PWM Nozzles

PWM Valve Speed Range (MPH) - 20" Spacing

Tip Size	Gauge (PSI)	Nozzle (PSI)	BP	SD	DF	10 GPA Min 25%	10 GPA 50%	10 GPA 75%	10 GPA Max 100%	12.5 GPA Min 25%	12.5 GPA 50%	12.5 GPA 75%	12.5 GPA Max 100%	15 GPA Min 25%	15 GPA 50%	15 GPA 75%	15 GPA Max 100%	20 GPA Min 25%	20 GPA 50%	20 GPA 75%	20 GPA Max 100%
0.3 GPM #3	20	20	VC		F	2	3	5	6	1	2	4	5	1	2	3	4	1	2	2	3
	30	30	VC		F	2	4	6	8	2	3	5	6	1	3	4	5	1	2	3	4
	40	39	C		F	2	4	7	9	2	4	5	7	1	3	4	6	1	2	3	4
	50	49	C		F	2	5	7	10	2	4	6	8	2	3	5	7	1	2	4	5
	60	59	M		F	3	5	8	11	2	4	6	9	2	4	5	7	1	3	4	5
	70	69	M		F	3	6	9	12	2	5	7	9	2	4	6	8	1	3	4	6
0.4 GPM #4	20	19	VC	UC	F	2	4	6	8	2	3	5	7	1	3	4	5	1	2	3	4
	30	29	VC	UC	F	3	5	8	10	2	4	6	8	2	3	5	7	1	3	4	5
	40	39	C	XC	F	3	6	9	12	2	5	7	9	2	4	6	8	1	3	4	6
	50	49	C	XC	F	3	6	10	13	3	5	8	10	2	4	6	9	2	3	5	6
	60	58	M	XC	F	4	7	11	14	3	6	8	11	2	5	7	9	2	4	5	7
	70	68	M	XC	F	4	8	11	15	3	6	9	12	3	5	8	10	2	4	6	8
0.5 GPM #5	20	19	XC	UC	F	3	5	8	10	2	4	6	8	2	3	5	7	1	3	4	5
	30	29	VC	UC	F	3	6	9	12	2	5	7	10	2	4	6	8	2	3	5	6
	40	38	C	XC	F	4	7	11	14	3	6	9	11	2	5	7	9	2	4	5	7
	50	48	C	XC	F	4	8	12	16	3	6	10	13	3	5	8	11	2	4	6	8
	60	58	C	XC	F	4	9	13	17	3	7	10	14	3	6	9	12	2	4	7	9
	70	67	M	XC	F	5	9	14	19	4	8	11	15	3	6	9	13	2	5	7	9
0.6 GPM #6	20	19	XC	UC	F	3	6	9	12	2	5	7	9	2	4	6	8	1	3	4	6
	30	28	VC	UC	F	4	7	11	15	3	6	9	12	2	5	7	10	2	4	5	7
	40	38	VC	XC	F	4	8	13	17	3	7	10	13	3	6	8	11	2	4	6	8
	50	47	C	XC	F	5	9	14	19	4	8	11	15	3	6	9	13	2	5	7	9
	60	56	C	XC	F	5	10	15	21	4	8	12	16	3	7	10	14	3	5	8	10
	70	66	M	XC	F	6	11	17	22	4	9	13	18	4	7	11	15	3	6	8	11
0.7 GPM #7	20	18			F	3	7	10	14	3	5	8	11	2	5	7	9	2	3	5	7
	30	28			F	4	8	12	17	3	7	10	13	3	6	8	11	2	4	6	8
	40	37			F	5	10	14	19	4	8	11	15	3	6	10	13	2	5	7	10
	50	46			F	5	11	16	21	4	9	13	17	4	7	11	14	3	5	8	11
	60	55			F	6	12	18	23	5	9	14	19	4	8	12	16	3	6	9	12
	70	65			F	6	13	19	25	5	10	15	20	4	8	13	17	3	6	10	13
0.8 GPM #8	20	18		UC	M	4	8	11	15	3	6	9	12	3	5	8	10	2	4	6	8
	30	27		UC	F	5	9	14	19	4	7	11	15	3	6	9	12	2	5	7	9
	40	36		XC	F	5	11	16	21	4	9	13	17	4	7	11	14	3	5	8	11
	50	45		XC	F	6	12	18	24	5	10	14	19	4	8	12	16	3	6	9	12
	60	54		XC	F	7	13	20	26	5	10	16	21	4	9	13	17	3	7	10	13
	70	63		XC	F	7	14	21	28	6	11	17	23	5	9	14	19	4	7	11	14
0.9 GPM #9	20	18			M	4	8	12	17	3	7	10	13	3	6	8	11	2	4	6	8
	30	26			F	5	10	15	20	4	8	12	16	3	7	10	14	3	5	8	10
	40	35			F	6	12	18	23	5	9	14	19	4	8	12	16	3	6	9	12
	50	44			F	7	13	20	26	5	10	16	21	4	9	13	17	3	7	10	13
	60	53			F	7	14	22	29	6	11	17	23	5	10	14	19	4	7	11	14
	70	61			F	8	16	23	31	6	12	19	25	5	10	16	21	4	8	12	16
1.0 GPM #10	20	17		UC	M	4	9	13	18	4	7	11	14	3	6	9	12	2	4	7	9
	30	26		UC	F	5	11	16	22	4	9	13	18	4	7	11	15	3	5	8	11
	40	34		UC	F	6	13	19	25	5	10	15	20	4	8	13	17	3	6	9	13
	50	43		UC	F	7	14	21	28	6	11	17	23	5	9	14	19	4	7	11	14
	60	51		UC	F	8	16	23	31	6	12	19	25	5	10	16	21	4	8	12	16
	70	60		UC	F	8	17	25	33	7	13	20	27	6	11	17	22	4	8	13	17
1.2 GPM #12	20	16			M	5	10	15	20	4	8	12	16	3	7	10	13	3	5	8	10
	30	24			M	6	12	19	25	5	10	15	20	4	8	12	16	3	6	9	12
	40	32			F	7	14	21	29	6	11	17	23	5	10	14	19	4	7	11	14
	50	40			F	8	16	24	32	6	13	19	26	5	11	16	21	4	8	12	16
	60	48			F	9	17	26	35	7	14	21	28	6	12	17	23	4	9	13	17
	70	56			F	9	19	28	38	8	15	23	30	6	13	19	25	5	9	14	19
1.4 GPM #14	20	15			C	5	11	16	22	4	9	13	18	4	7	11	15	3	5	8	11
	30	22			M	7	13	20	27	5	11	16	22	4	9	13	18	3	7	10	13
	40	30			M	8	16	23	31	6	12	19	25	5	10	16	21	4	8	12	16
	50	37			F	9	17	26	35	7	14	21	28	6	12	17	23	4	9	13	17
	60	45			F	10	19	29	38	8	15	23	30	6	13	19	25	5	10	14	19
	70	52			F	10	21	31	41	8	16	25	33	7	14	21	27	5	10	15	21
1.6 GPM #16	20	14			--	6	12	17	23	5	9	14	19	4	8	12	16	3	6	9	12
	30	21			M	7	14	21	29	6	11	17	23	5	10	14	19	4	7	11	14
	40	28			M	8	16	25	33	7	13	20	26	5	11	16	22	4	8	12	16
	50	35			M	9	18	28	37	7	15	22	29	6	12	18	25	5	9	14	18
	60	42			F	10	20	30	40	8	16	24	32	7	13	20	27	5	10	15	20
	70	49			F	11	22	33	44	9	17	26	35	7	15	22	29	5	11	16	22
1.8 GPM #18	20	13			--	6	12	18	24	5	10	15	19	4	8	12	16	3	6	9	12
	30	19			C	7	15	22	30	6	12	18	24	5	10	15	20	4	7	11	15
	40	26			C	9	17	26	34	7	14	21	27	6	11	17	23	4	9	13	17
	50	32			M	10	19	29	38	8	15	23	31	6	13	19	26	5	10	14	19
	60	38			M	10	21	31	42	8	17	25	34	7	14	21	28	5	10	16	21
	70	45			M	11	23	34	45	9	18	27	36	8	15	23	30	6	11	17	23
2.0 GPM #20	20	12			--	8	12	19	25	5	10	15	20	4	8	12	17	3	6	9	12
	30	18			C	8	15	23	30	6	12	18	24	5	10	15	20	4	8	11	15
	40	24			C	9	18	26	35	7	14	21	28	6	12	18	23	4	9	13	18
	50	30			M	10	20	29	39	8	16	24	31	7	13	20	26	5	10	15	20
	60	35			M	11	21	32	43	9	17	26	34	7	14	21	29	5	11	16	21
	70	41			M	12	23	35	46	9	19	28	37	8	15	23	31	6	12	17	23

