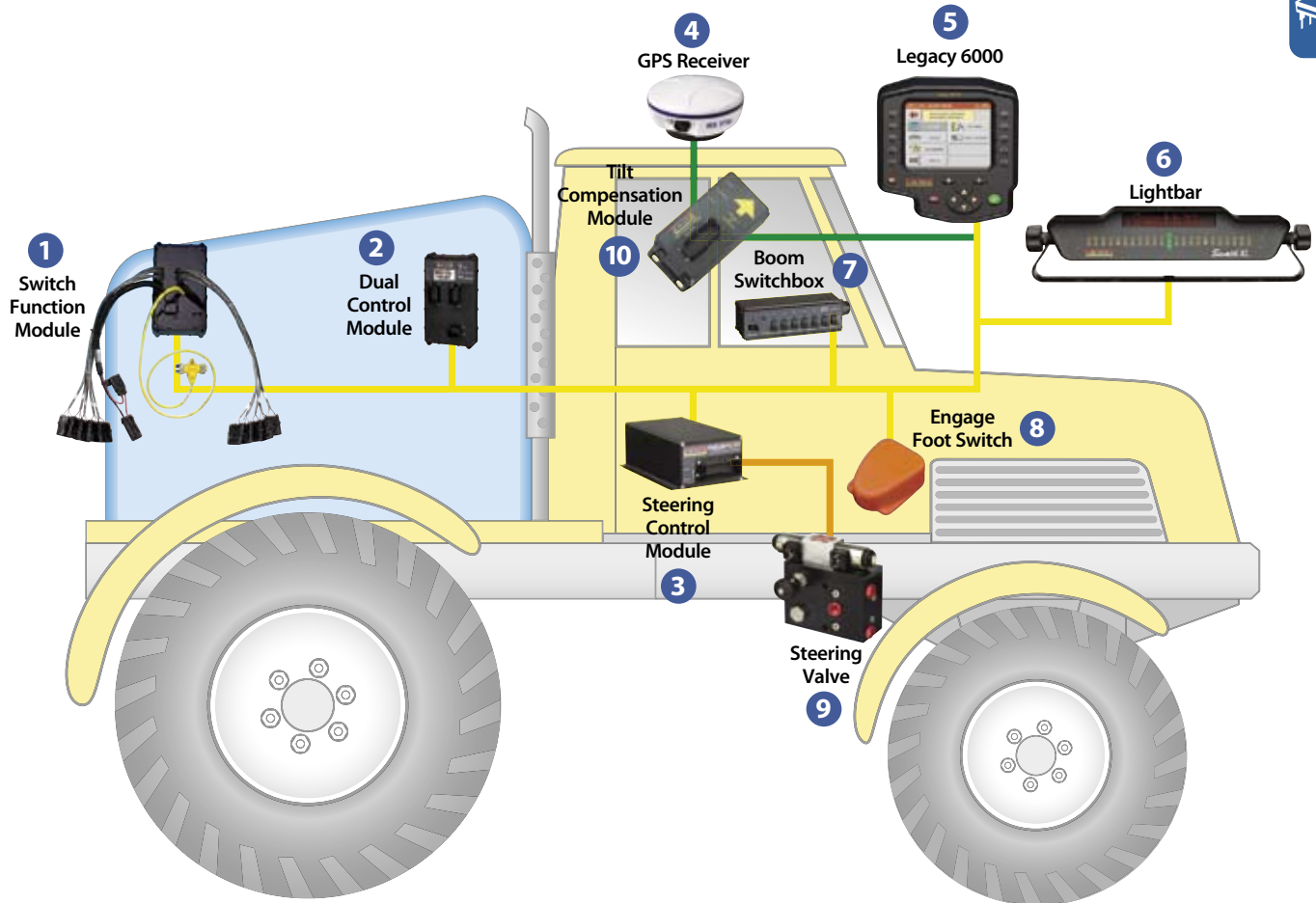
Total Machine Control

For total machine automation, the Swath Manager function integrates automatic boom section control for pinpoint accuracy on row ends and especially on point rows. Any time a sprayer section moves into a previously applied area, it is automatically switched off. The chemical savings you will see from reduced overlap will amaze you.

FieldPilot relies upon positioning from your choice of several GPS receivers. DGPS receiver systems are available for Beacon, L-band, or WAAS/EGNOS correction sources, and provide 6"–10" (10–25 cm) pass-to-pass accuracy. Higher precision is available with Omnistar HP or Omnistar XP receiver systems, providing pass-to-pass accuracies of 2"–4" (5–10 cm). FieldPilot is compatible with most GPS receivers that provide at least 5 Hz position updates.

FieldPilot will retrofit on most common sprayer, spreader, and tractor chassis. A complete list is available from your TeeJet representative or at www.TeeJet.com.





1 Switch Function Module

- Performs automatic or manual boom section control
- Works with Boom Switchbox located in cab, or an ISM reading the status of existing boom section switches
- One module controls up to 10 boom sections
- Additional module for up to 20 boom section control
- Connected to system via robust CAN-bus network

2 Dual Control Module

- Performs single or variable-rate application control
- Compatible with liquid, granular, NH₃ and seeding applications
- Compatible with both Servo and PWM regulating valves
- Each DCM controls two products. Using three DCMs, up to six total products can be controlled simultaneously
- Connected to system via robust CAN-bus network

3 Steering Control Module

- Operates steering valve for hands-free steering

- Works with commands from Legacy 6000 console
- Assisted steering can be engaged from the Legacy console or from the optional foot switch
- Assisted steering disengages once machine exceeds operator preset distance from guideline
- Connected to system via robust CAN-bus network

4 GPS Receiver

- Provides accurate location information
- GPS location enables mapping, variable rate application, assisted steering, and as-applied records
- FieldPilot is compatible with most GPS receivers

5 Legacy 6000

- Single-user interface for entire machine control system including FieldPilot and application rate control
- Easy-to-read color display shows field maps, application information, and all setup information

- Maintains application records on a reliable data card for transfer back to the office and report generation
- Connected to system via robust CAN-bus network

6 Lightbar

- Provides visual feedback for manual guidance
- Helps operator instantly monitor steering performance when using FieldPilot-assisted steering
- Provides heads-up view of application information (application rate, area covered, etc.)
- Can be mounted inside or outside the cab
- Connected to system via robust CAN-bus network

7 Boom Switchbox

- Commands boom section off-on functions
- Manual or automatic modes for boom section control
- Controls up to 10 boom sections. Second stack-on switchbox controls Booms 11–20

- Easy to mount in a convenient location
- Can be replaced by Input Status Module for machines with built-in boom section switches
- Connected to system via robust CAN-bus network

8 Engage Foot Switch

- Convenient method of engaging assisted steering
- Connected to system via robust CAN-bus network

9 Steering Valve

- Connects to hydraulic steering system
- Performs accurate, reliable steering control
- Machine steers normally when FieldPilot is not engaged

10 Tilt Compensation Module

- Corrects GPS receiver output data in real-time to compensate for vehicle being on sloping terrain
- Connects to serial port on GPS receiver

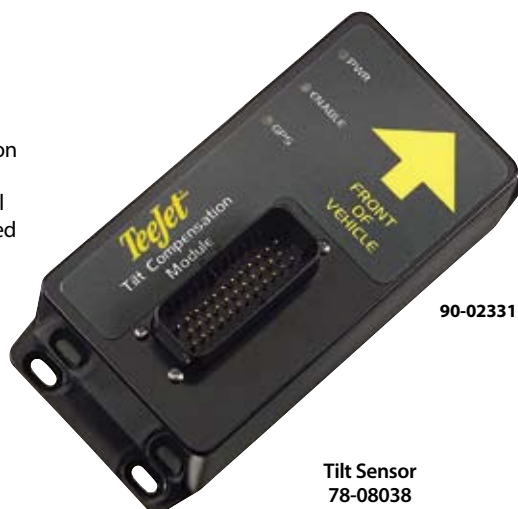
Contact your local TeeJet representative for more information.



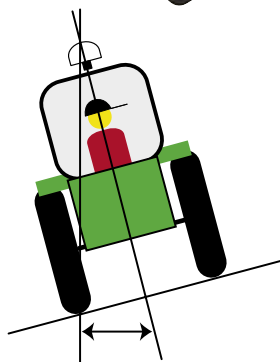
Tilt Compensation Module

If your GPS antenna is mounted 12 feet (4 meters) above the ground, a 10% side slope can cause 2 feet (.6m) of position error. The new Tilt Compensation Module corrects GPS position errors caused by side-slope conditions. Mounted to a solid structure on your vehicle, the Tilt Compensation Module will intercept GPS signals from your receiver and provide corrected position data to your guidance device.

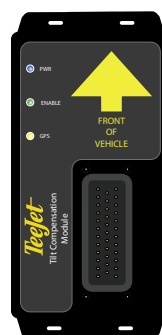
- Diagnostic LEDs indicate status of TCM (power status, operating status, and status of incoming GPS data).
- Weatherproof electrical connector for trouble-free operation.
- Mounting holes built into housing.
- Automatically detects GPS sensor baud rate and adjusts output accordingly.
- Compatible with Swath XL, Guideline, CenterLine, and Legacy 6000 guidance systems.



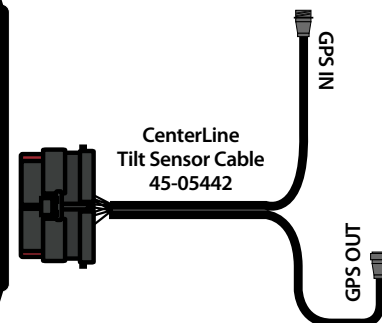
90-02331



Tilt Sensor
78-08038



CenterLine
Tilt Sensor Cable
45-05442



How to Order

PART NUMBER	DESCRIPTION
90-02331	Tilt Compensation Module Kit for Guidance Systems
90-02332	Tilt Compensation Module Kit for Legacy 6000
45-05442	Cable, Tilt Compensation, Conxall
45-05441	Cable, Tilt Compensation, DB9
78-08038	Module, Tilt Compensation

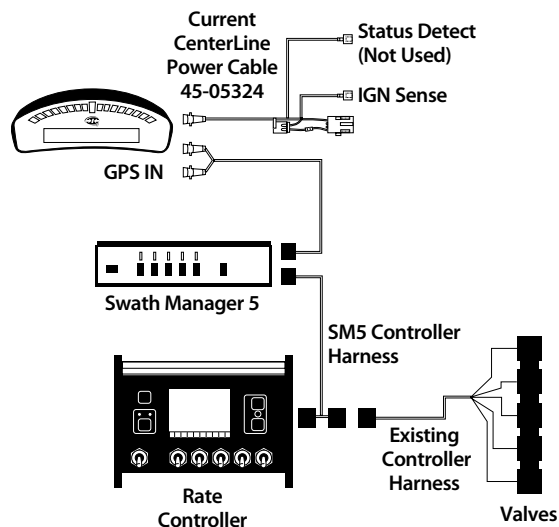
Swath Manager 5

Add the Swath Manager 5 to your CenterLine lightbar and get automatic boom section control of up to five boom sections. The CenterLine and Swath Manager 5 store information about where you have sprayed. When you overlap these areas, the corresponding boom sections are switched off. The Swath Manager can interface to your existing spray rate controller to ensure accurate application rates and area accumulation.



How to Order

PART NUMBER	DESCRIPTION
90-02344	Swath Manager 5 Basic, CenterLine to 844/854
90-02345	Swath Manager 5 Basic, CenterLine to ARC/TASC
90-02346	Swath Manager 5 Basic, CenterLine to Raven 440
90-02385	Swath Manager 10 Kit





TeeJet offers a full range of high-quality GPS receivers to fit your precision farming needs. Economical WAAS and EGNOS 'smart antennas' are convenient and affordable. Other receivers provide more differential correction options for maximum flexibility.



GPS Antenna

RX 400p

- Flexible receiver is compatible with WAAS/EGNOS, Coast Guard Beacon, and L-band corrections.
- Cruise technology keeps running even during brief differential signal losses.
- Setup wizard guides user through setup process.
- On-board display and buttons permit easy configuration and status checks.
- Separate antenna is compatible with GPS, WAAS, Beacon, and L-band signals.



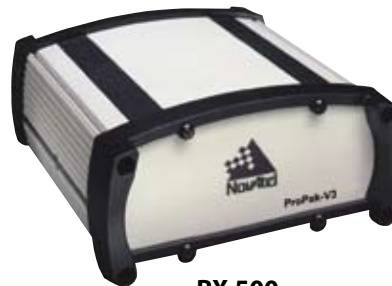
RX 340p

- Antenna and receiver housed in one permanently sealed package.
- Compatible with free WAAS and EGNOS correction signals.
- 5 Hz position update rate makes this receiver fully compatible with manual and automatic lightbar guidance systems.
- Pre-configured for plug-and-play compatibility with TeeJet guidance systems.



RX 370p

- New design incorporates antenna and receiver in one permanently sealed package.
- Compatible with free WAAS and EGNOS correction signals.
- Produces a radar-like speed signal output compatible with many control and monitor systems.
- Cruise technology maintains accuracy during brief correction signal outages.
- Up to 10 Hz position update rate makes this receiver fully compatible with manual and automatic lightbar guidance systems.
- Pre-configured for plug-and-play compatibility with TeeJet guidance systems.
- CAN NMEA 2000 output.



RX 500

- Sub-meter performance with free WAAS or EGNOS corrections.
- Decimeter (2"-4" pass-to-pass) accuracy with Omnistar HP or XP subscription.
- Precision antenna mounted remotely from receiver unit.
- Five Hz update rate standard. User-configurable for up to 20 Hz update rate. (Upgrade fee may apply).
- Three serial RS232 ports and one USB I/O port.



How to Order

PART NUMBER	DESCRIPTION	(WAAS/EGNOS) (SUB-METER)	OMNISTAR VBS (SUB-METER)	BEACON (SUB-METER)	OMNISTAR HP/XP (DECIMETER)	E-DIF (METER +)
78-50150	RX340p	Yes				
78-50148	RX370p Standard WAAS	Yes				Yes
78-50152	RX370p Autonomous					
78-50153	RX370p EGNOS 120,126	Yes				
78-50154	RX370p e-Dif					Yes
78-50062	RX400p	Yes	Yes	Yes		Yes
78-50151	RX500	Yes	Yes		Yes	



Enjoy a new generation of flexibility and power with the TeeJet 854 Sprayer Control. This innovative new product combines the simple operation and programming of the proven TeeJet line with features not available until now in spray control systems.

TeeJet 854 Sprayer Control delivers features you need

- Rugged construction, sealed switches and non-volatile memory mean dependability that will not let you down.
- Single-connection wiring system provides durability that is clutter-free.
- Front panel has clear instructions for easy operation.
- Saves summary reports on up to 10 jobs.
- Auto-Master can be set to automatically switch boom sections on and off at predetermined speeds.
- Auto tank fill allows the console to control tank-filling operations.
- Dual boom capability means wider ranges of speed and application rate.
- Smart Sensing automatically selects between pressure or flow sensors, choosing the best sensor for that application.
- Communications port for printer, PC, and GPS connections.

How to Order

PART NUMBER	DESCRIPTION
75-50001	854 Console
90-02108	854 Core Kit (console, mounting brackets, 26'/8.2m harness, user guide)
90-02250	854 Core Kit with short (16'/5m) main harness
90-50226	854 Core Kit, no cables
90-02236	854 Core Kit with Portuguese user guide
90-02237	854 Core Kit with Portuguese user guide, no cables



TeeJet® 844 Series Sprayer Controls



The TeeJet 844 Sprayer Control offers spraying advantages not found in other controllers. Designed with simplicity in mind, computer-controlled spraying has never been so easy. Simply set your target application rate and the unique VisiFlo

display on the 844 helps select the right TeeJet tip for the application. Once spraying begins, the large display shows application rate, volume sprayed, system pressure, sprayer speed, and area covered.

The built-in planning tool on the 844 automatically displays the speed needed to achieve the target rate with the specified tip. It will also calculate the pressure necessary for achieving the target application rate when the speed is entered.

The 844 is available in a complete package with the valves, cables and sensors needed to put together a total sprayer control system, or as an individual controller.

Features:

- Full-featured sprayer control with industry-leading ease of use.
- Large backlit display shows all spraying information at a glance.
- Color-coded tip selection for easy programming.
- Communication port for PC and GPS interfacing.
- Flow- or pressure-based regulation options provide reliability and flexibility.
- Five boom section switches plus master shutoff.
- Durable, weather-resistant aluminum housing.
- Single cable connection for quick hookup.



How to Order

PART NUMBER	DESCRIPTION
90-02251	844E-5 Core Kit with 16'/5m main harness
90-50143	844E-5 Core Kit without cables

The TeeJet 844-AB is designed exclusively for orchard spraying and is available with a conventional wiring system or junction box to customize features.

Features:

- Convenient operation. Individual boom control switches allow the operator to accurately manage spray application by changing spray patterns according to tree height.
- Greater accuracy. When a boom section is shut off, the system can automatically maintain system pressure. This prevents over-application when spraying sections of smaller trees.
- Improves efficiency. Individual boom controls allow you to shut off boom sections from the tractor seat. Time will no longer be wasted getting on and off the tractor to shut off valves.
- On-the-go swath width adjustment allows operator to go from one orchard to another without reprogramming.
- Automatic control is fast and stable.
- Built-in planning tool helps match application rate, tip capacity, and pressure.
- Large backlit display shows all spraying information at a glance.
- Control up to four boom sections plus master shutoff.
- Flow- or pressure-based regulation options provide reliability and flexibility.
- Single cable connection for quick hookup.



How to Order

PART NUMBER	DESCRIPTION
90-50018	Core Kit, 844-AB-4 (console with mounting brackets, cables and manual)
75-50007	Console only, 844-AB-4



TeeJet® 834 Sprayer Control

The TeeJet 834 is a convenient and fully automatic sprayer control. Designed to be easy to use and reliable, the 834 control system is ideal for applicators who want the precision of computerized rate control without the complexity of more sophisticated systems.

Features:

- Compact size for convenience and easy mounting.
- Rugged aluminum construction symbolizes quality construction and reliability.
- Simple programming with only five values needed.
- Operating tips on the front panel make it convenient to recall programming steps.
- Manual mode is available for special application needs.



How to Order

PART NUMBER	DESCRIPTION
90-50014	Core Kit, 5-switch console (pressure based, US units), cables, brackets and pressure sensor
90-50015	Core Kit, 5-switch console (pressure based, metric units), cables, brackets and pressure sensor

Note: Above kits do not include speed sensors, regulating valves or shutoff valves. See Sensor, Regulating Valve and Shutoff Valve sections of this catalog for sensor and valve options to fit your system.

TeeJet® 834-P Sprayer Control

The 834-P is specially designed for use on smaller sprayers with 12-volt electrical product pumps. Rather than controlling a regulating valve, as most spray controllers do, the 834-P simply controls the pump RPM to change the application rate. Built around the easy-to-use 834 controller, the 834-P will give you accurate control with minimal up-front set-up time. Simple plumbing and setup make this an ideal control system for ATV sprayers and other compact mobile sprayers.

Features:

- Simple programming and setup.
- Pressure sensor-based control means easy installation.
- Clear display shows application rate, system pressure and speed.
- 25-amp capacity for use with larger pumps.



How to Order

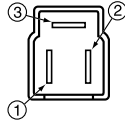
PART NUMBER	DESCRIPTION
90-50225	Core Kit (includes console, mounting brackets, cables, booster module, pressure sensor, proximity speed sensor and manual)
75-50048	Console only



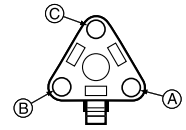
CONSOLE CONNECTOR		
Pin No.	Wire Color	Signal Name
B	White	Section 1
C	Brown	Section 2
D	Green	Section 3
E	Yellow	Section 4
F	Gray	Section 5
R	White	Flow Signal
S	White	Pressure Signal
T	White	Speed Signal
V	Brown	Power Out
a	White	Regulating Valve (+)
b	Brown	Regulating Valve (+)
c	Blue	+ 12 VDC
d	Blue	Pink
e	Red	Black
		Ground Free End (Valves)
		+ 12 VDC Free End



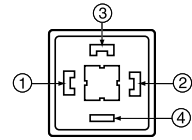
POWER CONNECTOR		
Pin No.	Wire Color	Signal Name
1	Brown	+ 12 VDC
2	N/C	-----
3	Blue	Ground



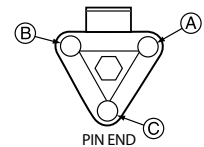
SPEED SENSOR CONNECTOR		
Pin No.	Wire Color	Signal Name
A	Brown	Power Out
B	White	Speed Signal
C	Green	Ground



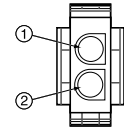
PRESSURE SENSOR CONNECTOR		
Pin No.	Wire Color	Signal Name
1	Brown	Power Out
2	White	Pressure Signal
3	N/C	-----
4	N/C	-----



FLOW SENSOR CONNECTOR		
Pin No.	Wire Color	Signal Name
A	Brown	Power Out
B	White	Flow Signal
C	Green	Sensor Ground



REGULATOR CONNECTOR	
Pin No.	Wire Color
1	White
2	Brown



How to Order

PART NUMBER	DESCRIPTION
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Cables for 854 Console:

45-05210	Direct Cable for 854, 26' (8m) 5 Section
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Cables for 834, 844 Consoles:

45-20065	Direct Cable, 26' (8m), 5 Section
45-20066	Direct Cable, 14' (4.2m), 5 Section
45-20000	Junction Blox Cable, No Power Connection, 21' (6.4m) Valve Cables, 5 Section, with DIN Connectors
45-20072	Junction Box Cable, 6' (1.8m) Valve Cables, 5 Section, with DIN Connectors
78-05043	Direct Cable, for 10' (3m), 10 Section
45-10046	Direct Cable, 10' (3m), 17' (5.2m) Speed Lead, 5 Section

Extension Cables for 834, 844, 854 Consoles:

45-20239	SprayLink Ext. w/Power and Speed Leads, 10' (3m), 5 Section
45-20243	SprayLink Ext. w/Power (Ring Terminals), 15' (4.6m), 5 Section
45-10050	SprayLink Ext. w/Power (Ring Terminals), 10' (3m), 10 section
45-20237	SprayLink Ext. 10' (3m), 5 or 10 Section
45-20240	SprayLink Ext. 13' (4m), 5 or 10 Section
45-20242	SprayLink Ext. 23' (7m), 5 or 10 Section
45-20238	SprayLink Ext. 33' (10m), 5 or 10 Section

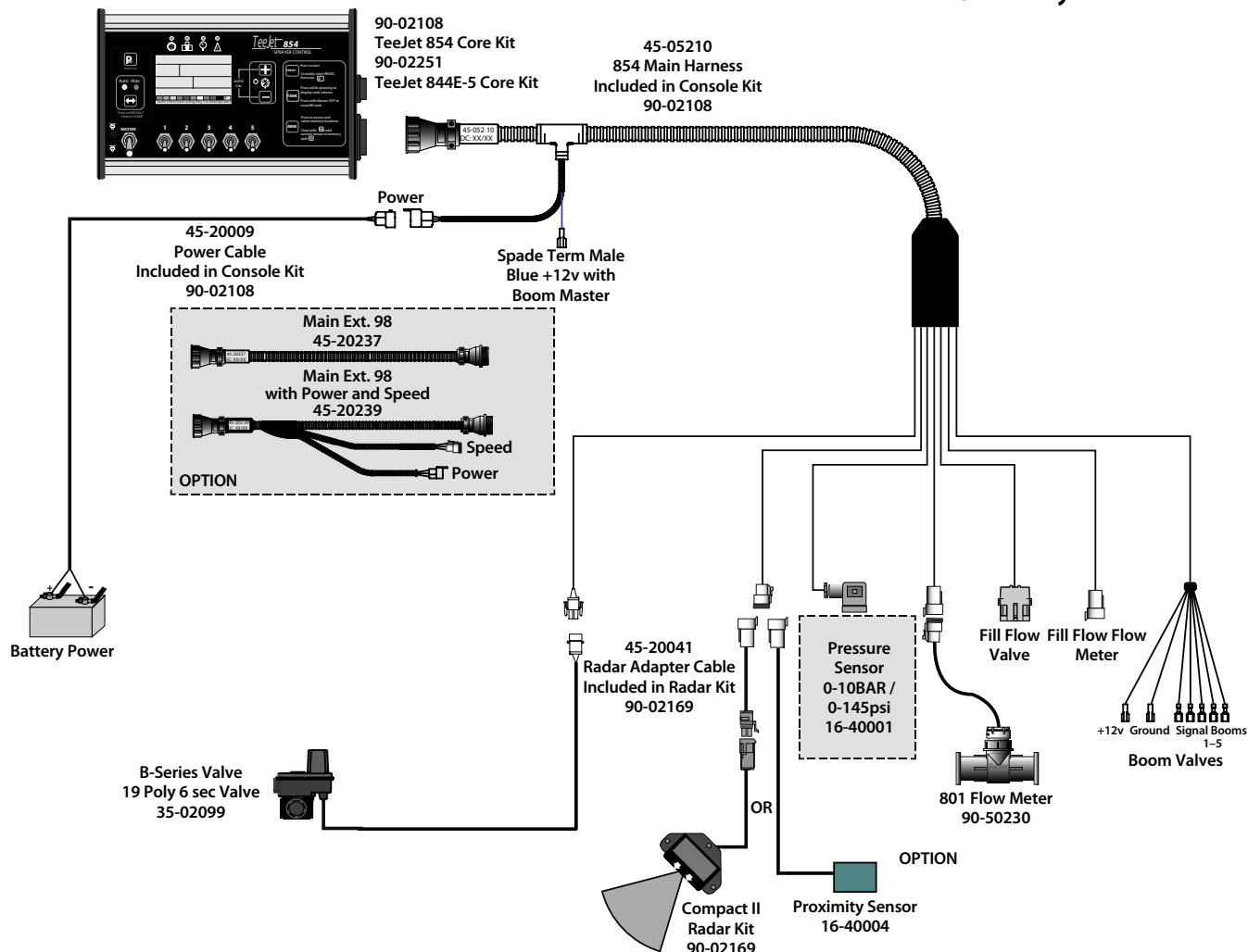
PART NUMBER	DESCRIPTION
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General Purpose Cables for all TeeJet Consoles:

45-20009	Power Cable, 12 Feet (3.7m)
45-20017	Wheel Speed Extension Cable, 15 Feet (4.6m)
45-20084	"Y" Adapter Cable—DICKEY-john Cable Splitter
45-20025	"Y" Adapter Cable—DICKEY-john or Magnavox (John Deere Tractor)
45-20026	"Y" Adapter Cable—DICKEY-john (CASE/IH)
45-20027	"Y" Adapter Cable—DICKEY-john or Magnavox (JD7000/8000)
45-20028	"Y" Adapter Cable—DICKEY-john (Cat 65C/75C)
45-20029	"Y" Adapter Cable—DICKEY-john (CAT 65/75)
45-20030	"Y" Adapter Cable—DICKEY-john (Ford/White)
45-20031	"Y" Adapter Cable—DICKEY-john (Ford Genesis)
45-20040	Radar Adapter Cable (Magnavox), 12 Inches (0.3m)
45-20041	Radar Adapter Cable (Magnavox), 15 Feet (4.6m)
45-20042	Radar Adapter Cable (DICKEY-john), 12 Inches (0.3m)
45-20043	Radar Adapter Cable (Raven), 12 Inches (0.3m)
45-20044	Adapter Cable (Micro-Trak/Trak Star), 15 Feet (4.6 m)
45-20032	Convenience Power Cable for John Deere, 6 Feet (1.8m)
45-20033	Convenience Power Cable for Case/IH, 6 Feet (1.8m)



