65 GALLON OWNERS MANUAL

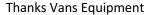
Since VAN'S EQUIPMENT'S beginnings we have used a generic owners manual. It was just to costly to have printed and keep on hand owner manuals specific to each size and type sprayer we manufacture.

We now have the technology in house to create sprayer specific manuals and to print them only as needed. We think we have made a good beginning, but these manuals are still in the development stage. At this point we would appreciate the input of our end user customer and our dealers as to how we can make these manuals more usefull and user friendly.

This is the prototype manual. Please look over the manual and give us your input.

CALL VANS EQUIPMENT AT 1-800-765-1101 AND ASK FOR CRAIG

We appreciate your input on these manuals.











VAN'S EQUIPMENT BUILT FOR FARMING INTEGRITY

WHEN SELECTING EQUIPMENT FOR FARMING THE NAME VAN'S means availability, reliability, and proven superiority. Maintaining a close association with farming customers has resulted in equipment design and manufacturing philosophy that reflects the exacting requirements of our customers.

Van's Equipment Company, Inc. appreciates your purchase of a new spray unit. This unit, is designed to give years of service with proper care. The following pages will be helpful in set-up and maintenance of your new unit.

PLEASE READ THIS MANUAL CAREFULLY BEFORE INITIAL START-UP IS ATTEMPTED.

WE APPRECIATE YOU AND YOUR BUSINESS

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65 GALLON 3-POINT HITCH

The new 65 gallon 3 PH row crop sprayer from Van's was designed to beat high prices without the sacrifice of quality. The compact pipe frame and the vertical 65 gallon poly tank with fold-up manual booms gives you a sprayer with easy maneuverability and long lasting dependability. This unit comes to you with 4 or 6 row fold-up booms, completely field ready.

65 GALLON 3 PH 8 WAY BOOM CONTROL

	4 ROW FOLDING	6 ROW FOLDING	HANDGUN ONLY
6 ROLLER	L6514	L6515	L65CS11

Shipping wt. 220 lbs.

Standard Features include:

- 1) 65 Gallon Upright Polyethylene Tank
- 2) 5" Fillwell
- 3) 80" Uprights for Higher Crop Clearance
- 4) Manual Folding Booms
- 5) Choice of 4 or 6 Row Breakaway Booms
- 6 Roller Pump
- 7) Manual Boom Control Valve (8 Way on 6 Row, Single Acting on 4 Row)
- 8) Full Set 8003 Tips, Caps & Strainers
- 9) Van's Exclusive 5 Year Structural Warranty
- 10) Fully Assembled & Factory Tested

Options:	Part No.
1) AA43L-6 Hand Gun	
w/Hose Rack	H11F
2) Boomless Nozzle	BNN2
3) Brass Plumbing (4 Row)	
4) Brass Plumbing (6 Row)	
5) Boomless Nozzle with H/G	BNNA



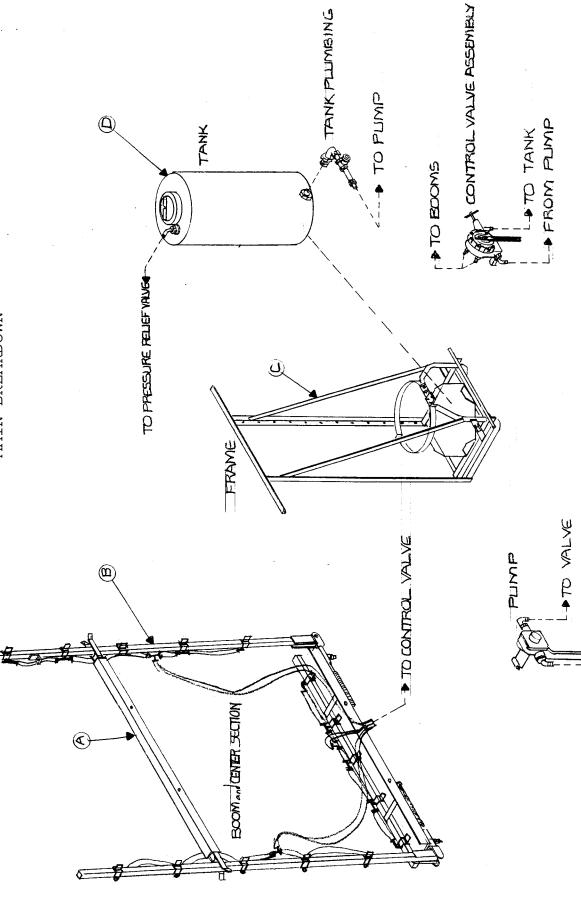
Boomless Nozzle Only

6 Roller Pump	L65KLC
6 Roller Pump w/Hand Gun.	L65KLCB

(PRICES SUBJECT TO CHANGE WITHOUT NOTICE)







A....Transport Bracket, (B55 4 Row, B66 6 Row)

+ FROM TANK

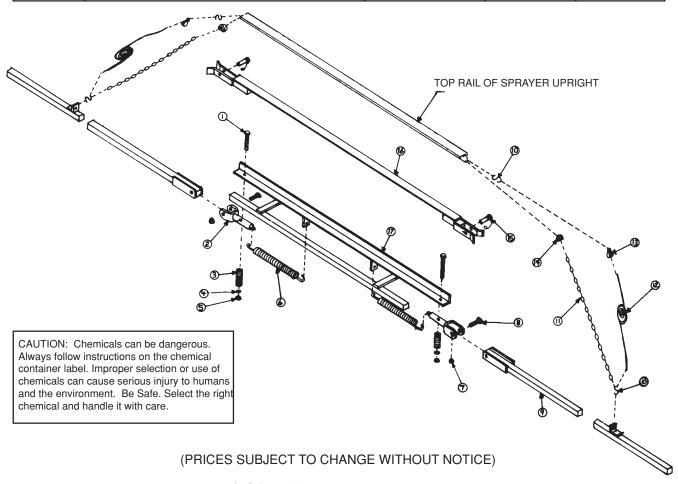
B....Boom & Center Section, (B5 4 Row, B6 6 Row)

C...Frame (L65)

D....Tank (41347)

65 GALLON CENTER SECTION 4 Row and 6 Row **BREAKDOWN**

REF. NO.	DESCRIPTION	PART NO.	QUANTITY	PRICE EA.
1	1/2" x 4 1/2" Bolt	CS12412C	2	1.44
2	Economy Boom Yoke	JD102	2	21.38
3	Compression Spring	1-25	2	19.37
4	1/2" Flat Washer	FW12	2	.15
5	1/2" Hex Nut	HN12C	2	.26
6	Tension Spring	75-7	2	6.44
7	1/2" Lock Nut	HLN12C	2	.45
8	1/2" x 3" Bolt	CS12300C	2	.91
9A	4 Row Outer Boom	B8C	1	88.00
9	6 Row Outer Boom	B8A	1	101.00
10	#43 S Hooks	SH218	2	1.10
11	2/0 Weld Chain	2/0 CHAIN	20 FT.	8.80
12	Nylon Rope	8SP-1/4	12 FT.	2.88
13	Single Eye Pulley	87-209	2	4.13
14	Clevis Assembly	00948	2	1.98
15	PTO Pin	00276	2	1.28
16	4 Row Center Section Top Rail	B55	1	44.00
16A	6 Row Center Section Top Rail	B66	1	56.00
17	4 Row Center Section	B5	1	205.00
17A	6 Row Center Section	B6	1	219.00



