



COMBO-JET® Fertilizer Orifice and Nozzle Cap Selector

Before selecting a fertilizer orifice please note:

- * The orifice, not the cap, determines the fertilizer application rate.
- * COMBO-JET® fertilizer components fit on COMBO-JET® and COMBO-RATE® nozzle bodies. Adapters are available to mount COMBO-JET® caps on conventional nozzle bodies.
- * The Orifice Selector Chart (page 2) is based on water. Fertilizer is more viscous than water so a larger orifice is required for a given flow rate of fertilizer, compared to water. To determine the conversion factor for a given fertilizer, obtain the weight for one gallon or the specific gravity of the fertilizer and select the applicable conversion factor from the adjacent table.

Conversion Factor Chart		
Weight /US Gal	Specific Gravity	Conversion Factor
10.0	1.20	1.10
10.5	1.26	1.12
11.0	1.32	1.15
11.5	1.38	1.17
12.0	1.44	1.20
12.5	1.50	1.22
13.0	1.56	1.25
13.5	1.62	1.27
14.0	1.68	1.30

To select fertilizer application components follow the steps below:

Step 1 - Determine Flow Rate Required

Calculate the flow rate required per nozzle or opener using the following formula:

$$\text{Flow Rate} = \text{Application Rate} \times \text{Speed} \times \text{Spacing} \times \text{Nozzles or Openers} \times \text{Conversion Factor} / 5940$$

- Where:
- Flow Rate (US Gallons per minute)
 - Speed of applicator (mph)
 - Nozzles or Openers supplied by each orifice (#)
 - Application Rate (US Gallons per acre)
 - Spacing of nozzles or openers (inches)
 - Conversion Factor (#)

Step 2 - Select Orifice

On the Orifice Selector Chart (page 2) locate the orifices and pressures that match the required flow rate. Select an orifice with a pressure in the middle of its operating range.

Step 3 - Select Fertilizer Nozzle or Hose Barb Cap & Strainer

- Choose a cap from the colored area of the Caps section of the chart below that is compatible with the orifice part number (white areas are not compatible).
- Choose a strainer from the colored area of the Strainers section of the chart below that is compatible with the orifice part number (white areas are not compatible).

Pre-orifices	COMBO-JET® Caps										COMBO-JET® Strainers				Part No.
	2 Hole			3 Hole				Hose Barb			100	50	25	16	
	40432-047	40432-086	40432-104	40433-047	40433-067	40433-086	40433-104	40420-00	40422-00	40424-00	40425-00	40251-00	40249-00	40248-00	40247-00
40285-007															
40285-01															
40285-015															
40285-02															
40285-025															
40285-03															
40285-04															
40285-05															
40285-06															
40285-08															
40285-10															
40285-125															
40285-15															
40285-20															
40285-25															