TeeJet 854/844E System Guide

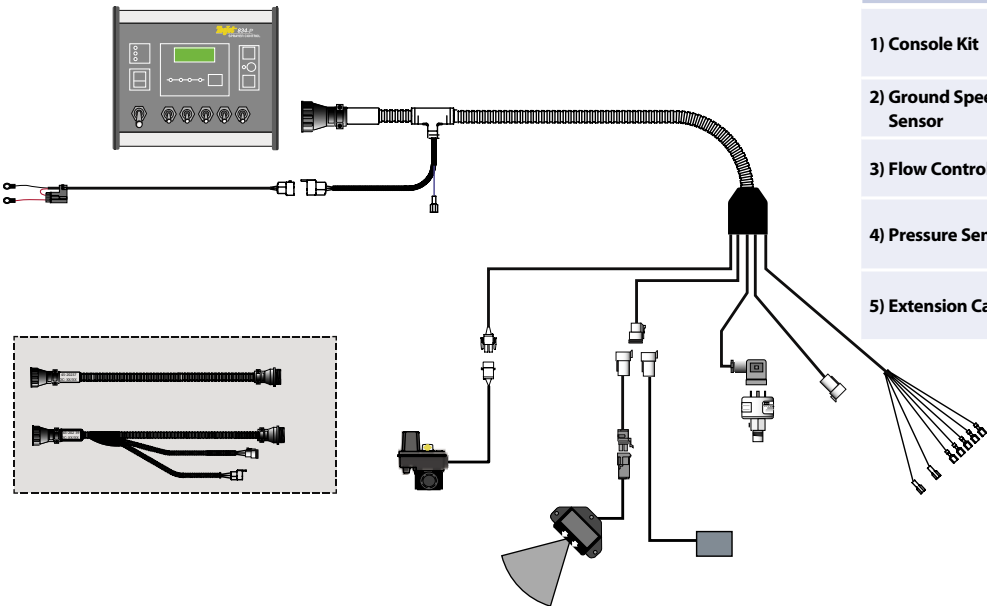


854/844E Series System Checklist

	PART NUMBER	DESCRIPTION
1) Core Kit	90-02108 90-02251	854 Controller 5-Switch Core Kit 844E-5 Controller Core Kit
2) Ground Speed Sensor and/or Cable (See Page 164)	16-40004	Proximity Speed Sensor
3) Flow Meter (See Pages 162–163)	90-50232	801-PP Flow Meter, Hose Barbs with 1" Hose Barbs, 2.5–60 GPM
4) Flow Control/Regulating Valve (See Page 167)	35-02099	Regulating Ball Valve, 1" NPT
5) Pressure Sensor (Optional for 854 Only—See Page 164)	16-40001	Pressure Transducer 0–145 PSI
6) Extension Cables (See Page 129)	45-20239	10" Extension Cable



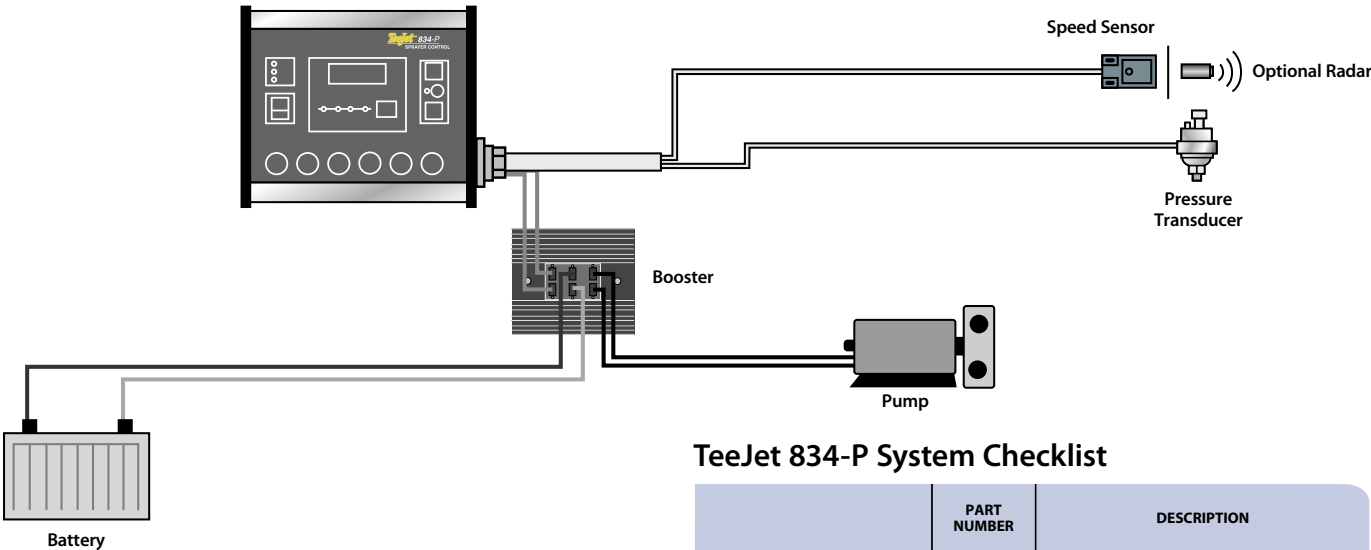
TeeJet 834 System Guide



TeeJet 834 System Checklist

	PART NUMBER	DESCRIPTION
1) Console Kit	90-50014 90-50015	US 834 Core Kit Metric 834 Core Kit
2) Ground Speed Sensor	16-40004	Proximity Speed Sensor
3) Flow Control Valve	35-02099	6-Second Regulating Valve
4) Pressure Sensor	16-40001	145 PSI/10 Bar Pressure Sensor – ¼" NPT
5) Extension Cables	45-20237	9' (3m) Main Extension Cable

TeeJet 834-P System Diagram



TeeJet 834-P System Checklist

	PART NUMBER	DESCRIPTION
1) 834-P Kit	90-50225	Complete 834-P Kit
2) Console	75-50048	834-P Console
3) Ground Speed Sensor (included in 90-50225 kit)	16-40004	Proximity Speed Sensor
4) Pressure Sensor (included in 90-50225 kit)	16-40001	Pressure Sensor, 145 PSI/10 Bar , ¼" NPT
5) Booster Module (included in 90-50225 kit)	78-08012	Booster Module, 25 Amp
6) Cable Set (included in 90-50225 kit)	90-02109	Cables to Connect Console, Sensors, Battery and Booster



ARC and TASC Series Features:

- Large, backlit LCD display shows speed, application rate, total applied, working width, distance covered, field area and total area.
- Scan feature monitors and displays all functions.
- Error message system signals misapplication and identifies problem source.
- Ground Speed Override function can be set to match operating conditions.
- All TASC and ARC consoles carry CE certification.
- Non-volatile memory retains settings and data when disconnected from power.
- English and metric operating modes.
- Variable Rate-ready consoles can be connected to Mid-Tech® printers or Mid-Tech Data Link for variable-rate applications.
- Upgradable firmware.



TASC 6500



Data Link

MODEL	NUMBER OF PRODUCTS	LIQUID/DRY	VARIABLE RATE READY	INJECTION READY
ARC 6000	1	Both	No	No
TASC 6100	1	Both	Yes	No
TASC 6200	2	Both	Yes	No
TASC 6300	Carrier + 3 Injection	Liquid	Yes	Yes
TASC 6500	Dual-product + 3 Injection	Both	Yes	Yes
TASC 6600	Carrier + 6 Injection	Liquid	Yes	Yes

PART NUMBER	DESCRIPTION	NOTE	POWER
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CONSOLE KITS (CE VERSION)

90-02154	ARC 6000 Console Kit, liquid and dry programming	a	*
90-02160	TASC 6000 Console Kit	a	*
90-02157	TASC 6300 Console Kit	a	*
90-02158	TASC 6600 Console Kit	a	*
90-02155	TASC 6500 Console Kit	a	*
90-02159	TASC 6200 Console Kit	a	*
90-02156	TASC 6100 Console Kit	a	*

OPTIONS

401-0010	Console Power Cable, 18'		
401-0102	Console Power Cable Extension, 20'		
45-05013	Console Power Cable, 35'		
815-0009	ARC/TASC Console Mounting Bracket		
851-0010	Console Mounting Knob		

Data Link Module

Data Link modules enable serial communication from all TASC consoles.

- Use a Data Link to connect a TASC console to an external GPS-connected mapping processor to conduct variable rate applications.
- Connects to external device with standard DB-9 serial connector.
- Built-in LEDs confirm communication status.
- Data Link receives power from the console to which it is connected.
- ARC consoles are not compatible with external communications.

How to Order Data Link

PART NUMBER	DESCRIPTION
405-0069-96V	Data Link Module (original protocol)
78-05007	Data Link Module, TASC with 5.0 Software ('98 protocol)

a—Includes an 18' console power cable, mounting knobs, manual and mounting bracket.

*Requires a power lead.



TASC switchboxes are available to control many types of common boom section valves. These switchboxes connect to the valves directly and provide boom section status information to TASC consoles.



Boom Control

PART NUMBER	DESCRIPTION	NOTE
405-0036	5-Boom Section Boom Status Cable	
405-0038	9-Boom Section Boom Status Cable	

OPTIONS

405-0039	Ground Speed Override Switchbox	
405-0041	Ground Speed Override Switch, Panel Mount	
404-0050	Off/Auto/GSO Panel Mount Switch	

SWITCHBOX AND HARNESES FOR SOLENOID TYPE VALVES

405-0037	Switchbox, Master with 3 Boom Sections	i
402-0007	Solenoid Harness for 405-0037 above—25'	
405-0035	Switchbox, Master with 5 Boom Sections	i
402-0011	Solenoid Harness for 405-0035 above—18'	
405-0054	Switchbox, Master with 9 Boom Sections	j
404-0037	Solenoid Harness for 405-0054 above—25'	

OPTIONS

602-0013	3-Boom Solenoid Harness Extension Cable (for 405-0037)—12'	
402-0004	5-Boom Solenoid Harness Extension Cable (for 405-0035)—18'	

SWITCHBOX FOR MOTORIZED BALL VALVES

405-0053	Switchbox-Motorized Valves, Master with 3 Boom Sections	k, i
405-0034	Switchbox-Motorized Valves, Master with 5 Boom Sections	k, i
405-0065	Switchbox-Motorized Valves, Master with 9 Boom Sections	k, i

ADAPTER CABLES FOR MOTORIZED VALVE SWITCHBOXES

402-0023	Cable to Spraying Systems 344AE—15'	
402-0024	Cable to Spraying Systems 344AEC—15'	
404-0071	Cable to Wiring KZ#60 OR #60B Valves—15'	
402-0039	Valve Extension Cable—3'	m
402-0024	Valve Extension Cable—15'	m
402-0028	Valve Extension Cable—25'	m



i—GSO switch incorporated in box. Connections for Implement Status and Auxiliary Power provided.

j—GSO switch incorporated in box. Connectors for Auxiliary Power [no Implement Status].

k—Choose one Cable FOR EACH VALVE from the list following.

m—Extension Cables must be placed on the Switchbox side of any Adapter Cables used.



Granular Switchbox

Switchboxes

Single-boom or dual-boom switchboxes incorporate Off, Auto (On) and Ground Speed Override (GSO) functions into a single unit. Boom sense cables are available for vehicles with built-in control switches.

PART NUMBER	DESCRIPTION	NOTE
405-0075	Single-Conveyor Switchbox with Off/Auto/GSO	w
405-0098	Dual-Boom Switchbox with Off/Auto/GSO—to twin Mid-Tech® Connectors	w, x
404-0062	Switchbox with Off/Auto/GSO	y
404-0050	Off/Auto/GSO Panel-Mount Switch	y
105-0024	Air-Max Switchbox, Dry only (LH/RH Boom off)	z, w
105-0025	Air-Max Switchbox w/Wet Boom (LH/RH Boom off)	z, w
405-0036	Boom Status Cable	

w—Incorporates Boom Status Cable

x—Use 402-0040 or 402-0065 to adapt DICKEY-john 360 Slot Sensor to this box.

y—Use in conjunction with Boom Status Cable.

z—Requires special cables. Refer to the Air-Max system.

Application Rate Sensors

Rate sensors are used to measure the speed of the conveyor. Slotted disk sensors can be mounted on a conveyor drive, idler or jackshaft. Inductance type sensors can read from a sprocket or gear mounted on the conveyor drive or jackshaft.

PART NUMBER	DESCRIPTION	NOTE
16-05000	Gear Sensor	ff, dd
16-05004	Gear Sensor w/20' Cable	aa, dd
120-0009	360 Slot Application Rate Sensor w/10' Cable	cc
120-0042	Inductance Rate Sensor w/9' Cable	aa, dd
67-00004	1" Round Shaft Coupler for 120-0009	

aa—Requires a metal object (i.e., Sprocket Teeth) from which to read pulses. Contact Mid-Tech.

cc—Does not require an Adapter Cable when used with 404-0061 or 404-0047.

dd—Use with 405-0098 or with Standard Flow Control Cable 404-0022, or with 405-0074 and 405-0174 Power and Flow Control Harnesses.

ff—Requires 45-06114 or 45-05141 Cable.

Co-Application Components

PART NUMBER	DESCRIPTION	NOTE
105-0007	Chemical Flow Monitor, Alarm Console—4 Position	
405-0066	Hopper Level Interface Cable	
600-0056	12 VDC Motor Assembly w/Sensor	
120-0008	30 Slot Application Rate Sensor—12' Cable	ee
120-0008-P	60 Slot Application Rate Sensor—12' Cable	ee
120-0040	Proximity Sensor w/6' Cable, Amp Connector	mm
120-0043	Proximity Sensor w/9' Cable, Amp Connector	mm
105-0104	40 Amp Granular Bin Driver Module	
105-0105	10 Amp Granular Bin Driver Module	
602-0014	12' Signal Extension Cable	

ee—Use with 105-0104 Driver Module only.

mm—Use with 105-0105 Driver Module only.

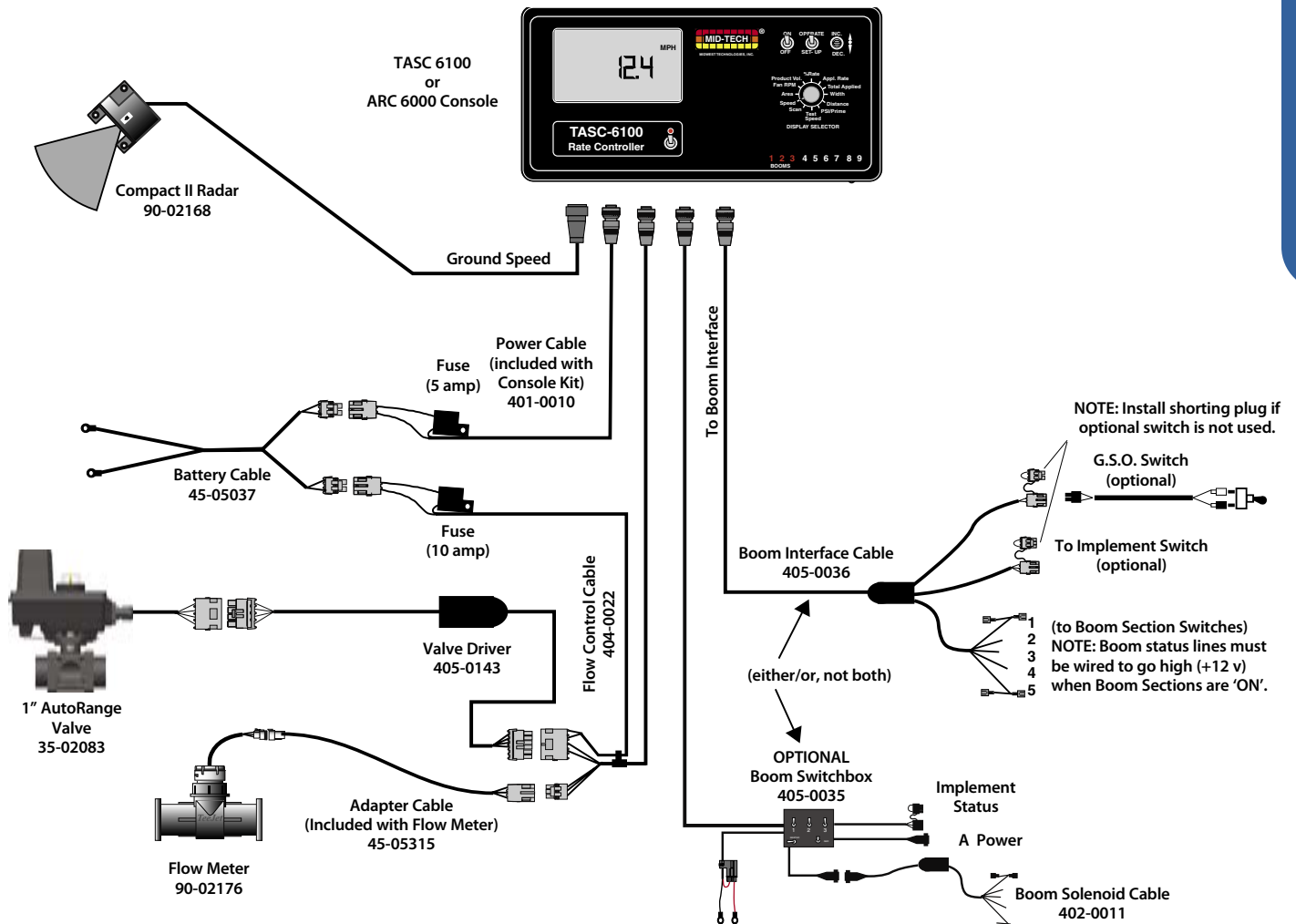
Hydraulic Motors

PART NUMBER	DESCRIPTION	NOTE
28-05004	Hydraulic Motor w/Sensor 300 RPM @ 10 GPM, 7.7 in ³ /rev. (Painted Black w/Mounting Hardware)	①
600-0060-P	Hydraulic Motor w/Sensor 500 RPM @ 10 GPM, 4.6 in ³ /rev.	①
600-0061-P	Hydraulic Motor w/Sensor 144 RPM @ 10 GPM, 15.9 in ³ /rev.	①

Options

28-10001	Seal Kit for 28-05004 Hydraulic Motor	
600-0090	Sensor for above Hydraulic Motors	

①—Manifold mount for EXR IV Hydraulic Control Valves.

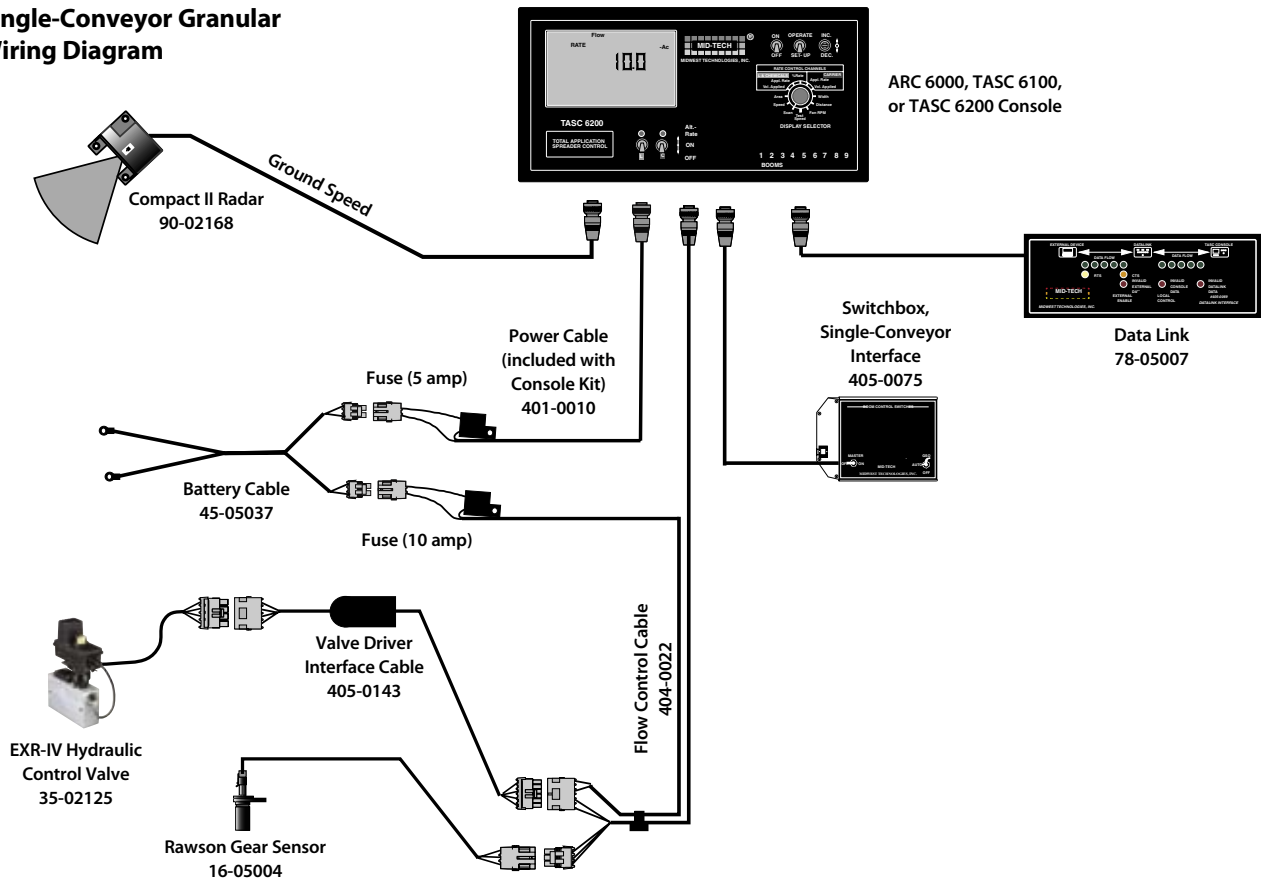


ARC/TASC System Checklist (Typical System, Single Channel Liquid)

	PART NUMBER	DESCRIPTION
1) Console (See Page 132)	90-02154	ARC 6000 Console Kit
2) Ground Speed Sensor (See Pages 164 and 165)	90-02168	Compact Radar
3) Flow Meter (See Pages 162 and 163)	90-02176	801 Flow Meter Kit with 1" Hose Barbs
4) Regulating Valve (See Page 167)	35-02083	1" AutoRange Valve
	405-0143	Valve Driver Interface
5) Flow Control and Power Cables (See Page 165)	404-0022	Flow Control Cable
	45-05037	Power Cable, 2 Lead
6) Switchbox and Harness (See Page 133)	405-0035	5-Boom Solenoid Valve Switchbox
	402-0011	5-Boom Solenoid Harness



TASC 6200 Single-Conveyor Granular Wiring Diagram



ARC/TASC Granular System Checklist (Typical System, Single Channel Granular)

	PART NUMBER	DESCRIPTION
1) Console Kit (See Page 132)	90-02159	TASC 6200 Console Kit
2) Ground Speed Sensor and/or Cable (See Pages 164–165)	90-02168	Compact II Radar
3) Rate Sensors (See Page 134)	16-05004	Gear Sensor
4) Hydraulic Control Valve (See Page 166)	35-02125	EXR Hydraulic Valve 20 GPM
	405-0143	Valve Driver
5) Flow Control and Power Cables (See Page 165)	404-0022	Flow Control Cable
	45-05037	Power Cable
6) Granular Switchbox and Cables (See Page 134)	405-0075	Single-Conveyor Switchbox (Interface)
Optional:		
7) Data Link Module (Required for Variable Rate Application, TASC Series Consoles Only —See Page 132)	78-05007	Data Link Module



AirMatic controller is the key to maintaining consistent droplet size

The AirMatic controller regulates air flow to the AirJet nozzles. It senses changes in the liquid pressure and adjusts air flow accordingly. This enables the system to maintain a consistent droplet size when ground speed and/or application rate changes.

With the AirMatic controller, regulating droplet size is virtually foolproof. The system gives information needed to manage changing conditions.

- **Five droplet size settings.** Choose among very fine, fine, medium, coarse or very coarse droplets. As conditions vary, droplet size can be instantly switched without leaving the sprayer cab or changing spray tips.
- **Alarm mode.** When the system detects a variation in liquid pressure beyond the set pressure-to-air relationship, a flashing message on the display alerts the operator to "Drive Slower" or "Drive Faster." Likewise, an "Increase RPM" message will flash if the air compressor is working too slowly.
- **Wind measurement.** An optional anemometer measures wind strength and advises the operator when it's too windy to spray.
- **RPM measurement** An optional RPM input measures air compressor speed for on-the-go monitoring of compressor performance.
- **Full compatibility.** The AirMatic controller can be used in combination with any TeeJet flow-based electronic controller.

*Not available in all countries.

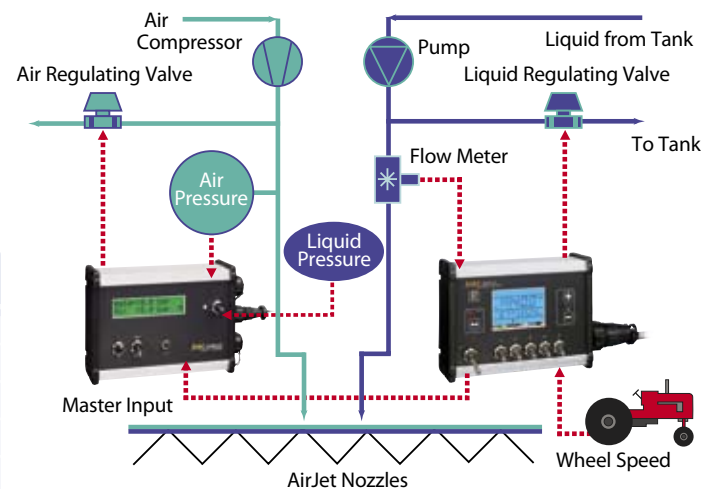
System Checklist

PART NUMBER	DESCRIPTION
65-50004	Console Mounting Bracket (2 Required)
75-50006	844-E-5 Console
75-30008	AirMatic Console
45-05409	AirMatic Main Cable
51-20010	Wind Speed Sensor
45-20240	Main Cable Extension, 4m
45-20055	Main Cable, 5m
45-20006	Battery Side Power Cable
45-20061	Spray Side Power Cable, 10m
78-10002	Junction Box
90-02177	801 Flow Meter with 1 Inch Hose Barbs
16-40015	Proximity Wheel Speed Sensor, 4m
45-20047	Pressure Sensor Cable, 6M (2 required)
16-40005	Pressure Sensor, 10 Bar/150 PSI
16-00011	Pressure Sensor, 2.5 Bar/36 PSI
57-10050	Flow Meter to Junction Box Cable, 4m
344BRL-2FS-03C60IC	Liquid Regulating Valve
455BEC-2F-C60IU	Liquid Boom Section Manifold
495BEC-C60IU	Air Boom Section Manifold
346BRB-2F-03C60IC	Air Regulating Valve
491BEC-C60IU	Air Relief Valve
49880A-#-NYB	AirJet Nozzles (1 for Each Nozzle Position on Sprayer)

Note: Air Compressor not available through TeeJet.



System Diagram



Interchangeable cores are inserted in the AirJet nozzle to control liquid flow rates.





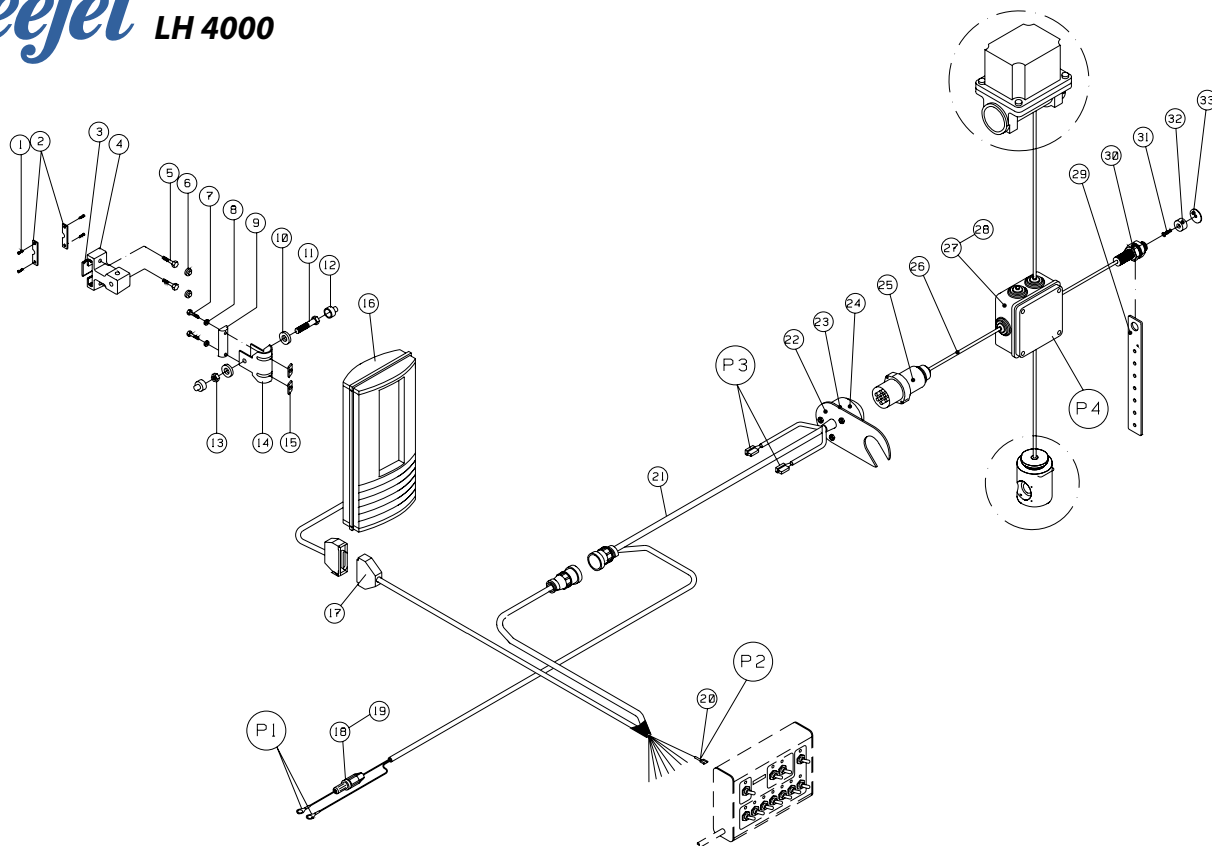
LH 4000 Spray Rate Controller

With its large display, the LH 4000 constantly shows forward speed, current application rate, and the status of each individual boom section. Other important information, such as area sprayed, volume sprayed, and flow rate can be selected. The flow rate can also be increased or decreased on the go using the step rate function. These features make the LH 4000 spray rate controller one of the easiest to operate and most accurate spray rate controllers available.

