

# 20series[Impacts



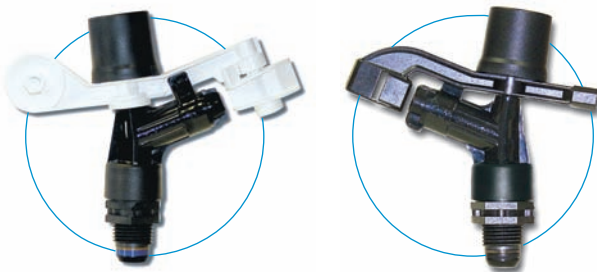
The 20 series full-circle impacts are Senninger's most economical sprinklers. Effective for various overhead and undertree applications.

**FEATURES:**

- Single nozzle design for maximum throw
- Three trajectories available:  
2009 - 9°- fights wind drift and evaporation  
2014 - 14°- ideal for undertree irrigation  
2023 - 23°- for maximum throw on overhead systems
- Wide range of nozzle and vane combinations for excellent distribution at all pressures
- Built-in hex wrench for easy in-the-field maintenance
- Standard lower bearing pipe thread:  
1/2" M NPT (female also available)
- Flow rates: 1.22 to 3.98 gpm [288 to 900 L/hr]
- Color-coded nozzles for easy size identification /warranted to maintain correct orifice size for five years
- Two-year warranty on materials,workmanship AND performance

**Other Models:**

- Wedgedrive for lower application rates.
- Aluminum Arm resists icing during freezing temperatures.

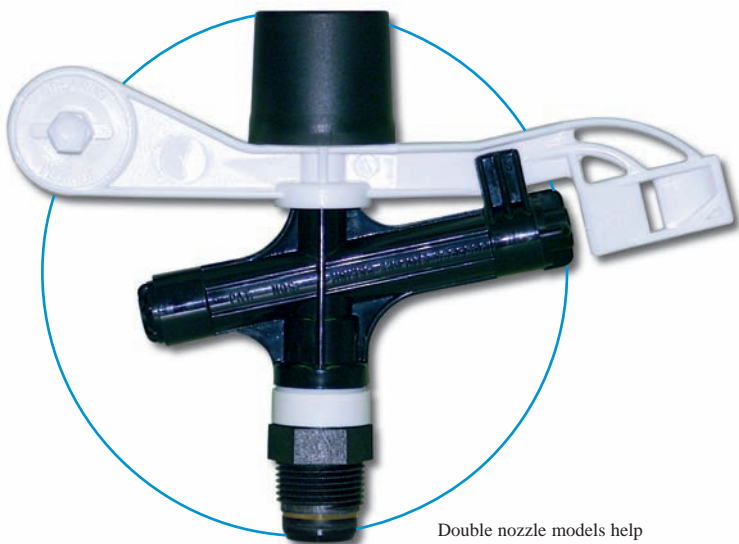


**2009HD-1-1/2" M**

U.S. Data						Metric	[bar]	2.0	2.5	3.0	3.5
Sprinkler Base Press. [psi]	30	35	40	45	50	Data	[psi]	29.00	36.25	43.50	50.75
<b>#6 Nozzle - Gold [3/32"]</b>						<b>#6 Nozzle-Gold [2.38mm]</b>					
Flow [gpm]	1.34	1.45	1.55	1.64	-	Flow [L/hr]		288	324	360	-
Diam. at 1.5' ht. [ft.]	58	60	62	64	-	Diam. at 0.5m ht. [m]		17.6	18.4	19.3	-
<b>#7 Nozzle - Lime [7/64"]</b>						<b>#7 Nozzle-Lime [2.78mm]</b>					
Flow [gpm]	1.84	1.99	2.12	2.25	2.37	Flow [L/hr]		396	468	504	540
Diam. at 1.5' ht. [ft.]	60	62	64	66	67	Diam. at 0.5m ht. [m]		18.2	19.0	19.9	20.5
<b>#8 Nozzle - Lavender [1/8"]</b>						<b>#8 Noz.-Lavender [3.18mm]</b>					
Flow [gpm]	2.42	2.62	2.79	2.97	3.12	Flow [L/hr]		540	612	648	720
Diam. at 1.5' ht. ft. [ft.]	62	64	66	68	69	Diam. at 0.5m ht. [m]		18.8	19.7	20.5	21.1
<b>#9 Nozzle - Grey [9/64"]</b>						<b>#9 Nozzle- Grey [3.57mm]</b>					
Flow [gpm]	3.08	3.33	3.56	3.78	3.98	Flow [L/hr]		684	756	828	900
Diam. at 1.5' ht. [ft.]	64	66	68	70	71	Diam. at 0.5m ht. [m]		19.4	20.3	21.2	21.7

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 1.5-3.0 ft. (0.46-0.9m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).

# 40series[Impacts

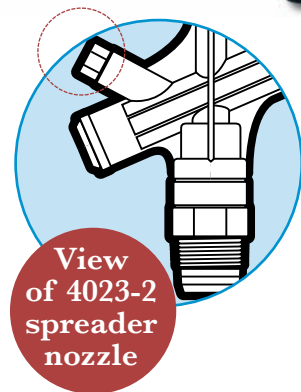


Double nozzle models help maximize uniformity.

