



SP1® BACKPACK SPRAYER



State-Of-The-Art Operation & Comfort

By integrating a convenient size sprayer with a knapsack, the SP1® Sprayer offers you the most comfortable way possible to perform professional spraying projects.

The pumping handle has been designed to fold against the side of the sprayer for easy storage. In addition, the spray wand clips onto the handle, freeing your hands to perform other tasks while still wearing the sprayer on your back. This innovation also keeps the wand from falling to the ground and being lost or damaged.

The Diaphragm Pump – The heart of the SP1

The diaphragm pump is the working heart of the SP1 Sprayer. It has been skillfully engineered so there is no friction between moving parts. There are no nuts or bolts to tighten or adjust, thus eliminating leaks from worn out O-rings, gaskets or loose nuts and bolts.

Designed For Safety

SP Systems™ SP1 Sprayer offers unique features for increased safety and ease of operation. We've integrated a check valve on the cap to prevent possible leaks caused by tipping. We've also enlarged the mouth and cap to 6" for easier filling and cleaning. Next we added a convenient carrying handle to make the unit easier to transport and use.

Made To Last

The SP1 Sprayer has been designed to virtually eliminate repairs. We have avoided the use of all corrosive metal parts in the internal mechanism of the sprayer, thus eliminating rust and related problems. The polyethylene tank has been treated with UV inhibitors that protect it against harmful ultraviolet rays.

The unit also features polyester straps (as opposed to leather or plastic) that will not absorb chemicals and can be easily washed. Another benefit of the straps is that they won't become brittle and crack.

More Advantages Of The SP1

The SP1 features an adjustable nozzle that goes from a stream to a cone (mist). The unit will accept TeeJet® nozzles, as well as most common spray nozzles.

Furthermore, the SP1 diaphragm pump can maintain a higher pressure than any other diaphragm pump on the market. It reaches as much as 70 PSI while other units are limited to a maximum of 40 PSI.

Specifications

Body: Polyethylene plastic

Capacity: 4 gallons

Maximum working pressure: 70 PSI

Weight (empty): 9.92 lbs.

Weight (full): 41.92 lbs.

MOTORIZED BACKPACK



Model SP 818

- 4 Cycle air cooled gas motor
- Double piston pump
- 6.2 Gallon capacity
- Maximum pressure 300 PSI
- Ship weight 22 lbs.

SPRAY BOOMS

Dramatically reduce the time needed to do the job by doubling or tripling the width of your spray path. Helps ensure uniform coverage and reduce chemical use. Can use with any of our nozzles.

Two Nozzle Boom - covers approximately 40"
Kit W098-EB (supplied without nozzles)



Three Nozzle Boom - covers approximately 60"
Kit W0420-EB (supplied without nozzles).

SPRAY SHIELDS



Effectively protect surrounding plants from wind-borne mist, confine spray within a 110° or 80° area.

Kit W099-SD (16")
Kit W117-SD (9")

Shop Talk

Calibrating Backpack Sprayers

Maintaining a constant walking speed is the most important objective when using a backpack or knapsack sprayer. When spraying, either hold the nozzle steady at a constant height and walk back and forth or swing the nozzle in a sweeping, overlapping motion. When making multiple passes in a turf area, overlap the area between the passes for a uniform application.

Calibration of a backpack sprayer for applying chemicals per 1000 FT² may be determined in the following manner. Measure an amount of water and pour it into the sprayer. Next, spray a measured area of exactly 1000 FT² (for example: 20 ft. x 50 ft.). After spraying the area, measure the amount of water remaining in the tank. Subtract the amount of water remaining in the sprayer from the amount with which you started; this difference is the application volume.

- Example:
- 4 gallons of water are poured into the backpack sprayer.
 - 2 gallons are left in the sprayer after spraying a measured 1000 FT² area.
 - 4 gallons – 2 gallons = 2GAL/1000FT²





HUDSON PROFESSIONAL SPRAYERS

All backpack and compression sprayers that we carry feature the same 11/16" nozzle thread featured on our TeeJet nozzles and accessories making it easy to get exactly the pattern you need.



Super Sprayer – Wide polyethylene tank has 6 feet for stability, large funnel top opening and a locking pressure release. Extra large pump handle and trigger valve for gloved hands, with an 18" wand and both a fan and a cone nozzle.

Part # 90162 2 gallon
 # 90163 3 gallon



Commercial Sprayers – Stainless steel tank with viton seals and steel pump handle. Heavy duty brass shut-off with brass extension and fan nozzle.

Part # 97291 1 gallon
 Part # 97292 2 gallon



Supply Tank – Large 4 gallon polyethylene tank with poly hand pump and choice of two outlet connections (shut-off not included)

Model # 91134 3/4" male GHT
 Model #KW96583-1 3/8" hose barb with pressure gauge



Industro Sprayers – Heavy duty stainless steel tank with special offset brass pump with stays inside the sprayer. Longer pump for faster pressure. Separate inner seal opening is easy to fill and empty.