LH 4000 Features:

- Large, easy-to-read, backlit display allows the work to be carried out regardless of lighting conditions.
- Logical, easy-to-understand symbols and clear text make using the LH 4000 easy.
- A large number of functions for accurate spray rate control are readily available without having to leave the main operating menu, thus allowing the spraying job to be carried out without having to stop.
- Adding flow meter for the fill flow function provides the ability to accurately measure the amount filled into the tank. The function controls a fill valve to ensure that the correct amount is always filled into the sprayer tank.
- The task function allows for up to 35 individual counter sets to be stored containing useful information such as, amount sprayed and area covered, ensuring that data for the season or for the year can be retrieved for reports.





POS.	PART NUMBER	DESCRIPTION	POS.	PART NUMBER	DESCRIPTION
1	821-211	Screw 2.9 × 9.5	18	168-102	Fuse Holder
2	865-170	Cover	19	166-632	Fuse 5 x 20 4A
3	865-171	Cover	20	175-144	Terminal
4	880-140	Bracket	21	198-108	Cable #2 LH 4000 Trailer
5	827-630	Screw M6 × 30	22	842-521	Bracket
6	861-108	Nut Cap	23	861-600	Sealing
7	816-520	Screw M5 × 20	24	178-600	Plug, Female
8	830-005	Washer M5	25	178-601	Plug, Male
9	865-165	Bracket	26	197-007	Cable 7 × 0.75 (5m)
10	830-931	Washer M8	27	866-012	Plastic Box
11	811-845	Screw M8 × 45	28	900-158	PCB
12	861-110	Nut Cap	29	842-516	Bracket
13	858-800	Nut M8 with Snap	30	900-982	Sensor
14	843-175	Bracket	31	815-416	Screw M4 × 16
15	844-205	Acme Nut	32	775-803	Magnet
16	901-183	LH 4000 Monitor	33	830-420	Washer 4 × 20
17	198-109	Cable #1 LH 4000 Trailer			

LH 4000 System Checklist

	PART NUMBER	DESCRIPTION
1) Rate Controller	903-183 (See table at right for language part numbers)	LH 4000 Rate Controller
2) Trailer Fitting Kit	905-159	LH 4000 Trailer Fitting Kit
3) Flow Meter (See Pages 162–163)	902-986	LH 20 mm Flow Meter (20 to 250 L/min)
4) Flow Meter Hose Barb Connector Kit	932-986	1" Hose Barb Connector Kit for 20 mm Flow Meter

PART NUMBER	LANGUAGE
903-183	DK/S/UK
903-187	D/CZ/H
912-183	UK/E/P
914-183	D/CZ/PL
915-183	UK/D/F
923-183	F/D/I
933-183	F/NL/FL



85 Sprayer Control

The 85 Sprayer Control represents a new generation of design from TeeJet®. Designed from the original concept to be flexible and easily customized, the 85 can be configured to match the application.

Key 85 Features:

- Both CAN and direct-wiring solutions available
- Based on proven controller technology
- Easy-to-read graphical display
- Ergonomic housing can hinge to fit any location.
- Switch panel designed for easy customization.

Advanced Control Technology:

- Fast PWM regulation anticipates new set points for faster regulation.
- Choice between flow-based, pressure-based or automatic selection mode based on flow rate
- Auto master switches off booms at a programmable minimum speed.
- Cross-checking between flow and pressure readings to monitor system integrity

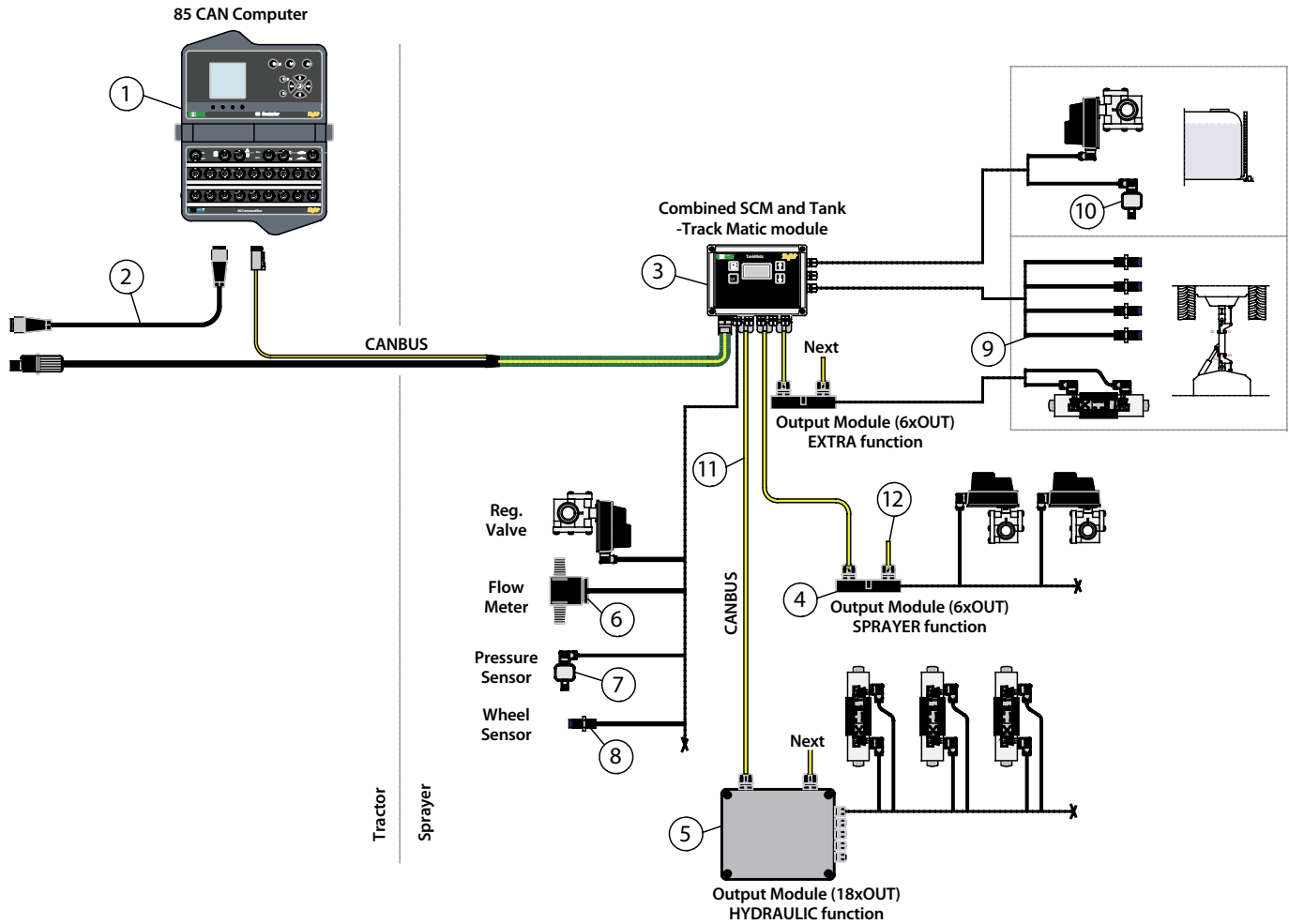
Advanced Job Function:

- Storing data for 16 individual tasks plus single and total application counters
- Information availability for the current task, season, and for the year. Counter values can be transferred to a computer.

PowerLink +:

- CAN based distributed implement control
- Easy and flexible system installation





POS.	PART NUMBER	SPARE PARTS
1	903-852	85 Series CAN Terminal
2	197-238	Adapter Cable
3a	910-155	Combined System Control and Tank-TracMatic Module
3b	910-170	Standard System Control Module
4a	901-442	Output Module 6xOUT (Transistor Type)
4b	901-440	Output Module 6xOUT (Relay Type)
5a	901-451	Output Module 18xOUT (HYDRAULIC)
5b	901-450	Output Module 12xOUT (SECTION)
6	*	Flow Meter
7	PSENS08	Pressure Sensor, 10 bar
8	570-112	Proximity Sensor
9	570-112	TracMatic Sensor
10	PSENS11	Pressure Sensor TankMatic
11	192-153	CAN Cable
12a	198-431	CAN Term. Terminal
12b	198-432	CAN Terminal Module

* Select Flow Meter and Connection from pages 162–163.



500 Slurry Controller

A brand new speed-compensated sludge and slurry application control system for slurry spread and injecting machines.

LH Agro introduced the first slurry control kit in 1993. The 500 console is part of the second generation of these systems.

Features:

- Non-contact electromagnetic flow meter to help control your liquid manure application.
- Data is collected from the flow sensor, a speed sensor and shaft speed sensors fitted at the pump and distributor.
- Electric signals from the computer to the tanker's oil-hydraulic valve block control the setting of the vehicle's bypass output valve on the discharge pipe.
- Even application! Tank level has no unfortunate influence on your precision.
- Easy to learn and use. Warnings are given if any performance irregularities occur.
- The pilot is only requested to enter the desired Tonne/Hectare rate via the computer's keypad.
- An increase/decrease percentage key allows the operator to change the rate temporarily.
- GPS-precision farming is compatible with the LH 500 console.
- Task function allowing for 10 different counter sets to be stored for review and for printing.

Contact your regional representative for more information.



How to Order

MID-TECH PART NUMBER	LH PART NUMBER	DESCRIPTION
90-02270	994-508-XX	LH 500 Slurry Control Kit Includes, 4" Flow Meter
90-02271	995-508-XX	LH 500 Slurry Control Kit Includes, 5" Flow Meter
90-02272	996-508-XX	LH 500 Slurry Control Kit Includes, 6" Flow Meter

Inductive Flow Meter

The LH magnetic inductive flow meter is very robust and reliable. A superb range of cost-effective magnetic inductive flow meters, developed for precise measurement of high-volume liquid flow in various mobile applications. The LH meter works with any electrically-conductive fluid such as slurry, water, suspensions, etc.

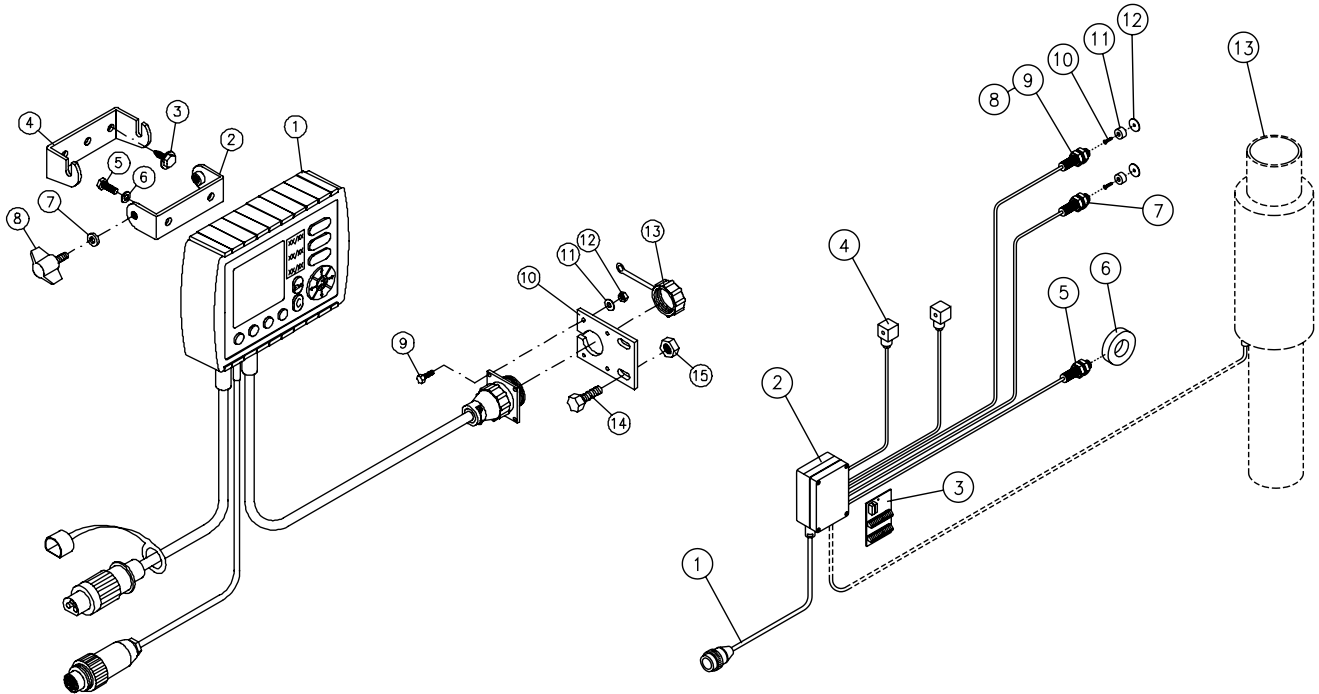
Features:

- Robust design.
- Non-corrosive material.
- Maintenance free.
- Competitive prices.
- Super performance.
- Can be mounted both vertically and horizontally.
- Available in 4", 5" and 6" versions.

Contact your regional representative for more information.



FLOW METER (MID-TECH PART NUMBER)	FLOW METER (EXCLUDES MOUNTING FLANGES) (LH PART NUMBER)	DESCRIPTION
57-00112	904-855	LH Flow Meter 4" (100 mm)
57-00113	902-954	LH Flow Meter 5" (140 mm)
57-00114	902-956	LH Flow Meter 6" (160 mm)



500 Slurry Computer

POS.	PART NUMBER (LH ONLY)	SPARE PARTS
1	903-508-XX	LH 500 Slurry Computer
2	844-044	Bracket
3	826-621	Screw 6' 3 x 19
4	844-045	Bracket
5	811-510	Screw M 5 x 10
6	831-510	Spring Washer, 6 mm
7	830-006	Washer, 5 mm
8	862-817	Thumb Screw
9	814-312	Screw M 3 x 12
10	842-526	Bracket
11	830-308	Washer, 3 mm
12	856-300	Nut M3
13	178-344	Cap
14	827-616	Screw M 6 x 16
15	856-600	Nut M6
16	020-508-xx	Operator's Manual
17	015-508-xx	Operator's Manual, Mini
18	010-500	LH 500 Standard Fitting Instructions

Slurry Mounting Kit for 500

POS.	PART NUMBER (LH ONLY)	SPARE PARTS
1	198-262	Machine Cable
2	910-299	Junction Box, Complete
3	900-164	Circuit Board
4	197-048	Cable for Magnetic Valve
5	900-983	3-Core Sensor (Pump)
6	906-200	Magnet Ring
7	901-982	2-Core Sensor
8	856-113	Nut for Sensor
9	901-983	3-Core Sensor (Distributor), 10 m
10	815-416	Screw M4x16
11	775-803	Magnet
12	830-420	Washer, 4 mm
*13	904-855	Flow Meter 4"
	902-954	Flow Meter 5"
	902-956	Flow Meter 6"
14	010-508	LH 500 Slurry Fitting Instructions



The System In Brief

Using optimized sensors developed with 25 years of grain loss experience, almost any combine harvester can be fitted with a grain loss system.

The sieve sensor measures the amount of grain lost from the sieves, thus indicating

that adjustments need to be made to the fan speed or the overall throughput of the machine. For example, the straw walker sensors measure the loss from the straw walkers (the bottleneck of combine throughput) and indicate that the straw walkers cannot keep up—so they SLOW DOWN.

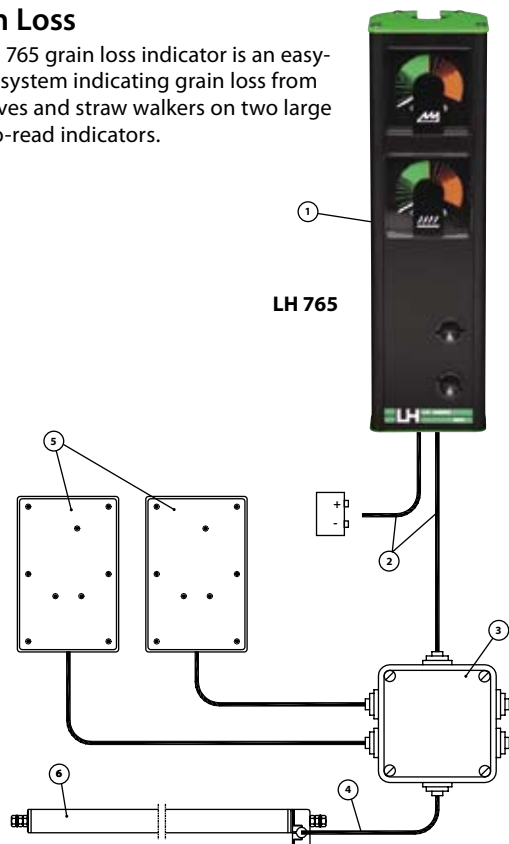
Combining the inputs (loss/no loss) from the sensors fitted at the sieves and the straw walkers can be utilized to increase combine harvester performance. The sensitivity for each sensor can easily be set to allow for different grain sizes.

How to Order

LH PART NUMBER	DESCRIPTION
990-765-XX	LH 765 Grain Loss Monitor Kit including all Sensors and Fittings
990-865-XX	LH 865 Combine Capacity Indicator Kit including all Sensors and Fittings

Grain Loss

The LH 765 grain loss indicator is an easy-to-use system indicating grain loss from the sieves and straw walkers on two large easy-to-read indicators.



POS.	LH PART NUMBER	SPARE PARTS
1	901-765	LH 765 Grain Loss Monitor with Bracket
2	903-765	Wiring for LH 765
3	906-012	Junction Box for LH 765 System
4	198-312	Cable for Sieve Sensor
5	908-012	Straw Walker Sensor: 2 pieces
6	927-021	Sieve Sensor

POS.	LH PART NUMBER	SPARE PARTS
1	908-865	LH 865 Grain Loss Monitor with Foot
2	906-865	Connection Box 1 for LH 865 System (includes PCB)
3	866-012 900-013	Connection Box 2 for LH 865 System Print for Connection Box 2
4	908-012	Straw Walker Sensor Set (2 Integration Sensors)
5	927-021	Sieve Sensor
6	905-865	LH 865 Main Cable
7	900-708	Sun Sensor
8	900-753	Power Supply Cable
9	900-982	Wheel Sensor
10	198-312	Cable for Sieve Sensor

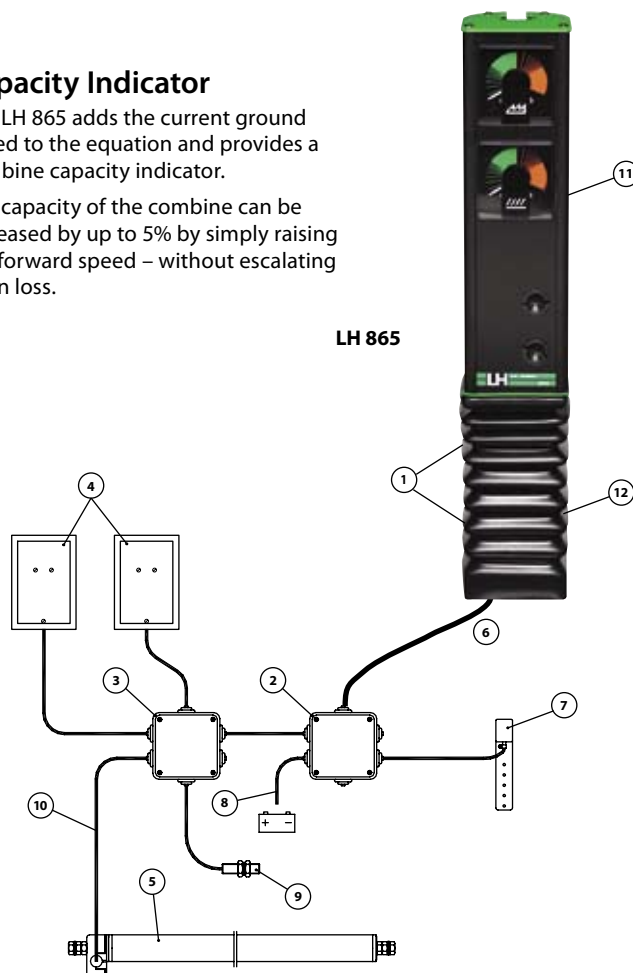
Can be purchased separately:

11	915-865	LH 865 Box (without Foot)
12	903-865	Foot for LH 865 Box

Capacity Indicator

The LH 865 adds the current ground speed to the equation and provides a combine capacity indicator.

The capacity of the combine can be increased by up to 5% by simply raising the forward speed – without escalating grain loss.



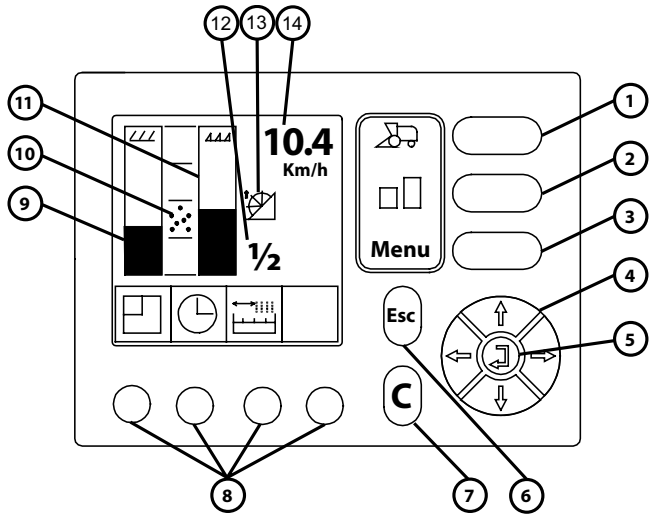
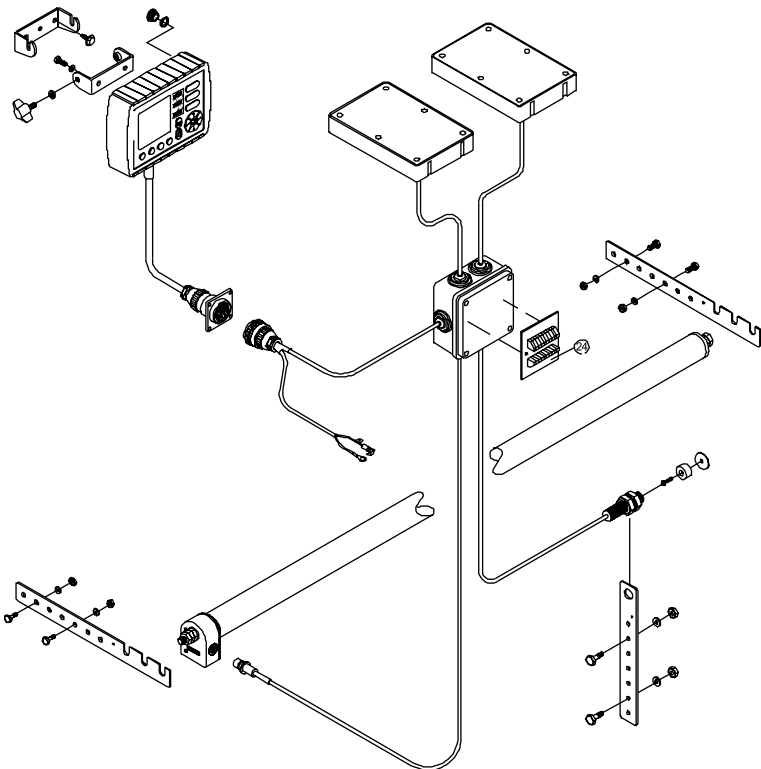


The Total Solution

Now—the culmination of 25 years of grain loss experience—we present the LH 500C.

With its simple user interface, the LH 500C Combine Monitor features:

- Walker grain loss.
- Feeder engaged/disengaged.
- Chopper engaged/disengaged.
- Grain tank full warning.
- Harvested area.
- Average combine capacity.
- Forward speed.
- Time functions.
- Straw blockage warning.
- Thresher drum speed.
- Grain elevator speed.
- Return elevator speed.
- Straw walker speed.
- Feeder speed.
- Reel speed.
- Sieve grain loss.
- Fan speed.
- Straw chopper speed.



How to Order

PART NUMBER	DESCRIPTION
990-510-XX	LH 500 Combine monitor for grain loss and speed

POS.	DESCRIPTION
1	Combine Info Key
2	Zoom Key
3	Menu Key
4	Arrow Keys
5	Enter Key
6	Escape Key
7	Clear Key
8	User Selectable Function Keys
9	Sieve Grain Loss Indicator Bar
10	Grain Tank Level Indicator
11	Walker Grain Loss Indicator Bar
12	Reduced Working Width Indicator
13	Header Raiser Indicator
14	Forward Speed



The Intelligent Tramline Controller

The intelligent tramline controller makes advanced tramlining easy. It features possibly the most comprehensive set of tramline rhythms available.

The fully graphic LCD-display can be “customized”, within limits, to show the information the operator wants to see.

Operation and programming are easy using the logical keypad.

Features:

- Advanced tramline control*.
- Screen shows the previous, actual and next round.
- Forward speed.
- Area worked.
- Work time.
- Hopper content *(kg).
- Hopper low level alarm*.
- Seed rate* (kg/ha).
- Distance travelled.
- Fan RPM* (pneumatic drills).
- Job memory facility.

*Depends on the available sensors.

Visible and audible warnings are given in the event of machine performance malfunctions.