The 40 Series full-circle impacts are designed for maximum efficiency at intermediate flows.

**FEATURES:**

- Single and double nozzle designs available. Double nozzle only available in 23° model.
- Two trajectories available:  
12° - ideal for undertree irrigation  
23° - for maximum throw on overhead systems
- Wide range of nozzle and vane combinations for excellent distribution at all pressures
- Built-in hex wrench for easy in-the-field maintenance
- Standard lower bearing pipe thread: 3/4" M NPT (female also available)
- Flow rates: 3.82 to 12.6 gpm [0.24 to 0.78 L/s]
- Color-coded nozzles for easy size identification /warranted to maintain correct orifice size for five years
- Two-year warranty on materials, workmanship AND performance



View of 4023-2 spreader nozzle



## 4012-1-3/4" M

U.S. Data								Metric Data		[bar]	2.0	2.5	3.0	3.5	4.0
Sprinkler Base Press. [psi]										[psi]	29.00	36.25	43.50	50.75	58.00
	30	35	40	45	50	55	60								
<b>#10 Nozzle - Turquoise [5/32"]</b>								<b>#10 Nozzle - Turquoise [3.97mm]</b>							
Flow [gpm]	3.82	4.13	4.41	4.68	4.93	5.17	5.40	Flow [L/s]	0.24	0.26	0.29	0.31	0.33		
Diam. at 1.5' ht. [ft.]	73	77	80	83	86	89	91	Diam. at 0.5m ht. [m]	22.0	23.7	25.0	26.3	27.5		
<b>#11 Nozzle - Yellow [11/64"]</b>								<b>#11 Nozzle - Yellow [4.37mm]</b>							
Flow [gpm]	4.63	5.00	5.34	5.67	5.98	6.27	6.55	Flow [L/s]	0.29	0.32	0.35	0.38	0.41		
Diam. at 1.5' ht. [ft.]	76	80	83	86	89	92	94	Diam. at 0.5m ht. [m]	22.9	24.6	25.9	27.3	28.4		
<b>#12 Nozzle - Red [3/16"]</b>								<b>#12 Nozzle - Red [4.76mm]</b>							
Flow [gpm]	5.52	5.97	6.37	6.76	7.13	7.48	7.81	Flow [L/s]	0.34	0.38	0.42	0.45	0.48		
Diam. at 1.5' ht. [ft.]	78	82	85	88	91	94	96	Diam. at 0.5m ht. [m]	23.5	25.2	26.5	27.9	29.0		
<b>#13 Nozzle - White [13/64"]</b>								<b>#13 Nozzle - White [5.16mm]</b>							
Flow [gpm]	6.50	7.02	7.49	7.95	8.38	8.80	9.19	Flow [L/s]	0.40	0.45	0.49	0.53	0.57		
Diam. at 1.5' ht. [ft.]	80	84	87	90	93	96	98	Diam. at 0.5m ht. [m]	24.1	25.8	27.2	28.5	29.8		
<b>#14 Nozzle - Blue [7/32"]</b>								<b>#14 Nozzle - Blue [5.56mm]</b>							
Flow [gpm]	7.49	8.09	8.63	9.17	9.66	10.1	10.6	Flow [L/s]	0.46	0.52	0.57	0.61	0.66		
Diam. at 1.5' ht. [ft.]	82	86	89	93	96	99	101	Diam. at 0.5m ht. [m]	24.7	26.4	28.0	29.4	30.5		

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 6.5-10.0 ft. (2.0-3.1m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).

