

2000 Series Rain Guns® Three Inch, Full and Part Circle

Longer life, improved performance and better value – guaranteed!

The new 2000 Series Rain Gun® brings Rain Bird back to the forefront of quality, performance, and reliability. This next generation model incorporates recent end user feedback and new materials to bring you the best value in today's high volume sprinkler market. To back up this claim, Rain Bird offers the best warranty in the industry. For all agricultural applications, the 2000 Series Rain Gun is backed by an unprecedented 3-year warranty. No other gun manufacturer in the industry stands behind their product for this long.

SR2005 and F2004 Features

- 23° body trajectory
- Dual spring loaded, cast aluminum arms
- Adjustable aluminum spoon design
- Set of 6 metric taper bore nozzles included 21, 23, 26, 28, 30, 33 mm
- Ring orifice nozzles available .87, .99, 1.1, 1.2, 1.29, & 1.38 inches (22, 25, 28, 30, 33, 35 mm)
- Integral straightening vanes
- Stronger body assembly
- Improved trip assembly
- Self-adjusting brake mechanism
- Sealed lube-for-life bearing
- Improved trip-collar adjustments
- DN 80 (3") 4 or 6 hole flange mount standard
- NPT and BSP flange adapters
- Counterweight available for sloped conditions



SR2005

High Standards means Longer Life

- Some of the factors that lead to long life and low maintenance:
- Rain Guns are manufactured to the highest standards in a factory that is ISO9002 certified.
 - Every Rain Gun is water tested before it leaves the factory.
 - Trip mechanisms are reinforced with stainless steel washers and cotter pins. Straightening vanes are extruded directly into the body to reduce fluid turbulence and add strength and distance to the water stream.

Lower Maintenance

Rain Guns are designed to keep working for years with minimal maintenance. Grease maintenance is eliminated with permanently sealed bearings. Many of our competitors pack their bearings less than 30% full. This unfilled space allows for

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Part Numbers

SR2005

Slow Reverse,
Full/Part Circle Rain Gun

F2004

Full Circle Rain Gun

How to Order:

SR - 2005 - NPT

<p>Arc Settings SR=Slow Reverse F=Full Circle</p>	<p>(optional) Female Flange Adapter NPT=Standard Pipe Thread BSP=British Standard Pipe</p>
<p>Model</p>	



Lower Maintenance *continued*

condensation and water infiltration that can lead to an eventual breakdown of the grease, corrosion, and bearing failure. This is why F2004 and SR2005 Rain Gun bearings are permanently sealed and packed 70% full with a robust, wide temperature range, water resistant silicone grease.

The braking system on these models is also maintenance free. The spring-loaded clutch self-adjusts to keep consistent rotation times through the life of the gun.

All body joints are bonded and threaded together through a chemical process that is rated for up to 7 tons of pressure. The trip collars are easily adjustable and stay in place without the use of tools or time consuming adjustments. The bearing assembly is marked every 10° to make arc adjustments easier.

The Best Value

All accessories are included in each box including:

- Standard 2 mm (.03") neoprene gasket and bolt kit.
- Set of 6 taper bore nozzles – 21, 23, 26, 28, 30, & 33 mm sizes.
- Glycerin filled pressure gauge to ensure optimal setup.
- Aluminum body construction with stainless steel hardware to provide all the value at the lowest price possible.

Outstanding Performance

Rain Bird Rain Guns are built to perform and to last. The dual arm design of our part circle guns provides better distribution and uniformity than single arm designs. The cast aluminum spoons are adjustable to provide greater control of the rotation speed. Stainless steel springs are used to absorb excess shock from the arms which allows for a much smoother arm stroke, and the removal of excess counterweights.

Performance Data - U.S. Units

SR2005/F2004 - GNS-2005T Taper Bore Nozzles

PSI @ Nozzle	NOZZLE SIZE											
	.8"		.9"		1.0"		1.1"		1.2"		1.3"	
	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow
58	144	141	148	170	153	220	164	256	169	298	177	363
60	146	144	149	173	155	224	166	260	171	303	179	369
70	154	155	157	186	165	242	178	282	184	328	188	398
80	158	166	162	199	169	258	186	301	195	350	193	426
90	162	176	166	212	171	274	193	319	204	372	197	451
100	168	186	169	224	172	289	196	336	212	392	-	-
109	172	193	174	233	174	301	198	351	210	409	-	-

SR2005/F2004 - GNS-20050 Ring Orifice Nozzles

PSI @ Nozzle	NOZZLE SIZE											
	.87"		.99"		1.10"		1.20"		1.29"		1.38"	
	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow	(ft.) Rad.	(gpm) Flow
60	133	110	143	142	151	181	160	224	167	274	177	326
70	138	120	148	154	157	199	167	245	175	296	184	352
80	143	129	154	165	163	216	174	262	183	318	192	378
90	148	136	159	175	169	227	180	278	189	337	199	401
100	153	143	163	184	174	238	186	293	196	356	205	424
110	157	150	167	193	179	249	191	306	201	371	210	441