How to Order:

PART NUMBER	DESCRIPTION
903-505-XX	LH IntelliTram Excluding Seed Drill Fitting Kit and Shutoff Mechanisms
910-282	LH IntelliTram Seed Drill Fitting Kit Excluding Shutoff Mechanism

OPTIONAL SHUTOFF

903-152	Set of 2 Clutches for 17 mm Hexagonal Drill Shaft
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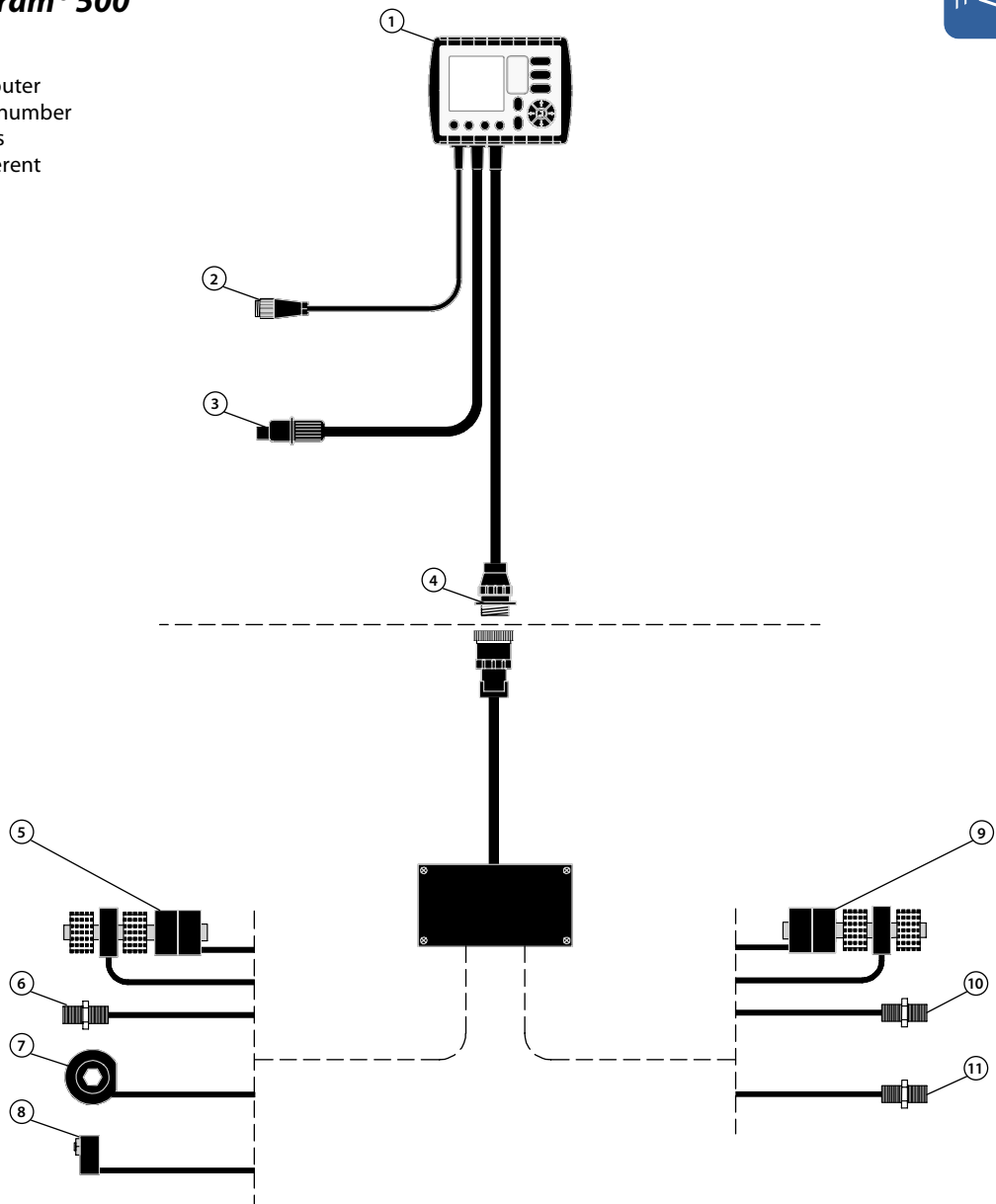
OPTIONAL EXTRAS

905-152	Drill Shaft Sensor (for metering seed rate) 17 mm Hexagonal Drill Shaft
904-151	Hopper Level S ensor





The LH IntelliTram 500 tramline computer has been developed to be used on a number of different seed drills. Due to this it is possible to connect a number of different sensors and actuator types.



	PART NUMBER	DESCRIPTION
1) Monitor	903-505-XX	LH IntelliTram Tramline Controller
2) Speed Drill Fitting Kit	910-282	IntelliTram Seed Drill Fitting Kit
3) Clutch Set	903-152	Set of 2 Clutches for 17 mm Hex. Drill Shaft
4) Speed Sensor	905-152	Seed Rate Sensor for 17 mm Hex. Drill Shaft

POS.	DESCRIPTION
1	Monitor
2	DIN/ISO Plug (DIN 9684-1, ISO 11786)
3	Power Plug (DIN 9680, ISO/TR 12369)
4	Implement Socket
5	Clutch, Left-hand Side
6	Implement Sensor, Left-hand Side
7	Drill Shaft Speed Sensor
8	Empty Hopper Sensor
9	Clutch, Right-hand Side
10	Implement Sensor, Right-hand Side
11	Wheel Sensor

The standard kit contains:

- 1 – Monitor
- 1 – Junction box
- 1 – Wheel sensor kit
- 2 – Implement sensor kits

Other sensors, clutches, etc. must be ordered separately.



70 Series Monitor

The 70 range of monitors and controllers will enable a full range of monitoring and control functions.

The compact enclosure is equipped with four buttons and a clear dot-matrix LCD display. It can be mounted in any position, and is designed to be rugged and dependable.

All 70 Series Kits Feature:

- Compact, rugged enclosure with clear LCD.
- Audible alarm.
- Simple menu-based operation and programming.
- Weatherproof electrical connectors for reliability.

Additional features of Monitor Kits with On/Off Outputs:

- Monitor one or two sensors.
- Flexible design for additional functionality: Pressure Monitor, Unit Counter, Electronic Level Gauge.

Additional features of Application Control Kits:

- PWM (Pulse Width Modulation) for regulation.
- Flexible design for additional functionality: Granular Applicator Control, De-Ice Sprayer Control, Constant Pressure Controller.

Monitor Kits

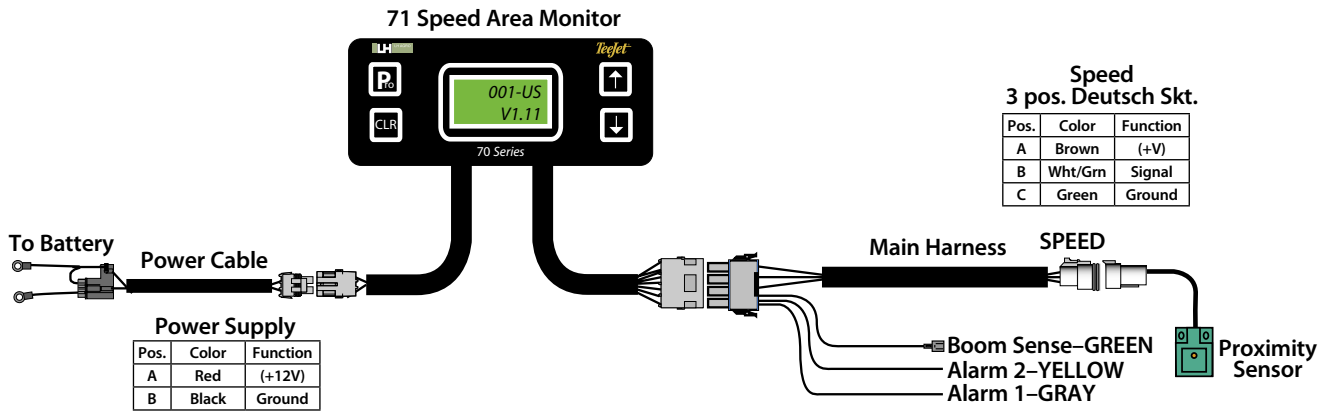
MID-TECH® KIT PART NO.	MID-TECH METRIC KIT PART NO.	LH KIT PART NO.	DESCRIPTION
90-02255	90-02320	990-070-XX	Speed, Area and Distance Monitor
90-02303	90-02326	990-080-XX	Flow Monitor – Total Volume and Flow Rate
90-02328	—	990-072-XX	Single RPM Monitor
90-02334	—	—	Dual RPM Monitor; Ideal for Twin-Spinner Granulator Applicators
—	—	990-071-XX	GPS-Based Speed, Area, and Distance
—	—	990-073-XX	Working Time and RPM Monitor
—	—	990-094-XX	TankMatic Tank Level Monitor

Monitor Kits with On/Off Control Outputs

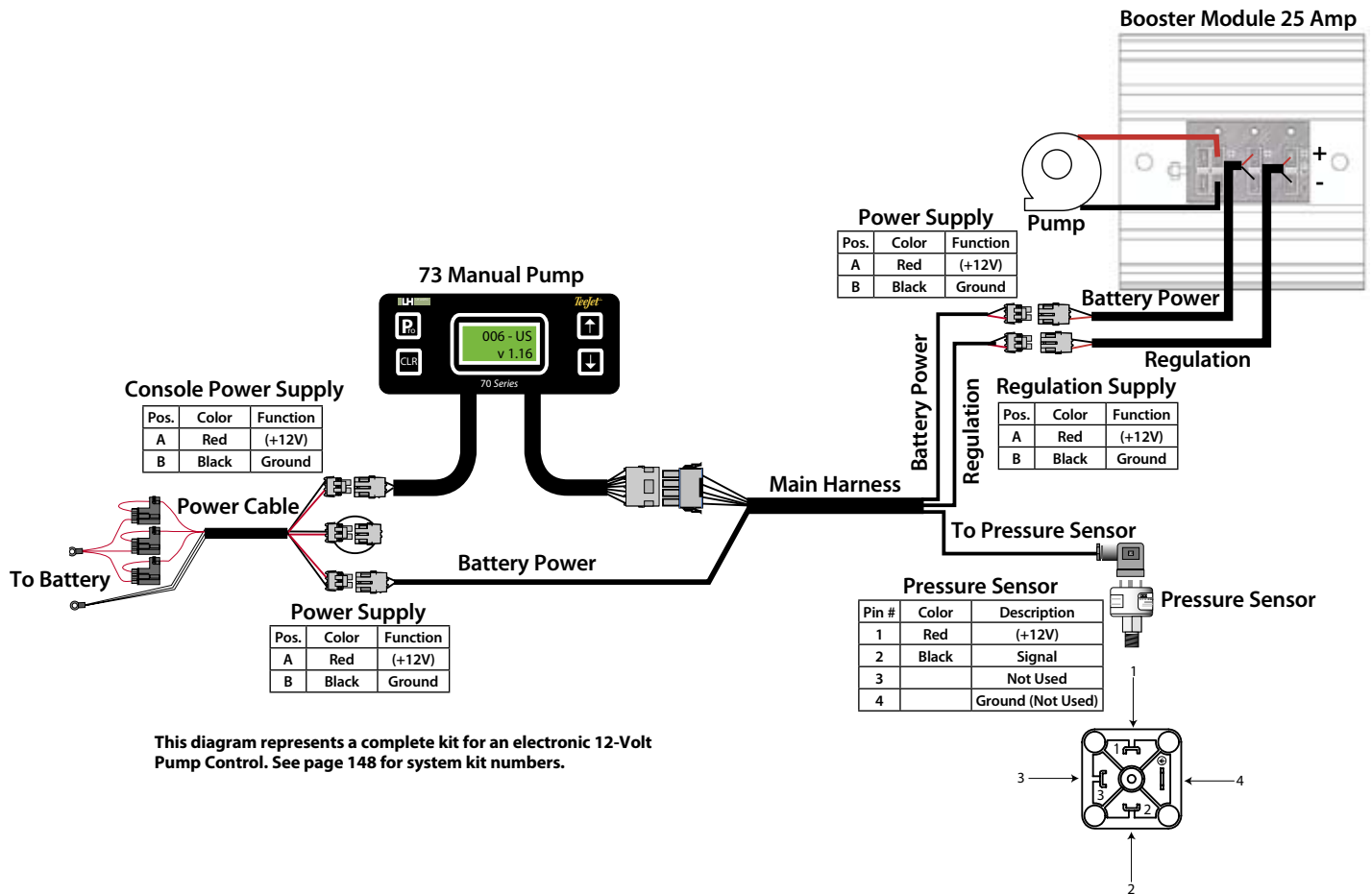
90-02302	90-02325	XX	Fill Flow Monitor Kit; 10D Flow Meter; 0.4 to 22 GPM (1.5 to 83.3 l/min); Automatic Valve Shutoff at Preset Volume
90-02259	90-02321	990-074-XX	Fill Flow Monitor Kit; 16D Flow Meter; 1.3 to 42 GPM (4.9 to 159 l/min); Automatic Valve Shutoff at Preset Volume
90-02260	90-02322	990-075-XX	Fill Flow Monitor Kit; 20D Flow Meter; 5.3 to 66 GPM (20 to 250 l/min); Automatic Valve Shutoff at Preset Volume
90-02301	90-02324	XX	Fill Flow Monitor Kit; 40D Flow Meter; 10.5 to 264 GPM (40 to 1000 l/min); Automatic Valve Shutoff at Preset Volume
90-02288	90-02323	XX	Fill Flow Monitor Kit; 80D Flow Meter; 2.5 to 60 GPM (9.5 to 227 l/min); Automatic Valve Shutoff at Preset Volume

Application Control Kits

90-02263	90-02327	990-078-XX	Electronic 12V Pump Control; Manual Pressure Control; Ideal for Application of Hay Preservative, Starter Fertilizer, etc.
—	—	990-076-XX	Pressure Control RPM Monitor Kit
—	—	990-077-XX	Pressure-based Sprayer Regulation Including Regulating Valve
—	—	990-079-XX	EPC Rate Controller
—	—	990-088-XX	Add Flow Application Kit (0.015 to 1.5 l/min)
—	—	990-089-XX	Add Flow Application Kit (0.030 to 3.0 l/min)
—	—	990-090-XX	Add Flow Application Kit (0.045 to 4.5 l/min)
—	—	990-091-XX	Add Flow Application Kit (0.060 to 6.0 l/min)



This diagram represents a complete kit for a speed, area, and distance monitor. See page 148 for system kit numbers.



This diagram represents a complete kit for an electronic 12-Volt Pump Control. See page 148 for system kit numbers.



744A Sprayer Control

- Manual spray controller in a compact package.
- Choice of dry or liquid-filled 100 PSI (7 bar), 150 PSI (10 bar) or 300 PSI (20 bar).
- Lighted pressure gauge for night use.
- Heavy-duty switches with LED indicators.
- Available in a variety of kit forms using solenoid or ball type control valves.
- DirectoValve® shutoff ball valves are ordered separately. See pages 65–85 for information on valves.

How to interpret Kit No.:

744A	— 100 —	L —	3
Controller Model	Gauge Scale	Gauge Type	Boom Sections
744	100 PSI (7 bar) or 300 PSI (20 bar)	L (Liquid)	



144P-3
Solenoid
Shutoff Valve



144A-3
Solenoid
Shutoff Valve



344BPR
Pressure
Regulating
Valve



244C
Pressure
Regulating
Butterfly Valve

MID-TECH® PART NUMBER (OLD SSCO NUMBER)	744A 3-SWITCH CONSOLE		HARNESS		BOOM VALVES			REGULATING VALVE	
	100 PSI GAUGE	300 PSI GAUGE	SOLENOID	BALL VALVE	NONE	144A-3	144P-3	244 BUTTERFLY	344-2RL BALL
KIT PART #	75-50033 (37203-100L-3)	75-50035 (37203-300L-3)	45-20090 (21725-8) 45-20091 (21720-8) 45-20100 (21478-2)	45-05385 45-10072 45-10080		35-50023 (AA144A-3)	35-50027 (AA144P-3)	35-50029 (21773-244C-3/4)	35-02087 (344BRL-24-01CCS)
90-50149 (744A-100L-3)	•		•		•				
90-50151 (744A-300L-3)		•		•	•				
90-50161 (AAK744A-100L-30S)	•		•		•			•	
90-50163 (AAK744A-100L-33S)	•		•			•		•	
90-50177 (AAK744A-100L-33P)	•		•				•	•	
90-50238 (AAK744A-100L-30B)	•			•	•				•
90-50237 (AAK744A-300L-30B)		•		•	•				•

Note: Other TeeJet B series regulating valves are Plug-N-Play compatible with all these kits if ordered with the "01CCS" connector option



Easy Integration, Total Compatibility and Non-Obsolescence are Core Components in Our Technology Strategy

TeeJet Continues to Lead the Way In Precision Farming Through Early Adoption and Implementation of International Standards

Growers and commercial applicators are quick to adopt new technology when the benefits justify the investment and increased profitability results. Advanced control and monitoring systems are now widely used with many implements to improve accuracy, efficiency and productivity. Most of these systems require a control or display to be mounted in the tractor cab. This can lead to a cluttered collection of cables, brackets and control consoles in the cab.

A new generation of implement control systems takes advantage of modern networking capabilities to improve functionality and value and reduce cab clutter. Our modular approach to precision farming allows our systems to easily control multiple implements from a single console. We are committed to this design philosophy and are taking it one step further through ISOBUS standardization.

A Bit About ISOBUS

In 2001, farm machinery manufacturers agreed to implement standards to enable tractors, implements and farm management systems to use common communication interfaces. This will enable products from different manufacturers to easily communicate with one another and eliminate implement-specific control devices, terminals and displays. A single monitor in the cab will control all implements – round baler, sprayer, spreader, etc., – and communicate with the tractor and farm management system to facilitate documentation of all field activities.

Very specific standards have been developed: ISO 11783, often referred to as ISOBUS. The standards are quite complex and industry-wide adoption is expected to take time. Europe is leading the way with many equipment manufacturers offering ISOBUS implement control and monitoring solutions. North America is moving forward as well, although at a slightly slower pace.

As a global leader in application technology and implement control, we are among the first to design our products to ISO 11783 standards to ensure easy integration and compatibility with other manufacturers' equipment now and in the future.

How You'll Benefit from ISOBUS Standardization

Our product development teams in Europe and North America are focused on ISOBUS standardization. At present, we offer in-cab consoles (also commonly referred to as virtual terminals), GPS speed sensors and implement control computers that are ISOBUS compatible. In the months and years ahead, our entire line of electronic products will be compliant as well.

Here's how you'll benefit from our commitment to ISOBUS:

- **Better value** – a single terminal for all operations means you won't have to purchase a control console for each implement.
- **Easier to use** – just one terminal to learn.

- **Easier to install** – “plug-and-play” becomes a reality through standardized plugs, cables and software.
- **More flexibility** – choose the product best suited to your needs without worrying about compatibility with other implements and equipment.
- **Better documentation** – all data collection is handled from a single point and easily transferred to your main computer.
- **Investment security** – the products you buy today will be usable well into the future.

To take advantage of these benefits, consider these options:

- When you purchase your next tractor or combine, make sure it is ISOBUS compatible or has an optional ISOBUS package.
- Purchase ISOBUS-compatible implements that come with an ISOBUS monitor.
- Buy an ISOBUS monitor and use it with ISOBUS implements.
- It is possible to use ISOBUS-compatible implements on a non-ISOBUS tractor, but you don't gain the full system benefits.

See pages 152–153 for more information on our ISOBUS-compatible products.

Even though you may not be quite ready for ISOBUS, we are. TeeJet sprayer, spreader and implement controls are ready for the ISOBUS era.

Technological leadership: another important reason to depend on TeeJet for all your application solutions.

For more information about ISOBUS and ISO 11783 standards, see:

- <http://www.isobus.net/>
- VDMA Agricultural Machinery: <http://www.vdma.org/>
- Association of Equipment Manufacturers: <http://www.aem.org/>
- North American ISOBUS Implementation Task Force (NAITF): <http://www.aem.org/Technical/NAITF/>





LH 6000 ISOBUS Virtual Terminal

The LH6000 ISOBUS virtual terminal provides a standards-based user interface for any ISOBUS implement control. The ISOBUS standard calls for a universal user interface for multiple implement controls. The LH6000 is designed for compatibility with many TeeJet and third-party job computers. Its clear display, logical keypad layout and data card slot make the LH6000 a perfect choice for basic ISOBUS implement control.

For more information on ISO-11783 (ISOBUS), see page 151.

THE LH 6000 TERMINAL

External Dimensions:	200 x 112 x 94 mm
Display:	100 x 75 mm ■ 360 x 240 pixels QVGA ■ B/W, LED backlit
Temperature Range:	-10°C to 60°C
Power:	12 VDC Nominal (9V–16V) standard or 24 VDC Nominal (18V–32V)
Communication:	CAN 2.0b and 2 x RS232
Inputs/Outputs:	12 standard digital/analog inputs 4 ISO specified 6 x 3A outputs each with open drain switches to ground, 4 of which are with fast PWM 3A max. total output
Data Media:	ATA-Flash data card (32 MB max.)
Other Specifications:	Complies with ISO 11783 – EMC Approved Infineon C167, 20 MHz processor Removable ATA-Flash data card





LH IC24 Job Computer

The LH IC24 job computer is a universal ISOBUS compatible technology platform for present and future machine control demands. This “intelligence” unit is designed to work in conjunction with ISOBUS compatible terminals. Its robust, modular design gives machinery manufacturers advanced ISOBUS implement control in a proven, economical package.

LH IC34 Job Computer

The IC34 ISOBUS job computer is a complete ISOBUS implement control solution. The job computer connects directly to the ISOBUS and contains a complete collection of input and output capabilities. Further expandability is easily added through the proprietary Powerlink+ CAN expansion bus. Cost effective Powerlink+ input and output modules enable almost endless expansion and complete design flexibility. The IC34 is a cutting edge ISOBUS job computer that can easily be customized to meet design requirements.



	THE IC24 JOB COMPUTER	THE IC34 JOB COMPUTER
External Dimensions:	200 x 112 x 94 mm	260 x 180 x 90 mm
Temperature Range:	-20°C to 60°C	-10°C to 70°C
Power:	12 VDC Nominal (9V–16V) standard Approx. 2 W without inputs or outputs connected	12 VDC Nominal (8V–16V) standard
Communication:	CAN 2.0b and 2 x RS232	CAN 2.0b and minimum 1 RS232
Inputs/Outputs:	8 standard digital/analog inputs max. 1.5 KHz 8 x 3A outputs each with open drain switches to ground, 4 of which are with fast PWM 8 extra inputs or outputs (inputs as above, outputs max. 2A each) All outputs are overload protected. 20A max. total output	4 frequency inputs max. 3 KHz 4 feedback inputs, analog or digital, max. 1.5 KHz (optional) 1 analog pressure input 10Bit, 4 to 20mA Sensor power, max. 1A 2 H-Bridge outputs, min. 2.8A, PWM frequency max. 2 KHz 1 PowerLink+ bus, CAN1H, CAN1L, switched power and GND Optional: 3 PowerLink+ buses, CAN1H, CAN1L, switched power and GND All outputs are overload protected. 20A max. total output
Other Specifications:	Complies with ISO 11783 – EMC Approved Infineon C167, 20 MHz processor 1 MB RAM 1 MB Flash 8 of the standard inputs can be used as outputs. Externally programmable via RS232 Customized input specifications possible	Complies with ISO 11783 – EMC Approved Infineon XC167CI Processor, 40 MHz PIC16F876A Processor for bridge regulation (optional) 3 CAN controllers (2 internal and 1 external) Program Flash min. 1 MB Data Flash min. 1 MB RAM min. 1 MB Customized input specifications possible Externally programmable via RS232



APPLICATION CONTROL

The Industry's Most Advanced Application Control

Manage your fertilizer, pesticide and seed applications with the most advanced control system available. The Legacy 6000, coupled with the Dual Control Module (DCM), can be tasked with all types of product application, from single-product applications to multiple-product variable-rate applications. Up to six products can be applied simultaneously, each at a fixed application rate or based on a variable-rate prescription. And every application is recorded so you know what you applied and where it went.



Legacy 6000 as a Task Controller

Legacy 6000 can be connected to most popular application rate controls from many different manufacturers. This setup allows you to add the benefits of variable-rate applications and as-applied record keeping while taking advantage of an existing application control system. Connect the Legacy 6000 to your existing console with a serial cable and upgrade your capabilities immediately.



Automatic Boom Section Control

Take advantage of Swath Manager automatic boom section control. When connected to a GPS receiver, the Legacy 6000 maintains a record of where it has applied product within any particular job or field. Based on this information, the Legacy 6000 can automatically switch off boom, spreader or seeder sections when they enter a previously applied area. Swath Manager gives quick payback in reduced fertilizer and chemical usage.



Direct Injection

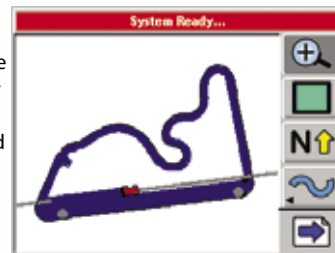
The ultimate in chemical application accuracy and convenience is possible with the Legacy 6000 system. Direct Injection stores concentrated chemicals in special tanks, and injects them into the carrier as required for the application. The solution is mixed on its way to the boom and applied as normal. Direct Injection means your carrier tank stays clean and chemical-free, and any unused chemical can be easily returned to its container for future use. Both peristaltic and piston injection pumps are available.



DATA AND MAPPING

Complete Real-Time Field Mapping

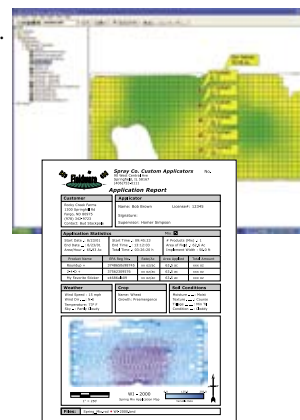
View your position in the field in real-time and record your work as it takes place. Map field boundaries and get instant area measurements. Boundaries can be saved



and used in future applications. Field features and hazards can also be mapped and saved for future reference. All application records made with a GPS receiver attached show the specific application rate of each product at each location in your field.

Application Reports

The data collected during your application can quickly and easily be converted to a printed application report. This report shows all application data, including weather and field conditions. The report even includes a map of your application.





GPS GUIDANCE

Assisted Steering

The proven benefits of automated steering include higher productivity, less operator fatigue, and fewer skips and overlaps. The Legacy 6000 provides a single interface to your automated steering system and your application control system. Automated steering operates in straight-line, curved and circle-pivot patterns.



FIELDPILOT

AUTOMATED STEERING WITH PRECISE PRODUCT CONTROL

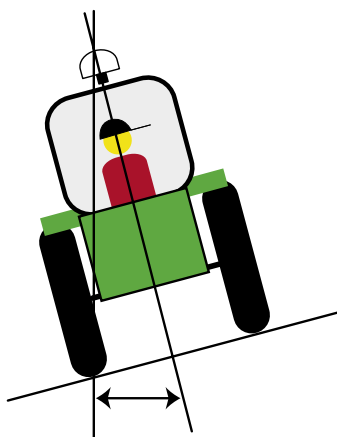
Lightbar Guidance

More features than any other lightbar guidance system. A bright, full-sized lightbar can be mounted inside or outside your cab and provides clear steering guides with its LEDs. The lightbar also provides a heads-up view to key application data while you're working – choose application rate, speed, pass number, off-track distance or other data.



Tilt Correction

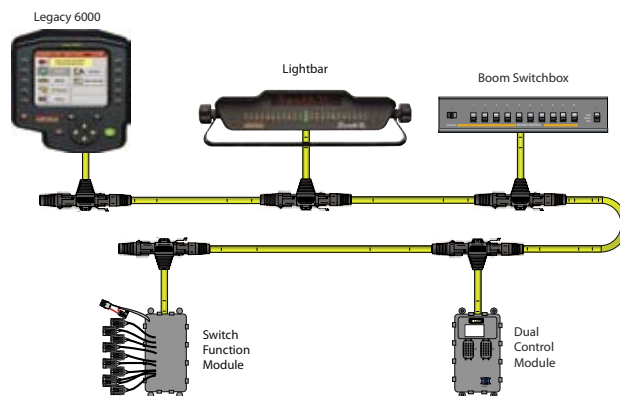
Improve accuracy by eliminating position errors caused by side-slope conditions. The Tilt Compensation Module intercepts GPS data and corrects it based on the vehicle's tilt angle. Operation on hills and in bumpy terrain is much more accurate.



VALUE

Future-Proof

The design of the Legacy 6000 system means as new features or capabilities are developed they can easily be added. The CAN-BUS architecture is extremely flexible and modular.



Convenience and Support

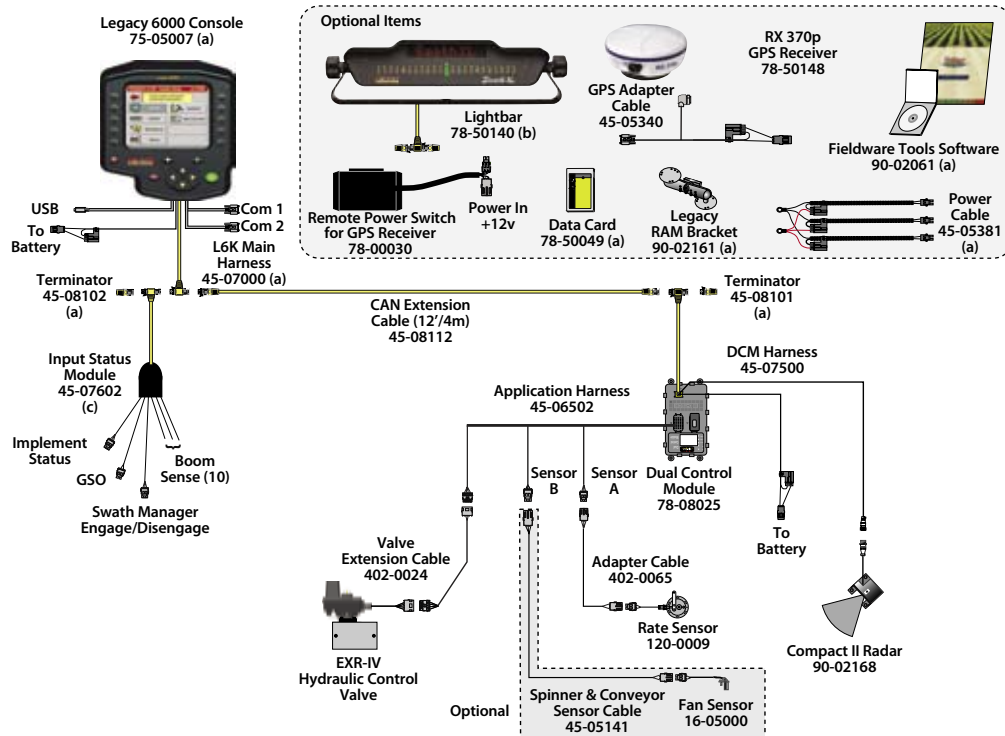
The best customer support in the industry stands behind every Legacy 6000. Our experienced and trained distributor network and expert factory support stand behind you all the way.



