
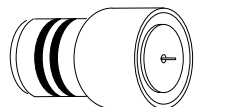


Optional Nozzles for Versa-Spray[®] and Versa-Spray[®] II Guns

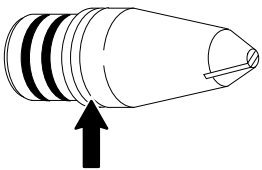
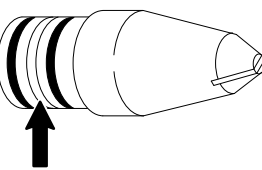
Description

A wide variety of nozzles are available for Versa-Spray and Versa-Spray II powder spray guns. Manual and automatic guns are shipped with different types of nozzles. All nozzles listed in this instruction sheet can be used on any manual or automatic Versa-Spray or Versa-Spray II gun.

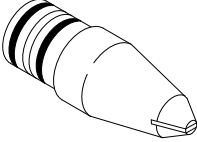
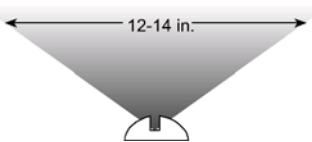
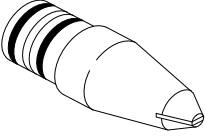
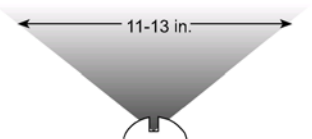
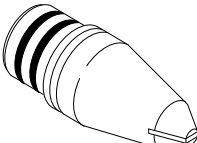
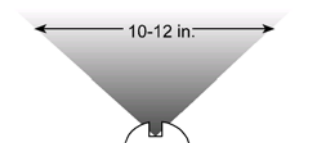
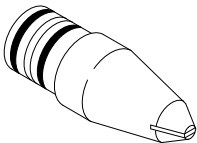
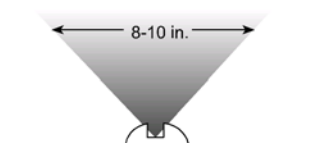
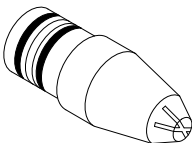
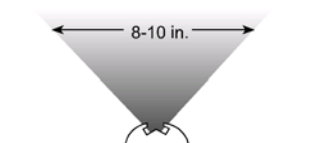
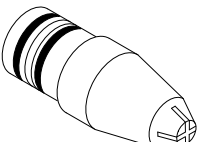
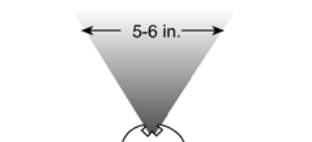
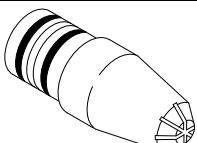
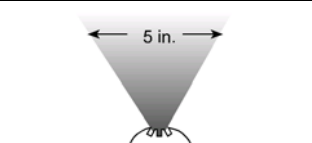
Nozzle Type		Shipped With
Flat-Spray		automatic guns
Conical		manual guns

Flat-Spray Nozzle Selection


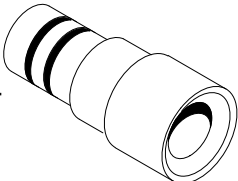
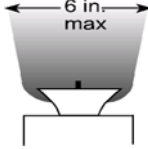

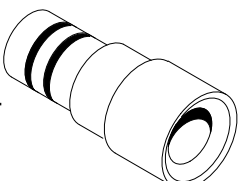
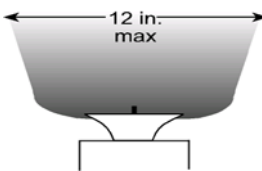

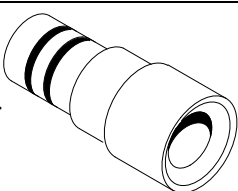
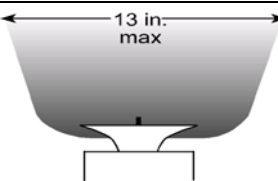