# Impacts]40series

## 4023-1-3/4" M

U.S. Data								Metric Data					
Sprinkler Base Press. [psi]	30	35	40	45	50	55	60	[bar]	2.0	2.5	3.0	3.5	4.0
								[psi]	29.00	36.25	43.50	50.75	58.00
<b>#10 Nozzle - Turquoise [5/32"]</b>								<b>#10 Nozzle - Turquoise [3.97mm]</b>					
Flow [gpm]	3.82	4.13	4.41	4.68	4.93	5.17	5.40	Flow [L/s]	0.24	0.26	0.29	0.31	0.33
Diam. at 1.5' ht. [ft.]	86	89	91	93	95	96	97	Diam. at 0.5m ht. [m]	26.0	27.3	28.2	29.0	29.4
Diam. at 6.0' ht. [ft.]	92	94	96	97	98	99	100	Diam. at 2.0m ht. [m]	27.9	28.8	29.5	29.9	30.4
<b>#11 Nozzle - Yellow [11/64"]</b>								<b>#11 Nozzle - Yellow [4.37mm]</b>					
Flow [gpm]	4.63	5.00	5.34	5.67	5.98	6.27	6.55	Flow [L/s]	0.29	0.32	0.35	0.38	0.41
Diam. at 1.5' ht. [ft.]	89	92	94	96	98	99	100	Diam. at 0.5m ht. [m]	26.9	28.2	29.1	29.9	30.4
Diam. at 6.0' ht. [ft.]	94	96	98	100	102	103	104	Diam. at 2.0m ht. [m]	28.5	29.4	30.3	31.1	31.6
<b>#12 Nozzle - Red [3/16"]</b>								<b>#12 Nozzle - Red [4.76mm]</b>					
Flow [gpm]	5.52	5.97	6.37	6.76	7.13	7.48	7.81	Flow [L/s]	0.34	0.38	0.42	0.45	0.48
Diam. at 1.5' ht. [ft.]	92	95	97	99	101	102	103	Diam. at 0.5m ht. [m]	27.9	29.1	30.0	30.8	31.3
Diam. at 6.0' ht. [ft.]	97	99	101	103	105	107	108	Diam. at 2.0m ht. [m]	29.4	30.3	31.2	32.1	32.8
<b>#13 Nozzle - White [13/64"]</b>								<b>#13 Nozzle - White [5.16mm]</b>					
Flow [gpm]	6.50	7.02	7.49	7.95	8.38	8.80	9.19	Flow [L/s]	0.40	0.45	0.49	0.53	0.57
Diam. at 1.5' ht. [ft.]	94	97	99	101	103	104	105	Diam. at 0.5m ht. [m]	28.5	29.7	30.6	31.4	31.9
Diam. at 6.0' ht. [ft.]	100	103	106	109	112	115	117	Diam. at 2.0m ht. [m]	30.2	31.6	32.9	34.3	35.4
<b>#14 Nozzle - Blue [7/32"]</b>								<b>#14 Nozzle - Blue [5.56mm]</b>					
Flow [gpm]	7.49	8.09	8.63	9.17	9.66	10.1	10.6	Flow [L/s]	0.46	0.52	0.57	0.61	0.66
Diam. at 1.5' ht. [ft.]	96	99	101	103	105	106	107	Diam. at 0.5m ht. [m]	29.1	30.3	31.2	32.0	32.5
Diam. at 6.0' ht. [ft.]	102	106	110	114	118	122	125	Diam. at 2.0m ht. [m]	30.8	32.6	34.4	36.1	37.7

## 4023-2-3/4" M

U.S. Data								Metric Data					
Sprinkler Base Press. [psi]	30	35	40	45	50	55	60	[bar]	2.0	2.5	3.0	3.5	4.0
								[psi]	29.00	36.25	43.50	50.75	58.00
<b>10x6 #10 Nozzle - Turquoise [5/32"] x #6 Spreader Nozzle [3/32"]</b>								<b>10x6 #10 Nozzle - Turquoise [3.97mm] x #6 Nozzle [2.38mm]</b>					
Flow [gpm]	5.25	5.67	6.07	6.43	6.78	7.11	7.43	Flow [L/s]	0.33	0.36	0.40	0.43	0.46
Diam. at 1.5' ht. [ft.]	86	89	91	93	95	96	97	Diam. at 0.5m ht. [m]	26.0	27.3	28.2	29.0	29.4
Diam. at 6.0' ht. [ft.]	92	94	96	97	98	99	100	Diam. at 2.0m ht. [m]	27.9	28.8	29.5	29.9	30.4
<b>11x6 #11 Nozzle - Yellow [11/64"] x #6 Spreader Nozzle [3/32"]</b>								<b>11x6 #11 Nozzle - Yellow [4.37mm] x #6 Nozzle [2.38mm]</b>					
Flow [gpm]	6.10	6.59	7.05	7.47	7.88	8.26	8.63	Flow [L/s]	0.38	0.42	0.46	0.50	0.53
Diam. at 1.5' ht. [ft.]	89	92	94	96	98	99	100	Diam. at 0.5m ht. [m]	26.9	28.2	29.1	29.9	30.4
Diam. at 6.0' ht. [ft.]	94	96	98	100	102	103	104	Diam. at 2.0m ht. [m]	28.5	29.4	30.3	31.1	31.6
<b>12x6 #10 Nozzle - Red [3/16"] x #6 Spreader Nozzle [3/32"]</b>								<b>12x6 #12 Nozzle - Red [4.76mm] x #6 Nozzle [2.38mm]</b>					
Flow [gpm]	6.89	7.54	8.07	8.55	9.02	9.46	9.88	Flow [L/s]	0.43	0.48	0.53	0.57	0.61
Diam. at 1.5' ht. [ft.]	92	95	97	99	101	102	103	Diam. at 0.5m ht. [m]	27.9	29.1	30.0	30.8	31.3
Diam. at 6.0' ht. [ft.]	97	99	101	103	105	107	108	Diam. at 2.0m ht. [m]	29.4	30.3	31.2	32.1	32.8
<b>13x6 #13 Nozzle - White [13/64"] x #6 Spreader Nozzle [3/32"]</b>								<b>13x6 #13 Nozzle - White [5.16mm] x #6 Nozzle [2.38mm]</b>					
Flow [gpm]	7.93	8.57	9.16	9.72	10.2	10.7	11.2	Flow [L/s]	0.49	0.55	0.60	0.65	0.69
Diam. at 1.5' ht. [ft.]	94	97	99	101	103	104	105	Diam. at 0.5m ht. [m]	28.5	29.7	30.6	31.4	31.9
Diam. at 6.0' ht. [ft.]	100	103	106	109	112	115	117	Diam. at 2.0m ht. [m]	30.2	31.6	32.9	34.3	35.4
<b>14x6 #14 Nozzle - Blue [7/32"] x #6 Spreader Nozzle [3/32"]</b>								<b>14x6 #14 Nozzle - Blue [5.56mm] x #6 Nozzle [2.38mm]</b>					
Flow [gpm]	8.90	9.62	10.3	10.9	11.5	12.1	12.6	Flow [L/s]	0.55	0.62	0.67	0.73	0.78
Diam. at 1.5' ht. [ft.]	96	99	101	103	105	106	107	Diam. at 0.5m ht. [m]	29.1	30.3	31.2	32.0	32.5
Diam. at 6.0' ht. [ft.]	102	106	110	114	118	122	125	Diam. at 2.0m ht. [m]	30.8	32.6	34.4	36.1	37.7