Cost/Benefit Ratio

The integrated design of the Legacy 6000 system means that as you add more capabilities to your system, its value in your operation increases.





Dual Control Module – DCM acts as the application control device in CAN control systems. Each DCM can control two separate products.

Switch Function Module – SFM controls boom sections either manually or automatically. Each SFM can control up to 10 boom sections

Boom Switchbox or Input Status Module (ISM) – These devices connect to the CAN-bus and allow the system to know when boom sections are turned on and off by the operator. The ISM connects to existing boom switches in a joystick or console, while the Boom Switchbox has its own boom switches. Both devices can be used with the Switch Function Module for manual or automatic boom section control.

Hydraulic Control Valve and Cables
See page 166 for hydraulic control valve details.

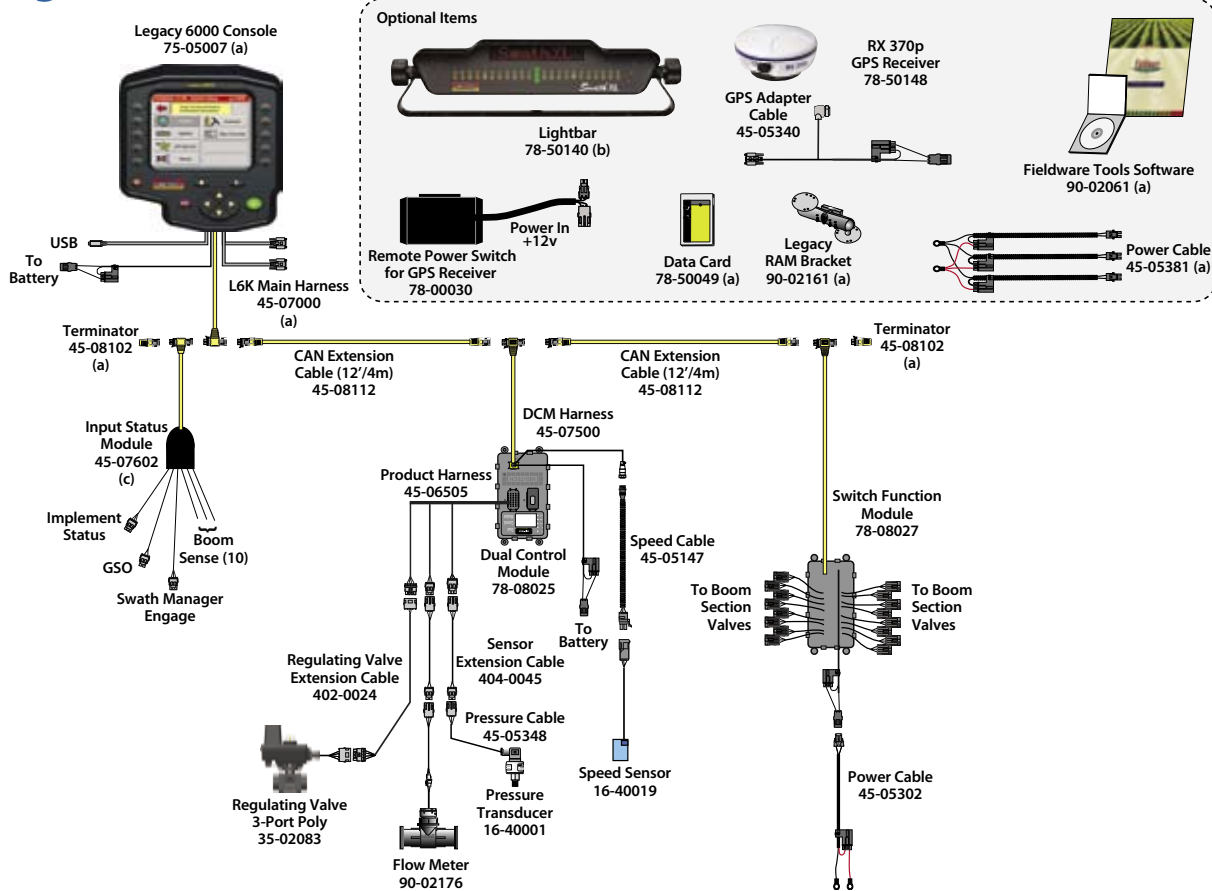
Application Rate Sensor and Cables
See page 134 for application rate sensor details.

Speed Sensor and Cables
See pages 164 and 165 for speed sensor details.

GPS Receivers and Cables
See page 125 for GPS receiver details.

Legacy 6000 CAN System Checklist—Basic Granular System

	PART NUMBER	DESCRIPTION
Console Kits	90-02366	Legacy 6000 Kit, Basic (contains parts identified in the system diagram with an (a))
	90-02367	Legacy 6000 Kit, Basic with Lightbar (contains parts identified in the system diagram with an (a) and (b))
	90-02368	Legacy 6000 Kit, Basic with Lightbar and ISM (contains parts identified in the system diagram with an (a), (b) and (c))
	99-01009	License for Multiple Product Variable Rate Applications (not required for non-VR Multiple Product, or for Single Product VR)
Boom Switchboxes and Input Status Modules	45-07602	ISM, 10 Boom
	78-30009	Boom Switchbox, Booms 1–5
	78-30004	Boom Switchbox, Booms 1–10
Switch Function Module	78-08027	SFM, Booms 1–10
	45-05302	SFM Power Cable with Metripack Connector (one required per SFM)
DCM and Power/Speed Harness	78-08025	DCM with Fieldware
	45-07500	DCM Harness with CAN, Power and Speed Connections (one required per DCM)
DCM Application Control Harnesses (one required per product)	45-06501	DCM Product Harness, Servo Valve + One Frequency Type Sensor Input
	45-06502	DCM Product Harness, Servo Valve + Two Frequency Type Sensor Inputs
CAN Extension Cables	45-08106	6' CAN Extension Cable
	45-08112	12' CAN Extension Cable
	45-08117	20' CAN Extension Cable
	45-08118	30' CAN Extension Cable
	401-0016	Battery Cable, 2', 1 Lead
Power Cables (Standard 2-Position Weatherpack)	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
	45-05162	30' Power Extension Cable, Fused
	90-02061	Fieldware Office Software CD and Manual



Legacy 6000 CAN System Checklist— Basic Liquid System

	PART NUMBER	DESCRIPTION
Console Kits	90-02366	Legacy 6000 Kit, Basic (contains parts identified in the system diagram with an (a))
	90-02367	Legacy 6000 Kit, Basic with Lightbar (contains parts identified in the system diagram with an (a) and (b))
	90-02368	Legacy 6000 Kit, Basic with Lightbar and ISM (contains parts identified in the system diagram with an (a), (b) and (c))
	99-01009	License for Multiple Product Variable Rate Applications (not required for non-VR Multiple Product, or for Single Product VR)
Boom Switchboxes and Input Status Modules	45-07602	ISM, 10 Boom
	45-07601	ISM, 29 Boom
	78-30009	Boom Switchbox, Booms 1–5
	78-30004	Boom Switchbox, Booms 1–10
Switch Function Module	78-30005	Boom Switchbox, Booms 11–20
	78-08027	SFM, Booms 1–10
	78-08035	SFM, Booms 11–20
	45-05302	SFM Power Cable (one required per SFM)
DCM and Power/Speed Harness	78-08025	DCM with Fieldware
	45-07500	DCM Harness with CAN, Power and Speed Connections (one required per DCM)

Regulating Valve and Cables See page 167 for regulating valve details.

Flow Meter and Cables See page 162 and 163 for flow meter details.

Speed Sensor and Cables See pages 164 and 165 for speed sensor details.

Legacy 6000 CAN System Checklist— Basic Liquid System CONTINUED

	PART NUMBER	DESCRIPTION
DCM Application Control Harnesses (one required per product)	45-06501	DCM Product Harness, Servo Valve + One Frequency Type Sensor Input (Sensor A)
	45-06502	DCM Product Harness, Servo Valve + Two Frequency Type Sensor Inputs (Sensor A/B)
	45-06505	DCM Product Harness, Servo Valve + One Frequency Type Sensor and One Analog Sensor Input (Sensor A/E)
CAN Extension Cables	45-08106	6' CAN Extension Cable
	45-08112	12' CAN Extension Cable
	45-08117	20' CAN Extension Cable
	45-08118	30' CAN Extension Cable
Power Cables (Standard 2-Position Weatherpack)	401-0016	Battery Cable, 2', 1 Lead
	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
	45-05162	30' Power Extension Cable, Fused
Fieldware Office Software	90-02061	Fieldware Office Software CD and Manual

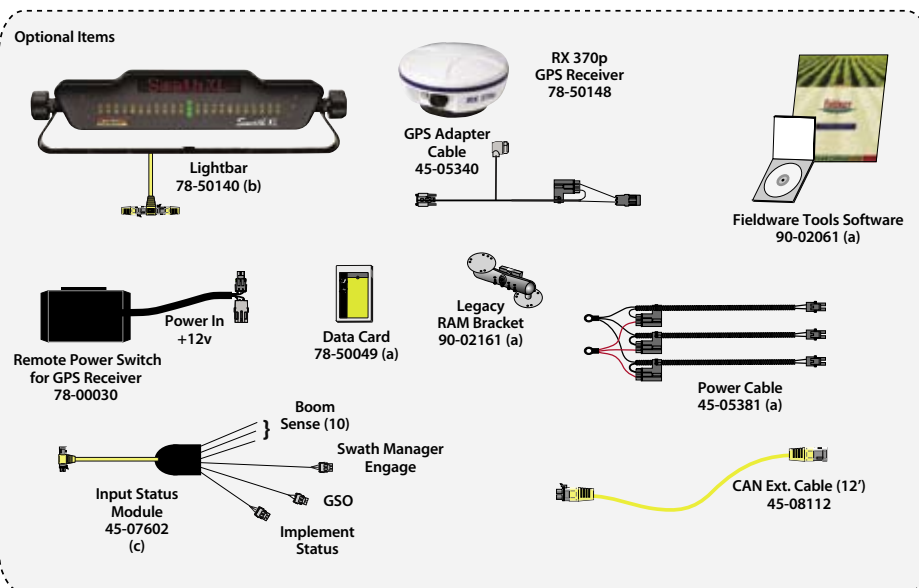
GPS Receivers See page 125 for GPS receiver details.

Pressure Sensor and Cables See page 164 for pressure sensor details.



TeeJet® Legacy® 6000 External Control (EXT) System

Legacy 6000 EXT with Fieldware



Legacy 6000 EXT System Checklist

	PART NUMBER	DESCRIPTION
Console Kits	90-02366	Legacy 6000 Kit, Basic (contains parts identified in the system diagram with an (a))
	90-02367	Legacy 6000 Kit, Basic with Lightbar (contains parts identified in the system diagram with an (a) and (b))
	90-02368	Legacy 6000 Kit, Basic with Lightbar and ISM (contains parts identified in the system diagram with an (a), (b) and (c))
	99-01009	License for Multiple Product Variable Rate Applications (not required for non-VR Multiple Product, or for Single Product VR)
CAN Extension Cables	45-08106	6' CAN Extension Cable
	45-08112	12' CAN Extension Cable
	45-08117	20' CAN Extension Cable
	45-08118	30' CAN Extension Cable
Power Cables (Standard 2-Position Weatherpack)	401-0016	Battery Cable, 2', 1 Lead
	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
	45-05162	30' Power Extension Cable, Fused
Controller Interfaces and Cables	78-05007	Datalink for Mid-Tech® TASC Controllers, V5.0
	45-20063	Communications Cable, Legacy 6000 to TeeJet 854
	45-05375	Communications Cable, Legacy 6000 to Raven Consoles and DICKEY-john Land Manager
Fieldware Office Software	90-02061	Fieldware Office Software CD and Manual



RMS CAN for Legacy 6000

RMS CAN for Legacy 6000 is a self-contained, multiple product control system with dedicated software specifically for roadside application of sprayed chemicals. One Legacy 6000 console provides the operator with the tool needed to control the entire spraying operation.

Features:

- Automatic rate control based on vehicle speed.
- Legacy 6000 controls up to 6 products at the same time.
- Direct chemical injection control is available.
- Real time display of application rates.
- Tell the Legacy 6000 the angle of the incline or decline that you are spraying, and it will adjust the flow rates automatically to account for the change in effective swath width.
- View background maps during a spraying session.
- Hand gun mode is available.
- Display and record vital spraying session data.
- Print spray session reports to meet customer or agency record-keeping requirements.
- View “on-screen” boom status of active and inactive boom sections.
- View “on-screen” product and boom spray activity while spraying.
- Legacy 6000 will warn you of pre-mapped hazards and areas that are not to be sprayed.
- Easy to understand “Soft Key” button symbols for simple operation of Legacy 6000.
- On-board “Help” screen.
- On-screen “message banner” for operational feedback information and warning messages.
- Map objects and add weather information during the spraying session.





RMS Office

RMS Office is the desktop software component of the RMS application system. RMS Office helps manage your application data and records, and provides full reporting capabilities of your spraying jobs. In this desktop application, profiles are created for individual companies, personnel, contractors, chemicals and chemical mixes and spray vehicle configurations. These profiles are then combined with the GPS-based application data to provide comprehensive, site-specific application records of your spraying activities. Protect your department from spraying-related liability issues by fully documenting each spraying session.

Features:

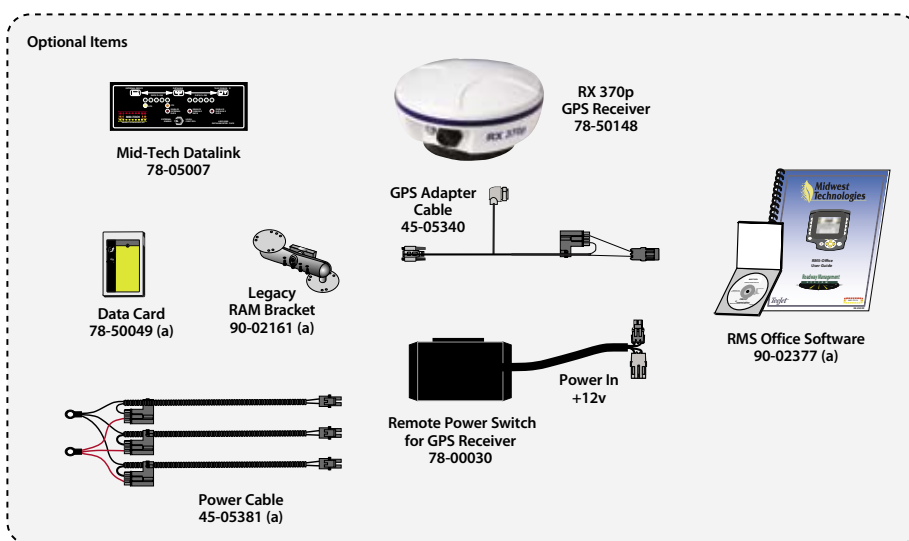
- Create profiles for: agencies, chemicals, chemical mixtures, personnel, vehicles and spray configurations.
- View background maps of roads and streams.
- View base maps and object information.
- Create and print base maps.
- Create and print finished application reports using Report Wizard.
- Import and export shape files.
- Protect your department from spray-related liability issues with fully documented spray sessions.

Legacy 6000 RMS-EXT System

- Uses a Legacy console for mapping and data collection, while connected to a Mid-Tech® TASC® controller that handles the application rate control.



Legacy 6000 RMS (EXT) System Diagram



Legacy 6000 RMS-EXT System Checklist

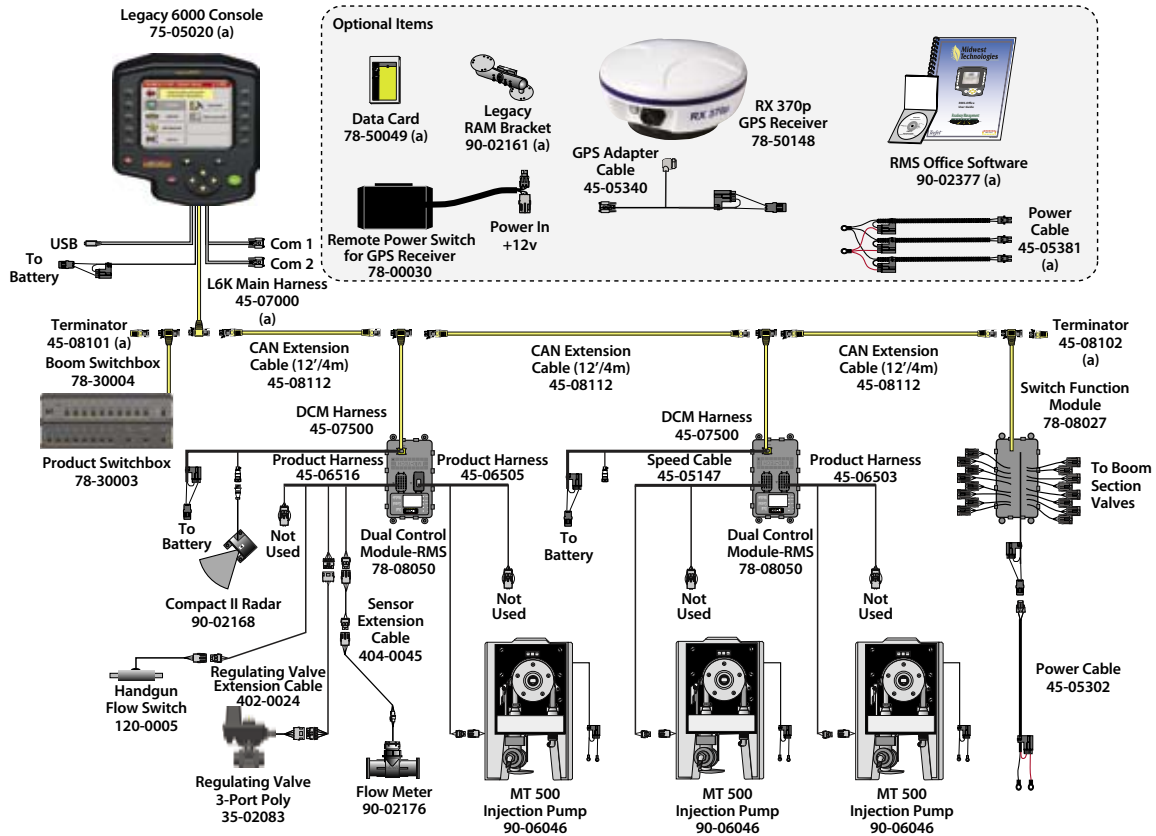
	PART NUMBER	DESCRIPTION
Console Kits	90-02369	Legacy 6000 RMS Kit, Basic (contains parts identified in the system diagram with an (a))
Power Cables (Standard 2-Position Weatherpack)	401-0016	Battery Cable, 2', 1 Lead
	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
	45-05162	30' Power Extension Cable, Fused
RMS Office Software	90-02377	RMS Office Software Kit
Controller Interfaces and Cables	78-05007	Datalink for Mid-Tech TASC controllers, V5.0

GPS Receivers

See page 125 for GPS receiver details.



Legacy 6000 RMS-CAN 3 Product Injection with Carrier Control



Legacy 6000 RMS-CAN System Checklist

	PART NUMBER	DESCRIPTION
Console Kits	90-02369	Legacy 6000 RMS Kit, Basic (contains parts identified in the system diagram with an (a))
	45-07602	ISM, 10 Boom
Boom Switchboxes and Input Status Modules	45-07601	ISM, 29 Boom
	78-30009	Boom Switchbox, Booms 1–5
	78-30004	Boom Switchbox, Booms 1–10
	78-30005	Boom Switchbox, Booms 11–20
Product Switchboxes	78-30008	Product Switchbox, Product 1–4
	78-30003	Product Switchbox, Product 1–8
Switch Function Module	78-08027	SFM, Booms 1–10
	78-08035	SFM, Booms 11–20
	45-05302	SFM Power Cable (one required per SFM)
DCM and Power/Speed Harness	78-08050	DCM with RMS
	45-07500	DCM Harness with CAN, Power and Speed Connections (one required per DCM)
DCM Application Control Harnesses (one required per product)	45-06503	DCM Product Harness, Injection Pump Drive + Flow Monitor Input (Sensor D—Sensor A Used by Pump)
	45-06516	DCM Product Harness, Servo Valve + 2 Frequency Type Sensor and One Analog Sensor Input (Sensors A/D/E)
	45-06517	DCM Product Harness, Injection Pump Drive, Flow Monitor Input and Agitation Output (Sensor D—Sensor A Used by Pump)

Legacy 6000 CAN System Checklist—Basic Liquid System CONTINUED

	PART NUMBER	DESCRIPTION
Handgun Components	120-0004	Flow Switch, NO, 1-1/2 GPM
	120-0005	Flow Switch, NO, 1/2 GPM
	402-0009	Cable, 18', Handgun Flow Switch
CAN Extension Cables	45-08106	6' CAN Extension Cable
	45-08112	12' CAN Extension Cable
	45-08117	20' CAN Extension Cable
	45-08118	30' CAN Extension Cable
	401-0016	Battery Cable, 2', 1 Lead
Power Cables (Standard 2-Position Weatherpack)	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
	45-05162	30' Power Extension Cable, Fused
RMS Office Software	90-02377	RMS Office Software CD and Manual

Regulating Valve and Cables

See page 167 for regulating valve details.

Flow Meter and Cables

See pages 162 and 163 for flow meter details.

Speed Sensor and Cables

See pages 164 and 165 for speed sensor details.

GPS Receivers

See page 125 for GPS receiver details.

Injection System Components

See pages 169 and 170 for injection system components.

Pressure Sensor and Cables

See page 164 for pressure sensor details.



Flow Meters

A range of flow meters is available to match your application. Flow rates from .8 GPM (3 l/min) to 400 GPM (1500 l/min) are available in a range of styles and bearing materials. The 801 flow meter is a versatile design ideal for most applications between 2.5 GPM (9.5 l/min) and 60 GPM (227 l/min). For sizes and types not shown in this catalog, contact your TeeJet dealer.



801 Flow Meter

801 Flow Meter

- Wetted parts are glass-filled polypropylene, stainless steel and Viton®.
- Pressure rating of 300 PSI (20 bar).
- Flange connections provide threadless, leakproof design and maximum plumbing versatility. See pages 86 and 87 for information on flange fittings.
- Easily removable "quick check" turbine for quick cleanup and service.
- Durable ruby bearings for long wear life.

Standard Flow Meters

- Nylon construction for chemical resistance and durability.
- Various sizes allow for flow rates from .8 to 396 GPM (3 to 1,500 l/min).
- Hose barb or threaded connections allow for easy installation.
- Sensor assembly easily removed for service.
- Designed with stainless steel bearings. Other bearing materials are available.
- Pressure rating of 300 PSI (20 bar).

Flow Meters



Standard Flow Meter

PART NUMBER	DESCRIPTION	FLOW CAPACITY
801 AND STANDARD FLOW METERS FOR TEEJET CONTROLS (includes sensor)		
90-50230	1" 801 Flow Meter with 1" Straight Hose Barbs	2.5–60 GPM (9.5–227 l/min)
90-50232	1" 801 Flow Meter with 1¼" Straight Hose Barbs	2.5–60 GPM (9.5–227 l/min)
57-10080	½" Standard Flow Meter with ½" Hose Barbs	0.8–8 GPM (3–30 l/min)
57-10096	¾" Standard Flow Meter with ¾" Hose Barbs	1.9–37 GPM (7–140 l/min)
57-10097	2" Standard Flow Meter with 2" Hose Barbs	19–400 GPM (72–1500 l/min)
57-10059	Sensor for TeeJet 1/2" Standard Flow Meter	
57-10055	Sensor for TeeJet Standard Flow Meters other than 1/2"	

STANDARD FLOW METERS FOR MID-TECH® CONTROLS

120-0101	1" Flow Meter, 1¼" Hose Barbs*	2.6–53 GPM
120-0102	1" Flow Meter, 1" Hose Barbs*	2.6–53 GPM
120-0151	1½" Flow Meter, 1½" Hose Barbs*	9–185 GPM
120-0201	2" Flow Meter, 2" Hose Barbs*	20–396 GPM
120-0037	316 Stainless Steel Flow Meter, 1-1/4" NPT	3–70 GPM (11.3–265 l/min)

* Requires one of the following sensor cables:

405-0044	Flow Meter Interface Cable—12"	
405-0056	Flow Meter Interface Cable—24"	

RAPID CHECK FLOW METERS FOR TEEJET & MID-TECH CONTROLS

121-0101	1" Rapid Check Flow Meter, no Hose Barbs**	0.75–5 GPM
121-0103	1" Rapid Check Flow Meter, insert only	0.75–5 GPM
121-0120	1" Rapid Check Flow Meter, 1" Hose Barbs**	2.5–25 GPM
121-0104	1" Rapid Check Flow Meter, insert only	2.5–25 GPM
121-0153	1½" Rapid Check Flow Meter, insert only	2.5–16 GPM
57-00004	1½" Rapid Check Flow Meter, 1½" Hose Barbs **	2.6–53 GPM
57-00003	1½" Rapid Check Flow Meter, insert only	2.6–53 GPM
121-0154	1½" Rapid Check Flow Meter, insert only	9–90 GPM
121-0171	1½" Rapid Check Flow Meter, 1½" Hose Barbs**	9–90 GPM
90-02176	801 Flow Meter, 1" Hose Barbs, Sensor Interface (Mid-Tech controls only)	

(** requires one of the following sensor cables)

405-0144	Mid-Tech Rapid Check Flow Meter Interface Cable—12'	
405-0188	Mid-Tech Rapid Check Flow Meter Interface Cable—32'	
57-10057	TeeJet Rapidcheck Flow Meter Sensor	

FLOW METER ADAPTER CABLES FOR MID-TECH CONTROLS

45-05315	Mid-Tech Flow Meter Interface Cable—12', for 801 Flow Meter	
404-0057	Flow Meter Adapter Cable for 120-0037	
404-0045	Flow Meter Extension Cable—18'	
404-0039	Flow Meter Extension Cable—25'	
402-0040	DICKEY-john Flow Meter Adapter Cable—18'	
404-0023	Raven Flow Meter Adapter Cable—18'	



SS Flow Meter



D Series Flow Meters

PART NUMBER		DESCRIPTION
MID-TECH® AND TEEJET CONTROLS	LH AGRO CONTROLS	

10 mm FLOW METERS – 0.4–22 GPM (1.5–85 l/min)

N/A	906-987	10 mm Flow Meter—10 m Cable—No Connector
57-00079	906-989	10 mm Flow Meter—0.5 m Cable—Deutsch Connector (no Hose Barbs)
90-02308	N/A	10 mm Flow Meter—0.5 m Cable—Deutsch Connector (with ½" Hose Barbs)

Fittings for the 10 mm Flow Meter

N/A	950-915	¾" Male BSPT Connector
N/A	950-916	¾" Female BSPT Connector
57-00083	941-987	½" Hose Barb
N/A	942-989	¾" Threaded Connector Kit (1 Male and 1 Female Connector)

16 mm FLOW METERS – 1.3–42 GPM (5–160 l/min)

N/A	907-986	16 mm Flow Meter—10 m Cable—no Connector
N/A	907-980	16 mm Flow Meter—8 m Cable—ST Connector
N/A	907-981	16 mm Flow Meter—1.5 m Cable—JST Connector
57-00080	907-985	16 mm Flow Meter—0.5 m Cable—Deutsch Connector (no Hose Barbs)
90-02309	N/A	16 mm Flow Meter—0.5 m Cable—Deutsch Connector (with ¾" Hose Barbs)
90-02310	N/A	16 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 1" Hose Barbs)

Fittings for the 16 mm Flow Meter

57-00084	941-991	TeeJet Valve Adapter
N/A	950-988	¾" Male BSPT
N/A	950-986	¾" Female BSPT
57-00086	951-988	¾" Hose Barb
57-00085	952-988	1" Hose Barb
N/A	931-988	Hardi EC "Twin" Connector Kit

20 mm FLOW METERS – 5.3–66 GPM (20–250 l/min)

N/A	902-986	20 mm Flow Meter—6 m Cable—No Connector
N/A	902-988	20 mm Flow Meter—15 m Cable—No Connector
57-00081	906-988	20 mm Flow Meter—0.5 m Cable—Deutsch Connector (no Hose Barbs)
90-02311	N/A	20 mm Flow Meter—0.5 m Cable—Deutsch Connector (with ¾" Hose Barbs)
90-02312	N/A	20 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 1" Hose Barbs)
90-02313	N/A	20 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 1¼" Hose Barbs)

Fittings for the 20 mm Flow Meter

57-00087	933-988	TeeJet Valve Adapter
N/A	950-983	¾" Male BSPT
N/A	951-986	1" Female BSPT
N/A	952-986	1" Male BSPT
57-00089	953-986	¾" Hose Barb
57-00088	954-986	1" Hose Barb
57-00090	956-986	1¼" Hose Barb
57-00098	957-986	1½" Hose Barb

26 mm FLOW METERS – 5.3–105 GPM (20–400 l/min)

N/A	908-986	26 mm Flow Meter—6 m Cable—No Connector
N/A	908-987	26 mm Flow Meter—3 m Cable—JST Connector
57-00082	908-988	26 mm Flow Meter—0.5 m Cable—Deutsch Connector (no Hose Barbs)
90-02314	N/A	26 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 1¼" Hose Barbs)
90-02315	N/A	26 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 1½" Hose Barbs)

Fittings for the 26 mm Flow Meter

57-00091	934-002	TeeJet Valve Adapter
N/A	958-986	1½" Male BSPT
57-00093	959-986	1¼" Hose Barb
57-00092	960-986	1½" Hose Barb

40 mm FLOW METERS – 10.5–264 GPM (40–1000 l/min)

N/A	909-986	40 mm Flow Meter—6 m Cable—No Connector
57-00094	909-988	40 mm Flow Meter—0.5 m Cable—Deutsch Connector (no Hose Barbs)
90-02316	N/A	40 mm Flow Meter—0.5 m Cable—Deutsch Connector (with 2" Hose Barbs)

Fittings for the 40 mm Flow Meter

N/A	961-986	2" Male BSPT
57-00095	962-986	2" Hose Barb



10 mm, 16 mm Flow Meters



20 mm Flow Meters



26 mm, 40 mm Flow Meters

Adapter Cables

PART NUMBER		DESCRIPTION
MID-TECH CONTROL	LH AGRO CONTROL	
45-05315	N/A	12-Foot Adapter Cable—D Series Flow Meter to Mid-Tech Flow Control Cable
45-05453	N/A	15-Foot Adapter Cable—D Series Flow Meter to Mid-Tech Flow Control Cable, with Divide-by-Two
45-05472	N/A	12-Inch Adapter Cable—D Series Flow Meter to Mid-Tech Flow Control Cable, with Divide-by-Two



TeeJet® Speed and Pressure Sensors

PART NUMBER	DESCRIPTION
90-02371	GPS Speed Sensor (standard AMP Connector)
90-02386	GPS Speed Sensor with TeeJet Adapter Cable

SPEED SENSORS FOR MID-TECH® CONTROLS

120-0001-Kit	DICKEY-john RVS II Radar with Mounting Bracket
78-50082	Compact II Radar Only
90-02168	Compact II Radar with Cable (AMP CPC Connector)
120-0011	Universal Magnetic Wheel Sensor Kit—20' Cable

SPEED SENSORS FOR TEEJET CONTROLS

16-40004	Proximity Speed Sensor
16-40007	Wheel Speed Sensor Kit (Sensor, 2 Magnets and Brackets)
16-40012	Wheel Speed Sensor Kit (Sensor, 2 Magnets and Brackets)
16-40003	Wheel Speed Sensor Only
64-50014	Single Magnet Assembly
16-40013	Speed Sensor Bracket Assembly
90-02169	Compact II Radar with Cable Deutsch Connector
78-50082	Compact II Radar Only
45-20042	Speed Sensor Adapter Cable for TeeJet Controls for use with GPS Speed Sensor 90-02371 (in table above)

Note: A wide range of adapter cables are available to adapt TeeJet, Mid-Tech® and LH products to almost any speed signal source. Please contact your TeeJet representative and request Bulletin #98-01110 for details.