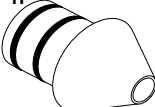
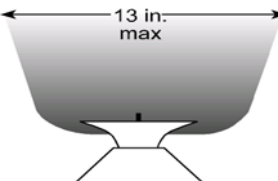

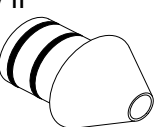
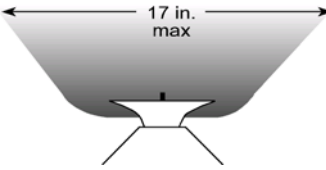

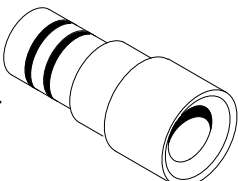
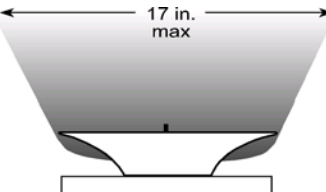
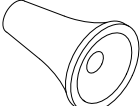
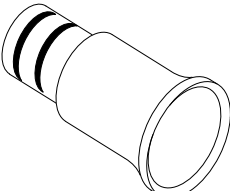
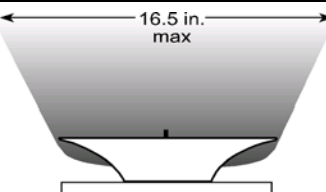
An identification groove appears in one of two locations on all flat-spray nozzles:

Identification Groove Location	Meaning
	New-style, 4-mm nozzle. This nozzle is shipped with automatic guns and provides better pattern dispersion and atomization than most other flat-spray nozzles.
	Old-style, optional nozzles. These optional flat-spray nozzles produce different spray patterns and film builds.

Flat-Spray Nozzle Selection (contd)

Nozzle	Spray Pattern	Powder Velocity	Application
2.5-mm Flat Spray 		High	Large, flat surfaces
3-mm Flat Spray 		Medium-high	Fine finish on flat surfaces
4-mm Flat Spray 		Medium-low	Touch up
6-mm Flat Spray 		Low	Reinforcement
60° Cross-Cut 		Medium-low	Recess reinforcement
90° Cross-Cut 		Low	Deep recesses
Castle 		Medium-low	Pin point

Conical Nozzle and Deflector Selection

Deflector Size	Used with This Nozzle	Spray Pattern	Powder Velocity	Application
14 mm 	32 mm with pattern adjuster 		High	Manual touch-up
16 mm 	32 mm with pattern adjuster 		Medium-high	General finishing
19 mm 	32 mm with pattern adjuster 		Medium	Large surfaces
19 mm 	Short Versa-Spray II 		Medium	Large surfaces
26 mm 	Short Versa-Spray II 		Medium-low	Parts with gaps and recesses
26 mm 	32 mm with pattern adjuster 		Medium-low	Parts with gaps and recesses
38 mm 	45 mm 		Low	Large surfaces

Nozzle Installation



WARNING: Turn off the electrostatic voltage and ground the gun electrode before performing the following tasks. Failure to observe this warning could result in a severe shock.

NOTE: Before removing nozzles, disconnect the powder feed hose from the pump. Blow out the feed hose, powder inlet body, nozzle extension (if used), and nozzle with low-pressure compressed air. Use a clean, dry cloth to wipe off the remaining powder after removing the nozzle parts.

NOTE: Versa-Spray II guns with air do not use a nozzle wear sleeve. Disregard steps 2 and 3 if you have a Versa-Spray II gun with an electrode-cleaning air extension (10).

1. See Figure 1. Pull the existing nozzle (1) straight off the gun.
2. Pull the wear sleeve (2) straight off the resistor probe (4).
3. Slide the appropriate wear sleeve (6) over the resistor probe. Be careful not to damage the electrode (5).
4. Push the conical nozzle (7) into the end of the powder inlet body (3) or air extension (10).
5. Slide the pattern adjuster (8) (if used) over the nozzle.
6. Push the deflector (9) onto the end of the resistor probe. Be careful not to damage the electrode.

