

Since 1956

SCHUMACHER

IRRIGATION, INC.

Irrigation & Liquid Handling Solutions

Sime Volume Sprinklers

These high performance gear-driven sprinklers are ideal for use on delicate plants such as seedlings, flowers and vegetables, or on heavy soils where light, gentle applications are required. Their smooth running, continuous rotation makes them ideal for use on tripods, travelers, or as end guns on center pivots.

Their uniform rotation speed provides equal rainfall over the entire wetted area. The sprinklers can be easily adjusted to full or part-circle operation. Sprinklers include interchangeable nozzles of different sizes and an adjustable jet breaker which help in providing a uniform distribution of water under various gallons and pressure conditions. These sprinklers are available in seven model sizes to choose from.

The Mariner and Gemini models are equipped with a special gearbox with two different sprinkler rotation speeds. The first speed (high) is particularly useful for recently sown crops or for delicate crops during germination because of the rapid passage of which does not cause erosion or damage to the crop. The second speed (slow) is suitable for robust or partially grown crops.



Skipper (P-191)

Advantages:

- Smooth, continuous rotation with superior stream break-up and less vibration compared to impact driven sprinklers
- Gentle sweeps are ideal for tender crops
- Superior coverage due to rapid rotation (average 90 seconds)
- Full and part-circle arc adjustments require no tools.
- Includes flip nozzles allowing one gun to have 22° or 28° trajectory capabilities (25° nozzles optional)

Sime Volume Sprinkler Performance Table:

Skipper 191 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
0.4	10	29	120	23
		37	132	26
		44	136	28
		56	150	33
0.47	12	29	144	42
		44	164	51
		56	184	59
		70	202	66
0.55	14	29	156	51
		44	176	66
		56	196	76
		70	216	86
0.63	16	29	170	68
		44	190	83
		56	208	96
		70	228	107
0.71	18	29	182	54
		44	202	106
		56	222	124
		70	242	137

Deduct 2% for 25 deg and 5% for 22 deg nozzles.

River (P-190)



River 190 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
0.4	10	29	120	23
		37	132	26
		44	136	28
		56	150	33
		37	136	38
0.47	12	44	144	41
		51	156	44
		56	170	47
		37	136	51
0.55	14	44	150	56
		51	164	61
		66	176	68
		44	164	73
		51	176	79
0.63	16	56	188	84
		70	204	94
		44	164	92
		56	204	107
0.71	18	70	216	119
		85	228	131

Mercury (P-202)



Mercury 202 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
0.47	12	29	144	42
		44	164	51
		56	184	59
		70	202	66
0.55	14	29	156	51
		44	176	66
		56	196	76
		70	216	86
		29	170	68
0.63	16	44	190	83
		56	208	96
		70	228	107
		44	184	105
		56	200	119
0.71	18	70	216	130
		85	250	170
		44	208	142
		56	228	165
0.78	20	70	250	180
		85	276	203

Deduct 2% for 25 deg and 5% for 22 deg nozzles.
• Other Nozzle Sizes Available

Big River (P-250)



Big River 250 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
0.71	18	44	196	119
		56	214	139
		70	230	124
		85	250	170
0.78	20	44	238	137
		56	264	159
		70	282	178
		85	300	194
		56	268	186
0.86	22	66	282	197
		70	294	208
		85	314	228
		56	282	217
		66	294	230
0.94	24	70	308	243
		85	328	266
		56	294	250
		70	314	380
1	26	85	338	307
		100	346	330

Deduct 2% for 25 deg and 5% for 22 deg nozzles.
• Other Nozzle Sizes Available

Mariner (P-401)



Mariner 401 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
1	26	44	274	173
		56	308	211
		70	336	244
		85	354	273
1.1	28	44	294	242
		56	320	280
		70	340	313
		85	362	343
1.2	30	56	382	319
		70	354	356
		85	374	390
		100	398	421
1.25	32	56	340	359
		70	368	402
		85	384	440
		100	404	475
1.35	34	70	374	451
		85	398	494
		100	420	533
		115	440	571

Deduct 2% for 25 deg and 5% for 22 deg nozzles.

Polaris (P-200)



Polaris 200 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
1	26	56	302	263
		70	230	295
		85	340	323
		100	362	348
1.1	28	56	314	300
		70	328	324
		85	354	366
		100	380	395
1.2	30	56	320	338
		70	340	378
		85	368	414
		100	384	446
1.25	32	70	362	423
		85	380	464
		100	394	500
		115	404	536
1.35	34	70	374	472
		85	394	517
		100	404	558
		115	418	598

Deduct 2% for 25 deg and 5% for 22 deg nozzles.
• Other Nozzle Sizes Available

Gemini (P-600 / P-1200)



Gemini 1200 28 Degree				
Nozzle Diameter		Pressure	Diameter	Discharge
Inch	MM	PSI	Feet	GPM
1.2	30	56	328	319
		70	354	356
		85	374	390
		100	398	421
		70	368	424
1.25	32	85	84	464
		100	404	500
		115	426	536
		70	380	472
		85	398	518
1.35	34	100	420	558
		115	440	598
		70	398	525
		85	420	574
1.42	36	100	440	620
		115	458	664
		85	434	635
		100	458	685
		115	472	733
1.5	38	128	492	777

Deduct 2% for 25 deg and 5% for 22 deg nozzles.
• Other Nozzle Sizes Available