Proximity Sensor

TeeJet proximity sensors are reliable and easy to use because they do not require magnets and will produce a signal from any metal object.

- Built-in LED at sensor.
- Weather-resistant connector.
- Reverse polarity protected.

Magnetic Sensor

The magnetic speed sensor kit is designed for versatility and long life. All components are plated steel or aluminum, and each sensor is equipped with a built-in test light and waterproof connectors.

- Built-in LED at sensor.
- Weather-resistant connector.
- Reverse polarity protected.

GPS Speed Sensor

- The GPS Speed Sensor uses a GPS receiver to measure true ground speed, then delivers a frequency signal compatible with the radar speed signal input on most controls and monitors.
- Eliminates problems frequently found with radar speed sensors on wet surfaces, with moving crops, or vehicle vibration.
- Convenient enclosure mounts inside cab, only a small patch antenna is mounted outside.
- Status LEDs show power, GPS lock and speed output conditions.
- Wide range of adapter cables available making it compatible with all popular application rate control systems.
- State-of-the-art GPS engine delivers better performance than many comparable units on the market.
- Speed range 5.-80+ mph / 1-130+ km/h.



Compact II Radar



Proximity Speed Sensor

Wheel Speed Sensor



GPS Speed Sensor

TeeJet® Pressure Sensors

Pressure Sensors

- Available in two pressure ranges for maximum accuracy in your application.
- Reverse polarity protected.
- Weather-resistant connector.
- 145 PSI (10 bar) and 363 PSI (25 bar).
- 1/4" NPT (M) connections.
- Sensors can withstand 2x rated pressure without damage.



How to Order

PART NUMBER	DESCRIPTION
16-40001	Pressure Sensor, 1/4" NPT, 0-145 PSI (0-10 bar)
16-40002	Pressure Sensor, 1/4" NPT, 0-363 PSI (0-25 bar)
45-05348	Adapter Cable, Pressure Sensor to Legacy Product Harness



Mid-Tech Speed Sensor Cables & Adapters

PART NUMBER	DESCRIPTION
RADAR AND SPEED SENSOR ADAPTER CABLES	
404-0088	John Deere 7000 and 8000 Series Adapter Cable (connects to John Deere connector in right hand instrument panel)
45-05440	Radar or Magnetic Speed Sensor Extension Cable—6'
402-0005	Radar or Magnetic Sensor Extension Cable—18'
402-0035	Radar or Magnetic Sensor Extension Cable—30'
402-0003	DICKEY-john Radar "Y" Cable, 2 x 14" Leads
402-0015-D	DICKEY-john Radar "Y" Cable to Mid-Tech® Console with Overload Protection, 2-1' Insert Lines, 1-6' Lead to Console
402-0015-M	Magnavox Radar (John Deere) "Y" Cable to Mid-Tech Console with Overload Protection, 2-1' Insert Lines, 1-6' Lead to Console (some models only)
405-0114-D	DICKEY-john Radar "Y" Cable to Mid-Tech Console with Overload Protection, 2-1' Insert Lines, 1-15' Lead to Console
405-0114-M	Magnavox Radar (John Deere—some models only) "Y" Cable to Mid-Tech Console with Overload Protection, 2-1' Insert Lines, 1-15' Lead to Console
405-0114-CIH	DICKEY-john Radar (Case IH) "Y" Cable to Mid-Tech Console with Overload Protection, 2-1' Insert Lines, 1-15' Lead to Console
402-0017	Raven Radar "Y" Cable to Mid-Tech
402-0021	TRW Radar Cable—20'
402-0038	Raven Radar Adapter Cable
405-0114-JDY	Radar "Y" Cable for John Deere 7000 and 8000 Series with Overload Protection, 2-1' Insert Lines, 1-6' Lead to Console (connects to John Deere connector in right hand instrument panel)
405-0027	MicroTrak Trakster Interface To Mid-Tech—20'
45-05147	Magnavox and Compact Radar Cable, 18'

TRACTOR RADAR ADAPTER CABLE SELECTION GUIDE

405-0114-CIH	CASE IH 7000 and 9000 Series, MX, MXM—Connects at Radar Gun
402-0044	CATERPILLAR Series A and B (Pre '93)—Connects at Radar Gun
402-0043	CATERPILLAR Series C and D, 35, 45, 55—Connects at Radar Gun
45-05440	CATERPILLAR E, 700 and 800 Series—Connects to Caterpillar Connector in Cab—6'
402-0015-D	CATERPILLAR E, 700, & 800 series—Connects to Caterpillar connector in cab—"Y" cable with overload protection—6' lead to console
402-0048	FORD Genesis—Connects at Radar Gun
402-0015-M	JOHN DEERE 4050, 4250, 4450, 4560, 4650, 4760, 4850, 4960—Connects at Radar Gun
404-0088	JOHN DEERE 7600, 7700, 7800 (connects to John Deere connector in right hand instrument panel)
78-05016	JOHN DEERE 7810 Transmission Sensor
404-0088	JOHN DEERE 8x00, 8x10, 8x20, 8x30 and 9000 Series (connect to John Deere connector in right hand instrument)
405-0114-M	JOHN DEERE 8560, 8760, 8960, 8970—Connects at Radar Gun

Flow Control and Power Cables—ARC and TASC®

PART NUMBER	DESCRIPTION	NOTE
FLOW CONTROL CABLES		
404-0022	Flow Control Cable (25') with 20' Power Supply Cable for Standard Mid-Tech® Wiring	
404-0061	Flow Control Cable (25') with 20' Power Supply Cable for use with DICKEY-john 360 Slot Rate Sensor	
OPTIONS		
602-0013	Flow Control Extension Cable—12'	
401-0102	Power Cable Extension—20'	
POWER CABLES		
401-0016	Power Cable, 1 Lead x 2'	
45-05037	Power Cable, 2 Leads x 2'	
401-0011	Power Cable, 3 Leads x 2'	
401-0012	Power Cable, 5 Leads, 3 x 5', 2 x 2'	
HARNESSES		
405-0074	Integrated Power and Flow Control Cable (~23' to valve, ~6' to Flow Meter Connector, ~20' to Battery)	f
405-0174	Integrated Power and Flow Control Cable for Pull-Type Sprayers	f



Butterfly Valve for 744A

The TeeJet butterfly valve provides remote pressure control and features a two-wire lead for use in 12 VDC system. Its quality design features good corrosion resistance, a low power consumption of 0.15 amp and 3/4" NPT or BSPT (F) connections.

Features:

- Pressure drop of 5 PSI (0.35 bar) for 28 GPM (106 l/min).
- Maximum operating pressure is 100 PSI (7 bar).



Ball Valves

- BRL version has specially shaped ball for improved regulation control.
- Designed for maximum durability with automatic sprayer controls.
- See table on page 167 for port options and flow rates
- Stainless steel stem on all B-series models. Poly ball is standard (stainless steel ball optional).
- Maximum pressure of 300 PSI (20 bar).
- Cycle time from fully closed to fully open is 6 seconds for TeeJet controls, 3 seconds for Mid-Tech® controls.



High-Precision Ball Valve

- Special design achieves gradual and smooth regulation.
- Ideal for applications where precise regulation takes priority over regulation speed or flow capacity.
- See table on Page 168 for port options and flow rates.
- Maximum pressure of 300 PSI (20 bar) for 344BPR, and 150 PSI (10 bar) for 346BPR.
- Cycle times fully closed to fully open in 6 or 36 seconds.

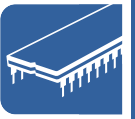


EXR IV
Hydraulic
Control Valve

EXR IV Hydraulic Control Valves

VALVE ASSEMBLY	CARTRIDGE	MANIFOLD	MAX. FLOW RATE	SPEED	PORTS	PORT SIZE	TYPE	ACTUATOR
35-02130	35-05015	879-2243	50.00	3.0	3	#16		35-04065
35-02129	35-05015	35-03006	50.00	3.0	3	#16	PR	35-04065
35-02128	35-05013	35-03004	30.00	3.0	3	#12		35-04065
35-02127	35-05013	35-03005	30.00	3.0	3	#12	PR	35-04065
35-02126	35-05011	35-03003	20.00	3.0	2	#12	PR	35-04065
35-02125	35-05011	35-03004	20.00	3.0	3	#12		35-04065
35-02124	35-05010	35-03000	15.00	7.0	2	#16	LS	35-04070
35-02123	35-05009	35-03004	15.00	3.0	3	#12		35-04065
35-02122	35-05007	879-2242	13.80	7.0	2	#12		35-02070
35-02121	35-05005	35-03004	13.00	3.0	3	#12		35-04065
35-02120	35-05003	35-03003	8.00	3.0	2	#12	PR	35-04065
35-02119	35-05003	35-03004	8.00	3.0	3	#12		35-04065
35-02118	35-05002	35-03015	5.00	7.0	2	#12	LS	35-04070
35-02117	35-05001	35-03015	5.00	3.0	2	#12		35-04065

PR—Includes Pressure Relief, LS—Includes Load Sense Port



PART NUMBER	SIZE AND CONNECTION	REGULATING TYPE	BODY MATERIAL	NUMBER OF PORTS	SPEED (SEC.)	FLOW RATE @ 5 PSI (0.34 BAR) DROP		NOTES
						US GPM	L/MIN	

REGULATING VALVES FOR TEEJET CONTROLS INCLUDING 834, 844E, 854, 744A, AND 70 SERIES

35-02116	3/4" NPT	344BRL Linear Poly Ball	Nylon	2	6	27	102	
35-02135	3/4" BSPT	344BRL Linear Poly Ball	Nylon	2	6	27	102	
35-02099	1" NPT	344BRL Linear Poly Ball	Nylon	2	6	27	102	
35-02087	1" NPT	344BRL Linear Poly Ball	Nylon	2	18	27	102	
35-02101	1" BSPT	344BRL Linear Poly Ball	Nylon	2	6	27	102	
35-02112	50 Series Flange	344BRL Linear Poly Ball	Nylon	2	6	27	102	
35-02114	50 Series Flange	344BRL Linear Poly Ball	Nylon	2	18	27	102	
35-02132	50 Series Flange	346BR Poly Ball	Polypropylene	2	6	100	379	
35-02090	1-1/2" NPT	346BR Poly Ball	Polypropylene	2	6	100	379	
35-02140	1" NPT	344BRL Linear Stainless Steel Ball	Nylon	2	6	27	102	
35-02115	3/4" NPT	344BPR High-Precision Poly Ball	Nylon	2	36	12	45	
35-02138	3/4" BSPT	344BPR High-Precision Poly Ball	Nylon	2	36	12	45	
35-02094	1" NPT	344BPR High-Precision Poly Ball	Nylon	2	6	12	45	
35-02089	1" NPT	344BPR High-Precision Poly Ball	Nylon	2	36	12	45	
35-02141	50 Series Flange	346BPR High-Precision Poly Ball	Polypropylene	2	6	53	200	
35-02142	1-1/4" NPT	346BPR High-Precision Poly Ball	Polypropylene	2	6	53	200	
35-02143	1-1/2" NPT	346BPR High-Precision Poly Ball	Polypropylene	2	6	53	200	
35-50029	3/4" NPT	244C Butterfly	Nylon	2	20	28	106	
35-50030	3/4" BSPT	244C Butterfly	Nylon	2	20	28	106	

REGULATING VALVES FOR MID-TECH CONTROLS

35-02083	1" NPT	344BR Poly Ball	Nylon	3	3	24	91	g
35-02084	1-1/2" NPT	346BR Poly Ball	Polypropylene	3	3	64	242	g
35-02085	1" NPT	344BR Poly Ball	Nylon	2	3	32	121	g
35-02086	1-1/2" NPT	346BR Poly Ball	Polypropylene	2	3	100	379	g
879-0002	3/4" NPT	Hi-Torque Stainless Steel Ball	Stainless Steel	3	1.5	27	102	g
879-0003	1" NPT	Hi-Torque Stainless Steel Ball	Stainless Steel	3	1.5	31	117	g
879-0004	1-1/2" NPT	Hi-Torque Stainless Steel Ball	Stainless Steel	3	3	76	288	g
35-02144	50 Series Flange	346BPR High-Precision Poly Ball	Polypropylene	3	6	53	200	g
35-02145	1-1/4" NPT	346BPR High-Precision Poly Ball	Polypropylene	3	6	53	200	g
35-02146	1-1/2" NPT	346BPR High-Precision Poly Ball	Polypropylene	3	6	53	200	g

OTHER REGULATING VALVES

35-02136	1" NPT	344BE Stainless Steel Ball	Nylon	2	1	32	121	No connector
35-02093	50 Series Flange	344BRL Linear Poly Ball	Nylon	2	6	27	102	No connector
35-02134	1" NPT	344BRL Linear Poly Ball	Nylon	2	6	27	102	1.5m cable, 3 pos. JST connector

g—Requires the use of one valve driver interface (405-0143 or 405-0113) for ARC/TASC consoles unless the customer is using a 405-0074 or 405-0174 Power/Flow control harness.

Valve Driver Interfaces and Cables

405-0143	Valve Driver Interface for Mid-Tech® Regulating Valves—Standard Plumbing
405-0113	Valve Driver Interface for Mid-Tech Regulating Valves—Reverse Plumbing
405-0043	Valve Driver Interface for DICKEY-john Hydraulic Regulating Valve
404-0024	Adapter Cable for Raven Regulating Valve
404-0102	Adapter Cable for DICKEY-john Hydraulic Regulating Valve



Regulating Valve



Advantages of Direct Chemical Injection Systems

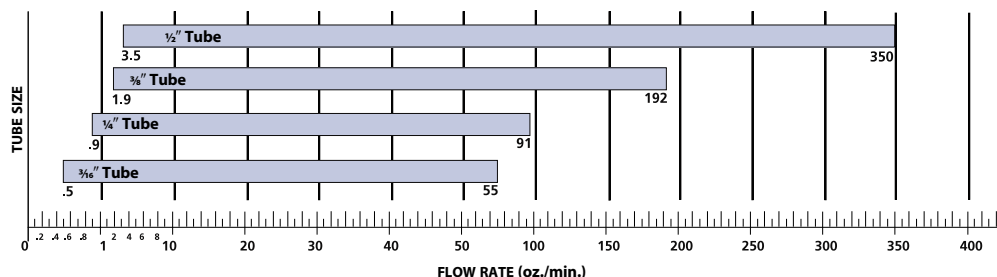
- The main carrier tank is loaded with clean water, not mixed chemicals.
- Concentrated chemical is accurately injected and mixed just prior to being sprayed out of the boom.
- Reduced operator exposure to chemical concentrates.
- No pre-mixing of chemicals in the main carrier tank.
- No leftover mixed product at the end of the field to dispose of.
- Unused concentrated chemical remains safe and secure in a dedicated holding tank.
- The operator can quickly change from one chemical product to another without cleaning and rinsing the main carrier tank.
- Chemical application rates can be adjusted by varying the concentration of chemical injected into the carrier.



MT500 Injection Pump

- Extremely wide flow range of 0.2 oz. to 350 oz./min (6–10,350 ml/min).
- Innovative 5-roller design for more uniform product flow.
- Quick-release clamp for simple release of tension on pump tubes.
- Easy-access cover makes tube inspection and maintenance a snap.
- Quick-release connections on tubes make changes quick and simple.
- Optional calibration valve can be mounted directly to the pump providing a compact package that is easy to mount.
- Optional Reverse Prime feature allows the recovery of unused chemical concentrate from the injection lines at the end of the job.

Optimum Tube Selection Chart for MT500 Legacy® Pump



MT 600 Injection Pump

- Positive displacement piston pump with precise volume of chemical concentrate delivered with every stroke.
- Allows injection of chemical concentrate into the pressure side of the carrier pump simplifying system plumbing and permitting agitation of the carrier while injecting.
- Optional 2" mixing chamber available to ensure thorough mixing of the chemical and carrier.
- Chemically resistant wetted components, with stainless steel and powder-coated base and enclosure.
- Available for both TASC and Legacy controls, in four capacities:
 - 0.5-50 oz./min. (15-1500 ml./min.)
 - 1.0-100 oz./min. (30-3000 ml./min.)
 - 1.5-150 oz./min. (45-4500 ml./min.)
 - 2.0-200 oz./min. (60-6000 ml./min.)





PART NUMBER	DESCRIPTION	NOTE	CALIBRATION VALVE	REVERSE PRIME MODULE	45-05301 TASC SIGNAL CABLE	45-05302 POWER CABLE	45-06503 DCM PRODUCT HARNESS
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MT 500 INJECTION PUMP PART NUMBERS

90-06007	MT 500 Pump, TASC, with Calibration Valve	V, W	•	—	•	•	—
90-06023	MT 500 Pump, TASC, with Calibration Valve and Reverse Prime	V, W	•	•	•	•	—
90-06036	MT 500 Pump, TASC, No Calibration Valve	V, W	—	—	•	•	—
90-06039	MT 500 Pump, TASC, with Reverse Prime, No Calibration Valve	V, W	—	•	•	•	—
90-06046	MT 500 Pump, with DCM Product Harness and Calibration Valve	V	•	—	—	•	•

MT 600 INJECTION PUMP PART NUMBERS

90-06026	MT 600 Pump, TASC, 0.5–50 oz./min.	W	—	—	•	•	—
90-06027	MT 600 Pump, TASC, 1–100 oz./min.	W	—	—	•	•	—
90-06028	MT 600 Pump, TASC, 1.5–150 oz./min.	W	—	—	•	•	—
90-02029	MT 600 Pump, TASC, 2–200 oz./min.	W	—	—	•	•	—
90-06043	MT 600 Pump with DCM Product Harness, 0.5–50 oz./min.		—	—	—	•	•
90-06034	MT 600 Pump with DCM Product Harness, 1–100 oz./min.		—	—	—	•	•
90-06044	MT 600 Pump with DCM Product Harness, 1.5–150 oz./min.		—	—	—	•	•
90-06045	MT 600 Pump with DCM Product Harness, 2–200 oz./min.		—	—	—	•	•
54-02044	2" Mixing Chamber						

INJECTION PUMP CABLES

45-05301	Injection Pump To TASC Console Signal Cable
45-05302	Injection Pump Battery Power Cable
45-05322	Ground Signal Cable For TASC Consoles
45-06503	Injection Pump Product Harness For DCM
45-05352	MT Series Injection Pump Signal Cable Extension—20'
45-05107	MT Series Injection Pump Power Cable Extension—20'

MT500 Tube Assemblies

PART NUMBER	COLOR	DESCRIPTION
70-04008	Red	3/16" Polyurethane Tube Assembly
70-04009	Blue	1/4" Polyurethane Tube Assembly
70-04010	Green	3/8" Polyurethane Tube Assembly
70-04011	Yellow	1/2" Polyurethane Tube Assembly
70-04012	Brown	5/8" Polyurethane Tube Assembly
70-04013	—	Polyurethane Tube Kit Containing 1 Each 3/16", 1/4", 3/8" and 1/2" Tubes

V—Be sure to order tube assembly also
W—1 each 45-05322 Ground Cable required per 3 Tasc Pumps

Tanks, Bases, Agitation Consoles

PART NUMBER	DESCRIPTION	NOTE
-------------	-------------	------

CHEMICAL TANKS

160-0001	7.5-Gallon Tank, 1/2" Fitting	r
160-0021	7.5-Gallon Tank, 1/2" Fitting with Agitation, 18' Lead	r, s
160-0032	7.5-Gallon Tank, 3/4" Fitting	r
160-0034	7.5-Gallon Tank, 3/4" Fitting with Agitation, 18' Lead	r, s
160-0033	25-Gallon Tank, 1/2" Fitting	r
160-0035	25-Gallon Tank, 1/2" Fitting with Agitation, 18' Lead	r, s
160-0022	25-Gallon Tank, 3/4" Fitting	r
160-0025	25-Gallon Tank, 3/4" Fitting with Agitation, 18' Lead	r, s

r—Requires base

TANK BASES

s—Requires an agitation console from the following list.

160-0005	Tank Mounting Base, Single, SST, holds 1 – 7.5-Gallon Tank
160-0015	Tank Mounting Base, Dual, SST, holds 2 – 7.5-Gallon Tanks or 1 – 25-Gallon Tank

AGITATION CONSOLES

105-0002	Agitation Console, 2 Tanks, On/Off
105-0012	Agitation Console, 1 Tank, Variable Speed Control
105-0016	Agitation Console, 2 Tanks, Variable Speed Control

OPTIONS

170-0001-KIT	Agitation Kit, to add to 7.5-Gallon Tank
170-0008-KIT	Agitation Kit, to add to 25-Gallon Tank
402-0009	Cable, Agitation Power Extension—18'
600-0024	Stainless Steel Propeller for 7.5-Gallon Tank (additional)
600-0030	Stainless Steel Propeller for 25-Gallon Tank (additional)



7.5-Gallon/28.4-Liter Tank



Injection Accessories

PART NUMBER	DESCRIPTION	NOTE
160-0006	½" Female SST Coupler	t
160-0007	½" Male SST Coupler	
160-0026	¾" Female SST Coupler	t
160-0027	¾" Male SST Coupler	
500-0011	Single Flush Kit, ½" SST	t
500-0013	Dual Flush Kit, 2—½" SST	
500-0019	Triple Flush Kit, 3—½" SST	
500-0017	Flush Kit, ¾" SST	t

t—One required per pump. Match the size to the tank fittings you are using.

Calibration Containers

908-0002	60 oz. Calibration Container
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Roadside Switchboxes and Harnesses

405-0086	5-Boom Switchbox for Solenoid Valves, with Handgun, Auxiliary Power and GSO
402-0011	Solenoid Harness for 5-Boom Switchbox
405-0088	9-Boom Switchbox for Solenoid Valves, with Handgun, Auxiliary Power and GSO
404-0037	Solenoid Harness for 9-Boom Switchbox

(each Switchbox requires the appropriate Solenoid Harness)

TASC Roadside Boom Interface for Existing Boom Switches

405-0092	9-Boom Status Interface with Handgun
405-0093	Roadside Switchbox with B/C/Handgun and GSO Only (use with 405-0092)

Handgun Flow Sensors

120-0003	Flow Sensor N.C. 1 GPM
120-0004	Flow Sensor N.O. 1½ GPM
120-0005	Flow Sensor N.O. ½ GPM

Roadside Cables

402-0009	18' Handgun Flow Sensor Extension Cable (use with 405-0092 or Legacy RMS)
404-0009	18' Handgun Flow Sensor Extension Cable (use with 405-0086 or 405-0088 TASC Boom Switchboxes)
404-0001	18' Auxiliary Power and Handgun Flow Sensor Extension Cable (use with 405-0086 or 405-0088 TASC Boom Switchboxes)
404-0002	3' Auxiliary Power and Handgun Flow Sensor 'Y' Cable, CPC-to-CPC (use with 405-0086 or 405-0088 TASC Boom Switchboxes)

Flow Monitors

105-0007	Chemical Flow Monitor Console, 4 Position—Accessory Power Required	u
105-0008	Chemical Flow Monitor Console, 4 Position—Accessory Power from Mid-Tech® TASC Boom Switchbox	u
105-0017	Chemical Flow Monitor Console, 6 Position—Accessory Power Required	u

u—Requires Chemical Flow Sensor from list below—one per pump.

