

QJ-VR & PTC-VR

VARIABLE RATE FERTILIZER ASSEMBLIES

The QJ-VR and PTC-VR line of variable rate fertilizer assemblies feature a variable diameter orifice that produces a wide range of flow rates - its like having several metering orifices in one. This allows for a wider range of ground speeds and/or application rates from a single size for improved productivity. These assemblies are also ideal for variable rate prescription map applications. The elastomer orifice design provides consistent flow rate performance while utilizing a simple, reliable design with no springs or moving parts.

FEATURES:

- Both QJ-VR and PTC-VR are ideal for installation on planters and toolbars for liquid fertilizer metering and application.
- PTC-VR features nylon construction for excellent strength and chemical resistance.
- QJ-VR features acetal body construction with choice of nylon or stainless steel hose barbs for strength and excellent chemical resistance.
- PTC-VR Push-to-Connect is available to fit 1/4", 5/16" or 3/8" O.D. tubing.
- QJ-VR hose barb assembly is available to fit 1/4" or 3/8" I.D. hose.
- Simple, elastomer (EPDM) variable orifice for reliable, long-term operation.
- Recommended operating pressure:
10-100 PSI (0.7-7.0 bar)



PTC-VR PUSH-TO-CONNECT
METERING ASSEMBLY



QJ-VR HOSE BARB
METERING ASSEMBLY



APPLICATION INFORMATION

Assembly	Liquid Pressure in psi	Capacity 1 Nozzle in GPM	GPA for 20" Spacing (water)							
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	20 MPH
QJ-VR & PTC-VR	10	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.4	1.9
	20	0.21	15.4	12.4	10.3	7.7	6.2	5.1	3.9	3.1
	30	0.28	20	16.4	13.7	10.2	8.2	6.8	5.1	4.1
	40	0.35	26	21	17.3	13.0	10.4	8.7	6.5	5.2
	50	0.44	32	26	22	16.2	12.9	10.8	8.1	6.5
	60	0.53	40	32	26	19.8	15.9	13.2	9.9	7.9
	70	0.64	48	38	32	24	19.1	15.9	12.0	9.6
	80	0.77	57	46	38	29	23	19.1	14.3	11.4
	90	0.90	67	53	45	33	27	22	16.7	13.4
	100	1.03	76	61	51	38	31	25	19.1	15.3

Assembly	Liquid Pressure in psi	Capacity 1 Nozzle in GPM	GPA for 30" Spacing (water)							
			4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	12 MPH	16 MPH	20 MPH
QJ-VR & PTC-VR	10	0.13	6.4	5.1	4.3	3.2	2.6	2.1	1.6	1.3
	20	0.21	10.3	8.2	6.9	5.1	4.1	3.4	2.6	2.1
	30	0.28	13.7	10.9	9.1	6.8	5.5	4.6	3.4	2.7
	40	0.35	17.3	13.9	11.6	8.7	6.9	5.8	4.3	3.5
	50	0.44	22	17.3	14.4	10.8	8.6	7.2	5.4	4.3
	60	0.53	26	21	17.6	13.2	10.6	8.8	6.6	5.3
	70	0.64	32	26	21	15.9	12.8	10.6	8.0	6.4
	80	0.77	38	30	25	19.1	15.2	12.7	9.5	7.6
	90	0.90	45	36	30	22	17.8	14.9	11.1	8.9
	100	1.03	51	41	34	25	20	17.0	12.7	10.2

WEIGHT OF SOLUTION	SPECIFIC GRAVITY	CONVERSION FACTOR
7.0 lbs./gal	0.84	0.92
8.0 lbs./gal	0.96	0.98
8.34 lbs./gal	1.00 - WATER	1.00
9.0 lbs./gal	1.08	1.04
10.0 lbs./gal	1.20	1.10
10.65 lbs./gal	1.28 - 28% NITROGEN	1.13
11.0 lbs./gal	1.32	1.15
12.0 lbs./gal	1.44	1.20
14.0 lbs./gal	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.

Note: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

How To Order:

Example:

PART NUMBER	DESCRIPTION
QJ-VR-1/4-SS	QJ-VR 1/4" Stainless Steel Hose Barb Variable Rate Metering Assembly
PTC-VR-3/8	3/8" Push-to-Connect Variable Rate Metering Assembly