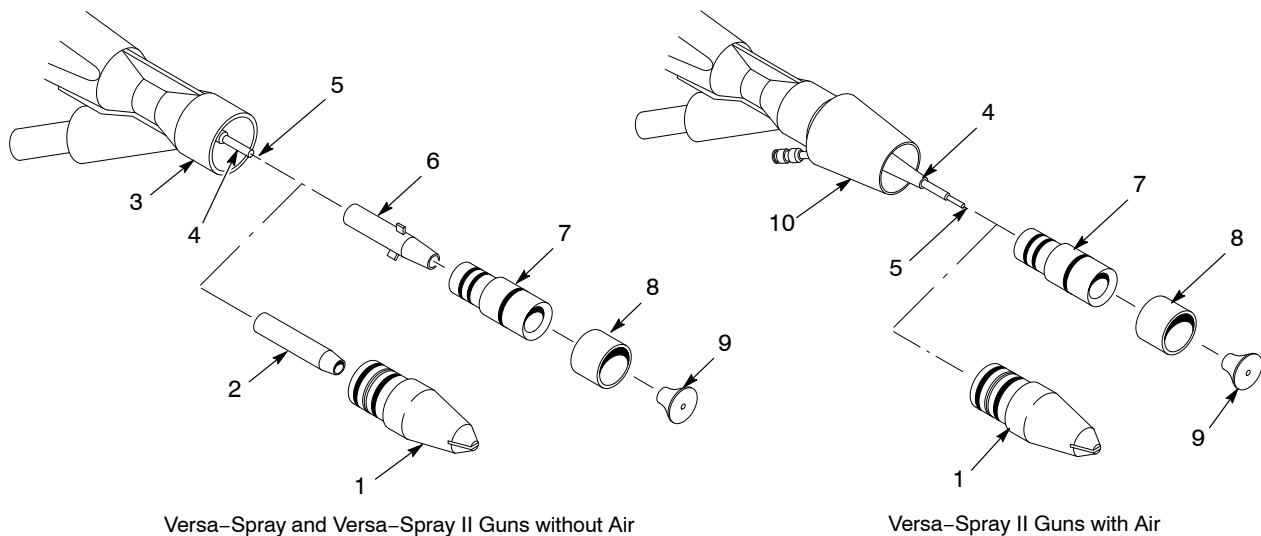


Figure 1 Nozzle Installation

- | | | |
|------------------------------------|---------------------------------|---------------------|
| 1. Flat-spray nozzle | 5. Electrode | 8. Pattern adjuster |
| 2. Wear sleeve (flat-spray nozzle) | 6. Wear sleeve (conical nozzle) | 9. Deflector |
| 3. Powder inlet body | 7. Conical nozzle | 10. Air extension |
| 4. Resistor probe | | |

Parts

Flat-Spray Nozzles

Item	Slot Type	Kit P/N	Nozzle Material		Kit Includes These Items:	
			Tivar	Glass-Filled PTFE (GFT)	Two O-rings (6) 941181	Wear Sleeve (7) 134385 with O-ring (8) 940084
1	4 mm	141044	X		X	X
		141045	X		X	
		174227		X	X	
2	2.5 mm	134380	X		X	X
		134384	X		X	
		174223		X	X	
2	3 mm	139935	X		X	X
		139902	X		X	
		174225		X	X	
2	6 mm	139937	X		X	X
		139903	X		X	
		174229		X	X	
3	60° Cross-Cut	141013	X		X	X
		141017	X		X	
4	90° Cross-Cut	141014	X		X	X
		141015	X		X	
5	Castle	147495	X		X	X
		147877	X		X	

NOTE: These nozzle kits can be used on any Versa-Spray or Versa-Spray II manual or automatic gun. If you have a Versa-Spray II gun with an electrode-cleaning air extension, you do not need to order a nozzle kit that includes a wear sleeve (7) with O-ring (8).