Performance Data - Metric Units

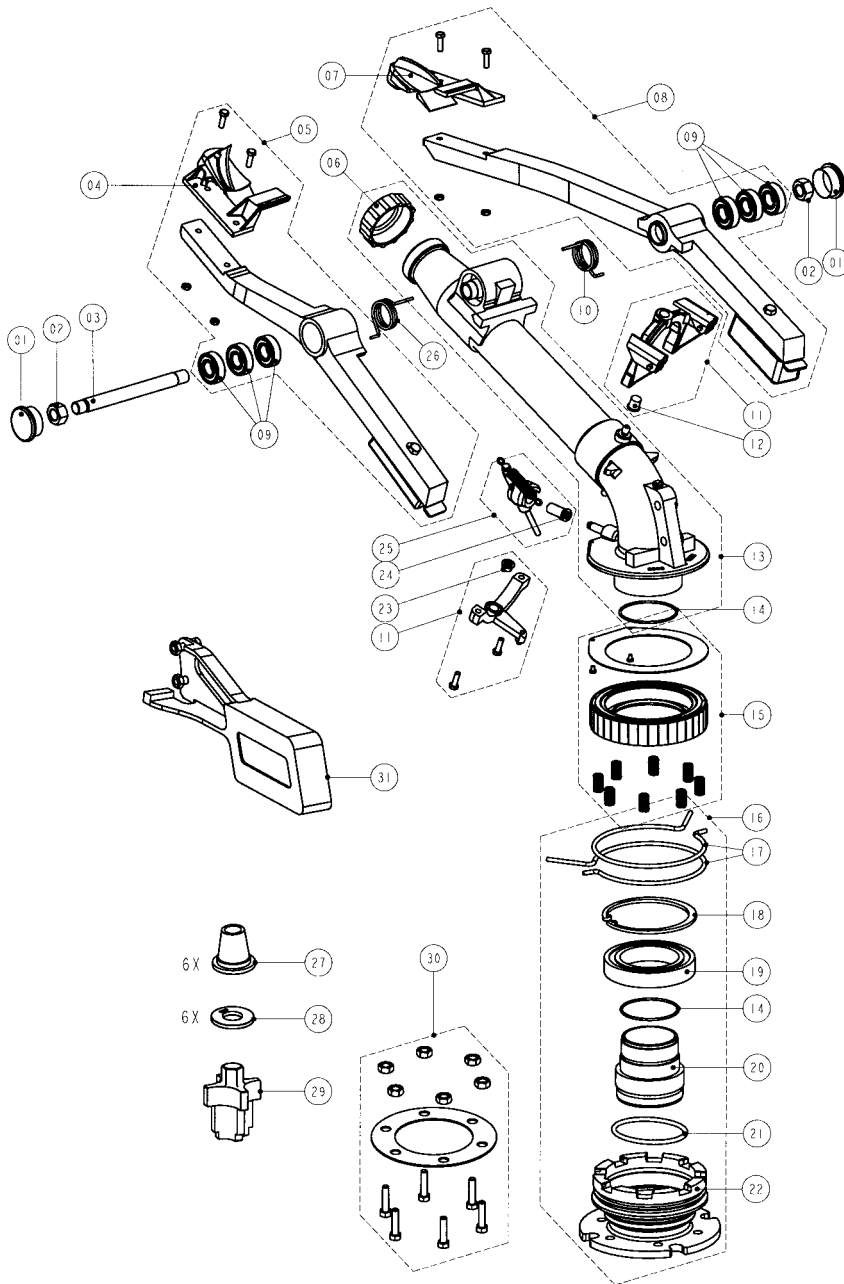
SR2005/F2004 - GNS-2005T Taper Bore Nozzles

BARS @ Nozzle	NOZZLE SIZE											
	21 mm		23 mm		26 mm		28 mm		30 mm		33 mm	
	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow
4.0	44,0	32,1	45,0	38,6	46,5	50,0	50,0	58,1	51,5	67,7	54,0	82,4
4.5	45,8	34,0	46,8	40,9	48,8	53,0	52,5	61,7	54,3	71,8	56,0	87,3
5.0	47,5	35,9	48,5	43,1	51,0	56,0	55,0	65,3	57,0	75,8	58,0	92,2
5.5	48,3	37,6	49,5	45,2	51,5	58,6	56,8	68,3	59,3	79,4	58,8	96,6
6.0	49,0	39,3	50,5	47,3	52,0	61,1	58,5	71,3	61,5	83,0	59,5	100,9
6.5	50,3	40,9	51,0	49,3	52,3	63,6	59,3	74,1	63,3	86,4	60,5	104,5
7.0	51,5	42,5	51,5	51,2	52,5	66,1	60,0	76,9	65,0	89,8	-	-
7.5	52,5	43,9	53,0	53,0	53,0	68,4	60,5	79,8	64,0	92,8	-	-