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 6.5-10.0 ft. (2.0-3.1m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).

# 50series[Impacts

The 50 Series full-circle impacts handle the highest flow rates for Senninger's 3/4" sprinklers. High application rates and large diameter of coverage make these sprinklers suitable for a variety of applications.

**FEATURES:**

- Single and double nozzle designs available. Double nozzle only available in 23° model.
- Two trajectories available:  
12° - ideal for undertree irrigation  
23° - for maximum throw on overhead systems
- Wide range of nozzle and vane combinations for excellent distribution at all pressures
- Built-in hex wrench for easy in-the-field maintenance
- Standard lower bearing pipe thread:  
3/4" M NPT (female also available)
- Flow rates: 6.5 to 20.1 gpm [0.4 to 1.27 L/s]
- Color-coded nozzles for easy size identification / warranted to maintain correct orifice size for five years
- Two-year warranty on materials, workmanship AND performance



Double nozzle models help maximize uniformity.

## 5012-1-3/4" M

U.S. Data									Metric Data						
Spklr Base Press. [psi]	30	35	40	45	50	55	60	65	[bar]	2.0	2.5	3.0	3.5	4.0	4.5
									[psi]	29.00	36.25	43.50	50.75	58.00	65.25
<b>#13 Nozzle - White [13/64"]</b>									<b>#13 Nozzle - White [5.16mm]</b>						
Flow [gpm]	6.50	7.02	7.49	7.95	8.36	8.80	9.19	9.55	Flow [L/s]	0.40	0.45	0.49	0.53	0.57	0.60
Diam. at 1.5' ht. [ft.]	77	83	89	93	97	100	103	105	Diam. at 0.5m ht. [m]	23.0	25.8	29.2	29.7	31.0	32.0
<b>#14 Nozzle - Blue [7/32"]</b>									<b>#14 Nozzle - Blue [5.56mm]</b>						
Flow [gpm]	7.49	8.09	8.63	9.17	9.66	10.1	10.6	11.0	Flow [L/s]	0.46	0.52	0.57	0.61	0.66	0.70
Diam. at 1.5' ht. [ft.]	79	85	91	95	99	102	105	107	Diam. at 0.5m ht. [m]	23.7	26.4	29.8	30.3	31.6	32.6
<b>#15 Nozzle - Dark Brown [15/64"]</b>									<b>#15 Nozzle - Dark Brown [5.95mm]</b>						
Flow [gpm]	8.51	9.19	9.81	10.4	11.0	11.5	12.0	12.5	Flow [L/s]	0.53	0.59	0.64	0.70	0.74	0.79
Diam. at 1.5' ht. [ft.]	81	87	93	97	101	104	107	109	Diam. at 0.5m ht. [m]	24.3	27.0	30.4	30.9	32.2	33.3
<b>#16 Nozzle - Orange [1/4"]</b>									<b>#16 Nozzle - Orange [6.35mm]</b>						
Flow [gpm]	9.63	10.4	11.1	11.8	12.4	13.0	13.6	14.2	Flow [L/s]	0.60	0.67	0.73	0.79	0.84	0.89
Diam. at 1.5' ht. [ft.]	83	89	95	99	103	106	109	111	Diam. at 0.5m ht. [m]	24.9	27.6	31.0	31.5	32.9	33.8
<b>#17 Nozzle - Dark Green [17/64"]</b>									<b>#17 Nozzle - Dark Green [6.75mm]</b>						
Flow [gpm]	10.7	11.6	12.3	13.1	13.8	14.5	15.1	15.7	Flow [L/s]	0.66	0.74	0.81	0.88	0.94	0.99
Diam. at 1.5' ht. [ft.]	85	91	96	100	105	108	111	113	Diam. at 0.5m ht. [m]	25.5	28.1	31.3	32.1	33.5	34.4
<b>#18 Nozzle - Purple [9/32"]</b>									<b>#18 Nozzle - Purple [7.14mm]</b>						
Flow [gpm]	11.9	12.9	13.7	14.6	15.4	16.1	16.8	17.5	Flow [L/s]	0.74	0.82	0.90	0.98	1.04	1.11
Diam. at 1.5' ht. [ft.]	87	92	97	101	107	110	113	114	Diam. at 0.5m ht. [m]	26.1	28.4	31.6	32.7	34.1	34.7

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 3.5-6.0 ft. (1.1-1.8m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).