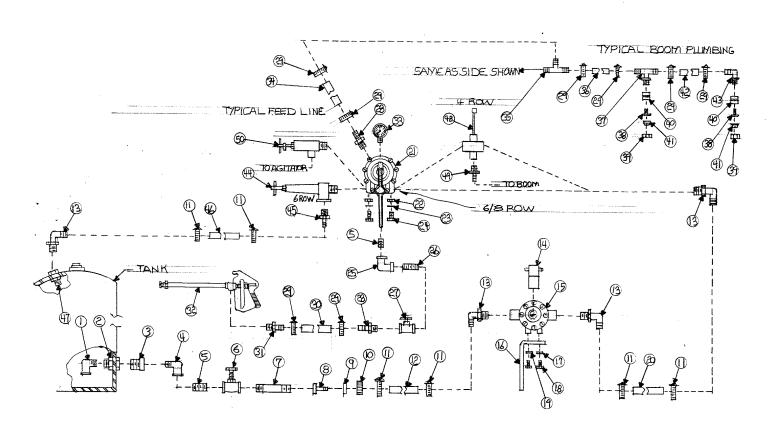




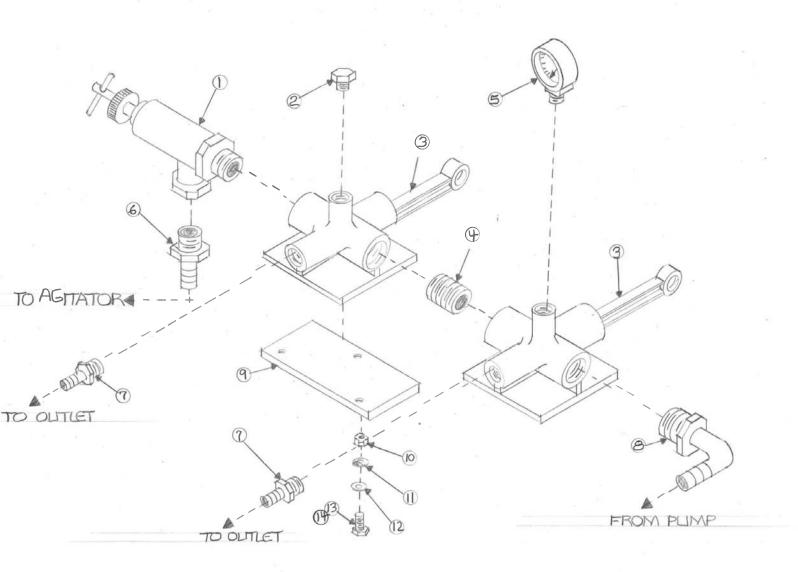
L65 Boom Sprayer

ITEM NO.	DESCRIPTION	PART NO.
1	Street elbow 1 1/4" nylon	SE114
2	Tank fitting 1 1/4" poly	60403
3	Reducer bushing 1 1/4"mpt x 3/4"fpt nylon	RB11434
4	Street elbow 3/4" nylon	SE34
5	Nipple 3/4" x close galvanized	GN341.5
6	Gate valve 3/4" fpt brass	34BGV
7	Strainer 3/4"fpt 50 mesh poly	RVF1212PE40P
8	Flat seat swivel x 1/2" barb nylon(sprayer before 2014)	C12
9	Washer 1"OD x 1/2" ID poly(sprayer before 2014)	W405
10	Nut 3/4" garden hose swivel nylon (sprayer before 2014)	B34
11	Hose clamp 1/2"	8H
12	Hose black ag. 1/2"	10031730
13	Elbow 3/4"mpt x 1/2" barb 90 nylon	EL3412
14	Pump coupler 540rpm 1 3/8"	1321-0006
15	Pump 6 roler	6500C
16	Pump stabilizer	PS
17	Lock washer 5/16"	LW516
18	Bolt 5/16" x 3/4"	CS51634C
19	Flat washer 5/16"	FW516
20	Hose black ag. 1/2"	10031720
21	Control valve	AA17L
22	Nut 3/8"	HN38C
23	Lock washer 3/8"	LW38
24	Bolt 3/8" x 1 1/4"	CS38114c
25	Elbow 3/4"fpt galvanized	GEL3490
26	Nipple 3/4" x 5" galvanized	GN345
27	Elbow 3/4"fpt galvanized	GEL3490
28	Hose shank 3/4"mpt x 1/2" barb	A3412
29	Hose clamp 3/8'	6H
30	Hose black ag. 3/8"	10031720
31	Hose shank 1/2"mpt x 3/8" barb	A1238
32	Spray gun	AA43LA-AL6
33	Pressure gauge 0-160 psi dry	SG-160
34	Hose black ag. 3/8"	10031720
35	Insert tee 3/8" nylon	T38
36	Hose black ag 3/8"	10031720
37	Hose connector 3/8" tee x barb	3NTT38
38	Tip strainer 50 mesh	8079-PP-50
39	Tip cap	CP8027-NYB
40	Boom clamp 1" square	AA111SQ-1
41	Tip(standard)	TP8003
42	Hose black ag 3/8"	10031720
43	Hose connector 3/8" elbow x barb	3NTL38
44	Pressure relief valve	13895-6
45	Hose shank 3/4"mpt x 1/2" barb	A3412
46	Hose red ag	3204-0410

47	Tank fitting 3/4" poly	60401
48	Control valve	AA6B
49	Hose shank 1/2"mpt x 3/8" barb	A1238
50	Preesure relief valve	3/48460



ITEM NO.	DESCRIPTION	PART NO.
1	Pressure Relief Valve	13895-6
2	Plug 1/4" Nylon	F14
3	Control Valve	AA6B
4	Nipple 3/4" x Close Nylon	M34
5	Pressure Gauge 0-160 PSI Dry	SG-160
6	Hose Shank 3/4" MPT x 1/2" Barb Nylon	A3412
7	Hose Shank 1/2" MPT x 3/8" Barb Nylon	A1238
8	Elbow 3/4" MPT x 1/2" 90 Barb Nylon	EL3412
9	Mounting Plate	VS6B2
10	Nut 1/4"	HN14C
11	Flat Washer 1/4"	FW14
12	Lock Washer	LW14
13	Bolt 1/4" x 1"	CS14100C
14	Bolt 1/4" x 1 1/4"	CS14114C



MOUNTING AND ASSEMBLY INSTRUCTION

FOR 3 POINT HITCH SPRAYERS 200 AND 300 GALLON 12 ROW

Mount the sprayer on tractor and use top link to level frame. Use the lift arm adjustments to level tank and frame laterally. Instal lift arm stabilizer to eliminate side sway .Attach the pump to tractor.

FOR PTO ROLLER PUMPS:

IF YOU EVER INTEND TO USE ROUND-UP OR ANY SUCH CHEMICAL YOU MUST USE THE ROUND-UP READY PUMP.

Install the pump on the tractor PTO shaft and make sure that the pump you are using is recommended for PTO speed which you intend to use. If in doubt ask your dealer.

If your pump is equipped with a quick coupler, make sure that it is locked onto tractor PTO shaft and tighten set screw.

Fasten the stabilizer to a fixed point on the tractor so that pump will not rotate with shaft.

FOR PTO DRIVEN CENTRIFUGAL PUMPS:

Make sure pump is recommended for the PTO speed which you intend to use. If in doubt ask you dealer for assistance.

Slip the PTO coupler all the way up on the splined tractor shaft and tighten all set screws making sure the pump is properly centered on the shaft to eliminate wobble.

Make sure the outlet(discharge) port on the pump is mounted in the VERTICAL POSITION. If you are unable to mount the pump in this manner as is, the rear housing plate may be removed and rotated to a vertical position. This is necessary to insure proper priming of pump.

Fasten the stabilizer to a fixed point on the tractor so the pump will not rotate with shaft.

FOR HYDRAULIC DRIVEN CENTRIFUGAL PUMPS:

Mount a hydraulic centrifugal pump only after reading the complete instruction manual provided by pump manufacturer.

If you do not have this manual, ask your dealer for assistance.

A hydraulic motor driven centrifugal pump is extremely versatile I regard to where it may be mounted, however, one thing you must keep in mind is that the pump must be mounted at /or below liquid level of the tank.

IMPORTANT: Be sure to connect hydraulic hoses from the tractor outlet to the hydraulic motor inlet and the tractor return line to the outlet of the hydraulic motor. These hoses must be hooked correctly to

achieve the correct rotation on the pump and to prevent damage to the unit or system. Pump rotation is clockwise when facing the suction port of pump.