**** See Dultmeier.com for Additional Sizing Information***

Part No.

GT SD11004 thru SD11010 — SoftDrop PWM Nozzles

GT BPDF04 thru BPDF12 — Blended Pulse Dual Fan Spray Nozzles

GT DF02 thru DF20 — SprayMax Dual Fan Nozzles

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PWM Non-Air Inducted Nozzles

Greenleaf **Non-Air-Inducted Spray Nozzles** are an excellent choice when operating PWM systems, ensuring proper dosage of chemicals, correct droplet size and spray patternization, and accurate adjustments against sprayer speed changes and turn compensation. The target speed is highlighted at 75%, which indicates the duty cycle—or percent of time the nozzle is spraying.

To select a nozzle, start with intended GPA rate needed, move down the 75% duty column, and find your average speed. Look left to see the droplet spectrum offered for various nozzles and select the size which delivers the optimal droplet sizes based upon your application. Larger nozzles create larger pressure drop; require higher boom pressure to compensate.

A **SoftDrop Nozzle** is specially designed with an asymmetric turbulence chamber that produces Extremely Coarse droplets for superb drift control. Use with auxin herbicides, liquid fertilizers, and other systemic chemicals such as dicamba and 2,4-D. The ideal operating range is between 40 and 70 PSI.

The **BPDF Nozzle** is a blended pulse dual fan spray nozzle that is specifically designed for multi-purpose PWM operation. This dual fan spray nozzle is designed to produce Medium to Very Coarse droplet sizes – depending upon the orifice size and pressure. A BPDF nozzle provides the best of both excellent coverage and drift control. Recommended pressure ranges of 20 to 70 PSI for optimal results. The lower end of the pressure spectrum is better for burndown applications where drift control is important. Slightly higher pressures will be best for coverage-critical applications like contact herbicides, fungicides, and insecticides.

SprayMax Dual Fan Nozzles (DF) employ conventional flat fan tips within a non-air inducted asymmetric dual cap. Tips are oriented 10° forward, 50° rearward to provide maximum coverage and penetration in complex canopies. SprayMax Dual Fan nozzles create Medium to Fine droplet sizes ideal for contact critical broadcast applications and should be operated at the lowest pressures possible to reduce drift potential.

SoftDrop

SD11004
SD11005
SD11006
SD11008
SD11010

Blended Pulse

BPDF04
BPDF05
BPDF06
BPDF07
BPDF08
BPDF09
BPDF10
BPDF12

SprayMax

DF02
DF025
DF03
DF035
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DF045
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DF20