## 5023-1-3/4" M

U.S. Data									Metric Data						
Spktr Base Press. [psi]	30	35	40	45	50	55	60	65	[bar]	2.0	2.5	3.0	3.5	4.0	4.5
	30	35	40	45	50	55	60	65	[psi]	29.00	36.25	43.50	50.75	58.00	65.25
<b>#13 Nozzle - White [13/64"]</b>									<b>#13 Nozzle - White [5.16mm]</b>						
Flow [gpm]	6.50	7.02	7.49	7.95	8.38	8.80	9.19	9.55	Flow [L/s]	0.40	0.45	0.49	0.53	0.57	0.60
Diam. at 1.5' ht. [ft.]	92	95	98	100	102	103	104	105	Diam. at 0.5m ht. [m]	27.8	29.2	30.3	31.1	31.6	32.0
Diam. at 6.0' ht. [ft.]	99	102	104	106	108	110	112	114	Diam. at 2.0m ht. [m]	30.0	31.2	32.1	33.0	33.9	34.8
<b>#14 Nozzle - Blue [7/32"]</b>									<b>#14 Nozzle - Blue [5.56mm]</b>						
Flow [gpm]	7.49	8.09	8.63	9.17	9.66	10.1	10.6	11.0	Flow [L/s]	0.46	0.52	0.57	0.61	0.66	0.70
Diam. at 1.5' ht. [ft.]	94	98	101	103	105	106	107	108	Diam. at 0.5m ht. [m]	28.4	30.1	31.2	32.1	32.5	32.9
Diam. at 6.0' ht. [ft.]	101	104	107	110	112	114	116	118	Diam. at 2.0m ht. [m]	30.5	31.9	33.3	34.2	35.1	36.0
<b>#15 Nozzle - Dark Brown [15/64"]</b>									<b>#15 Nozzle - Dark Brown [5.95mm]</b>						
Flow [gpm]	8.51	9.19	9.81	10.4	11.0	11.5	12.0	12.5	Flow [L/s]	0.53	0.59	0.64	0.70	0.74	0.79
Diam. at 1.5' ht. [ft.]	96	100	103	106	107	108	109	110	Diam. at 0.5m ht. [m]	29.0	30.7	32.0	32.7	33.1	33.5
Diam. at 6.0' ht. [ft.]	102	106	109	112	114	116	118	120	Diam. at 2.0m ht. [m]	30.8	32.5	33.9	34.8	35.7	36.6
<b>#16 Nozzle - Orange 1/4"</b>									<b>#16 Nozzle - Orange [6.35mm]</b>						
Flow [gpm]	9.63	10.4	11.1	11.8	12.4	13.0	13.6	14.2	Flow [L/s]	0.60	0.67	0.73	0.79	0.84	0.89
Diam. at 1.5' ht. [ft.]	98	102	105	108	109	110	111	112	Diam. at 0.5m ht. [m]	29.5	31.3	32.6	33.3	33.7	34.2
Diam. at 6.0' ht. [ft.]	103	107	111	114	116	118	120	122	Diam. at 2.0m ht. [m]	31.2	32.9	34.5	35.5	36.3	37.2
<b>#17 Nozzle - Dark Green [17/64"]</b>									<b>#17 Nozzle - Dark Green [6.75mm]</b>						
Flow [gpm]	10.7	11.6	12.3	13.1	13.8	14.5	15.1	15.7	Flow [L/s]	0.66	0.74	0.81	0.88	0.94	0.99
Diam. at 1.5' ht. [ft.]	99	104	107	110	111	112	113	114	Diam. at 0.5m ht. [m]	29.8	31.9	33.3	33.9	34.3	34.8
Diam. at 6.0' ht. [ft.]	104	108	112	115	118	120	122	124	Diam. at 2.0m ht. [m]	31.5	33.2	34.8	36.1	36.9	37.8
<b>#18 Nozzle - Purple [9/32"]</b>									<b>#18 Nozzle - Purple [7.14mm]</b>						
Flow [gpm]	11.9	12.9	13.7	14.6	15.4	16.1	16.8	17.5	Flow [L/s]	0.74	0.82	0.90	0.98	1.04	1.11
Diam. at 1.5' ht. [ft.]	100	105	109	112	113	114	115	116	Diam. at 0.5m ht. [m]	30.1	32.3	33.9	34.5	34.9	35.4
Diam. at 6.0' ht. [ft.]	105	109	113	116	119	122	124	126	Diam. at 2.0m ht. [m]	31.8	33.5	35.1	36.4	37.6	38.4

