

# SJ-VR STREAMJET

## VARIABLE RATE FERTILIZER TIPS

The SJ3-VR and SJ7-VR line of variable rate fertilizer spray tips feature a variable diameter orifice that produces a wide range of flow rates across standard operating pressures. This allows for a wider range of ground speeds and/or application rates from a single tip for improved productivity. The elastomer orifice design provides consistent flow rate performance while utilizing a simple, reliable design with no springs or moving parts.

### FEATURES:

- SJ7-VR tip produces seven identical fluid streams for excellent distribution quality in broadcast applications.
- SJ3-VR produces three identical fluid streams ideal for directed applications.
- Solid stream pattern minimizes leaf burn and virtually eliminates drift.
- Acetal body and deflector plate construction for good wear life and chemical resistance.
- Simple, elastomer (EPDM) variable orifice for reliable, long-term operation.
- Recommended operating pressure:  
SJ3-VR: 20-100 PSI (1.5-7.0 bar)  
SJ7-VR: 30-80 PSI (2.0-5.5 bar)
- SJ3-VR and SJ7-VR are intended for use with flow meter based control systems only.

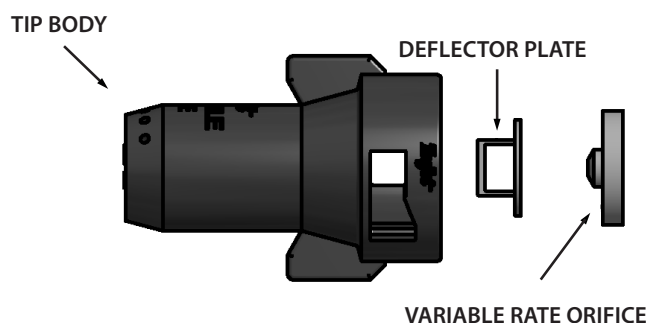


SJ3-VR  
STREAMJET TIP



SJ7-VR  
STREAMJET TIP

### SJ7-VR EXPLODED VIEW



## APPLICATION INFORMATION

Nozzle	Liquid Pressure in bar	Capacity 1 Nozzle in l/min	l/ha for 35cm Spacing									
			8 km/hr	10 km/hr	12 km/hr	14 km/hr	16 km/hr	18 km/hr	20 km/hr	25 km/hr	30 km/hr	35 km/hr
SJ3-VR	1.5	0.84	180	144	120	103	90.0	80.0	72.0	57.6	48.0	41.1
	2.0	1.02	219	175	146	125	109	97.1	87.4	69.9	58.3	50.0
	3.0	1.41	302	242	201	173	151	134	121	96.7	80.6	69.1
	4.0	1.84	394	315	263	225	197	175	158	126	105	90.1
	5.0	2.33	499	399	333	285	250	222	200	160	133	114
	6.0	2.86	613	490	409	350	306	272	245	196	163	140
	7.0	3.44	737	590	491	421	369	328	295	236	197	168

Nozzle	Liquid Pressure in bar	Capacity 1 Nozzle in l/min	l/ha for 50cm Spacing									
			8 km/hr	10 km/hr	12 km/hr	14 km/hr	16 km/hr	18 km/hr	20 km/hr	25 km/hr	30 km/hr	35 km/hr
SJ3-VR	1.5	0.84	126	101	84.0	72.0	63.0	56.0	50.4	40.3	33.6	28.8
	2.0	1.02	153	122	102	87.4	76.5	68.0	61.2	49.0	40.8	35.0
	3.0	1.41	212	169	141	121	106	94.0	84.6	67.7	56.4	48.3
	4.0	1.84	276	221	184	158	138	123	110	88.3	73.6	63.1
	5.0	2.33	350	280	233	200	175	155	140	112	93.2	79.9
	6.0	2.86	429	343	286	245	215	191	172	137	114	98.1
	7.0	3.44	516	413	344	295	258	229	206	165	138	118

Nozzle	Liquid Pressure in bar	Capacity 1 Nozzle in l/min	l/ha for 50cm Spacing									
			8 km/hr	10 km/hr	12 km/hr	14 km/hr	16 km/hr	18 km/hr	20 km/hr	25 km/hr	30 km/hr	35 km/hr
SJ7-VR	2.0	1.01	152	121	101	86.6	75.8	67.3	60.6	48.5	40.4	34.6
	2.5	1.20	180	144	120	103	90.0	80.0	72.0	57.6	48.0	41.1
	3.0	1.42	213	170	142	122	107	94.7	85.2	68.2	56.8	48.7
	4.0	1.94	291	233	194	166	146	129	116	93.1	77.6	66.5
	5.0	2.58	387	310	258	221	194	172	155	124	103	88.5
	5.5	2.94	441	353	294	252	221	196	176	141	118	101

Nozzle	Liquid Pressure in bar	Capacity 1 Nozzle in l/min	l/ha for 75cm Spacing									
			8 km/hr	10 km/hr	12 km/hr	14 km/hr	16 km/hr	18 km/hr	20 km/hr	25 km/hr	30 km/hr	35 km/hr
SJ7-VR	2.0	1.01	101	80.8	67.3	57.7	50.5	44.9	40.4	32.3	26.9	23.1
	2.5	1.20	120	96.0	80.0	68.6	60.0	53.3	48.0	38.4	32.0	27.4
	3.0	1.42	142	114	94.7	81.1	71.0	63.1	56.8	45.4	37.9	32.5
	4.0	1.94	194	155	129	111	97.0	86.2	77.6	62.1	51.7	44.3
	5.0	2.58	258	206	172	147	129	115	103	82.6	68.8	59.0
	5.5	2.94	294	235	196	168	147	131	118	94.1	78.4	67.2

DENSITY - kg/L	CONVERSION FACTOR
0.84	0.92
0.96	0.98
1.00 - WATER	1.00
1.08	1.04
1.20	1.10
1.28 - 28% NITROGEN	1.13
1.32	1.15
1.44	1.20
1.68	1.30

\*NOTE: Conversion factors must be used when spraying solutions heavier or lighter than water. First, multiply desired application rate by the appropriate conversion factor above. Then use the new application rate to select the most appropriate operating pressure from the application chart on this page.

OPTIMUM SPRAY HEIGHT	
NOZZLE SPACING	SPRAY HEIGHT
50 cm	50 cm
75 cm	75 cm
100 cm	100 cm

\* For best spray distribution maintain a 1:1 ratio of tip height to tip spacing.