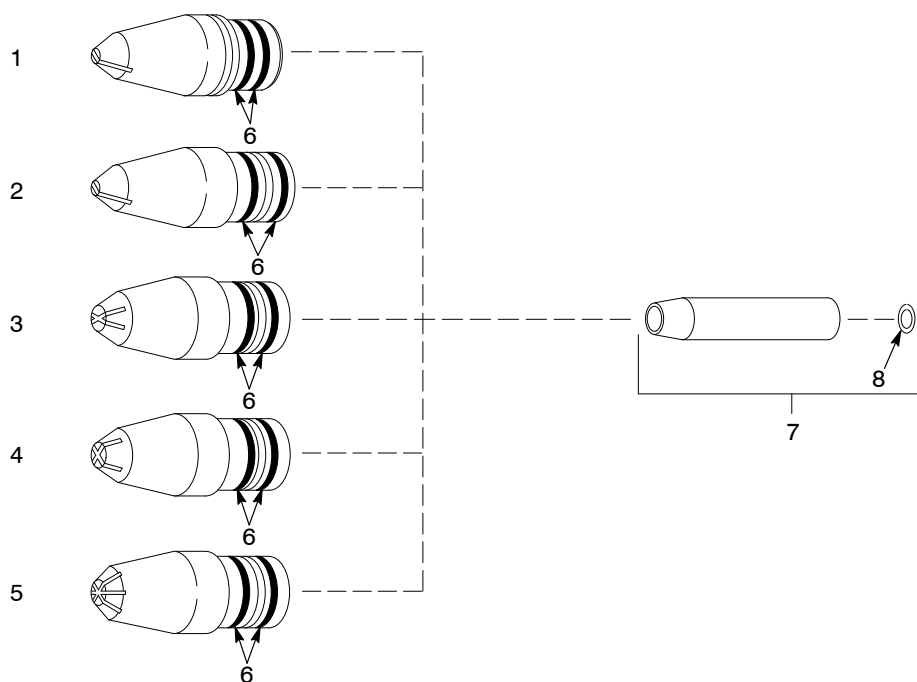


Figure 2 Flat-Spray Nozzle Parts

Conical Nozzles and Deflectors

32-mm Conical Nozzle and Deflectors

See Figure 3.

Item	Part	Description	Quantity	Note
—	145559	SERVICE KIT, nozzle, 32 mm	1	
1	133734	• 26-mm DEFLECTOR, with O-ring, Tivar	1	
2	940084	• • O-RING, silicone, 0.188 x 0.312 x 0.063 in.	1	
3	144759	• ADJUSTER, pattern, 32 mm	1	
4	145558	• NOZZLE, 32-mm dia, with O-rings, Tivar	1	
5	941205	• • O-RING, silicone, 1.000 x 1.188 x 0.094 in.	1	
6	941181	• • O-RING, silicone, 0.875 x 1.063 x 0.094 in.	2	
7	132348	• SLEEVE, wear, conical, Tivar	1	
Optional Deflectors				
1	135865	14-mm DEFLECTOR, Tivar, with O-ring	1	
1	147880	16-mm DEFLECTOR, Tivar, with O-ring	1	
1	133714	19-mm DEFLECTOR, Tivar, with O-ring	1	
2	940084	• O-RING, silicone, 0.188 x 0.312 x 0.063 in.	1	A
NOTE A: This O-ring is included with all deflectors.				

