

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 from the adjacent table.

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:

Flow Rate = Application Rate x Speed x Spacing x Nozzles or Openers x 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

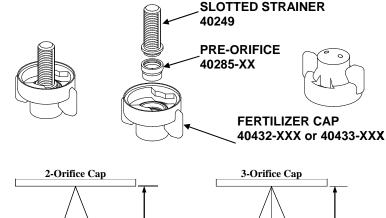
On the Orifice Selector Chart (page 2) locate the orifices and pressures that match the required flow rate. Select an orifice with a pressure in the middle of its operating range.

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

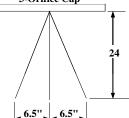
Choose a cap from the colored area of the Caps section of the chart below that is compatible with the orifice part number (white areas are not compatible).

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).

	Ī	COMBO-JET® Caps												COMBO-JET® Strainers						
		2 Hole			3 Hole				Hose	Barb										
	40432	150° C. 40°	380°, 086	*01.70¢	\$40° 56.	190°5 10433	380°C 404	\$01.5°	4045	00.5.00	4042	\$600 \$0056	00.7.	00 200	402	00 J. Lab	<u>~</u>			
Pre-orifices	0.047	0.086	0.104	0.047	0.067	0.086	0.104	1/8"	1/4"	3/8"	1/2"	100	50	25	16					
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																				







Conversion Factor Chart

Specific

Gravity

1.20

1.26

1.32

1.38

1.44

1.50

1.56

1.62

1.68

Conversion

Factor

1.10

1.12

1.17

1.20

1.22

1.25

1.27

1.30

Weight

/US Gal

10.0

10.5

11.0

11.5

12.0

12.5

13.0

13.5

14.0

COMBO-JET® Orifice Selector Chart 0.03 to 0.49 USGPM 0.50 to 0.99 USGPM 0.99 to 3.00 USGPM																								
Flow	40285.	<u> </u>	4020c	5/0,	\$0.50 Jacob	\$	Ş,	8/	\$/	8/	Plow of	ale Je	so	8/	8/	4020k	\$2/	riom.	oje /	40295	\$2/	5/3	<i>o</i> y/	\$ 2
Flow	40,88	\00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0,000	4028C		\$ 100 mg	40202	40-50-04	\$0.50¢	90,00	S S S S S S S S S S S S S S S S S S S	20%	\$0.50 \$050	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	80.50	4028	402gs	No.	40202	4028	402gs	40207	40.20 ASS	Part No.
	0.07	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8		0.5	0.6	0.8	1.0	1.3	1.5		1.0	1.3	1.5	2.0	2.5	
0.03 0.04	8 14										0.50 0.51	40 42	28 29	16 16				1.00 1.05	40 44	26 28	18 20	10 11		
0.05 0.06	22 32	10 14	Ans	licato	r One	roting	Droop		961		0.52 0.53	43 45	30 31	17 18				1.10 1.15	48 53	31 34	22 24	12 13		
0.07	44	20	App	licato	Ope	lating	Fiess	ure - r	.3.1.		0.54	47	32	18				1.20	58	37	26	14		
0.08 0.09	57	26 32	11 14								0.55 0.56	48 50	34 35	19 20				1.25 1.30		40 43	28 30	16 17	10 11	
0.10		40	18	10							0.57	52	36	20				1.35		47	32	18	12	
0.11 0.12		48	22 26	12 14							0.58	54 56	37	21 22				1.40		50 54	35 37	20	13 13	
0.13		58	30	17	11						0.59 0.60	58	39 40	23				1.45 1.50		58	40	21	14	
0.14			35 40	20 23	13 14	10					0.61	60	41 43	23	15 15			1.55 1.60			43 46	24 26	15 16	
0.15 0.16			40 46	23 26	16	10 11					0.62 0.63		43	24 25	16	10		1.60			48	27	17	
0.17 0.18			51 58	29	18	13					0.64		46 47	26	16 17	10		1.70			51 54	29	18 20	
0.18			- 36	32 36	21 23	14 16					0.65 0.66		47	26 27	17	11 11		1.75 1.80			58	31 32	21	
0.20				40	26	18	10				0.67		50	28	18	11		1.85		'		34	22	
0.21 0.22				44 48	28 31	20 22	11 12				0.68 0.69		51 53	29 30	18 19	12 12		1.90 1.95				36 38	23 24	
0.23				53 58	34	24	13				0.70		54	31	20	13		2.00				40	26	
0.24 0.25				58	37 40	26 28	14 16	10			0.71 0.72		56 58	32 32	20 21	13 13		2.05				42 44	27 28	
0.26					43	30	17	11			0.73		59	33	21	14		2.15				46	30	
0.27 0.28					47 50	32 35	18 20	12 13			0.74 0.75			34 35	22 23	14 14	10	2.20 2.25				48 51	31 32	
0.29					54	37	21	13	10		0.76			36	23	15	10	2.30				53	34	
0.30 0.31					58	40 43	23 24	14 15	10 11		0.77 0.78			37 38	24 24	15 16	11 11	2.35 2.40				55 58	35 37	
0.32						46	26	16	11		0.79			39	25	16	11	2.45				60	38	
0.33 0.34						48 51	27 29	17 18	12 13		0.80 0.81			40 41	26 26	16 17	11 12	2.50 2.55					40 42	
0.35						54	31	20	14		0.82			42	27	17	12	2.60					43	
0.36 0.37						58	32 34	21 22	14 15		0.83 0.84			43 44	28 28	18 18	12 13	2.65					45 47	
0.38							36	23	16		0.85			45	29	18	13	2.75					48	
0.39		-					38 40	24 26	17 18	10	0.86 0.87			46 47	30 30	19 19	13 13	2.80 2.85					50 52	
0.41							42	27	19	11	0.88			48	31	20	14	2.90					54	
0.42 0.43							44 46	28 30	20 21	11 12	0.89			50 51	32 32	20 21	14	2.95 3.00	-	-			56 58	
0.44	O	peratir	ng Pre	ssure	- PSI		48	31	22	12	0.91			52	33	21	15							
0.45 0.46							51 53	32 34	23 24	13 13	0.92			53 54	34 35	22 22	15 15							
0.47							55	35	25	14	0.94			55	35	23	16							
0.48 0.49							58 60	37 38	26 27	14 15	0.95 0.96			56 58	36 37	23 24	16 16							
J0								- 50			0.97			59	38	24	17							
											0.98 0.99			60	38 39	25 25	17 17							
											3.00													