SPRAY NOZZLE ENGINEERING

PATENTED DESIGN

NOZZLE ASSEMBLY SOP

CLICK&DRY™ BETE MAXI TD THREADED RETAINER WITH OPTIONAL BAYONET CHECK VALVE

Featuring the New **Drip-Pro™ Check Valve** - scorched particle reduction with longer run times, and Threaded Retainer for easy installation & removal

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THE ORIGINAL BETE® THICK SWIRL

BEFORE STARTING

Ensure components are properly cleaned and inspected for defects.

AVOID IMPACT DAMAGE, ALWAYS USE

Soft handling basket

Soft handling board

Use O-ring pick to remove any old O-rings. Always replace O-rings & sealing materials with new replacement items.

IMPORTANT

NEVER scour, scrape or dig to clean nozzles

Ensure Lance Body internals and sealing face are clear of any obstruction and foreign material before re-assembly. Always check for old seals and O-rings and remove before re-assembly.

1

- Apply food grade O-Ring lubricant
- Place Disc O-ring into O-ring groove at the base of Cap

2

- Place Standard Disc into Cap

NOTE: The radius side of the Standard Disc Orifice should be facing up. Disc should sit securely into position

3

- Keep Cap inverted as shown.
- Hold Swirl Chamber with Bete Swirl volute facing downward
- Place Bete Swirl chamber into Cap. Ensure that Standard Disc is still secured and in position. Ensure Bete Swirl seats evenly hard up against Standard Disc

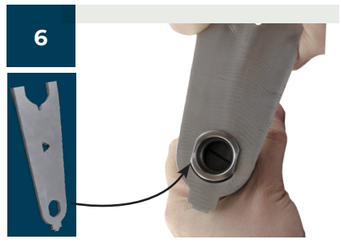
4

- Insert Screw Pin into Cap with 'castellations' facing into the carrier

5

- Spanner flats now facing out. Pin should be screwed to full thread engagement

6



- C&D Multi-Tool incorporates Screw Pin spanner. Screw Pin can be further 'nipped up' using hand multi- tool

IMPORTANT!

7

- Turn assembled cap over and inspect front end face. Orifice disc should be resting up against inner cap wall at outlet, without a gap that might indicate a loose O-ring. Worn or damaged parts may prevent assembly. Check parts and repeat all steps.

IMPORTANT!

8

- Cap cross section shows correct parts assembly
- Note position of Screw Pin fully engaged. You have now inserted in order. O-ring, Disc, Swirl and finally Screw Pin securely. If not, check assembly again before use

IMPORTANT!

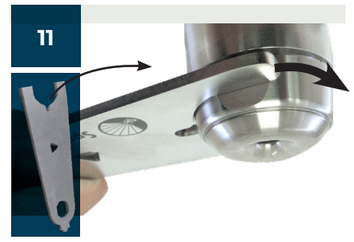
9

- With Cap inverted in orientation shown, apply food grade O-ring lubricant to O-ring
- Fit Body O-ring within O-ring groove
- Ensure proper fit
- Keep Cap inverted before assembly to lance

10

- Whilst holding the nozzle Cap with the O-ring groove facing upwards (as shown) and O-ring in place, Cap assembly can now be carefully hand screwed up into the nozzle lance body without disturbing the O-ring

11



- With Cap fully hand tightened to the body, use the special C&D Multi-Tool provided to 'nip-up' the Cap ensuring the carrier is fully engaged and secure
- Always replace O-rings after each run

Tech Tip:
Do you have dripping problem?

Did you know your nozzle is ready to receive our optional DripPro Check Valve for superior drip & leak control?

- Ask for the additional Check Valve Installation SOP

Step Groove "Gap Gauge" Use

12

- Attempt to insert installation check gauge tool into the step groove as shown, rotating the gauge to ensure the flats are parallel to the step faces.

13

- If gauge fits into step, continue to tighten cap until it no longer fits, this indicates proper sealing contact.

14

- Test the "fit gauge" at 3 points about the diameter avoiding damage areas at the lance end..

Note:

✓ OK to spray if gauge can not push fit into step groove .

✗ DO NOT spray! If gauge can push fit into step groove.

Threaded cap disassembly

Use Bench Plate to disassemble Cap. Ensure the Bench Plate is screwed securely onto a work bench.

1

- Insert key in slot as above

2

- Quarter turn twist loosens parts, pushing them upwards in Clasp
- Invert tool, use handle to dislodge all Captive wear parts using C&D Multi-Tool Cap spanner

Optional Push Fit Cap disassembly guide

Using Wear Part Removal Tool to disassemble the assembled cap:

1

- Insert assembled Cap into the male part of Disc Separator tool

2

- Cover the female part of the Disc Separator tool onto the base as pictured

3

- Push down to release assembled parts in the Cap