FOR DIAPHRAGM PUMPS:

Always mount pump with the oil sight tube in an upwards position. DO NOT OPPERATE without safety shields in place.

BEFORE RUNNING THE PUMP:

- A. Be sure that oil is halfway up the sight tube. If necessary, fill to correct level with 20W-30W non detergent oil.
- B. Be sure the suction hose barb is tightly screwed onto the suction union.
- C. Do not restrict the pump on the suction side. Use a 2-braid suction hose of at least the same inside diameter as the pump ports—larger with long suction lines. Keep the line as short as possible. Avoid all unnecessary bends, elbows or kinks in hose. Make sure all connections are tight and do not leak air.
- D. Be sure to use line strainer with 20 mesh, this comes standard on any VAN, S sprayer with diaphragm pumps
- E. Be sure to check charge in pulsation damper. Damper should be charged with air to 20 % of operating pressure. Minimum charge should be 5 PSI.
- F. RUN THE PUMP AT ZERO PRESSURE for one minute to remove air from the system.Do not exceed the pump's recommended maximum speed and pressure. There will be no performance advantage and pump life will be reduced. Pumps run over recommended speed or pressure are not subject to warranty.

G. MAINTENANCE:

- 1. After use, flush pump with clean water.
- 2. Change oil every 200 hours or at the end of every spray season. To drain oil from pump,remove the drain plug,(see manufacturers manual),and slowly turn pump shaft until all oil is drained. To fill pump with oil, slowly pour oil into sight tube while turning the pump shaft. Turning the pump shaft purges air out of the crankcase.
- 3. For winter storage or if freezing conditions will be incountered, flush pump with 50/50 mixture of water and antifreeze.

NOTES TO REMEMBER FOR ALL PUMPS:

- A. Be sure to check all arrows on the pump that indicate proper rotation of pump.
- B. Be sure pump is correct for the PTO speed you intend to use.
- C. Be sure that the suction hose from tank to pump is as short as possible—cut if necessary—and be sure thathose is not kinked or collapsed—run it as straight as possible.
- D. Be sure that all hose clamps are tight and in place.
- E. **NEVER OPERATE ANY SPRAYER PUMP DRY**—Be sure pump is primed and supplied with liquid when it is operating. Damage will occur to the seals in a roller pump and also to the rollers. Damage will occur to seal of a centrifugal pump if operated dry.

When starting a new pump and every time it is operated thereafter, the pump should start displacing liquid within 18 seconds. If it does not, stop the pumpand check all hoses, valves, and strainer between pump and tank.

BOOM ASSEMBLY AND SETUP:

The boom on the 200 and 300 gallon 12 row sprayers are detached from boom yoke, (item 20 page 8), for shipping, the chains, (item 14 page 8), are left connected. Reatached booms, with bolt, (item21 page 8), and nut, (item19 page 8), if Necessary. Make sure the tip bodies face to the rear of sprayer. Be sure boom feed line hoses are correctly connected to control valve. You can determine this by operating sprayer with clear water , and switching hoses if necessary. BE SURE YOU DO NOT SWITCH ANY HOSES OTHER THAN BOOM FEED LINES.

Adjust booms to proper height for job you wish to do. If you are unable to determine what is correct for your job, please contact your local county agent or ask your vans dealer. In most cases nozzles are placed 19-20 inches above surface to be sprayed.

Be sure that your booms are level so that the nozzles on outer ends are exactly the same height as those in center.

Before going to the field look at each and every nozzle, make sure they are all the same size, and have tip strainers in place and are clean.

BEFORE GOING TO THE FIELD:

- 1. Look inside your new sprayer tank and make sure it is clean.
- 2. Fill tank about half full with clean water—DO NOT ADD ANY CHEMICALS.
- **3.** Make sure all valves in the suction line on bottom of tank are full open.
- **4.** Turn adjusting screw on pressure regulator valve in the counter-clockwise direction until it is almost all the way out.
- **5.** Start pump slowly and increase speed of tractor to about 1200 RPM while checking to male sure liquid is passing through the pump and back into tank.
- **6.** Turn adjusting screw on pressure regulator clockwise and increase pressure to approximately 10 PSI above the pressure you expect to use in field.
- **7.** Open boom control valve and chech all fittings for possible leaks. Check all hose connections and make sure all clamps are tight.
- 8. MAKE SURE AT NO TIME WILL THE PRESSURE EXCEED THE CAPACITY OF THE PRESSURE GAUGE.
- **9.** Inspect the inside of your tank for good agitation while pump is in operation. Your VAN,S Sprayer gives full time agitation while pump is unning. If you do not have good agitation, it is possible that some piece of foreign material can enter the system and clog agitator. Check if necessary by removing the agitator for inspection.

If the preceding steps have been followed properly and all corrective action necessary has been taken, you are now ready to calibrate your unit for field operation.

CALIBRATION:

It is necessary to calibrate your sprayer before beginning the spray job. We will not attempt here to give you a calibration procedure, however we suggest the section in the Spraying System catalog on calibration, your local or state pesticide manual, or calling your VAN's dealer. You can also look on page 11 of this manual for the application table for our standard tip, which unless you specified another tip, is a **TP8003 brass fan tip.**

No matter what method you use, or what you use, please remember the following points:

- 1. Always calibrate with clean water only.
- 2. Always calibrate under field conditions.
- 3. Never rely on a tractor speedometer for accuracy.
- 4. Make sure all nozzles are the same size, are spraying properly, and all strainers are clean.
- 5. Due to long boom lines, there can be a loss of pressure between pressure gauge and tips. It is usually normal to indicate a slightly higher reading on gauge, (approximately 5-8 PSI) than that indicated by application chart. For this reason calibrate your sprayer often.

CAUTIONS AND PRE-CAUTIONS, (PLEASE READ CAREFULLY)

If you have followed all the instructions up to this point, your new VAN'S SPRAYER is ready to go to work and do a good job. These last instructions can and will make your spraying job more pleasant.

- A. NEVER OPERATE SPRAYER WITHOUT PROPER SAFTEY PRECAUTIONS.
- B. ALWAYS FILL TANK AT LEAST HALF FULL AND HAVE PUMP OPERATING BEFORE ADDING CHEMICALS. IF YOU ARE USING WETTABLE POWDER, PRE-MIX IN A BUCKET OF WATER BEFORE ADDING TO TANK.
- C. NEVER OPERATE PUMP AFTER TANK IS EMPTY-DO NOT OPERATE DRY.
- D. ALWAYS ADJUST PRESSURE REGULATOR WITHSPRATER I OPERATION AND NEVER EZCEED THE CAPACITY OF THE GAUGE.
- E. NEVER USE A METAL OBJECT TO CLEAN A NOZZLE, A TOOTHPICK, TOOTHBRUSH, MATCH, OR AIR WILL DO A BETTER AND SAFER JOB.
- F. WHEN TRANSPORTING YOUR SPRAYER ON A ROAD OR HIGHWAY, BE SURE TO SECURE THE BOOMS IN THE BRACKETS PROVIDED FOR THIS PURPOSE. ALWAYS USE FLASHER LIGHTS OR OTHER DEVICES TO GIVE ADEQUATE WARNING TO OTHER VEHICLES.
- G. REMEMBER-NOZZLES DO WARE CAUSING SPRAY PATTERN DISTIRTION AND VARYING SPRAY VOLUME RATES.REPLACE NOZZLES AS OFTEN AS NEEDED TO ASSURE PROPER AND UIFORM SPARY COVERAGE AND RATES. CALIBRATE DAILY. STAINLESS STEEL NOZZLES PROVIDE THE MOST WEAR RESISTANCE WHEN COMPARED TO OTHER TIP MATERIAL.
- H. ALWAYS USE CLEAN WATER AND CHECK STRAINER DAILY.

