

## Backpack Sprayers

### Video 2 Companion Handout

### Materials List – Spraywand Conversion to TeeJet System

No endorsement is implied for products and manufacturers listed here. Resources are listed for informational purposes only.

Part Description – catalog No.	Supplier Sources	List Price (2012)
* 3/8" ID rubber chemical resistant spray hose	Multiple	
** CF pressure regulating valve – 11/16" straight thread (other available) 14.5 psi – Yellow 21 psi – Red 29 psi – Blue	Gate CFV Solutions (772) 202-7783 Purchase the 11/16" straight thread <a href="http://www.gatecfv.com">http://www.gatecfv.com</a>	\$19.95 each
TeeJet strainer & check valve 50 mesh – 4193-PP Specify matching psi	**** TeeJet Spraying Systems	
4" barbed swivel – 11990-61	TeeJet Spraying Systems	\$17.66
Valve handle - 4727	TeeJet Spraying Systems	\$12.32
*** Trigger valve – brass – 6466 (alternate trigger valve – plastic – B22650-PP-1/4)	TeeJet Spraying Systems	\$52.71
** 24" brass curved extension – 6671-24"	TeeJet Spraying Systems	\$28.79
Quick TeeJet 11/16" nozzle body – QJT-NYB	TeeJet Spraying Systems	\$18.07
Turbo FloodJet – TF-VS2 or VS3	TeeJet Spraying Systems	\$5.25
TeeJet spray tips many available	TeeJet Spraying Systems	\$13.56
Gasket – nylon – CP8635-NY	TeeJet Spraying Systems	\$1.54
Rubber seal gasket – CP18999-EPR	TeeJet Spraying Systems	\$1.11
Quick TeeJet caps – 25600-NYR	TeeJet Spraying System	\$1.22
MeterJet spray gun for dose spot treatments	TeeJet Spraying Systems	\$150.21

\* Replace hose only if existing OEM hose inadequate

\*\* Gate CFV Solutions (Global Agricultural Technology and Engineering), 100 Sebastian Industrial Place, Sebastian, FL 32958 USA, 772-202-7783; <http://gatecfv.com/>

\*\*\* Brass trigger valve can be substituted with plastic to save money for light duty use

\*\*\*\* TeeJet Spraying Systems, 124A West Harrisburg St., Dillsburg, PA 17019  
717-432-7222 [www.teejet.com](http://www.teejet.com)

## **Sprayer Characteristics**

Our comparison testing determined that sprayer designs with the following four characteristics worked better than others:

- 1) Sprayers with large internally mounted piston pumps are more efficient. An internally mounted pump that leaks is much better than an externally mounted pump that leaks, reducing your exposure to pesticides.
- 2) Leveraging pump handle designs reduce arm fatigue operating the pump.
- 3) Lightweight tank design and carrier system to reduce overall weight.
- 4) Large fill spouts offset to the side to allow for easier filling and pouring out of products along with a pickup handle in the middle of the sprayer which is a nice addition to handling a fairly heavy item when filled with solution.

## **Model Availability Updates**

Gate pressure regulating valve manufacturer source changed to Gate CFV, [www.gatecfv.com](http://www.gatecfv.com), April 2015.

Worldwide manufacturing of sprayer brands and models changes over time.

As of 2013, the Shindaiwa SP415 shown on the videos, and a very efficient backpack sprayer in our evaluations, is no longer sold.

Jacto model SP416 is a new model in 2013, with similar specifications and performance as the Shindaiwa SP415. The Jacto SP416 has a new trigger valve that accepts the 24-inch TeeJet brass extension shown in our materials list. Adding TeeJet trigger valve and valve handle, while not a necessary accessory, enables use of the TeeJet barbed swivel, improving the spraywand balance and user comfort.

<http://www.jacto.com/sprayers/backpack/index.html>

H.D. Hudson offers a sprayer, model 93594 Regulator™ Bak-Pak® Poly 4 gal, which is similar in features to the Jacto SP 416 but requires complete spray wand replacement for TeeJet conversion . Also offered is a good quality rechargeable battery powered backpack sprayer, NeverPump® Bak-Pak® Sprayer Model 13854.

<http://www.hdudson.com/professional-sprayers/professional-products/product-details/?id=182>

Updated April 2015, J. Grande, J. Rabin

<http://snyderfarm.rutgers.edu/Backpack-Sprayers-Video2.html>