Sensors

120-0030	Chemical Flow Sensor, Ultra Low Flow (6–64 oz./min.)–25'
120-0020	Chemical Flow Sensor, Low Flow (35–256 oz./min.)–25'
120-0021	Chemical Flow Sensor, Medium Flow (140–512 oz./min.)–25'
120-0022	Chemical Flow Sensor, High Flow (360–1024 oz./min.)–25'
57-00067	Chemical Flow Monitor Sensor (35–256 oz./min.)–2' CAN
57-00068	Chemical Flow Monitor Sensor (140–512 oz./min.)–2' CAN
57-00069	Chemical Flow Monitor Sensor (6–64 oz./min.)–2' CAN

Options

404-0045	Chemical Flow Sensor Extension Cable–18' (3-Pin Weatherpak)
404-0039	Chemical Flow Sensor Extension Cable–25' (3-Pin Packard Weatherpak)
404-0003	Replacement Signal Cable–25' (3-Pin Weatherpak to 4-Pin Conxall)



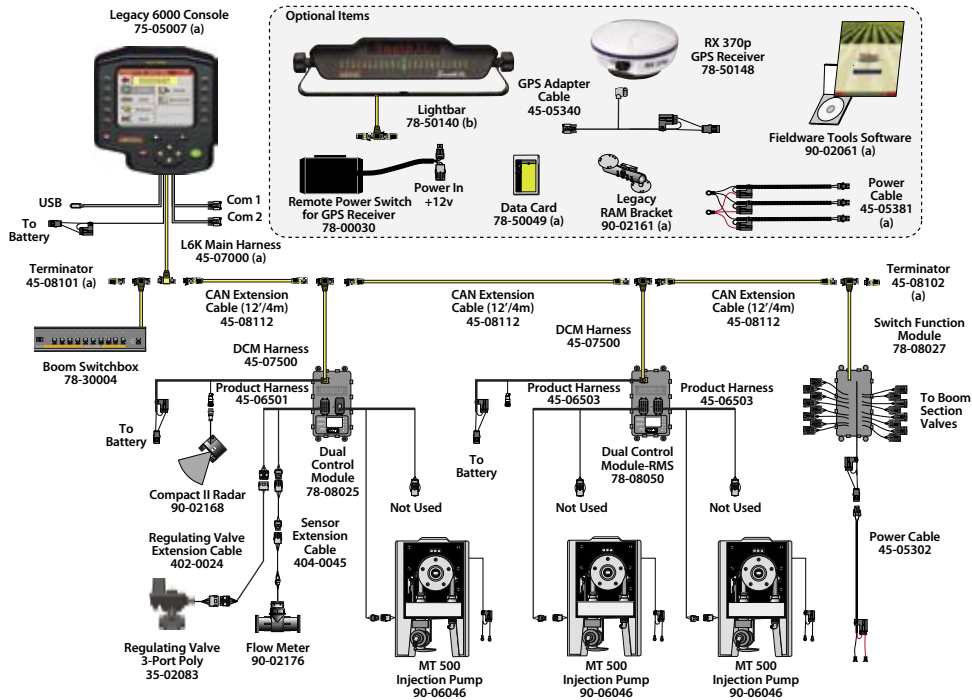
Chemical Flow Monitor Console



Chemical Flow Sensor



Legacy 6000 RMS-CAN 3 Product Injection with Carrier Control



Legacy 6000 3-Pump Injection System Checklist

	PART NUMBER	DESCRIPTION
1) Console Kits	90-02366	Legacy 6000 Kit, Basic (contains parts identified in the system diagram with an (a))
	90-02367	Legacy 6000 Kit, Basic with Lightbar (contains parts identified in the system diagram with an (a) and (b))
	90-02368	Legacy 6000 Kit, Basic with Lightbar and ISM (contains parts identified in the system diagram with an (a), (b) and (c))
	99-01009	License for Multiple Product Variable Rate Applications (not required for non-VR Multiple Product, or for Single Product VR)
2) Boom Switchboxes and Input Status Modules	45-07602	ISM, 10 boom
	45-07601	ISM, 29 boom
	78-30009	Boom Switchbox, Booms 1–5
	78-30004	Boom Switchbox, Booms 1–10
3) Switch Function Modules	78-30005	Boom Switchbox, Booms 11–20
	78-08027	SFM, Booms 1–10
	78-08035	SFM, Booms 11–20
4) DCM and Power / Speed Harness	45-05302	SFM Power Cable (one required per SFM)
	78-08025	DCM w/ Fieldware
	45-07500	DCM Harness with CAN, Power and Speed Connections (one required per DCM)

Regulating Valve and Cables

See page 167 for regulating valve details.

Flow Meter and Cables

See pages 167 for Flow Meter valve details.

Speed Sensor and Cables

See pages 164 and 165 for speed sensor details.

GPS Receivers See page 125 for GPS receiver details.

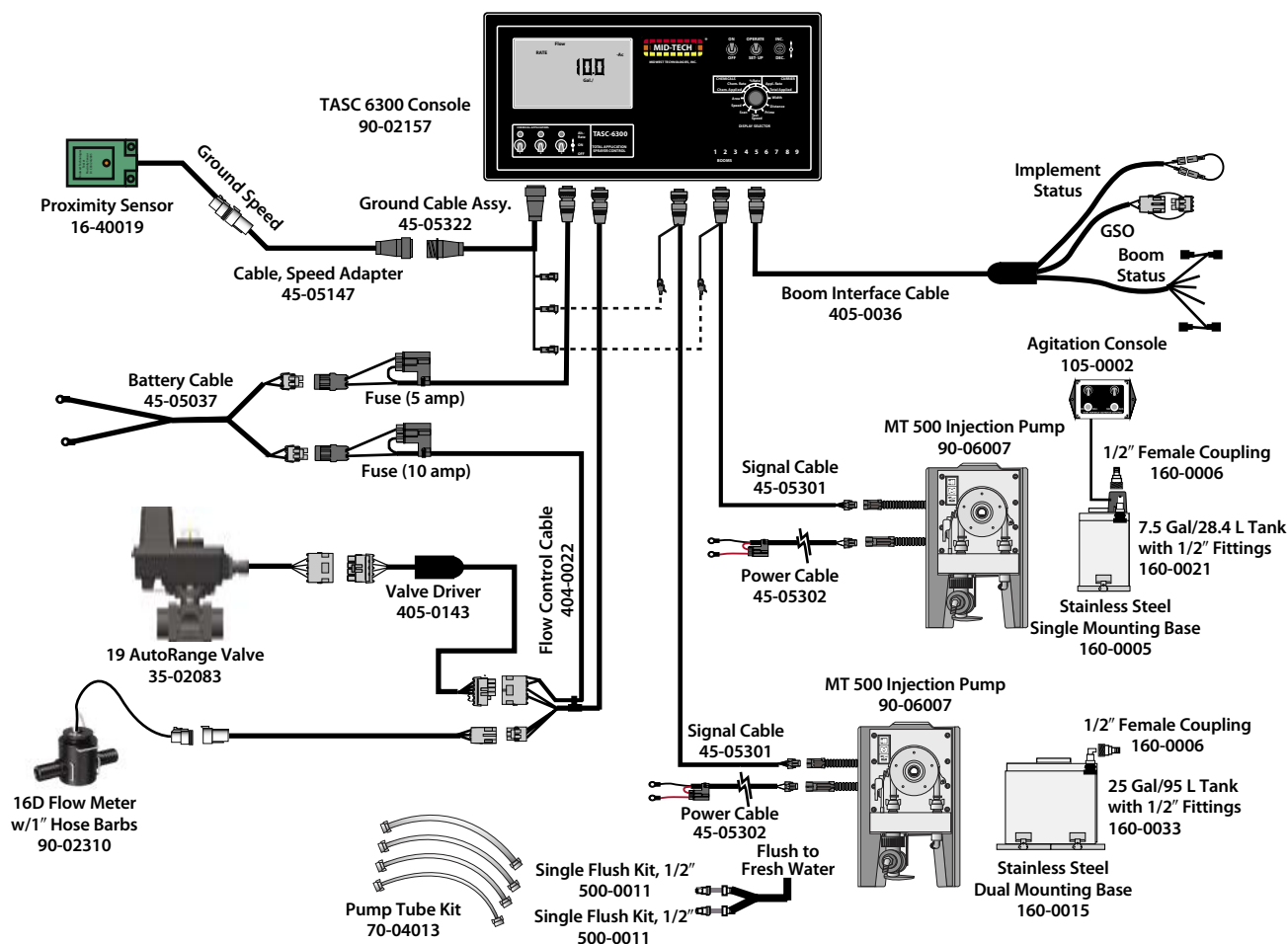
Injection System Components

See pages 169 and 170 for injection system components.

	PART NUMBER	DESCRIPTION
5) DCM Application Control Harnesses Carrier (one required per product)	45-06501	DCM Product Harness, Servo Valve + One Frequency Type Sensor Input (Sensor A)
	45-06502	DCM Product Harness, Servo Valve + Two Frequency Type Sensor Inputs (Sensor A/B)
	45-06505	DCM Product Harness, Servo Valve + One Frequency Type Sensor and One Analog Sensor Input (Sensor A/E)
	45-06516	DCM Product Harness, Servo Valve + Two Frequency Type Sensor and One Analog Sensor Inputs (Sensors A/D/E)
6) Injection Pumps	45-06503	DCM Product Harness, Injection Pump Drive + Flow Monitor Input (Sensor D – Sensor A used by pump)
	45-06517	DCM Product Harness, Injection Pump Drive, Flow Monitor Input, and Agitation Output (Sensor D – Sensor A used by pump)
12) CAN Extension Cables	45-08106	6' CAN Extension Cable
	45-08112	12' CAN Extension Cable
	45-08117	20' CAN Extension Cable
	45-08118	30' CAN Extension Cable
13) Power Cables (Standard 2-Position Weatherpack)	401-0016	Battery Cable, 2', 1 Lead
	45-05037	Battery Cable, 2', 2 Lead
	401-0011	Battery Cable, 2', 3 Lead
	45-05381	Battery Cable, 12', 3 Lead with Fuses
	45-05160	10' Power Extension Cable, Fused
	45-05161	20' Power Extension Cable, Fused
14) Fieldware Office Software	45-05162	30' Power Extension Cable, Fused
	90-02061	Fieldware Office Software CD and Manual



TeeJet® TASC® Direct Injection System



TASC Direct Chemical Injection System Checklist (Typical system-carrier plus two pump injection)

	QTY	PART NUMBER	DESCRIPTION	CATALOG PAGE NUMBER
Console	1	90-02157	TASC 6300 Console Kit	132
Speed Sensor	1	16-40019	Proximity Sensor	164
	1	45-05147	Speed Adapter Cable	165
Flow Meter	1	90-02310	16D Flow Meter with 1" Hose Barb	163
	1	45-05315	Adapter Cable for D Series Flow Meters	163
Regulating Valve	1	35-02083	1" AutoRange Valve	167
	1	405-0143	Valve Driver Interface	167
Cables	1	404-0022	Flow Control Cable	165
	1	45-05037	Power Cable, 2 Lead	165
Boom Status Cable	1	405-0036	5-Section Boom Status Cable	133
Injection Pumps	2	90-06007	MT 500 Injection Pump	168
	1	45-05322	Ground Signal Cable	169
Injection Accessories	1	160-0021	7½-Gallon Tank, ½" Fittings, with Agitation	169
	1	160-0005	7½-Gallon Tank Base	169
	1	160-0033	25-Gallon Tank, ½" Fittings	169
	1	160-0015	25-Gallon Tank Base	169
	2	160-0006	½" Tank Fittings	169
	2	600-0011	½" Flush Fittings	169
	1	105-0002	Tank Agitation Console	169
	1	70-04013	Pump Tube Kit	169

Technical Information

Useful Formulas

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

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

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

$$\frac{\text{l/km}}{\text{km/hr}} = \frac{60 \times \text{l/min}}{\text{km/hr}} \quad \text{l/min} = \frac{\text{l/km} \times \text{km/hr}}{60}$$

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.

	(cm)			
	50 cm	75 cm	100 cm	
TeeJet® Standard, TJ	65°	75	100	NR*
TeeJet, XR, TX, DG, TJ	80°	60	80	NR*
TeeJet, XR, DG, TT, TTI, TJ, DGTJ, AI, AIXR	110°	40	60	NR*
FullJet®	120°	40**	60**	75**
FloodJet® TK, TF	120°	40***	60***	75***

* Not recommended.

** Nozzle height based on 30° to 45° angle of orientation (see page 30 of catalog).

*** Wide angle spray tip height is influenced by nozzle orientation. The critical factor is to achieve a double spray pattern overlap.

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:

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

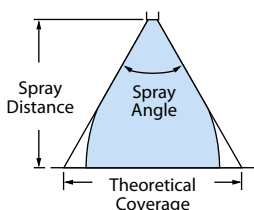
100 l/ha (1.28 kg/L solution) x 1.13
= 113 l/ha (water)

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

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.

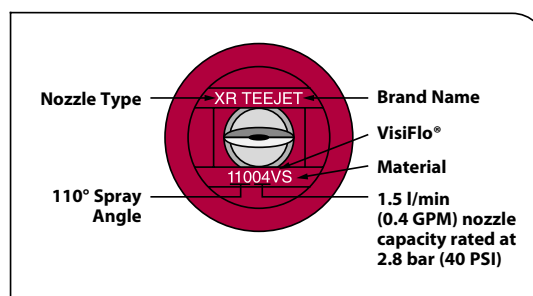


Included Spray Angle	Theoretical Coverage at Various Spray Heights (in cm)							
	20 cm	30 cm	40 cm	50 cm	60 cm	70 cm	80 cm	90 cm
15°	5.3	7.9	10.5	13.2	15.8	18.4	21.1	23.7
20°	7.1	10.6	14.1	17.6	21.2	24.7	28.2	31.7
25°	8.9	13.3	17.7	22.2	26.6	31.0	35.5	39.9
30°	10.7	16.1	21.4	26.8	32.2	37.5	42.9	48.2
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.



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.

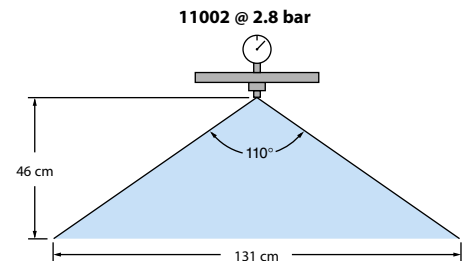
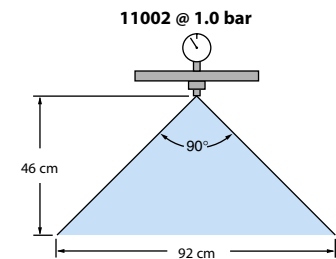
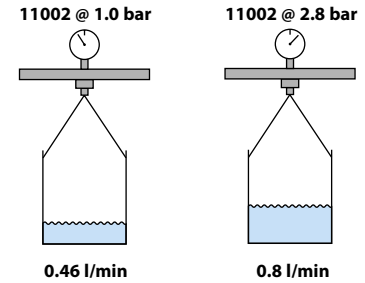
The values given in the tabulation sections of this catalog indicate the most commonly used pressure ranges for the associated spray tips. When information on the performance of spray tips outside of the pressure range given in this catalog is required, contact the Agricultural Division at Spraying Systems Co.®

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 Sprayer Components

Component Number	Typical Pressure Drop (bar) at Various Flow Rates (l/min)								
	10 l/min	18 l/min	26 l/min	30 l/min	34 l/min	38 l/min	56 l/min	68 l/min	120 l/min
AA2 GunJet®	0.14	0.37	0.69		1.1				
AA18 GunJet	0.34	0.90	1.7		2.8				
AA30L GunJet		0.97							
AA43 GunJet		0.69	0.14						
AA143 GunJet		0.06	0.12			0.24	0.54		
AA6B Valve		0.10	0.17	0.24	0.28	0.34	0.79	1.1	
AA17 Valve		0.10	0.17	0.24	0.28	0.34	0.79	1.1	
AA144A Valve		0.10	0.17	0.24	0.28	0.34	0.79	1.1	
AA144A-1-3 Valve				0.34					
AA145 Valve								0.34	
344BEC-24-C Valve									0.34

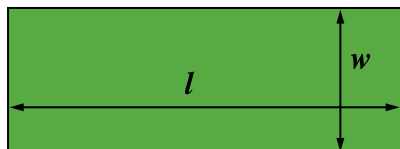
Pressure Drop Through Various Hose Sizes

Flow in l/min	Pressure Drop in 3 m 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

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.

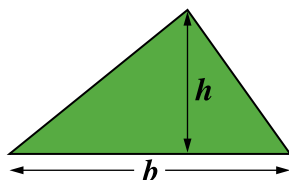
$$\text{Area in hectares} = \frac{\text{Area in square meters}}{10,000 \text{ square meters per hectare}}$$

(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



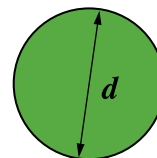
$$\text{Area} = \frac{\text{Base (} b \text{)} \times \text{Height (} h \text{)}}{2}$$

Example:

The base of a corner lot is 120 meters while the height is 50 meters. What is the area of the lot?

$$\begin{aligned}\text{Area} &= \frac{120 \text{ meters} \times 50 \text{ meters}}{2} \\ &= 3,000 \text{ square meters} \\ \text{Area in hectares} &= \frac{3,000 \text{ square meters}}{10,000 \text{ square meters per hectare}} \\ &= 0.30 \text{ hectare}\end{aligned}$$

Circular Areas



$$\text{Area} = \frac{\pi \times \text{Diameter}^2 (d)}{4}$$

$$\pi = 3.14159$$

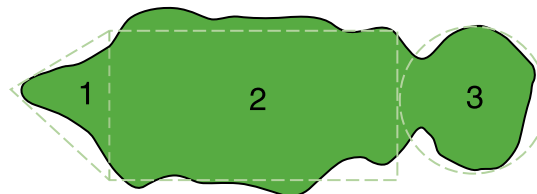
Example:

What is the area of a green that has a diameter of 15 meters?

$$\begin{aligned}\text{Area} &= \frac{\pi \times (15 \text{ meters})^2}{4} = \frac{3.14 \times 2,025}{4} \\ &= 177 \text{ square meters}\end{aligned}$$

$$\begin{aligned}\text{Area in hectares} &= \frac{177 \text{ square meters}}{10,000 \text{ square meters per hectare}} \\ &= 0.018 \text{ hectare}\end{aligned}$$

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.

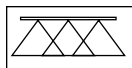
Example:

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.

$$\begin{aligned}\text{Area 1} &= \frac{15 \text{ meters} \times 20 \text{ meters}}{2} = 150 \text{ square meters} \\ \text{Area 2} &= 15 \text{ meters} \times 150 \text{ meters} = 2,250 \text{ square meters} \\ \text{Area 3} &= \frac{3.14 \times (20)^2}{4} = 314 \text{ square meters} \\ \text{Total Area} &= 150 + 2,250 + 314 = 2,714 \text{ square meters} \\ &= \frac{2,714 \text{ square meters}}{10,000 \text{ square meters per hectare}} = 0.27 \text{ hectare}\end{aligned}$$

Sprayer Calibration



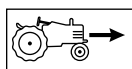
Broadcast Application

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 173 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

$$A = \frac{B+C}{D}$$

The Inputs

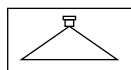
Before spraying, record the following:

EXAMPLE

Nozzle type on your sprayer.	TT11004 Flat
(All nozzles must be identical)	Spray Tip
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.

$$\text{FORMULA: } \text{l/min} = \frac{\text{l/ha} \times \text{km/h} \times \text{W}}{60,000}$$

$$\text{EXAMPLE: } \text{l/min} = \frac{190 \times 10 \times 50}{60,000}$$

$$\text{ANSWER: } 1.58 \text{ l/min}$$

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 174).

Example: (Using above inputs) refer to TeeJet table on page 9 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.

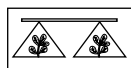
You have now adjusted your sprayer to the proper pressure. It will properly deliver the application rate specified by the chemical manufacturer at your measured sprayer speed.

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:

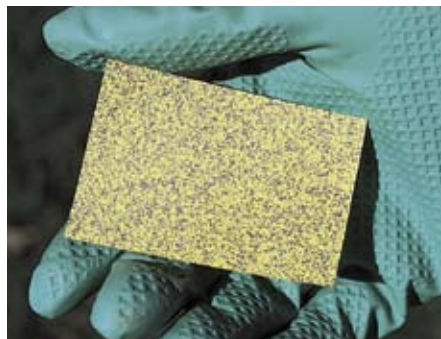
$$W = \text{Sprayed band width or swath width (in cm).}$$

For multiple nozzle directed applications:

$$W = \text{Row spacing (in cm) divided by the number of nozzles per row.}$$

$$A = \frac{B+C}{D}$$

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 write for data sheet 20301; for information on oil sensitive paper write for data sheet 20302.

Water and oil sensitive paper sold by Spraying Systems Co. is manufactured by Syngenta Crop Protection AG.



TeeJet® Tip Tester

The TeeJet Tip Tester helps identify worn spray tips quickly and easily. This handheld flowmeter allows you to check all spray tips for uniform flow rates in minutes. Just attach the adapter over a spray tip and read the approximate flow rate directly from the dual measurement scale. An adapter is provided to fit all types of conventional and quick-attach nozzle caps. Each tip tester is supplied with a TeeJet nozzle cleaning brush in the built-in storage compartment.

How to order:

Specify part number.

Example: 37670



TeeJet Pattern Check

Successful applications depend on a quality pattern from your spray tips and proper operation of your spraying equipment. The TeeJet Pattern Check makes it easy to see if your sprayer is properly set up to provide the even distribution needed for safe and effective pest control. By sliding the pattern check under the sprayer boom while spraying clean water, you get an immediate indication of the spray distribution along the boom.

How to order:

Specify part number.

Example: 37685

Water Sensitive Paper		
Part Number	Paper Size	Quantity/Package
20301-1N	76 mm x 26 mm	50 cards
20301-2N	76 mm x 52 mm	50 cards
20301-3N	500 mm x 26 mm	25 strips

Oil Sensitive Paper		
Part Number	Paper Size	Quantity/Package
20302-1	76 mm x 52 mm	50 cards

How to order:

Specify part number.

Example: 20301-1N

Water Sensitive Paper

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



TeeJet Tip Cleaning Brush

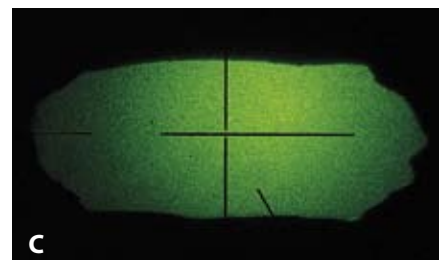
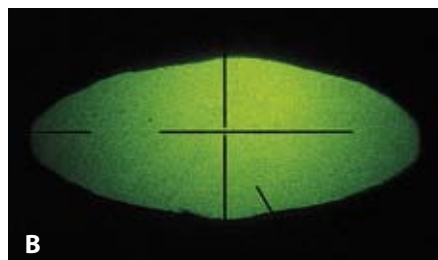
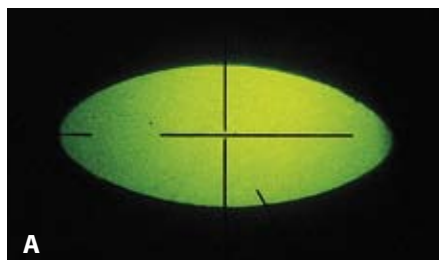


How to order:

Specify part number.

Example: CP20016-NY

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.

An Inside Look at Nozzle Orifice Wear and Damage

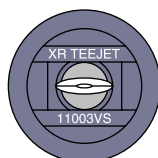
While wear may not be detected when visually inspecting a nozzle, it can be seen when viewed through an optical comparator. The edges of the worn nozzle (B) appear more rounded than the edges of the new nozzle (A). Damage to nozzle (C) was caused by improper cleaning.

The spraying results from these tips can be seen in the illustrations below.

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 177 for more information.

Spray Tip Care is the First Step to Successful Application



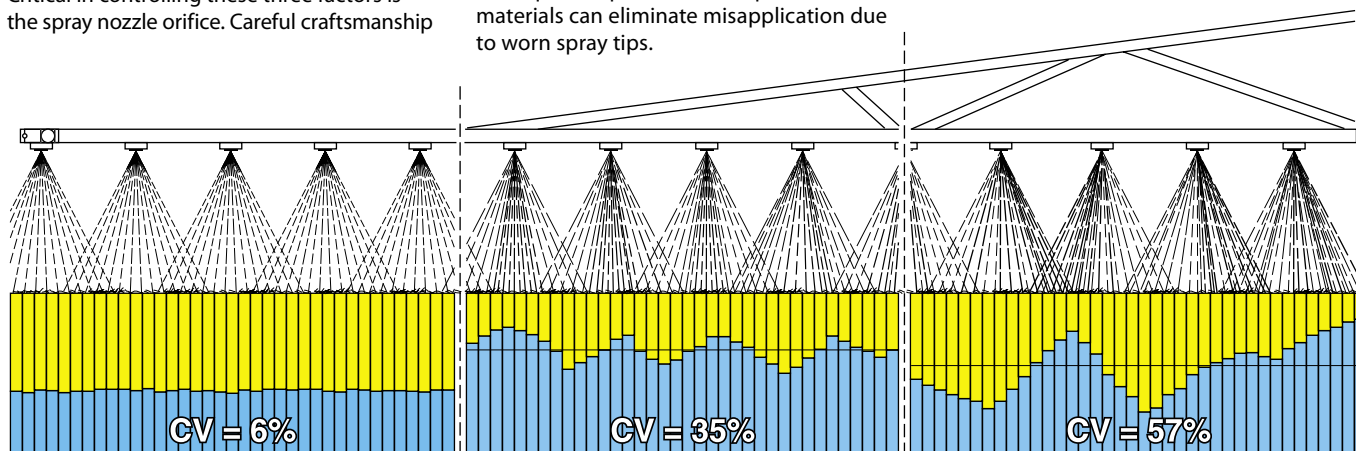
The successful performance of a crop chemical is highly dependent on its proper application as recommended by the chemical manufacturer. Proper selection and operation of spray nozzles are very important steps in accurate chemical application. The volume of spray passing through each nozzle plus the 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

goes into the precision manufacturing of each nozzle orifice. European standards, for example the BBA, require very small flow tolerances of new nozzles (+/-5%) of nominal flow. Many TeeJet nozzle types and sizes are already BBA-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.

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.

Spray Distribution Quality

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. Spraying Systems Co.®, 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
- 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 (very fine, fine, medium, coarse, very coarse,

and extremely 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 182–183.

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 200 microns are considered potential drift contributors. The table below shows several nozzles and their percentage of driftable fines.

Spraying Systems Co.[®] 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 200 Microns	
	1.5 bar	3 bar
XR TeeJet® 110°	14%	34%
XR TeeJet 80°	2%	23%
DG TeeJet® 110°	<1%	20%
DG TeeJet 80°	<1%	16%
TT – Turbo TeeJet®	<1%	12%
TF – Turbo FloodJet®	<1%	<1%
AI TeeJet® 110°	N/A	<1%

*Data obtained by spraying water at room temperature 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 either fine, medium, coarse, or very coarse droplets. Nozzles that produce fine droplets are usually recommended for post-emergence applications, which require excellent coverage on the intended target area. The most common nozzles used in agriculture are those that produce medium-sized droplets. Nozzles producing medium- and

coarse-sized droplets can be used for contact and systemic herbicides, pre-emergence surface-applied herbicides, insecticides and fungicides.

An important point to remember when choosing a spray nozzle that produces a droplet size in one of the six 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.

VF	F
Very Fine	Fine
M	C
Medium	Coarse
VC	XC
Very Coarse	Extremely Coarse

Droplet size classifications are based on BCPC specifications and in accordance with ASAE Standard S-572 at the date of printing. Classifications are subject to change.

Turbo TeeJet® (TT) and Turbo TeeJet® Duo (QJ90-2XTT)

	bar										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TT11001 QJ90-2XTT11001	C	M	M	M	F	F	F	F	F	F	F
TT110015 QJ90-2XTT110015	C	C	M	M	M	M	F	F	F	F	F
TT11002 QJ90-2XTT11002	C	C	C	M	M	M	M	M	M	M	F
TT110025 QJ90-2XTT110025	VC	C	C	M	M	M	M	M	M	M	M
TT11003 QJ90-2XTT11003	VC	C	C	C	C	M	M	M	M	M	M
TT11004 QJ90-2XTT11004	XC	VC	C	C	C	C	C	C	M	M	M
TT11005 QJ90-2XTT11005	XC	VC	VC	VC	C	C	C	C	C	M	M
TT11006 QJ90-2XTT11006	XC	VC	VC	VC	C	C	C	C	C	C	M
TT11008 QJ90-2XTT11008	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	VC	VC	VC	VC	C	C	C	C	C	C	C	C
AI11002	VC	VC	VC	VC	VC	C	C	C	C	C	C	C
AI110025	XC	VC	VC	VC	VC	VC	VC	C	C	C	C	C
AI11003	XC	XC	VC	VC	VC	VC	VC	VC	C	C	C	C
AI11004	XC	XC	VC	VC	VC	VC	VC	VC	VC	C	C	C
AI11005	XC	XC	XC	VC	VC	VC	VC	VC	VC	C	C	C
AI11006	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	C	C
AI11008	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	C	C
AI11010	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	C

Turbo TwinJet® (TTJ60)

	bar										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TTJ60-11002	VC	C	C	C	C	M	M	M	M	M	M
TTJ60-110025	XC	VC	C	C	C	C	C	C	M	M	M
TTJ60-11003	XC	VC	C	C	C	C	C	C	C	M	M
TTJ60-11004	XC	VC	C	C	C	C	C	C	C	C	M
TTJ60-11005	XC	VC	C	C	C	C	C	C	C	C	C
TTJ60-11006	XC	XC	VC	C	C	C	C	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	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI11002	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI110025	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI11003	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI11004	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI11005	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC
TTI11006	XC	XC	XC	XC	XC	XC	XC	XC	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

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				
	2	3	3.5	4	4.5
1/4TTJ02-VS	XC	XC	XC	XC	XC
1/4TTJ04-VS	XC	XC	XC	XC	XC
1/4TTJ05-VS	XC	XC	XC	XC	XC
1/4TTJ06-VS	XC	XC	XC	XC	XC
1/4TTJ08-VS	XC	XC	XC	XC	XC
1/4TTJ10-VS	XC	XC	XC	XC	XC
1/4TTJ15-VS	XC	XC	XC	XC	XC

Turbo FloodJet® (TF)

	bar				
	1	1.5	2	2.5	3
TF-2	XC	XC	XC	XC	XC
TF-2.5	XC	XC	XC	XC	XC
TF-3	XC	XC	XC	XC	XC
TF-4	XC	XC	XC	XC	XC
TF-5	XC	XC	XC	XC	XC
TF-7.5	XC	XC	XC	XC	XC
TF-10	XC	XC	XC	XC	XC

DG TwinJet® (DG-TJ60)

	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 µm 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 vortexes 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, 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. This rating is related to the comparison of the BCPC reference nozzle capacity of 03 at 3 bar.