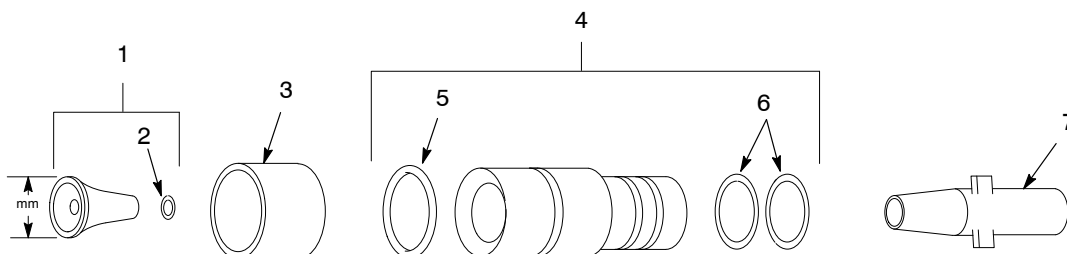


Figure 3 32-mm Conical Nozzle and Deflectors

45-mm Conical Nozzle and Deflector

See Figure 4.

Item	Part	Description	Quantity	Note
—	144760	SERVICE KIT, nozzle, 45 mm	1	
1	249233	• 38-mm DEFLECTOR, with O-ring, Tivar	1	
2	940084	• • O-RING, silicone, 0.188 x 0.312 x 0.063 in.	1	
3	144789	• NOZZLE, 45-mm dia, with O-rings	1	
4	941181	• • O-RING, silicone, 0.875 x 1.063 x 0.094 in.	2	
5	132348	• SLEEVE, wear, conical, Tivar	1	

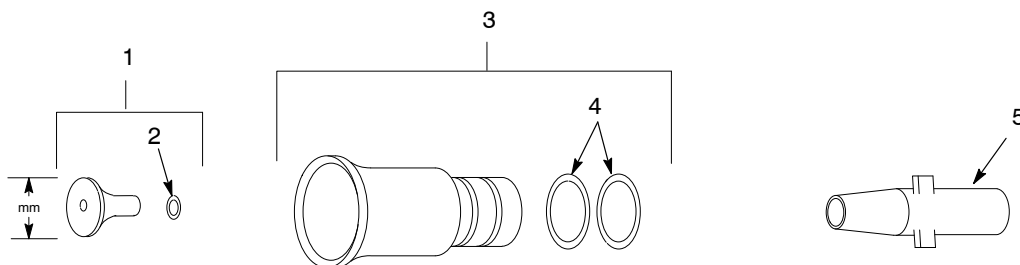


Figure 4 45-mm Conical Nozzle and Deflector

Short Conical Nozzle and Deflectors

See Figure 5.

Item	Part	Description	Quantity	Note
1	173138	19-mm DEFLECTOR, Versa-Spray II, with O-ring	1	
1	173141	26-mm DEFLECTOR, Versa-Spray II, with O-ring, Tivar	1	
2	940084	• O-RING, silicone, 0.188 x 0.312 x 0.094 in.	1	A
3	173139	NOZZLE, short, Versa-Spray II, with O-rings	1	
4	941181	• O-RING, silicone, 0.875 x 1.063 x 0.094 in.	2	
5	132348	SLEEVE, wear, conical	1	B

NOTE A: This O-ring is included with all deflectors.

B: Use only on guns without air.

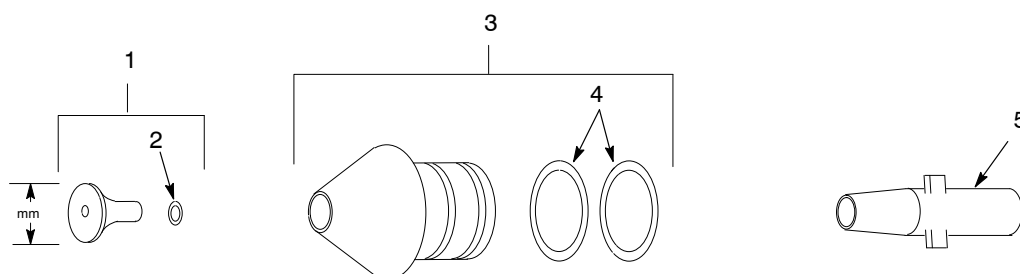


Figure 5 Short Conical Nozzle and Deflectors

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