

# VeriVolume Nozzle Repair Instructions

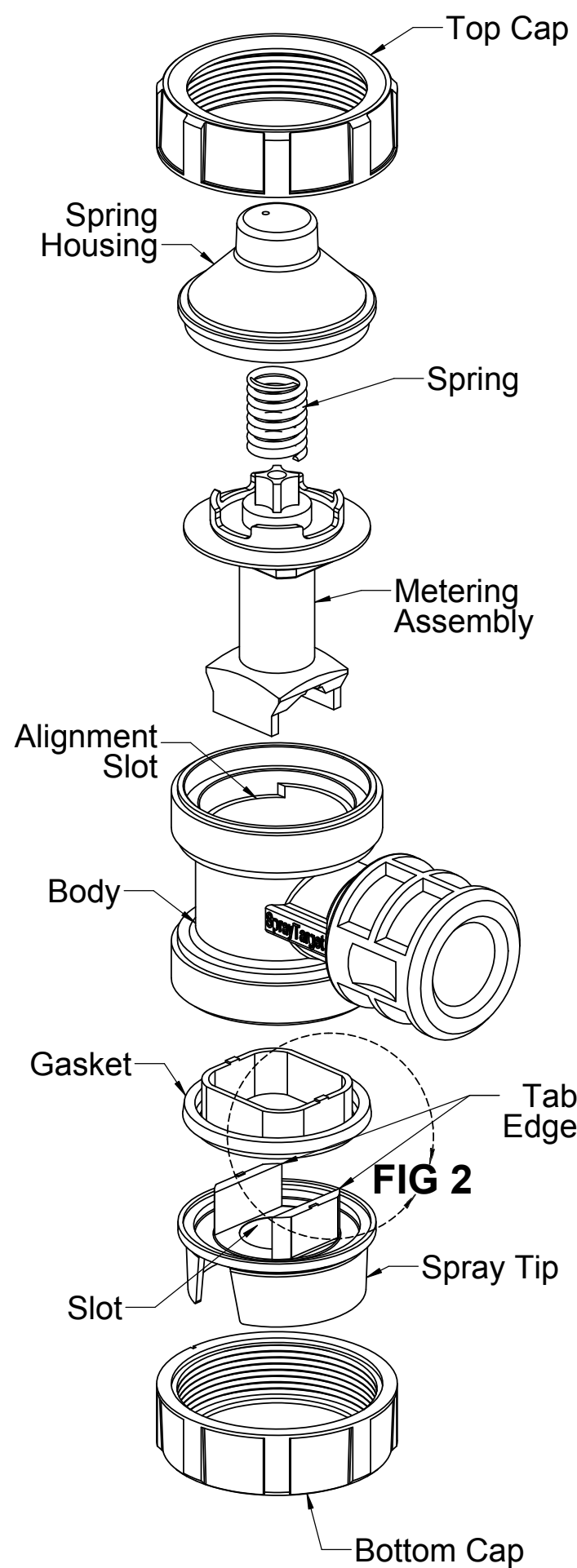
In the event the Spray Tip or the Metering Assembly needs to be cleaned or replaced, please follow these directions.

1. Disconnect the VeriVolume Nozzle from the boom.
2. If you are replacing the Metering Assembly please follow these instructions in the order they appear. For just Spray Tip or Spray Tip Gasket replacement refer to #3, #9, and through #13.
3. Remove the Spray Tip and Gasket from the Body by unscrewing the Bottom Cap.
4. Unscrew the Upper Cap from the Body to remove the Spring Housing and the Spring.

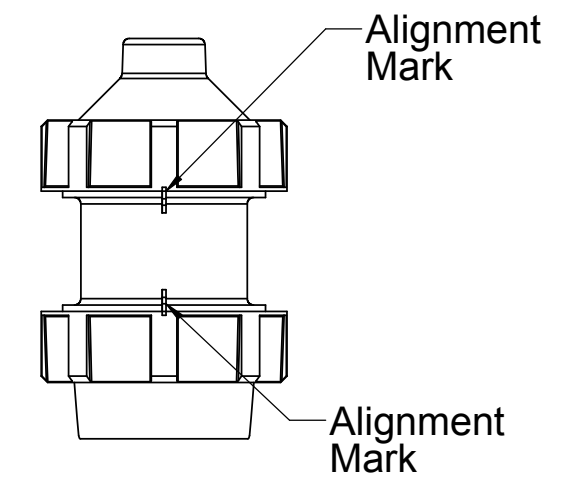
**NOTE:** Care should be taken not to inter-change the Top Cap with the Bottom Cap.

**NOTE:** Care should also be taken to not loose or damage the Spring. If this should happen a new nozzle will have to be ordered to insure proper operation.