## 5023-2-3/4" M

U.S. Data									Metric Data						
Spktr Base Press. [psi]	30	35	40	45	50	55	60	65	[bar]	2.0	2.5	3.0	3.5	4.0	4.5
	30	35	40	45	50	55	60	65	[psi]	29.00	36.25	43.50	50.75	58.00	65.25
<b>13x8 #13 Nozzle - White 13/64" x #8 Spreader Nozzle 1/8"</b>									<b>13x8 #13 Nozzle - White 5.16mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	8.23	8.88	9.50	10.1	10.6	11.1	11.6	12.1	Flow [L/s]	0.51	0.57	0.62	0.67	0.72	0.76
Diam. at 1.5' ht. [ft.]	92	95	98	100	102	103	104	105	Diam. at 0.5m ht. [m]	27.8	29.2	30.3	31.1	31.6	32.0
Diam. at 6.0' ht. [ft.]	99	102	104	106	108	110	112	114	Diam. at 2.0m ht. [m]	30.0	31.2	32.1	33.0	33.9	34.8
<b>14x8 #14 Nozzle - Blue 7/32" x #8 Spreader Nozzle 1/8"</b>									<b>14x8 #14 Nozzle - Blue 5.56mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	9.35	10.1	10.8	11.5	12.1	12.7	13.2	13.8	Flow [L/s]	0.58	0.65	0.71	0.77	0.82	0.87
Diam. at 1.5' ht. [ft.]	94	98	101	103	105	106	107	108	Diam. at 0.5m ht. [m]	28.4	30.1	31.2	32.0	32.5	32.9
Diam. at 6.0' ht. [ft.]	101	104	107	110	112	114	116	118	Diam. at 2.0m ht. [m]	30.5	31.9	33.3	34.2	35.1	36.0
<b>15x8 #15 Nozzle - Dark Brown 15/64" x #8 Spreader Nozzle 1/8"</b>									<b>15x8 #15 Nozzle - Dark Brown 5.95mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	10.3	11.2	11.9	12.7	13.4	14.0	14.6	15.2	Flow [L/s]	0.64	0.72	0.78	0.85	0.91	0.96
Diam. at 1.5' ht. [ft.]	96	100	103	106	107	108	109	110	Diam. at 0.5m ht. [m]	29.0	30.7	32.0	32.7	33.1	33.5
Diam. at 6.0' ht. [ft.]	102	106	109	112	114	116	118	120	Diam. at 2.0m ht. [m]	30.8	32.5	33.9	34.8	35.7	36.6
<b>16x8 #16 Nozzle - Orange 1/4" x #8 Spreader Nozzle 1/8"</b>									<b>16x8 #16 Nozzle - Orange 6.35mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	11.5	12.4	13.3	14.1	14.8	15.5	16.2	16.9	Flow [L/s]	0.71	0.79	0.87	0.94	1.01	1.07
Diam. at 1.5' ht. [ft.]	98	102	105	108	109	110	111	112	Diam. at 0.5m ht. [m]	29.5	31.3	32.6	33.3	33.7	34.2
Diam. at 6.0' ht. [ft.]	103	107	111	114	116	118	120	122	Diam. at 2.0m ht. [m]	31.2	32.9	34.5	35.4	36.3	37.2
<b>17x8 #17 Nozzle - Dark Green 17/64" x #8 Spreader Nozzle 1/8"</b>									<b>17x8 #17 Nozzle - Dark Green 6.75mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	12.5	13.5	14.4	15.3	16.1	16.9	17.7	18.4	Flow [L/s]	0.77	0.86	0.95	1.02	1.09	1.16
Diam. at 1.5' ht. [ft.]	99	104	107	110	111	112	113	114	Diam. at 0.5m ht. [m]	29.8	31.9	33.3	33.9	34.3	34.8
Diam. at 6.0' ht. [ft.]	104	108	112	115	118	120	122	124	Diam. at 2.0m ht. [m]	31.5	33.2	34.8	36.1	36.9	37.8
<b>18x8 #18 Nozzle - Purple 9/32" x #8 Spreader Nozzle 1/8"</b>									<b>18x8 #18 Nozzle - Purple 7.14mm x #8 Nozzle 3.18mm</b>						
Flow [gpm]	13.7	14.8	15.8	16.7	17.6	18.5	19.3	20.1	Flow [L/s]	0.85	0.95	1.04	1.12	1.20	1.27
Diam. at 1.5' ht. [ft.]	100	105	109	112	113	114	115	116	Diam. at 0.5m ht. [m]	30.1	32.3	33.9	34.5	34.9	35.4
Diam. at 6.0' ht. [ft.]	105	109	113	116	119	122	124	126	Diam. at 2.0m ht. [m]	31.8	33.5	35.1	36.4	37.5	38.4

Stream heights range from 7.0-11.5 ft. (2.1-3.5m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m)

# Part-Circle [Impacts]



Senninger's Part-Circle sprinklers are designed specifically for use where a directional impact sprinkler is required. Designed to deliver maximum efficiency at low to moderate flow rates for agriculture, nursery, effluent disposal, dust suppression, and industrial applications.