Part # 91703 2.5 gallon
 Part # 91704 3.5 gallon

Model	Actual Capacity	Rec. Tank Max. Fill	Tank Type
91703	3.0 gal.	2.5 gal.	Stainless Steel
91704	4.0 gal.	3.5 gal.	Stainless Steel

CF VALVE

Regardless of the amount of pressure pumped into the sprayer, the valve maintains a maximum pressure and steady flow at the nozzle. When pressure in the tank falls below the amount set by the valve, the spray immediately shuts off. Thus, accurate calibration comes easy.

Ideal for any Sprayer

- Saves big on spray materials - up to 24% reduction.
- Constant spray pattern. Easy calibration.
- Fits between spray wand and nozzle. Fast, easy installation.
- Self-cleaning - not affected by dirt or debris.
- Made of non-corrosive, high-grade Delrin® for long life.
- Controls flow rate 1.5% accurate regardless of input pressure.



Order Number	Description	Color
98661	14.5 PSI; 11/16 thread	yellow
98662	21 PSI; 11/16 thread	red
98663	29 PSI; 11/16 thread	blue
98664	43.5 PSI; 11/16 thread	green

1-800-247-4998



CONEJET® - #5500 ADJUSTABLE SPRAY TIP



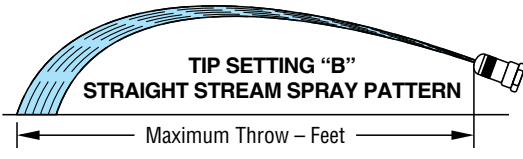
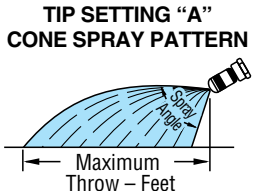
#5500 For Capacities from 0.071 to 1.9 GPM



#5500-PP

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.

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 hand held and backpack type sprayers.



Refer to Capacity Chart on Page 147

TEEJET® - LOW-PRESSURE FLAT SPRAY TIPS

Tip No. (strainer screen size)	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	Gallons Per Acre - 20" Spacing			
			4 MPH	5 MPH	6 MPH	7 MPH
8001LP-SS (100 Mesh)	15	.10	7.4	5.9	5.0	4.2
	20	.12	8.9	7.1	5.9	5.1
	30	.14	10.4	8.3	6.9	5.9
	40	.16	11.9	9.5	7.9	6.8
80015LP-SS 110015LP-SS (50 Mesh)	15	.15	11.1	8.9	7.4	6.4
	20	.17	12.6	10.1	8.4	7.2
	30	.21	15.6	12.5	10.4	8.9
	40	.24	17.8	14.3	11.9	10.2
8002LP-SS 11002LP-SS (50 Mesh)	15	.20	14.9	11.9	9.9	8.5
	20	.23	17.1	13.7	11.4	9.8
	30	.28	21	16.6	13.9	11.9
	40	.33	25	19.6	16.3	14.0
8003LP-SS 11003LP-SS (50 Mesh)	15	.30	22	17.8	14.9	12.7
	20	.35	26	21	17.3	14.9
	30	.42	31	25	21	17.8
	40	.49	36	29	24	21
8004LP-SS 11004LP-SS (50 Mesh)	15	.40	30	24	19.8	17.0
	20	.46	34	27	23	19.5
	30	.57	42	34	28	24
	40	.65	48	39	32	28
8005LP-SS 11005LP-SS (50 Mesh)	15	.50	37	30	25	21
	20	.58	43	34	29	25
	30	.71	53	42	35	30
	40	.82	61	49	41	35
8006LP-SS 11006LP-SS (No Strainer)	15	.60	45	36	30	25
	20	.69	51	41	34	29
	30	.85	63	50	42	36
	40	.98	73	58	49	42
8008LP-SS 11008LP-SS (No Strainer)	15	.80	59	58	50	34
	20	.92	68	55	46	39
	30	1.1	84	67	56	48
	40	1.3	97	78	65	56
8010LP-SS 11010LP-SS (No Strainer)	15	1.0	74	59	50	42
	20	1.2	85	68	57	49
	30	1.4	105	84	70	60
	40	1.6	121	97	81	69



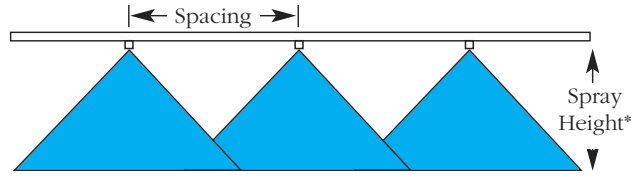
80° & 110° LP Series Stainless Steel and Brass

- Less clogging
- Larger droplets to reduce drift
- Longer wear life

The LP TeeJet® spray tips are designed specifically to operate as low as 15 PSI, providing the same spray performance, spray angle, flow rate and liquid distribution at 15 PSI, as the standard TeeJet® tips at 40 PSI. Lower operating pressures and larger orifices increase wear life of tips. This helps to diminish clogging problems and provides larger spray droplets than those from the standard tips. Patented orifice inlet design provides good tapered edge liquid distribution at lower pressures.

How to order:

Example: **TP8002LP-SS** Stainless Steel
TP8002LP Brass



• Adjust spray height in the field to overlap approximately 30% of each edge of pattern.