- I. CHECK AGITATION IN TANK FREQUENTLY—AT LEAST TWICE DAILY.
- J. KEEP ALL HOSES IN GOOD SHAPE REPLACE WORN OR DAMAGED HOSE AS NEEDED-BE SURE SUCTION HOSE IS IN GOOD CONDITION.
- K. CLEAN UP WHEN JOB IS DONE.ALWAYS CLEAN SPRAYER AFTER EACH USE.
- L. NEVER CHANGE FROM ONE CHEMICAL TO ANOTHER WITHOUT THOROUGHLY CLEANING SPRAYER.

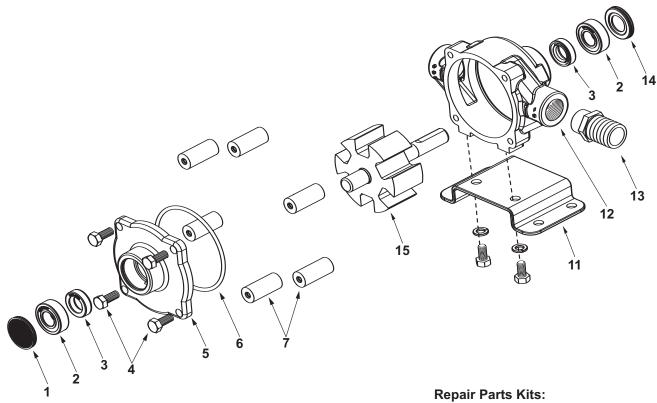
CLEANING- STORING-MAINTENANCE

The least expensive thing you can do to prolong your new sprayers life is to keep it clean. Please follow these simple instruction after spraying job is done.

- Clean thoroughly-Remove any chemical residues from tank,pump,boom strainers,and nozzles by flushing completely the entire system with clean water and follow with a solution of approximately ONE QUART of household AMMONIA to 25 gallons water.
- 2. Remove all nozzle tips and strainers from booms and clean thoroughly with a toothbrush or toothpick. Leave nozzle tip to soak in can of oil or diesel fuel.
- 3. DRAIN TANK COMPLETELY and leave it to dry outside. Make sure all chemical has been removed THIS IS VERY IMPORTANT WITH WETTABLE POWDERS.
- 4. Remove pump and make sure no liquid is left inside. Fill pump with radiator rust inhibitor and plug outlets keep inside during storage.
- 5. Drain complete system and fill with antifreeze during winter storage to prevent freezing.
- 6. Store complete sprayer in dry place out of weather. Keeping sprayer out sunlight will lessen the UV effects on tank.
- 7. Caution: Never change from one type of chemical to another without thoroughly cleaning sprayer.

TROUBLE SHOOTING THE SPRAYER

PROBLEM	PROBABLE CAUSE	POSSIBLE REMEDY
Erratic pressure	air leaking into suction	Tighten all fittings and hoses between
indication on	line	pump and tank
pressure gauge	Trash in control valve or	Remove and clean parts
	pressure gauge	
	Suction line kinked or	Remove suction line and clean-check
	clogged	tank and strainer
	Air leak in suction hose	Replace hose
	Suction hose collapsed	Replace hose
Pressure gauge	Pump is sucking in air	Examine the suction hose and make
fluctuates	through the suction line	sure it is firmly secured. Run the pump
excessively	or air has not been entirely	with outlet hose open to evacuate air
·	evacuated from strainer	from pump
Domest Leave v. C.	Constitution should be a	Class strainers and to 1
Pump loses suction	Suction strainer clogged	Clean strainer and tank
	Air leak in suction hose	Replace hose
	Suction hose collapsed	Replace hose
	Pump air locked	Remove discharge line and pump
		liquid through pump
	Pump worn and clearances	Replace or repair pump
	too great	
	Seals worn out or	Replace pump seals
	deterioated	
Pump does not draw	One or more valves are	Examine the valve seatings and
water	seated improperly	clean them
	Suction line is plugged or	Examine suction line
	collapsed clogged strainer	Clean strained
Noisy pump	Excessive pump speed	Slow the pump
, , ,	Air leak in suction line	Replace suction hose
	Partially clogged strainer	Clean strainer
Pump shows decreased	Suction strainer clogged	Clean strainer
capacity	Air leak in suction hose	Rplace suction hose
сараспу		•
	Moving parts worn	Replice worn parts
	Worn seal	Replace seal
	Pump roller stuck	Clean pump inside
	Pump operating too slow	Speed up pump
	Nozzles too large for	Use smaller nozzles or reduce number
	capacity of pump	of nozzles on boom
Pump leaks	Worn out seal	Replace seal



IMPORTANT:

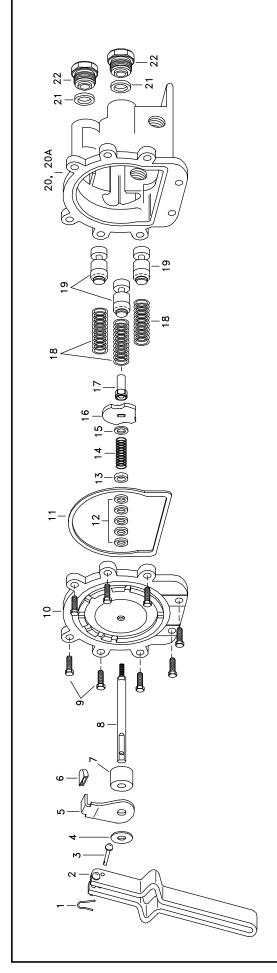
When ordering parts, give PART NUMBER and PART DESCRIPTION. Reference Numbers are used ONLY to point out parts in the drawing and are NOT to be used as ordering numbers.

No. 3430-0380 Consists of (6) Ref. 7 Super Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals.

No. 3430-0175 Consists of (6) Ref. 7 Polypropylene Rollers, (1) Ref. 6 O-ring, and (2) Ref. 3 Viton seals.

Ref. No.	Qty. Req'd.	Part Number	Description
1	1	2300-0021	Bearing Cover
2	2	2000-0010	Sealed Ball Bearing
3	2	2107-0002	Viton Seal (Standard)
3	2	2102-0001	Buna-N Seal (Optional)
3	2	2102-0001T	Teflon-coated Buna-N Seal (Optional)
4	4	2210-0004	Bolts
5	1	0200-6600C	Endplate (Cast Iron) with Seal
5	1	0200-6600N	Endplate (Ni-Resist) with Seal
5	1	0200-6600X	Endplate (SilverCast) with Seal
6	1	1720-0008	O-ring Gasket for Endplate
7	6	1005-0004	Super Roller (Standard)
7	6	1002-0004	Polypropylene Roller (Optional)
7	6	1052-0004	Buna-N Roller (Optional)
7	6	1055-0004	Teflon Roller (Optional)

Ref. No.	Qty. Req'd.	Part Number	Description
11	1 kit	3420-0023	Base Kit - Sold Separately Includes: (1) Base, (2) Bolts and (2) Washers
12	1	0100-6600C	Body (Cast Iron) with Seal
12	1	0100-6600N	Body (Ni-Resist) with Seal
12	1	0100-6600X	Body (SilverCast) with Seal
13	1	2404-0052	1" Hose Barb
14	1	2300-0023	Shaft Bearing Cover
15	1	0300-6600C	Rotor Assembly (Cast Iron)
15	1	0300-6600N	Rotor Assembly (Ni-Resist)
15	1	0300-6600X	Rotor Assembly (SilverCast)