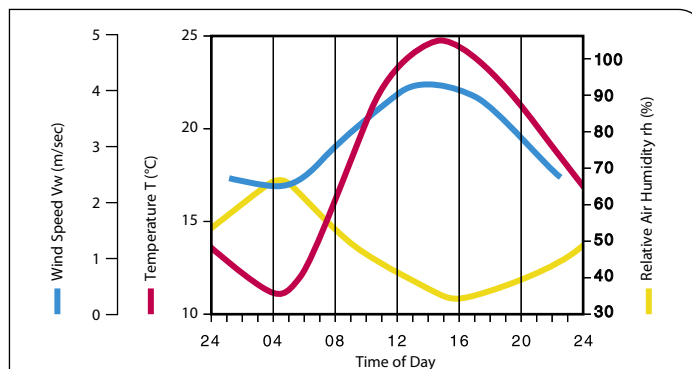


Figure 2. Development of wind velocity, air temperature and relative air humidity (example). From: Malberg

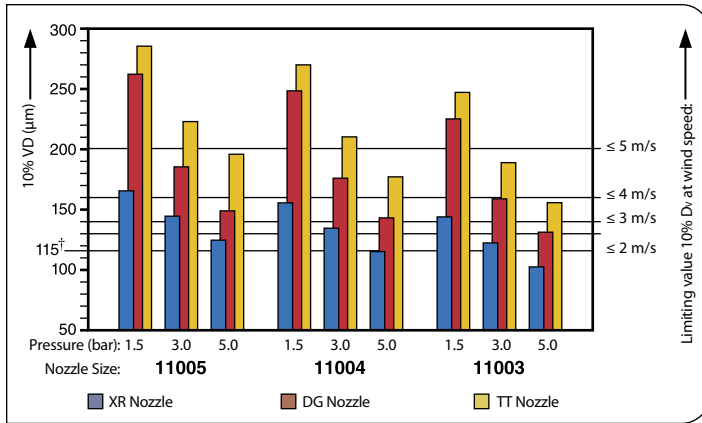


Figure 3.
10% D_v for XR, DG and TT nozzles with lower limits of 10% D_v for various wind speeds.

†10% D_v of the XR11002 at 2.5 bar.

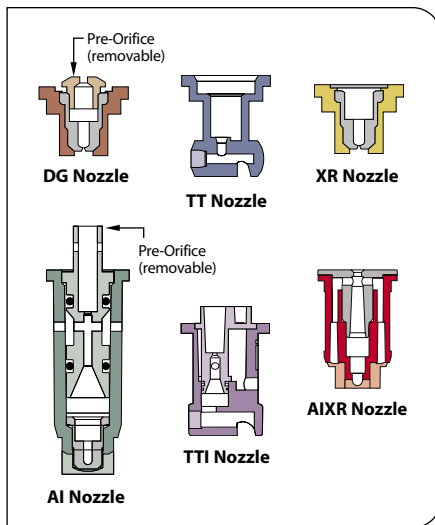


Figure 4. XR, DG, TT, TTI, AI and AIXR Nozzles (section).

Nozzles for Spray Drift Control

Drift potential can be minimized even when it is necessary to use small size nozzles by selecting the appropriate style. Nozzles such as the Turbo TeeJet® (TT), Air Induction TeeJet® (AI) and the Drift Guard TeeJet® (DG) produce medium to coarse sprays even in the smaller sizes. Large size droplets are much less susceptible to drift, but in some cases target coverage may be reduced due to a reduction in the number of drops. This needs to be taken into account, especially when using contact crop protection chemicals.

Wide angle flat spray nozzles with pre-orifice technology can achieve a larger drop size range at equal pressures without a reduction in flow rate. The DG, AI, TT, TTI, and AIXR incorporate pre-orifice technology, which performs the primary flow metering function. The larger exit orifice provides secondary metering and pattern formation (see Figure 4).

Venturi-type nozzles, such as the AI, TTI, and AIXR, use a pre-orifice to create a high-velocity liquid stream and then draw air into the stream through a side opening. This mixture of air and liquid is then discharged at a low exit velocity thus creating very coarse droplets with air inclusion. However, air-filled droplets only occur with chemicals containing a sufficient concentration of surfactants.

Figure 5 demonstrates the difference in droplet sizes between the TeeJet XR, DG and TT nozzles on the basis of D_{v0.5}. From this figure, the following conclusions can be drawn:

- The DG nozzle in comparison to the XR achieves 30% higher D_{v0.5} values. However, as the pressure increases, the percentage difference decreases.
- The TT nozzle achieves about 10–20% higher D_{v0.5} values than the DG at equal pressures.
- The D_{v0.5} values for the TT nozzle at 1.0 bar pressure is about 70% higher than the XR.

Summary

Drift can be managed successfully with the right knowledge of the equipment and the factors influencing drift. Every application must be balanced between managing drift and maintaining effective crop protection. Below is a list of factors that must be considered to ensure a safe, accurate spray application.

- Spray Pressure
- Nozzle Size
- Application Rate
- Spray Nozzle Height
- Operating Speed
- Wind Velocity
- Air Temperature and Relative Humidity
- Buffer Zones (safe distances from sensitive areas)
- Instructions from the Crop Protection Chemical Manufacturer

Having taken into account all the variables that can have an impact on the drift potential, it may still be necessary to consider the use of drift control nozzles, such as the AI, TTI, or AIXR.

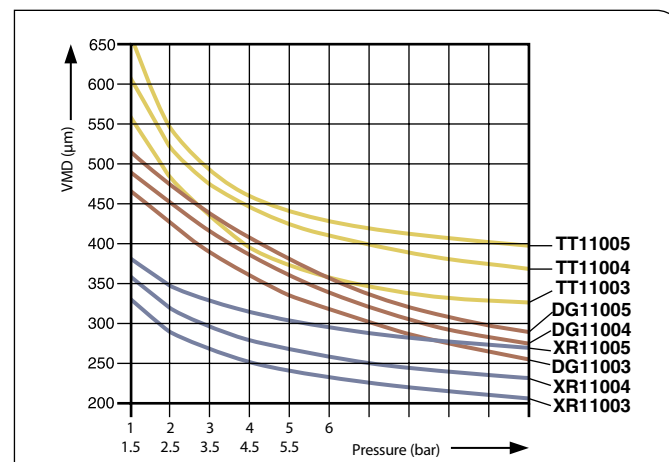


Figure 5.
VMD achieved by XR, DG and TT nozzles relative to pressure.

Measurement conditions:
– Laser-Doppler Test
– Continuous PDPA measurement over entire flat spray width (PDPA)
– Distance 50 cm (measured along spray tip axis)
– Water temperature 21°C

Drift Measurement Systems

In an effort to meet the requirements of buffer zone reductions in certain European countries, Spraying Systems Co.[®] conducts rigorous distribution and drift testing of its line of TeeJet[®] nozzles by prominent European research institutions. The Silsoe Research

Institute in the United Kingdom and the Federal Biological Research Center for Agriculture and Forestry in Germany are two of the independent testing institutions commonly used by Spraying Systems Co.

¹Local Environment Risk Assessments for Pesticides (LERAP)

LERAP requirements relate to the ability to reduce the width of a buffer zone defined to protect surface water from contamination by plant protection products when the results from a local risk assessment indicate that it is safe to do so. One of the factors that is taken into account as part of the LERAP assessment is the use of technical (operational and engineering) controls to reduce the amount of spray drift produced during an application that would be deposited within the local environment. Spray application systems that have been shown to have such a drift-reducing characteristic will be awarded a "LERAP-Low Drift Star Rating," which can then be used in the local drift risk assessment procedures.

Star ratings are awarded by comparing the levels of drift from TeeJet spray tips with corresponding drift levels from a reference system. Drift assessment is conducted in a wind tunnel using water and a 0.1% solution of non-ionic surfactant for both the reference and test nozzles at a height of 209 (0.5 m).

The TeeJet spray tips gaining accreditation were tested under the prescribed protocol by Silsoe Research Institute, Wrest Park, Silsoe, Bedford, MK45 4HS UK, and then sent on to be accredited by another approved laboratory, in this case Central Science Laboratory, Sand Hutton, York, YO41 1LZ UK.

Full details about LERAP and its accreditation procedures can be obtained from http://www.pesticides.gov.uk/fg_leraps.asp.

Federal Biological Research Center for Agriculture and Forestry (BBA)

The Department for Plant Protection Products and Application Techniques, a Department of the German BBA.

² In Germany, the buffer zones in arable crops, orchards, vineyards or hops are dependent on application conditions. A special system measuring the Drift Potential Index (DXI) takes into account the type of adjacent water body and its bank vegetation. The application technique used has the main influence on the buffer zone width.

With the application for certification as loss reducing equipment, the sprayer manufacturer has to supply test results that prove drift reduction. In the case of ordinary boom sprayers, measurements in a wind tunnel on single nozzles are sufficient. These tests are done by the BBA following a special protocol.

The TeeJet spray tips gaining accreditation were tested under the prescribed protocol by The Department for Plant Protection Products and Application Techniques, Biologische Bundesanstalt für Land-und Forstwirtschaft, Messeweg 11/12, D – 38104 Braunschweig, Germany. Full details about BBA and its accreditation procedures can be obtained from <http://www.BBA.de>.

² Herbst, A. 2001. A Method to Determine Spray Drift Potential from Nozzles and its Link to Buffer Zone Restrictions. ASAE Meeting Paper No. 01-1047. St. Joseph, Mich.: ASAE

Table 1
Definition of LERAP-Low Drift Star Ratings

Terminology	Drift Performance (measurable as ground deposit)
No LERAP-Low Drift rating	Drift levels greater than 75% of that from reference system.
LERAP-Low Drift-one star*	Drift levels greater than 50% and up to 75% of that from reference system.
LERAP-Low Drift-two star**	Drift levels greater than 25% and up to 50% of that from reference system.
LERAP-Low Drift-three star***	Drift levels up to 25% of that from reference system.

Disclaimer: This information is subject to change.

¹ Pesticides Safety Directorate. 07 August 2002. http://www.bba.bund.de/cln_045/DE/Home/homepage_node.html_nnn=true

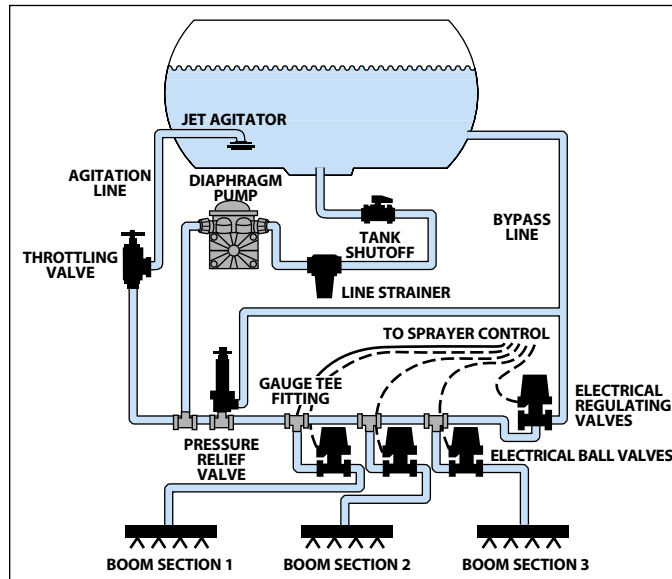


Plumbing Diagrams

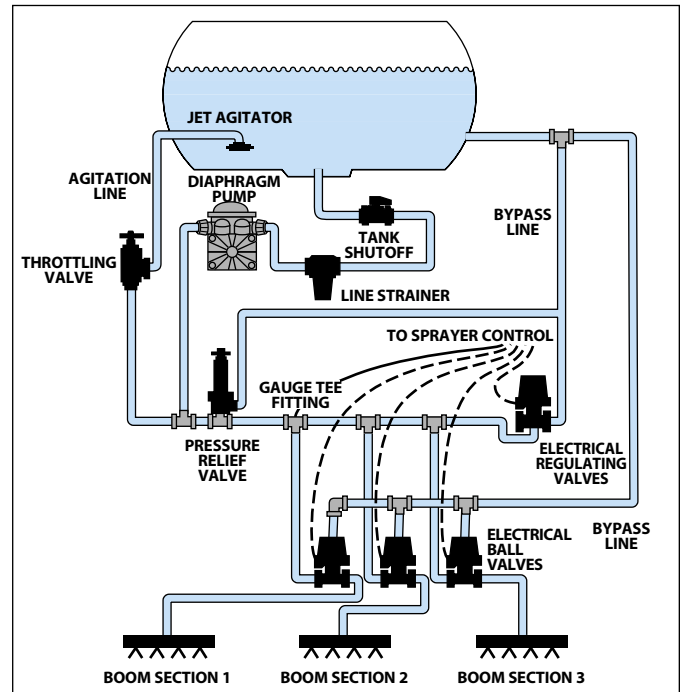
The following diagrams have been developed to serve as a guideline for plumbing agricultural sprayers. Similar manual valves may be substituted for electric valves. However, the sequence in which these valves occur should remain the same. Note that one of the most common causes of premature valve failure is improper installation.

Positive Displacement Pump

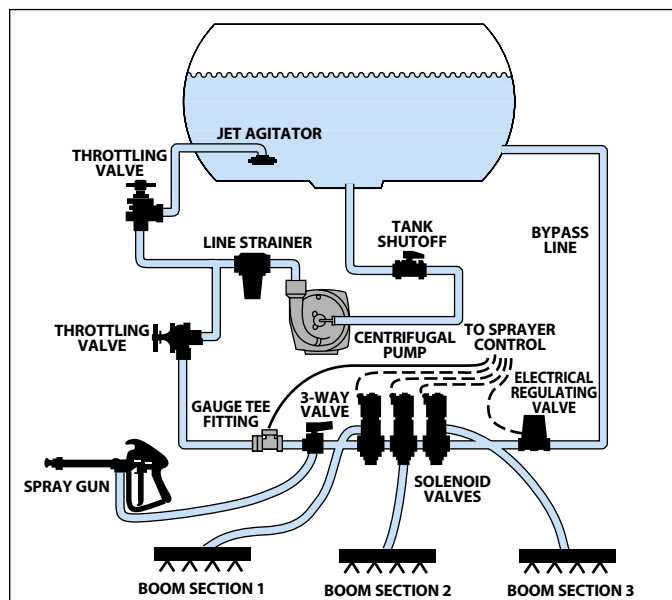
Piston, roller and diaphragm pumps are all types of positive displacement pumps. This means that pump output is proportional to speed and virtually independent of pressure. A key component in a positive displacement system is the pressure relief valve. Proper placement and sizing of the pressure relief 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)



Two-Way Plumbing Diagram (Non-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.

$$A = \frac{B+C}{D}$$

UNITED STATES

**COLORADO, MINNESOTA, NEW MEXICO,
NORTH DAKOTA, OKLAHOMA, SOUTH
DAKOTA, TEXAS, WISCONSIN, WYOMING**

TeeJet Sioux Falls

P.O. Box 1145
Sioux Falls, SD 57101-1145
Sales Related Inquiries: (605) 338-5633
Electronics and Guidance Technical Support:
(217) 747-0235
Nozzles and Accessories Technical Support:
(630) 665-5983
E-mail: info.sioxfalls@teejet.com

**ARIZONA, CALIFORNIA, HAWAII, IDAHO,
NEVADA, OREGON, UTAH, WASHINGTON**

TeeJet West

North Ave. at Schmale Road
P.O. Box 7900
Wheaton, IL 60189-7900
Sales Related Inquiries: (630) 517-1387
Electronics and Guidance Technical Support:
(217) 747-0235
Nozzles and Accessories Technical Support:
(630) 665-5983
E-mail: info.west@teejet.com

**ALABAMA, ARKANSAS, FLORIDA,
GEORGIA, LOUISIANA, MISSISSIPPI,
SOUTH CAROLINA, TENNESSEE**

TeeJet Memphis

P.O. Box 997
Collierville, TN 38027
Sales Related Inquiries: (901) 850-7639
Electronics and Guidance Technical Support:
(217) 747-0235
Nozzles and Accessories Technical Support:
(630) 665-5983
E-mail: info.memphis@teejet.com

ALASKA, MONTANA

TeeJet Saskatoon

P.O. Box 698
Langham, Saskatchewan
Canada S0K 2L0
Sales Related Inquiries: (306) 283-9277
Electronics and Guidance Technical Support:
(217) 747-0235
Nozzles and Accessories Technical Support:
(630) 665-5983
E-mail: info.saskatoon@teejet.com

**CONNECTICUT, DELAWARE, DISTRICT OF
COLUMBIA, INDIANA, KENTUCKY, MAINE,
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NEW HAMPSHIRE, NEW JERSEY, NEW
YORK, NORTH CAROLINA, OHIO,
PENNSYLVANIA, RHODE ISLAND,
VERMONT, VIRGINIA, WEST VIRGINIA**

TeeJet Harrisburg

124A West Harrisburg Street
Dillsburg, PA 17019
Sales and Technical Support: (717) 432-7222
Email: info.harrisburg@teejet.com

**ILLINOIS, IOWA, KANSAS,
MISSOURI, NEBRASKA**

TeeJet Des Moines

3062 104th Street
Urbandale, IA 50322
Sales and Technical Support: (515) 270-8415
Email: info.desmoines@teejet.com

CANADA

**ALBERTA, BRITISH COLUMBIA, MANITOBA,
SASKATCHEWAN**

TeeJet Saskatoon

P.O. Box 698
Langham, Saskatchewan
Canada S0K 2L0
Sales Related Inquiries: (306) 283-9277
Electronics and Guidance Technical Support:
(217) 747-0235
Nozzles and Accessories Technical Support:
(630) 665-5983
E-mail: info.saskatoon@teejet.com

**NEW BRUNSWICK, NEWFOUNDLAND,
NOVA SCOTIA, ONTARIO, PRINCE
EDWARD ISLAND, QUÉBEC**

TeeJet Harrisburg

124A West Harrisburg Street
Dillsburg, PA 17019
Sales and Technical Support: (717) 432-7222
Email: info.harrisburg@teejet.com



MEXICO, CENTRAL AMERICA & THE CARIBBEAN

BELIZE, COSTA RICA, DOMINICAN
REPUBLIC, EL SALVADOR, GUATEMALA,
HAITI, HONDURAS, JAMAICA, MEXICO,
NICARAGUA, PANAMA, PUERTO RICO,
THE VIRGIN ISLANDS

TeeJet Mexico, Central America, The Caribbean

Acceso B No. 102
Parque Industrial Jurica
76120 Queretaro, Qro.
México
Sales and Technical Support:
(52) 442-218-4571
Fax: (52) 442-218-2480
Email: info.mexico@teejet.com

SOUTH AMERICA

ARGENTINA, BOLIVIA, BRAZIL, CHILE,
COLOMBIA, ECUADOR, FRENCH GUYANA,
GUYANA, PARAGUAY, PERU, SURINAME,
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TeeJet South America

Avenida João Paulo Ablas, nº 287
CEP: 06711-250
Cotia - São Paulo - Brazil
Sales and Technical Support:
55-11-4612-0049
Fax: 55-11-4612-9372
Email: info.southamerica@teejet.com

EUROPE

ALBANIA, BOSNIA & HERZEGOVINA, BULGARIA, CROATIA, GREENLAND, ICELAND, IRELAND, MACEDONIA, THE NETHERLANDS, SERBIA, MONTENEGRO, SLOVENIA, UNITED KINGDOM

TeeJet London

Headley House, Headley Road
Grayshott, Hindhead
Surrey GU26 6UH
United Kingdom

Sales and Technical Support:
+44 (0) 1428 608888

Fax: +44 (0) 1428 608488

Email: info.london@teejet.com

DENMARK, FINLAND, NORWAY, SWEDEN

TeeJet Aabybro

Mølhavevej 2
DK 9440 Aabybro
Denmark

Sales and Technical Support:
+45 96 96 25 00

Fax: +45 96 96 25 01

Email: info.aabybro@teejet.com

ANDORRA, BELGIUM, FRANCE, GREECE, LICHENSTEIN, LUXEMBOURG, MONACO, SWITZERLAND

TeeJet Orleans

431 Rue de la Bergeresse
45160 Olivet (Orleans)
France

Sales and Technical Support:
+33 (0) 238 697070

Fax: +33 (0) 238 697071

Email: info.orleans@teejet.com

ITALY, PORTUGAL, SPAIN

TeeJet Girona

C/ Alfons XII Num. 212, Atico G
17820 Banyoles
Spain

Sales and Technical Support:
+34 (0) 687 77 19 56

Fax: +34 (0) 972 58 32 91

Email: info.girona@teejet.com

AUSTRIA, GEORGIAN, GERMANY, KAZAKHSTAN, RUSSIA, TURKMENISTAN, UZBEKISTAN

TeeJet Bomlitz

August-Wolff-Strasse 16
D-29699 Bomlitz
Germany

Sales and Technical Support:
+49 (0) 5161 4816-0

Fax: +49 (0) 5161 4816 - 16

E-mail: info.bomlitz@teejet.com

BELARUS, CZECH REPUBLIC, ESTONIA, HUNGARY, LATVIA, LITHUANIA, MOLDOVA, POLAND, ROMANIA, SLOVAKIA, UKRAINE

TeeJet Poznan

ul. Reymonta 6
62-090 Rokietnica k. Poznan
Poland

Sales and Technical Support:
+44 (0) 1428 608888

Fax: +44 (0) 1428 608488

Email: info.poznan@teejet.com

MIDDLE EAST

JORDAN, LEBANON, SAUDI ARABIA, SYRIA

TeeJet Girona

C/ Alfons XII Num. 212, Atico G
17820 Banyoles
Spain

Sales and Technical Support:
+34 (0) 687 77 19 56

Fax: +34 (0) 972 58 32 91

Email: info.girona@teejet.com

ISRAEL, TURKEY

TeeJet Orleans

431 Rue de la Bergeresse
45160 Olivet (Orleans)
France

Sales and Technical Support:
+33 (0) 238 697070

Fax: +33 (0) 238 69 70 71

Email: info.orleans@teejet.com

AFRICA

ALGERIA, EGYPT, LIBYA, MOROCCO, TUNISIA

TeeJet Girona

C/ Alfons XII Num. 212, Atico G
17820 Banyoles
Spain

Sales and Technical Support:
+34 (0) 687 77 19 56

Fax: +34 (0) 972 58 32 91

Email: info.girona@teejet.com

SOUTH AFRICA

Monitor Engineering Co. Pty. Ltd.

132 Main Reef Road, Benrose
Johannesburg, 2094 South Africa

Sales and Technical Support: 27 11 618 3860

Fax: 27 11 614 0021

Email: info.teejet@icon.co.za

ASIA-PACIFIC

CHINA

Spraying Systems (Shanghai) Co., Ltd.

21# Shulin Road
(Songjiang Industry Zone New East Part)
Songjiang District, 201611 Shanghai, China
Sales and Technical Support:
86 139 4567 1289
Fax: 86 21 5046 1043
Email: info.shanghai@teejet.com

HONG KONG

Spraying Systems Co. Ltd.

Flat B3, 3/Floor, Tai Cheung Factory Building
3 Wing Ming Street, Cheung Sha Wan
Kowloon, Hong Kong
Sales and Technical Support: (852) 2305-2818
Fax: 85 22 7547786
E-Mail : info.TeeJet@spray.com.hk

JAPAN

Spraying Systems Japan Co. (Head Office)

TK Gotanda Building 8F
10-18, Higashi-Gotanda 5-Chome
Shinagawa-ku Tokyo, Japan 141-0022
Sales and Technical Support: 81 3 34456031
Fax: 81 3 34427494
Email: info.teejet@spray.co.jp

Spraying Systems Japan Co. (Osaka Office)

3-8 1-Chome, Nagatanaka
Higashi-Osaka City Osaka, Japan 577-0013
Sales and Technical Support: 81 6 784 2700
Fax: 81 6 784 8866
Email: info.teejet@spray.co.jp

Spraying Systems Far East Co.

2-4 Midoridaira
Sosa-City Chiba Prefecture, Japan 289-2131
Sales and Technical Support: 81 479 73 3157
Fax: 81 479 73 6671
Email: info.teejet@spray.co.jp

KOREA

Spraying Systems Co. Korea

Room No. 112, Namdong Apartment Factory
151BL-6L, 722, Kojan-Dong, Namdong-Gu
Incheon City, Korea
Sales and Technical Support:
82-32-821-5633,9
Fax: 82-32-811-6629
Email: info.teejet@spray.co.kr

SINGAPORE

Spraying Systems Co. (Singapore) Pte Ltd

55 Toh Guan Road East
#06-02 Uni-Tech Centre
Singapore 608601
Sales and Technical Support: 65 – 67786911
Fax: 656 778 2935
Email: info.teejet@spraying.com.sg

TAIWAN

Spraying Systems (Taiwan) Ltd.

P.O. Box 46-55
11th Floor, Fortune Building
52, Sec. 2, Chang An East Road
Taipei 104, Taiwan
Sales and Technical Support: 886 2 521 0012
Fax: 886 2 5215295
Email: info.teejet@spraytwn.com.tw

AUSTRALIA & OCEANIA

AUSTRALIA, PAPUA NEW GUINEA, NEW ZEALAND

TeeJet Australasia Pty. Ltd.

P.O. Box 8128
65 West Fyans St
Newtown, Victoria 3220
Australia
Sales and Technical Support: 61 35 223 3020
Fax: (61) 3 5223 3015
Email: info.australia@teejet.com

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Why *TeeJet*[®]

is the Most Trusted Name in Spray Products and Application Control Systems

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. Our control systems date back to some of the earliest in-field uses of electronics in agriculture. This experience in the fields of spraying, fertilizing, and seeding means nobody is better suited to provide quality products and technical solutions for your business.

Innovative, industry-leading products are what you expect from TeeJet. Many of our best solutions can be found in this catalog; however, there is more to our company than great products. We also possess a wealth of information about applications and technologies that don't appear as cataloged products.

Here are some examples:

Dynamic weighing

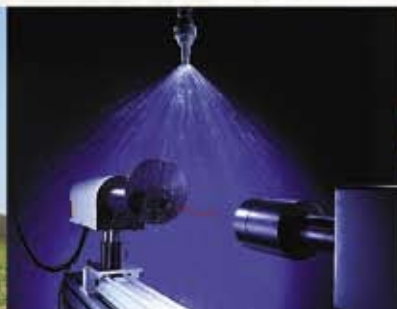
Our innovative solution to measure material flow in real-time ensures the most accurate application possible and provides direct benefits to the grower and to the environment.

Spray Boom Leveling

Today's field sprayers use increasingly wide spray booms to maximize efficiency and minimize crop damage. TeeJet systems manage the height of these ever-growing spray booms, reducing operator stress and workload, while ensuring effective spray applications.

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Around the world technical organizations are working to help establish standards and practices to keep sprayed materials on target. Our experts take leadership roles in these groups, helping to form uniform standards for safe and effective crop protection.



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TeeJet Technologies

Wheaton Facility

P.O. Box 7900
Wheaton, Illinois
60189-7900 USA

Springfield Facility

1801 Business Park Drive
Springfield, Illinois
62703 USA

Aabybro Facility

Mølhavevej 2
DK 9440 Aabybro
Denmark

www.teejet.com



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