

**Kontes Brand TLC Reagent Sprayers**

Kontes Article No. 422530 Series

**Assembly**

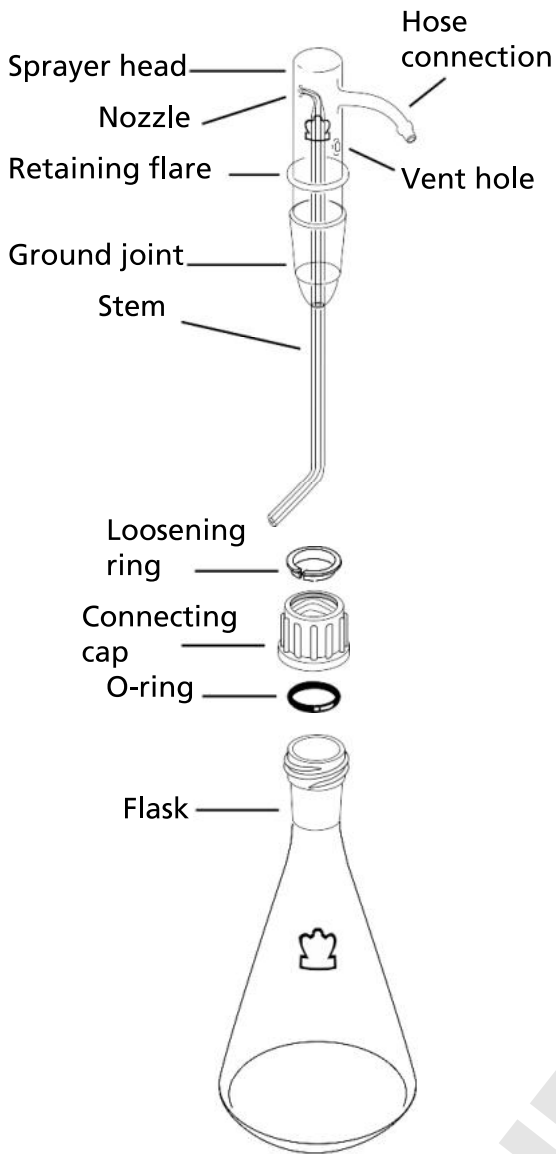
1. Slide loosening ring, largest side first, onto stem and push over retaining flare on sprayer head.
2. Slide connecting cap onto stem of sprayer until it is past the retaining flare.
3. Push o-ring until just past the top of the ground joint.
4. Pull connecting cap down until touching o-ring.
5. Push loosening ring down past retaining flare until it meets the top of the screw cap.
6. Insert assembled sprayer head into flask and tighten screw cap until moderately tight.
7. Connect flexible 1/4 inch (6 mm) I.D. tubing from compressed air or nitrogen supply to hose connection on sprayer head.

**Operation****CAUTION:** Do not exceed 5 PSI (0.35 kg / cm<sup>2</sup>) internal pressure.

With thumb covering vent hole, increase air pressure to 3-5 psi (0.21 - 0.35 kg/cm<sup>2</sup>). Adjust air pressure until required spray volume is achieved. Spray can also be controlled by varying the amount of coverage of the vent hole. Completely uncover the vent hole to stop spray.

**Cleaning****CAUTION:** Do not allow reagents to crystallize inside the capillary of the sprayer head as this may permanently clog the sprayer.

Rinse flask with a small amount of an appropriate solvent and discard. Add another small amount of solvent to flask, attach sprayer head and air supply hose, and spray the solvent through the sprayer head to clean the capillary tube. Do a final rinse with distilled or deionized water and allow to dry.



## Replacement Components

Flask Size (mL)	Sprayer Head	Sprayer Flask
10	422531-0010	422532-0010
25	422531-0010	422532-0025
50	422531-0050	422532-0050
125	422531-0125	422532-0125
250	422531-0250	422532-0250
500	422531-0500	422532-0500

Connecting cap for 10, 25, and 50 mL flasks is 422533-0019.

Loosening ring for 10, 25, and 50 mL flasks is 422534-0019.

O-ring size for 10, 25, and 50 mL flasks is 114.

O-ring size for 125, 250, and 500 mL flasks is 212.

## Specifications

### Materials:

Sprayer Head and Flask are borosilicate glass.  
 Connecting Cap is melamine. (max. temperature 190 °C)  
 Loosening Ring is polyamide. (max. temperature 85 °C)

### Operating Pressure:

3 to 5 psi  
 (0.21 to 0.35 kg / cm<sup>2</sup>)

### Autoclavable:

Only with Connecting Cap,  
 Loosening Ring and O-ring removed.