CP8012-1/2-SS 1/16"x 1/2" Cotter CP6849-1-IZP Handle and Rivet Sub-As CP7206-IZP Rivet, Steel, Zinc Pla CP6976-IZP Handle Washer, Steel CP12128-IZP Selector Shield, Steel CP12127-CE Selector Shield Tip, C CP12129-CE Spacer, Celcon (Gray CP6972-SS Main Stem, Stainless CP20607-IZP Hex Head Screw (1/4-20 CP12126-AL Cover Plate, Aluminu CP6975-BU Gasket, Buna-N CP5809-LEA Packing, Thermo-Lea	ட	ITEM	PART NO.	DESCRIPTION
2 8 4 8 9 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	╜	-	CP8012-1/2-SS	1/16"x 1/2" Cotter Pin. Stainless Steel
3 CP7206–IZP 4 CP6976–IZP 5 CP12128–IZP 6 CP12127–CE 7 CP12129–CE 8 CP6972–SS 9 CP20607–IZP 11 CP6975–BU 12 CP5809–LEA		2	CP6849-1-IZP	Handle and Rivet Sub-Asb., Steel, Zinc Plated and Stainless Steel
4 CP6976–1ZP 5 CP12128–1ZP 6 CP12127–CE 7 CP12129–CE 8 CP6972–SS 9 CP20607–1ZP 10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA	<u></u>	3	CP7206-IZP	Rivet, Steel, Zinc Plated
5 CP12128–IZP 6 CP12127–CE 7 CP12129–CE 8 CP6972–SS 9 CP20607–IZP 10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA	v	4	CP6976-IZP	Handle Washer, Steel, Zinc Plated
6 CP12127–CE 7 CP12129–CE 8 CP6972–SS 9 CP20607–IZP 10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA		2	CP12128-IZP	Selector Shield, Steel, Zinc Plated
7 CP12129–CE 8 CP6972–SS 9 CP20607–IZP 10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA	<u></u>	9	CP12127-CE	Selector Shield Tip, Celcon (Gray)
8 CP6972–SS 9 CP20607–IZP 10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA		7	CP12129-CE	Spacer, Celcon (Gray)
9 CP20607-IZP 10 CP12126-AL 11 CP6975-BU 12 CP5809-LEA	_	∞	CP6972-SS	Main Stem, Stainless Steel
10 CP12126–AL 11 CP6975–BU 12 CP5809–LEA	<u>.</u>	တ	CP20607-IZP	Hex Head Screw (1/4-20x3/4), Steel, Zinc Plated (8 Req'd)
11 CP6975-BU 12 CP5809-LEA	_	10	CP12126-AL	Cover Plate, Aluminum
12 CP5809-LEA	Ļ.	1	CP6975-BU	Gasket, Buna—N
	L_	12	CP5809-LEA	Packing, Thermo—Leather (5 Req'd)

ldot	ITEM	PART NO.	DESCRIPTION
	13	CP12130-SS	Packing Gland, Stainless Steel
	14	CP7254-SS	Main Spring, Stainless Steel
	15	CP7987-SS	Washer, Stainless Steel
	16	CP6971-AL	Selector Cam, Aluminum
	17	CP6973-SS	Guide Nut, Stainless Steel
	18	CP6959-SS	Valve Spring, Stainless Steel (3 Req'd)
	19	CP6956-CE	Valve Stem, Celcon (3 Req'd)
	20	CP6934-3/4-AL	Body, Aluminum (For AA17L)
	20A	CP6934-13/4-AL	Body, Aluminum (For AA17Y)
*	21	CP6958-POL	Seat Plate, Polyethylene (3 Req'd)
	22	CP7902-AL	Outlet Adapter, Aluminum (3 Req'd)
\perp		No. AA17L, TeeVo	No. AA17L, TeeValve Control Valve
		No. AA17Y, TeeVo	No. AA17Y, TeeValve Control Valve

PK-AB17-KIT -Spare Parts Kit (Includes all items marked with *)

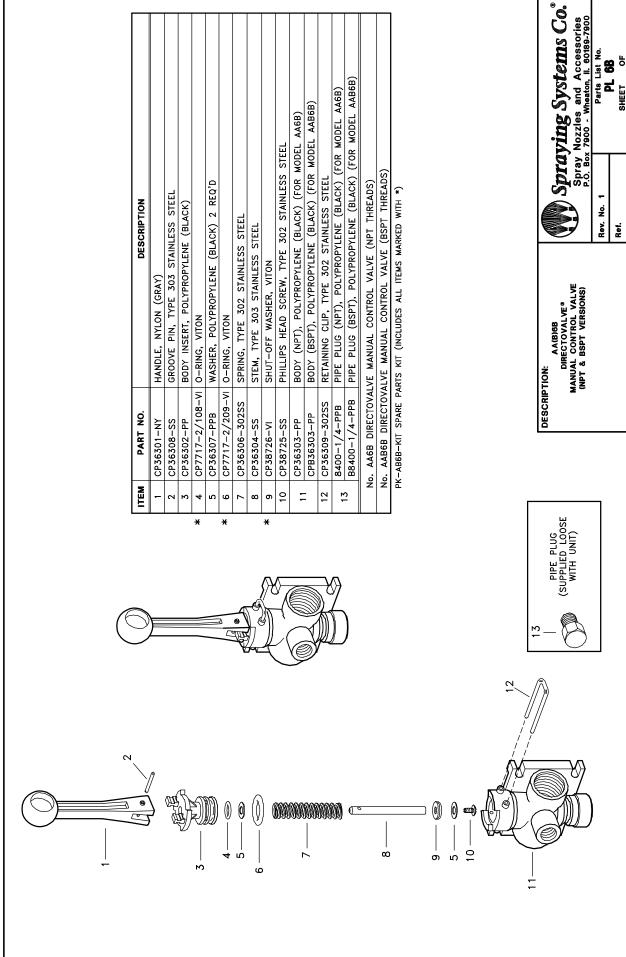
DESCRIPTION:
AA17
TEEVALVE ® CONTROL VALVE

Spray Nozzles and Accessories
Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, II. 60189-7900

Rev. No. 4
PL 17
Ref. SHEET OF

© Spraying Systems Co.

.



© Spraying Systems Co.

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JETS (13" Extension) & No. 43H GUN



Aluminum

Part No

#43-AL 1325-AL

(#43-)

Item

10566-AL

4743-NY

4743-NY

0566 10565

4 ဖ

10571-AL

6943-AL

19238-416SS

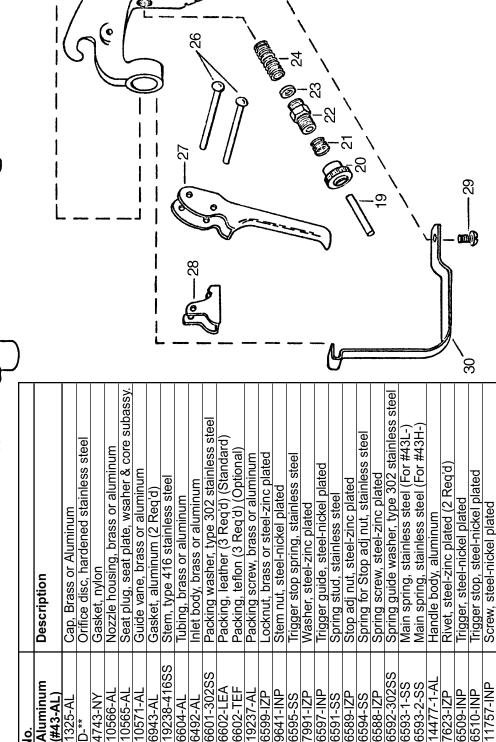
ω

6604 6492

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6943-AL

10565-AI



6601-302SS

6601-302SS

6604-AL 6492-AL 6602-LEA 6602-TEF

6602-LEA 6602-TEF

*12



Gunjet No. 43H-AL- Aluminum, complete, for pressures from 200 to 800 PSI

ABCK43-AL-KIT (Conversion Kit for Adj. Stem) - Items 8, 13 & 15)

AB43-AL-KIT Spare Parts Kit (Includes all items marked with *) ABCK43-KIT (Conversion kit for Adj. stem) - items 8, 13 & 15)