#### FEATURES:

- Distributes water in a 60° - 360° pattern at 5° increments
- 23° nozzle trajectory for maximum radius of throw
- Wide range of nozzle and vane combinations for excellent distribution at all pressures
- Standard lower bearing pipe thread 3/4" M NPT
- Flow range: 2.42 to 16.8 gpm [0.15 to 1.04 L/s]
- Color-coded nozzles for easy size identification warranted to maintain correct orifice size for five years
- Two-year warranty on materials, workmanship AND performance

Part-circle impact sprinklers can be adjusted to match the desired area of coverage.

## 3123-I-PC-3/4" M

U.S. Data								Metric	[bar]	2.0	2.5	3.0	3.5	4.0
Sprklr Base Press. [psi]	30	35	40	45	50	55	60	Data	[psi]	29.00	36.25	43.50	50.75	58.00
<b>#8 Nozzle - Lavender [1/8"]</b>								<b>#8 Nozzle - Lavender [3.18mm]</b>						
Flow [gpm]	2.42	2.62	2.79	2.97	3.12	3.28	3.42	Flow [L/s]		0.15	0.17	0.18	0.20	0.21
Radius at 1.5' ht. [ft.]	38	39	40	41	42	42	43	Radius at 0.5m ht. [m]		11.5	12.0	12.4	12.7	12.9
Radius at 3.0' ht. [ft.]	40	41	42	42	43	43	44	Radius at 2.0m ht. [m]		12.1	12.5	12.8	13.0	13.2
<b>#9 Nozzle - Grey [9/64"]</b>								<b>#9 Nozzle - Grey [3.57mm]</b>						
Flow [gpm]	3.08	3.33	3.56	3.78	3.98	4.18	4.36	Flow [L/s]		0.19	0.21	0.23	0.25	0.27
Radius at 1.5' ht. [ft.]	40	41	42	43	43	44	44	Radius at 0.5m ht. [m]		12.1	12.6	13.0	13.3	13.5
Radius at 3.0' ht. [ft.]	41	43	44	44	45	45	46	Radius at 2.0m ht. [m]		12.2	13.1	13.4	13.6	13.8
<b>#10 Nozzle - Turquoise [5/32"]</b>								<b>#10 Nozzle - Turquoise [3.97mm]</b>						
Flow [gpm]	3.82	4.13	4.41	4.68	4.93	5.17	5.40	Flow [L/s]		0.24	0.26	0.29	0.31	0.33
Radius at 1.5' ht. [ft.]	41	43	44	45	45	46	47	Radius at 0.5m ht. [m]		12.2	13.2	13.6	13.9	14.1
Radius at 3.0' ht. [ft.]	41	44	45	46	46	47	47	Radius at 2.0m ht. [m]		12.3	13.5	13.8	14.0	14.3

Sprinkler performance may vary with actual field conditions. Radius shown is for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 6.0-10.0 ft. (1.8-3.1m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).

# Impacts] Part-Circle

## 4123-I-PC-3/4" M

U.S. Data								Metric Data						
Sprklr Base Press. [psi]	30	35	40	45	50	55	60	[bar]	2.0	2.5	3.0	3.5	4.0	
								[psi]	29.00	36.25	43.50	50.75	58.00	
<b>#10 Nozzle - Turquoise [5/32"]</b>								<b>#10 Nozzle - Turquoise [3.97mm]</b>						
Flow [gpm]	3.82	4.13	4.41	4.68	4.93	5.17	5.40	Flow [L/s]	0.24	0.26	0.29	0.31	0.33	
Radius at 1.5' ht. [ft.]	42.0	43.0	44.0	45.0	45.0	46.0	46.5	Radius at 0.5m ht. [m]	12.7	13.2	13.6	13.9	14.1	
Radius at 3.0' ht. [ft.]	43.0	44.5	45.5	46.0	46.5	47.0	47.5	Radius at 2.0m ht. [m]	13.0	13.6	14.0	14.2	14.4	
<b>#11 Noz.-Yellow [1/164"]</b>								<b>#11 Nozzle - Yellow [4.37mm]</b>						
Flow [gpm]	4.63	5.00	5.34	5.67	5.98	6.27	6.55	Flow [L/s]	0.29	0.32	0.35	0.38	0.41	
Radius at 1.5' ht. [ft.]	43.5	45.0	46.0	47.0	47.5	48.0	48.5	Radius at 0.5m ht. [m]	13.2	13.8	14.2	14.5	14.7	
Radius at 3.0' ht. [ft.]	44.5	45.0	47.0	48.0	48.5	49.0	49.5	Radius at 2.0m ht. [m]	13.5	13.9	14.5	14.8	15.0	
<b>#12 Nozzle- Red [3/16"]</b>								<b>#12 Nozzle - Red [4.76mm]</b>						
Flow [gpm]	5.52	5.97	6.37	6.76	7.13	7.48	7.81	Flow [L/s]	0.34	0.38	0.42	0.45	0.48	
Radius at 1.5' ht. [ft.]	44.5	46.0	47.5	49.0	50.0	50.5	51.0	Radius at 0.5m ht. [m]	13.5	14.1	14.8	15.3	15.5	
Radius at 3.0' ht. [ft.]	45.5	47.0	48.5	49.5	50.5	51.0	51.5	Radius at 2.0m ht. [m]	13.8	14.4	15.0	15.4	15.6	
<b>#13 Nozzle-White [13/64"]</b>								<b>#13 Nozzle - White [5.16mm]</b>						
Flow [gpm]	6.50	7.02	7.49	7.95	8.38	8.80	9.19	Flow [L/s]	0.40	0.45	0.49	0.53	0.57	
Radius at 1.5' ht. [ft.]	45.0	46.5	48.0	49.5	50.5	51.0	51.5	Radius at 0.5m ht. [m]	13.6	14.3	15.0	15.4	15.6	
Radius at 3.0' ht. [ft.]	46.0	47.5	49.0	50.0	51.0	51.5	52.0	Radius at 2.0m ht. [m]	13.9	14.6	15.1	15.6	15.8	