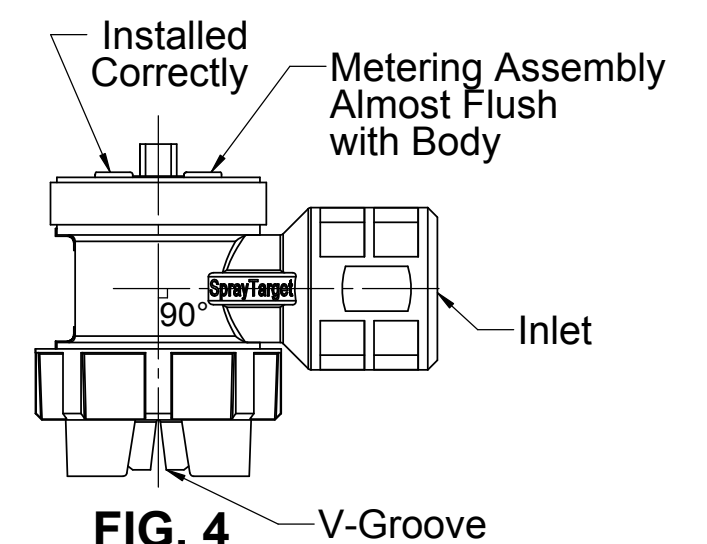
5. Push the Metering Assembly out of the Body.
6. Insert either a new Metering Assembly or the same one by placing the Metering Assembly into the Body then turning the Metering Assembly until it drops into the alignment slot. See Fig 1, Fig 3, and Fig 4.
7. Place the Spring and Spring Housing onto the top of the Metering Assembly.
8. Replace the Top Cap and tighten until the Alignment Mark on the side of the Top Cap lines up with the Alignment Mark on the Body as in Fig 5.
9. Remove the old Gasket and firmly push the old Spray Tip out of the Lower Cap.
10. Place the new Spray Tip in the Lower Cap and push it firmly until it snaps into the Lower Cap.
11. Place the new Gasket onto the Spray Tip and press it firmly into place, making sure the alignment tabs on the Gasket are orientated with the alignment tabs on the Spray Tip as in Fig 2.
12. Replace the Spray Tip onto the Body, making sure that the slot on the Spray Tip fits onto the Metering Assembly without damaging the tab edges on the Spray Tip as in Fig 1, and the V-Groove forms 90 degrees to the Inlet as in Fig 4.
13. Then tighten the Lower Cap until the Alignment Mark on the side of the Lower Cap is aligned with the alignment mark on the Body. See Fig 5.



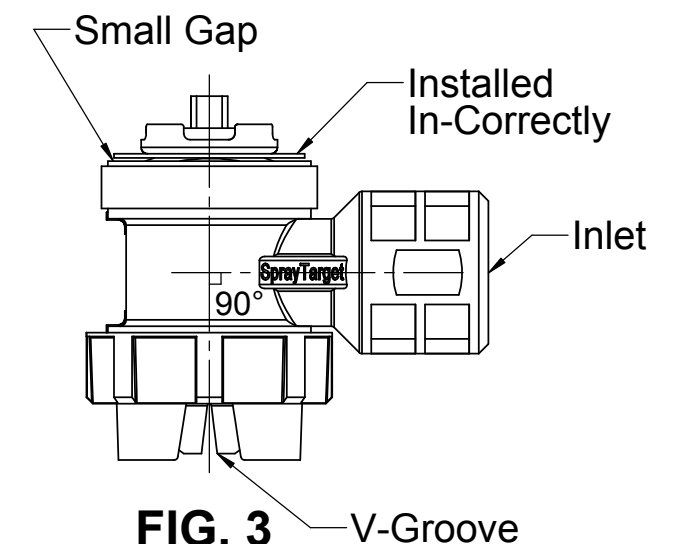
**FIG. 1**



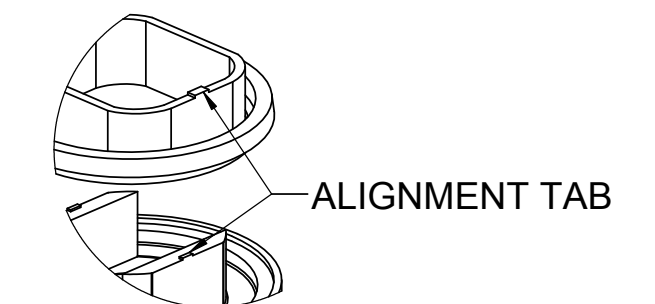
**FIG. 5**



**FIG. 4**



**FIG. 3**



**FIG. 2**

# APPLICATION CHART

Reference Pressure PSI	Flow Rate One Nozzle GPM	GALLONS PER ACRE (GPA) - BASED ON WATER									
		40" SPACING					60" SPACING				
		5 MPH	8 MPH	10 MPH	15 MPH	20 MPH	5 MPH	8 MPH	10 MPH	15 MPH	20 MPH
15	1.5	44.6	27.8	22.3	14.9	11.1	30.0	18.6	14.9	9.9	7.4
18	2.0	59.4	37.1	29.7	19.8	14.9	40.0	25.0	19.8	13.2	9.9
19	3.0	89.1	55.7	44.6	29.7	22.3	59.0	37.0	30.0	19.8	14.9
20	4.0	118.8	74.2	59.4	39.6	29.7	79.0	50.0	40.0	26.4	19.8
21	5.0	148.5	92.8	74.3	49.5	37.1	99.0	62.0	50.0	33.0	24.8
22	6.0	178.2	111.4	89.1	59.4	44.6	119.0	74.0	59.0	39.6	29.7
25	7.0	207.9	129.9	104.0	69.3	52.0	138.0	85.0	69.0	46.2	34.7
28	8.0	237.6	148.5	118.8	79.2	59.4	158.0	99.0	79.0	52.8	39.6
30	9.0	267.3	167.0	133.7	89.1	66.8	178.0	111.0	89.0	59.4	44.6
33	10.0	297.0	185.6	148.5	99.0	74.3	198.0	124.0	99.0	66.0	49.5
38	11.0	326.7	204.2	163.4	108.9	81.7	218.0	136.0	109.0	72.6	54.5
40	12.0	356.4	222.7	178.2	118.8	89.1	238.0	149.0	119.0	79.2	59.4

Flow meter is recommended for accuracy of application. Pressure listed is for reference only