AB43-KIT Spare Parts Kit (Includes all items marked with

Gunjet No. 43L-AL- Aluminum, complete, for pressures up to 200 PSI

Gunjet No. 43L- Brass, complete, for pressures up to 200 PSI

11757-INP 13798-INP

11757-INP

6509-INP 6510-INP

6509-INP 6510-INP

27 28

7623-IZP

25 26

7623-IZP

6592-302SS

6592-302SS

8|2|8|2|8

6593-1-SS 6593-2-SS 14477-1-AI

6588-IZP

6594-SS

6597-INP 6591-SS

6597-INP

6591-SS 6589-IZP 6594-SS

<u>ක</u> ල

6589-IZP

7991-IZP

85-2629

9641-INP

9641-INP

4 5 16

6595-SS 7991-IZP

4ZI-6659

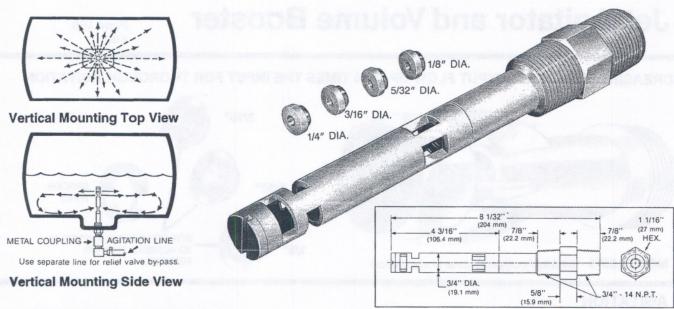
19237-AI

19237 629 6593-1-SS 6593-2-SS 14477-1-AI Gunjet No. 43H- Brass, complete, for pressures from 200 to 800 PSI

Trigger Guard, steel-nickel plated

JET AGITATOR and VOLUME BOOSTER MODEL 3371-0019

The versatile Hypro, venturi type, 3371-0019 Jet Agitator adapts to your installation, fits directly into 3/4" NPT tank opening. Mounts vertically or horizontally. (For horizontal mounting, just remove end cap from agitator. The full flow is then directed across the tank.) The overlapping 4-port side outlet provides full 360° agitation for thorough mixing in the vertical position. Molded polypropylene construction provides rigidity and strength. Choice of four nozzles assures proper agitation for your spraying.

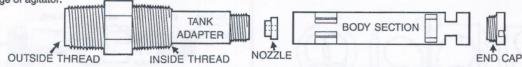


ASSEMBLY INSTRUCTIONS

1. Agitator is packaged for shipment disassembled in a see-through plastic envelope. Select your nozzle size and assemble as shown on the sectional drawing. Insert small diameter of nozzle into tank adapter. Thread parts together in order shown. Note that body section end with vertical slots screws into tank adapter (other end is for cap).

DIMENSIONS

- 2. Wrap teflon tape on the inside 3/4* NPT thread on agitator before installing to tank. This assures a tight seal and will prevent agitator from loosening because of vibration.
- 3. Apply tefion tape on the outside 3/4" NPT thread for agitator line and install a metal coupling. This will assure a tight seal and prevent breakage of agitator.



SELECTING THE PROPER NOZZLE FOR SPRAY TANK AGITATION

The right nozzle is the one which provides ample agitation to keep the wettable powders in suspension, but not too much as to cause foaming of spray material.

PERFORMANCE TABLE MODEL 3371-0019

Nozzle Diameter	Input to Agitator in GPM	Input to Agitator in L/min.	Agitator Pressure in PSI	Agitator Pressure in KPa	Agitator Output in GPM	Agitator Output in L/min.
1/8"	2.1	7.9	25	172.4	6	22.7
1/8"	2.9	11	50	344.7	8.8	33.3
1/8"	4.1	15.5	100	689.4	13.9	52.6
5/32"	3.1	11.7	25	172.4	7	26.5
5/32"	4.5	17	50	344.7	11.5	43.5
5/32"	5.8	22	100	689.4	16.2	61.3
3/16"	3.8	14.4	25	172.4	8.5	32.2
3/16"	5.9	22.3	50	344.7	12.8	48.4
3/16"	8.2	31	100	689.4	17.2	65.1
1/4"	5.9	22.3	25	172.4	11.9	45
1/4"	9.8	37.1	50	344.7	17.1	64.7
1/4"	13.5	51.1	100	689.4	20	75.7



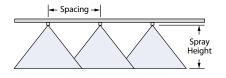
Teelet VisiFlo® Flat Spray Tips

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.







Optimum	Spray	Height

	20"
65°	35"
80°	30"
110°	20"