## 5123-I-PC-3/4" M

U.S. Data								Metric Data						
Sprklr Base Press. [psi]	30	35	40	45	50	55	60	[bar]	2.0	2.5	3.0	3.5	4.0	
								[psi]	29.00	36.25	43.50	50.75	58.00	
<b>#13 Nozzle - White [13/64"]</b>								<b>#13 Nozzle - White [5.16mm]</b>						
Flow [gpm]	6.50	7.02	7.49	7.95	8.36	8.80	9.19	Flow [L/s]	0.40	0.45	0.49	0.53	0.57	
Radius at 1.5' ht. [ft.]	45	47	48	50	51	51	52	Radius at 0.5m ht. [m]	13.6	14.3	15.0	15.4	15.6	
Radius at 3.0' ht. [ft.]	46	48	49	50	51	52	52	Radius at 2.0m ht. [m]	13.9	14.6	15.1	15.6	15.8	
<b>#14 Nozzle - Blue [7/32"]</b>								<b>#14 Nozzle - Blue [5.56mm]</b>						
Flow [gpm]	7.49	8.09	8.63	9.17	9.66	10.1	10.6	Flow [L/s]	0.46	0.52	0.57	0.61	0.66	
Radius at 1.5' ht. [ft.]	46	47	49	50	51	52	53	Radius at 0.5m ht. [m]	13.8	14.4	15.1	15.6	15.9	
Radius at 3.0' ht. [ft.]	47	49	51	52	53	54	54	Radius at 2.0m ht. [m]	14.1	14.9	15.6	16.0	16.4	
<b>#15 Nozzle - Dark Brown [15/64"]</b>								<b>#15 Nozzle - Dark Brown [5.95mm]</b>						
Flow [gpm]	8.51	9.19	9.81	10.4	11.0	11.5	12.0	Flow [L/s]	0.53	0.59	0.64	0.70	0.74	
Radius at 1.5' ht. [ft.]	46	48	50	51	52	53	54	Radius at 0.5m ht. [m]	13.9	14.7	15.4	15.9	16.3	
Radius at 3.0' ht. [ft.]	48	50	52	53	54	56	56	Radius at 2.0m ht. [m]	14.4	15.2	16.0	16.5	17.0	
<b>#16 Nozzle - Orange [1/4"]</b>								<b>#16 Nozzle - Orange [6.35mm]</b>						
Flow [gpm]	9.63	10.4	11.1	11.8	12.4	13.0	13.6	Flow [L/s]	0.60	0.67	0.73	0.79	0.84	
Radius at 1.5' ht. [ft.]	47	50	51	53	54	55	56	Radius at 0.5m ht. [m]	14.0	15.2	16.0	16.5	16.9	
Radius at 3.0' ht. [ft.]	48	51	53	55	56	57	58	Radius at 2.0m ht. [m]	14.5	15.5	16.4	17.0	17.5	
<b>#17 Nozzle - Dark Green [17/64"]</b>								<b>#17 Nozzle - Blue [6.75mm]</b>						
Flow [gpm]	10.7	11.6	12.3	13.1	13.8	14.5	15.1	Flow [L/s]	0.66	0.74	0.81	0.88	0.94	
Radius at 1.5' ht. [ft.]	47	50	52	54	55	56	57	Radius at 0.5m ht. [m]	14.1	15.4	16.3	16.8	17.3	
Radius at 3.0' ht. [ft.]	49	51	54	56	57	58	59	Radius at 2.0m ht. [m]	14.6	15.7	16.7	17.3	17.8	
<b>#18 Nozzle - Purple [9/32"]</b>								<b>#17 Nozzle - Purple [7.14mm]</b>						
Flow [gpm]	11.9	12.9	13.7	14.6	15.4	16.1	16.8	Flow [L/s]	0.74	0.82	0.90	0.98	1.04	
Radius at 1.5' ht. [ft.]	47	50	53	55	56	57	58	Radius at 0.5m ht. [m]	14.1	15.4	16.4	17.1	17.6	
Radius at 3.0' ht. [ft.]	49	52	54	56	58	59	60	Radius at 2.0m ht. [m]	14.6	15.9	16.9	17.6	18.1	