

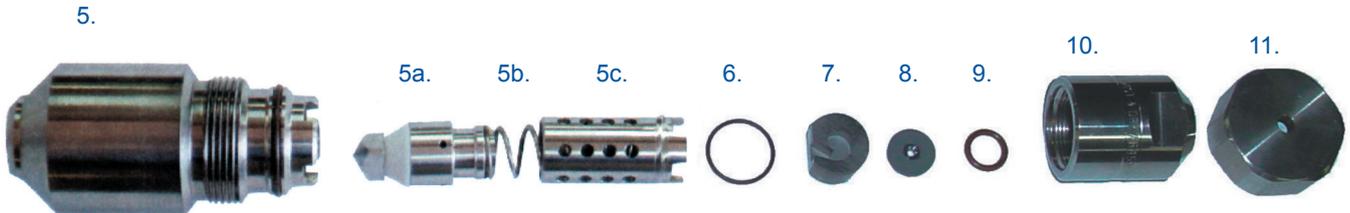


**SPRAY NOZZLE
ENGINEERING PTY. LTD.**

Total Spraying Solutions

'TD - SPRAY DRY NOZZLE ASSEMBLY'

(STANDARD STYLE WITH CHECK VALVE)



1. Always use a recommended o-ring lubricant when assembling all o-rings and on outer diameter of Thick-Swirl unit if required or allowed. Always check that Swirl and orifice dimensions are within specifications.
- 2 **Check Valve / Body Assembly**

If the nozzle is fitted with an anti-drip valve, assure this is assembled **before** final nozzle assembly.

 - a. Locate spring (5b) onto check valve body (5a) ensuring last curl of spring is located firmly against flat positioning boss at base of check valve.
Note:(5a) check valve must have its plastic sealing face and pointed triangular lance centring tip in place and secure.
 - b. Insert assembled parts (5a) & (5b) into (5c) bayonet cage, with spring going all the way to the bottom of (5c) cage.

Locate pointed triangular locator into body (5) and with assembly tool, push (5c) down into body and twist, locating bayonet lugs into position "locking" check valve assembly into body.
3. **Nozzle carrier assembly**
 - a. Holding carrier (10) with inlet facing up, insert and locate orifice o-ring (9), into groove at base of carrier, ensuring it locates evenly into o-ring groove.
 - b. Locate orifice disc(8) with non chamfered side of orifice facing outward from the outlet of nozzle carrier, firmly on top of orifice o-ring.
 - c. To insert swirl unit correctly, firstly ensure the top section with locating slot is facing up at you. Now rotate the swirl above the carrier inlet, until the Flat Side of the swirl is parallel to the two locating lugs cast into the wall of the carrier. The swirl can now be lowered all the way down into the carrier, until it sits on top of the orifice disc. The swirl can now be rotated with the provided driver tool, so that the flat section turns past the cast lugs and thus locking it into place in the carrier. If the carrier is a 'non-lug' version, simply ensure swirl is sitting flat against the orifice disc.
 - d. Using the correct o-ring hook, fit o-ring (6) into o-ring groove below crown of nozzle adaptor (5). The fully assembled nozzle carrier (10) may now be screwed onto adaptor (5).

NOTE :Always ensure that all parts (7), (8), (9) are in place and secure before assembling the adapter (5).

DISASSEMBLY

The nozzle assembly may be dismantled in the same order, using specialised tools provided. It is recommended that the swirl/orifice be removed using the SNE Swirl Driver and Press Tool. Before starting the C.I.P. wash, the lance protector cap (11) should be securely screwed onto Lance (1) to protect the threads. Nozzle components may now be washed in a mild caustic and hot water solution. Discard o-rings after each disassembly and replace with a new set.

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