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

	(3)		ОР	CAPACITY ONE	CAPACITY ONE	20"											
	PSI	31	ZE	NOZZLE IN GPM	NOZZLE IN				G	PA				GALL	ONS PER	R 1000 S	Q. FT.
		80°	110°	IN GPM	OZ./MIN.	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	15 MPH	20 MPH	2 MPH	3 MPH	4 MPH	5 MPH
TP650050†	30			0.043	5.5	3.2	2.6	2.1	1.6	1.3	1.1	0.85	0.64	0.15	0.10	0.07	0.06
TP800050†	35 40			0.047	6.0 6.4	3.5 3.7	2.8 3.0	2.3 2.5	1.7 1.9	1.4	1.2	0.93	0.70 0.74	0.16 0.17	0.11	0.08	0.06 0.07
TP1100050†	50			0.056	7.2	4.2	3.3	2.3	2.1	1.7	1.4	1.1	0.74	0.17	0.11	0.03	0.07
(100)	60			0.061	7.8	4.5	3.6	3.0	2.3	1.8	1.5	1.2	0.91	0.21	0.14	0.10	0.08
TP650067†	30 35			0.058	7.4 8.1	4.3 4.7	3.4	2.9	2.2	1.7	1.4 1.6	1.1	0.86	0.20 0.21	0.13	0.10	0.08
TP800067†	35 40			0.063	8.6	5.0	4.0	3.1 3.3	2.5	2.0	1.7	1.3	0.94	0.21	0.14	0.11	0.09
TP1100067†	50			0.075	9.6	5.6	4.5	3.7	2.8	2.2	1.9	1.5	1.1	0.26	0.17	0.13	0.10
(100)	60	_	_	0.082	10	6.1	4.9	4.1	3.0	2.4	2.0	1.6	1.2	0.28	0.19	0.14	0.11
TP6501†	30 35	F	F	0.087 0.094	11 12	6.5 7.0	5.2 5.6	4.3 4.7	3.2 3.5	2.6	2.2	1.7	1.3 1.4	0.30 0.32	0.20	0.15	0.12 0.13
TP11001	40	F	F	0.10	13	7.4	5.9	5.0	3.7	3.0	2.5	2.0	1.5	0.34	0.23	0.17	0.14
(100)	50	F	VF	0.11	14	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.37	0.25	0.19	0.15
TP65015†	60 30	F	VF	0.12 0.13	15 17	8.9 9.7	7.1	5.9 6.4	4.5 4.8	3.6	3.0	2.4	1.8 1.9	0.41	0.27	0.20	0.16 0.18
TP80015	35	F	F	0.14	18	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19
TP110015	40	F	E	0.15	19	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20
(100)	50 60	F	F	0.17 0.18	22 23	12.6 13.4	10.1 10.7	8.4 8.9	6.3 6.7	5.0 5.3	4.2 4.5	3.4 3.6	2.5 2.7	0.58 0.61	0.39 0.41	0.29	0.23 0.24
TP6502†	30	M	F	0.18	22	12.6	10.7	8.4	6.3	5.0	4.2	3.4	2.7	0.51	0.41	0.31	0.24
TP8002	35	М	F	0.19	24	14.1	11.3	9.4	7.1	5.6	4.7	3.8	2.8	0.65	0.43	0.32	0.26
TP11002	40 50	F	F	0.20 0.22	26 28	14.9 16.3	11.9 13.1	9.9 10.9	7.4 8.2	5.9 6.5	5.0 5.4	4.0	3.0 3.3	0.68 0.75	0.45 0.50	0.34	0.27
(50)	60	F	F	0.22	31	17.8	14.3	11.9	8.9	7.1	5.9	4.4	3.6	0.75	0.54	0.37	0.30
TP6503†	30	М	F	0.26	33	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.88	0.59	0.44	0.35
TP8003	35 40	M	F	0.28 0.30	36	21	16.6 17.8	13.9 14.9	10.4 11.1	8.3 8.9	6.9 7.4	5.5 5.9	4.2 4.5	0.95	0.63	0.48	0.38 0.41
TP11003	50	M	F	0.34	38 44	22 25	20	16.8	12.6	10.1	8.4	6.7	5.0	1.0 1.2	0.68 0.77	0.51	0.41
(50)	60	F	F	0.37	47	27	22	18.3	13.7	11.0	9.2	7.3	5.5	1.3	0.84	0.63	0.50
TP6504†	30	M	M	0.35	45 47	26 27	21	17.3	13.0	10.4 11.0	8.7 9.2	6.9	5.2	1.2	0.79	0.60	0.48
TP8004	35 40	M	M	0.37 0.40	51	30	22 24	18.3 19.8	13.7 14.9	11.0	9.2	7.3	5.5 5.9	1.3 1.4	0.84	0.63	0.50 0.54
TP11004 (50)	50	М	F	0.45	58	33	27	22	16.7	13.4	11.1	8.9	6.7	1.5	1.0	0.77	0.61
	60 30	M C	F M	0.49 0.43	63 55	36 32	29 26	24 21	18.2 16.0	14.6 12.8	12.1 10.6	9.7	7.3 6.4	1.7 1.5	1.1 0.97	0.83	0.67 0.58
TP6505†	35	M	M	0.43	60	35	28	23	17.4	14.0	11.6	9.3	7.0	1.6	1.1	0.73	0.58
TP11005	40	М	М	0.50	64	37	30	25	18.6	14.9	12.4	9.9	7.4	1.7	1.1	0.85	0.68
(50)	50 60	M	M F	0.56 0.61	72 78	42 45	33 36	28 30	21 23	16.6 18.1	13.9 15.1	11.1	8.3 9.1	1.9 2.1	1.3 1.4	0.95	0.76 0.83
TP6506†	30	C	М	0.51	67	39	31	26	19.3	15.4	12.9	10.3	7.7	1.8	1.4	0.88	0.83
TP8006	35	C	М	0.56	72	42	33	28	21	16.6	13.9	11.1	8.3	1.9	1.3	0.95	0.76
TP11006	40 50	C	M	0.60 0.67	77 86	45 50	36 40	30 33	22 25	17.8	14.9 16.6	11.9	8.9 9.9	2.0	1.4 1.5	1.0	0.82
(50)	60	C	M	0.67	93	50 54	40	36	25	22	18.1	14.5	10.8	2.5	1.7	1.1	0.91
TP6508†	30	C	C	0.69	88	51	41	34	26	20	17.1	13.7	10.2	2.3	1.6	1.2	0.94
TP8008	35 40	C	C	0.75 0.80	96 102	56 59	45 48	37 40	28 30	22 24	18.6 19.8	14.9 15.8	11.1 11.9	2.6 2.7	1.7 1.8	1.3 1.4	1.0 1.1
TP11008	40 50		M	0.80	1114	66	53	40	33	26	22	17.6	13.2	3.0	2.0	1.4	1.1
(50)	60	C	М	0.98	125	73	58	49	36	29	24	19.4	14.6	3.3	2.2	1.7	1.3
TP6510†	30 35			0.87 0.94	111 120	65 70	52 56	43 47	32 35	26 28	22 23	17.2 18.6	12.9 14.0	3.0 3.2	2.0 2.1	1.5 1.6	1.2 1.3
TP8010†	35 40			1.00	120	70 74	59	50	37	30	25	19.8	14.0	3.4	2.1	1.7	1.4
TP11010†	50			1.12	143	83	67	55	42	33	28	22	16.6	3.8	2.5	1.9	1.5
	60			1.22	156 166	91 97	72	60 64	45	36 39	30 32	24	18.1	4.1	2.8	2.1	1.7
TP6515†	30 35			1.30 1.40	179	104	77 83	69	48 52	42	35	26 28	19.3 21	4.4 4.8	2.9 3.2	2.2	1.8 1.9
TP8015†	40			1.50	192	111	89	74	56	45	37	30	22	5.1	3.4	2.6	2.0
TP11015†	50			1.68	215	125 137	100 109	83 91	62	50	42	33	25 27	5.7	3.8	2.9	2.3 2.5
	60 30			1.84	236 221	128	109	86	68 64	55 51	46 43	36	26	6.3 5.9	4.2 3.9	3.1 2.9	2.5
TP6520†	35			1.87	239	139	111	93	69	56	46	37	28	6.4	4.2	3.2	2.5
TP8020†	40 50			2.00 2.24	256 287	149 166	119 133	99 111	74 83	59 67	50 55	40 44	30 33	6.8 7.6	4.5 5.1	3.4 3.8	2.7 3.0
TP11020T	60			2.24	314	182	146	121	91	73	61	49	36	8.3	5.6	4.2	3.3

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.















How to order:

Specify tip number.

Examples:

TP8002VS Stainless Steel with VisiFlo color-coding

- Polymer with VisiFlo TP11002VP color-coding

TP11001VK Ceramic with VisiFlo polymer color-coding

TP11002-HSS -Hardened Stainless Steel

TP8002-SS Stainless Steel

TP8002 Brass

Technical Information

MPH x W



Useful Formulas

GPM	GPA x MPH x W
(Per Nozzle) =	5,940
GPM	GAL/1000FT ² x MPH x W
(Per Nozzle) =	136
GPA =	5,940 x GPM (Per Nozzle) MPH x W
GAI /1000FT ²	= 136 x GPM (Per Nozzle)

GPM – Gallons Per Minute

GPA - Gallons Per Acre

GAL/1000FT² - Gallons Per 1000 Square Feet

MPH - Miles Per Hour

W – Nozzle spacing (in inches) for broadcast spraying

 Spray width (in inches) for single nozzle, band spraying or boomless spraying

 Row spacing (in inches) divided by the number of nozzles per row for directed spraying

Useful Formulas for Roadway Applications

$$GPLM = \frac{60 \times GPM}{MPH} \qquad GPM = \frac{GPLM \times MPH}{60}$$

GPLM = Gallons Per Lane Mile

Note: GPLM 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 100 and 200 feet are recommended for measuring speeds up to 5 and 10 MPH, respectively. Determine the time required to travel the test course. To help ensure accuracy, conduct the speed check with a partially loaded (about half full) 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.

Speed (MPH) = $\frac{\text{Distance (FT) x 60}}{\text{Time (seconds) x 88}}$

Speeds

Speed in	Time Ro to Tr	equired in SE avel a Distan	CONDS ce of:
MPH	100 Feet	200 Feet	300 Feet
1.0	68	136	205
1.5	45	91	136
2.0	34	68	102
2.5	27	55	82
3.0	23	45	68
3.5	19	39	58
4.0	17	34	51
4.5	15	30	45
5.0	14	27	41
5.5	_	25	37
6.0	_	23	34
6.5	_	21	31
7.0	_	19	29
7.5	_	18	27
8.0	_	17	26
8.5	_	16	24
9.0	_	15	23

Nozzle Spacing

If the nozzle spacing on your boom is different than those tabulated, multiply the tabulated GPA coverages by one of the following factors.

20"								
Other Spacing (Inches)	Conversion Factor							
8	2.5							
10	2							
12	1.67							
14	1.43							
16	1.25							
18	1.11							
22	.91							
24	.83							
30	.66							

3	0"
Other Spacing (Inches)	Conversion Factor
26	1.15
28	1.07
32	.94
34	.88
36	.83
38	.79
40	.75
42	.71
44	.68

4	0"
Other Spacing (Inches)	Conversion Factor
28	1.43
30	1.33
32	1.25
34	1.18
36	1.11
38	1.05
42	.95
44	.91
48	.83

Miscellaneous Conversion Factors

One Acre = 43,560 Square Feet

= 43.56 1000FT² Blocks

= 0.405 Hectare

One Hectare = 2.471 Acres

One Gallon Per Acre

= 2.9 Fluid Ounces per 1000FT²

= 9.35 Liters Per Hectare

One Gallon Per $1000FT^2 = 43.56 GPA$

One Mile = 5,280 Feet

= 1,610 Meters

= 1.61 Kilometers

One Gallon = 128 Fluid Ounces

= 8 Pints

= 4 Quarts

= 3.79 Liters

= 0.83 Imperial Gallon

One Pound Per Square Inch

= 0.069 bar

= 6.896 Kilopascals

One Mile Per Hour

= 1.609 Kilometers 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 20 inches apart are commonly set 20 inches above the target.

		(Inches)								
		20"	30"	40"						
TeeJet® Standard, TJ	65°	22–24″	33–35″	NR*						
TeeJet, XR, TX, DG, TJ	80°	17–19″	26–28″	NR*						
TeeJet, XR, DG, TT, TTI, TJ, DGTJ, AI, AIXR	110°	16–18″	20–22″	NR*						
FullJet®	120°	10–18″**	14–18″**	14–18″**						
FloodJet® TK, TF	120°	14–16″***	15–17"***	18-20"***						

* 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 pTTtern overlap.

Nozzle Height Adjustment

Nozzles can be used at various heights within the recommended range. However, this will affect the spray pattern width and the gallons per acre (GPA) applied. Refer to conversion formulas on page 11.

Multi-Pass Spraying

When multi-pass spraying, be sure to overlap the ends of spray patterns 12 - 16 inches to ensure even coverage.



Adverse Wind Conditions

With boomless spray nozzles, as with other spraying methods, high or gusty wind conditions can cause drifting or pattern movements, adversely affecting spray coverage. If this occurs, wait for more favorable conditions before continuing.



CONVERSION FORMULAS

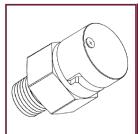
Gallons per 1000 sq. ft. =

GPM x 136
MPH x Spray Width in Inches

Gallons per Acre =

GPM x 5940
MPH x Spray width in Inches





You Can Tell
It's A
BOOMINATOR®
NOZZLE ON SIGHT
Boominator's® unique
round head shape lets
you know it is a
genuine Boominator®
nozzle. It is also
patented and with
patents pending.
Boominator®.







All Regular Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

SPRAY NOZZLES REGULAR PATTERN

* Water was used for all calculations listed.

E		(1/4" M	NPT)					SPE	ED (N	1PH)				
			SPRAY	2	3	4	5	6	7	8	9	10	11	12
O b	PSI	GPM	PATTERN				G/	ALLOI	NS PE	R A	CRE			
4 F	20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
- 등	30	2.0	17 ft.	30	19	15	12	10	8	7	6.5	6	5	4.5
쮼	40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6

Roadside Spray Nozzles

All Roadside Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

These nozzles are designed for right-hand mounting ONLY and provide a wide spray pattern without kickback under the nozzle.

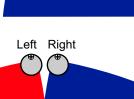
These nozzles are designed for road-side and right-of-way spraying.



All Regular Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

These nozzles are designed for left-hand or right-hand mounting and provide a wide spray pattern with approximately 15° of kickback under the nozzle.

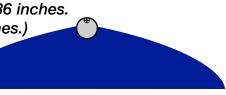
When using left-hand and right-hand nozzles together, adjust the nozzles to allow for enough kickback overlap between the nozzles to prevent streaking in spray coverage. Nozzles can be rotated to adjust distance of spray pattern outward or amount of kickback under the nozzle.



Full Pattern Spray Nozzles

All Full Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

These nozzles are designed to provide a full lefthand to right-hand spray pattern from a single centrally mounted nozzle.



Spraying Safety

ALWAYS WEAR PROTECTIVE CLOTHING WHEN SPRAYING AND / OR HANDLING ANY AND ALL CHEMICALS.

Field et Boomless Nozzles with Extra-Wide Flat Spray Projection



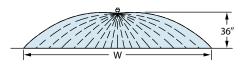


Type 1/4-KLC and Type 3/4-KLC 1/4" NPT male and 3/4" NPT male pipe connections

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

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





How to order:

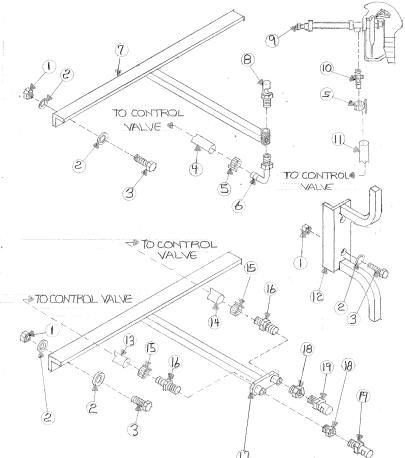
Specify part number and material. Example: 1/4KLC-SS18 – Stainless Steel

	PIPE	\odot	CAPACITY ONE	."W"	GPA				GALLONS PER 1000 SQ. FT.			
	CONNECTION	PSI	NOZZLE IN GPM	IN FEET	3 MPH	4 MPH	5 MPH	8 MPH	3 MPH	4 MPH	5 MPH	8 MPH
1/4-KLC-5	1/4"	20	0.71	17	6.9	5.2	4.1	2.6	.16	.12	.09	.06
		30	0.87	18	8.0	6.0	4.8	3.0	.18	.14	.11	.07
		40	1.00	21	7.9	5.9	4.7	2.9	.18	.13	.11	.07
1/4-KLC-9	1/4"	20	1.27	18	11.6	8.7	7.0	4.4	.27	.20	.16	.10
		30	1.56	19	13.5	10.2	8.1	5.1	.31	.23	.19	.12
		40	1.80	21	14.1	10.6	8.5	5.3	.32	.24	.19	.12
1/4-KLC-18	1/4"	20	2.55	20	21	15.8	12.6	7.9	.48	.36	.29	.18
		30	3.12	21	25	18.4	14.7	9.2	.56	.42	.34	.21
		40	3.60	22	27	20	16.2	10.1	.62	.46	.37	.23
1/4-KLC-36	1/4"	20	5.09	22	38	29	23	14.3	.87	.66	.52	.33
		30	6.24	24	43	32	26	16.1	.98	.74	.59	.37
		40	7.20	26	46	34	27	17.1	1.0	.78	.63	.39
		20	7.07	23	51	38	30	19.0	1.2	.87	.70	.44
3/4-KLC-50	3/4"	30	8.66	26	55	41	33	21	1.3	.94	.75	.47
		40	10.0	28	59	44	35	22	1.3	1.0	.81	.51
3/4-KLC-72	3/4"	20	10.2	25	67	50	40	25	1.5	1.2	.92	.58
		30	12.5	29	71	53	43	27	1.6	1.2	.98	.61
		40	14.4	31	77	57	46	29	1.8	1.3	1.1	.66
3/4-KLC-108	3/4"	20	15.3	28	90	68	54	34	2.1	1.5	1.2	.77
		30	18.7	33	94	70	56	35	2.1	1.6	1.3	.80
		40	21.6	36	99	74	59	37	2.3	1.7	1.4	.85

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.







ITEM NO.	DESCRIPTION	PART NO.		
1	Nut 3/8"	HN38C		
2	Flat washer 3/8"	FW38		
3	Bolt 3/8" x 1 1/2"	CS38112C		
4	Hose black ag 3/8"	10031720		
5	Hose clamp 3/8"	6H		
. 6	Elbow 1/4"mpt x 3/8" barb 90 ny	EL1438		
7	Tip mount L65 only (klc)	H14		
8	KLC tip size 18	1/4KLC-18		
9	Hand gun	AA43LA-AL6		
10	Hose shank1/2"mpt x 3/8" barb	A1238		
11	Hose black ag 1/2"	10031730		
12	Gun rack	H11R		
13	Hose black ag 1/2"	10031730		
14	Hose black ag 1/2"	10031730		
15	Hose clamp 1/2"	8H		
16	Hose shank 3/8"mpt x 1/2" barb	A3812		
17	Tip mount L65 only (boominator)	H17		
18	Bushing 3/8"mpt x 1/4"fpt galv.	GB3814		
19	Tip boominator	BN1400L/R		

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