SR2005/F2004 - GNS-20050 Ring Orifice Nozzles

BARS @ Nozzle	NOZZLE SIZE											
	20.32 mm		22.86 mm		25.40 mm		27.94 mm		30.78 mm		33.02 mm	
	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow	(m) Rad.	(m ³ /hr) Flow
4.0	43,5	32,5	46,2	42,4	49,4	51,8	51,5	62,2	53,6	73,5	-	-
4.5	45,5	33,6	48,6	43,6	51,5	53,4	54,2	64,5	57,0	77,4	59,9	91,7
5.0	46,8	35,7	50,1	46,2	53,0	56,7	55,9	68,6	58,8	82,1	61,6	92,7
5.5	48,1	37,6	51,3	48,6	54,4	59,6	57,4	72,2	60,3	86,3	63,2	102,2
6.0	49,2	39,4	52,5	50,7	55,6	62,3	58,8	75,5	61,7	90,2	64,7	106,8
6.5	50,2	41,0	53,3	52,7	56,7	64,8	60,1	78,5	63,1	93,7	66,0	111,1
7.0	51,2	42,4	54,6	54,6	57,7	67,0	61,2	81,4	64,3	97,0	67,2	114,9
7.5	52,1	43,8	55,6	56,3	58,7	69,2	62,3	84,0	65,4	100,0	-	-

Parts Diagram and Description



Ref. Part Description

Ref.	Part Description	Part Numbers
1	Arm Cap (2)	Included in Kit B
2	Arm Nut (2)	Included in Kit B
3	Arm Shaft	Included in Kit B
4	Reverse Spoon Bracket Assembly	71-P00382
5	Reverse Arm Assembly	71-P50809
6	Nozzle Retainer	71-P50302
7	Forward Spoon Bracket Assembly	71-P00364
8	Forward Arm Assembly	71-P50807
9	Arm Ball Bearing	71-P00324
10	Forward Arm Spring	71-P50295
11	Trip Yoke Assembly	71-P50215
12	Upper Yoke Bushing	Included in Kit A
13	Elbow/Range Tube Assembly	71-P50803
14	O-Ring (2)	Included in Kit A
15	Brake Assembly	71-P50814
16	Bearing Assembly	71-P50975
17	Friction Collar (2 Required)	71-P50116
18	Snap Ring	71-P50344
19	Ball Bearing	71-P50549
20	Lock Nut	71-P50796
21	O-Ring	71-102155
22	Bearing Sleeve	71-P50795
23	Lower Yoke Bushing	Included in Kit A
24	Trip Lever Bushing	Included in Kit A
25	Trip Lever Assembly	71-P50331
26	Reverse Arm Spring	71-P50296
27	GNS-2005T Taper Nozzle (6) Set	L00250
28	GNS-20050 Ring Nozzle (6) Set	L00255

Accessories

29	Bearing Wrench	71-P50697
30	Riser Installation Kit	71-P00368
31	Rear Counterweight	L00260
32	Glycerin Filled Pressure Gauge (not shown)	71-P00080

Spare Parts Kit

A	Maintenance Kit	71-P50364
B	Arm Shaft Kit	71-P50365



Specifications (For Specifiers)

The full circle or part circle impulse drive sprinkler shall be a single nozzle type, capable of covering _____ (feet/meters) radius, at _____ (PSI/bars) with a discharge rate of _____ (GPM/M²H). The sprinkler body and bearing sleeve shall be of heat treated, cast aluminum. Straightening vanes shall be integral to the body. The sprinkler arm, springs, fulcrum shafts, and trip mechanisms shall be stainless steel. The drive nozzle trajectory shall be 23 degrees from horizontal.

The rotation of the sprinkler shall be accomplished by a spring loaded, vertical oscillating arms, actuated by the outlet water stream. The part circle models shall have a slow-reverse feature for reduced vibration and greater safety.

The nozzle shall be of durable, chemically resistant plastic and shall be easily replaceable. A set of six taper bore nozzles shall be included with the gun - 21, 23, 26, 28, 30, 33 mm. The nozzle size shall be molded into the plastic for easy identification.

The bearing assembly shall be permanently sealed and packed 70% with a wide temperature range, water resistant silicone grease. The brake mechanism will be spring loaded and self-adjusting.

On part circle models, adjustable friction collars will be supplied to set arc adjustments without the use of tools, and the bearing assembly will be

marked in ten degree increments to facilitate adjustments.

The F2004 shall be for full circle operation only. The SR2005 shall have adjustable part circle or full circle operation.

The sprinkler shall have a DN 80 4 or 6 hole patterns with a 2 mm (.08") neoprene gasket and bolt kit shall be supplied with the gun.

An optional (NPT/BSP) flange adapter will be supplied to adapt the flange inlet to a (3"/76 mm) female inlet.

The sprinkler shall carry a three year warranty against original defects in material or workmanship in agricultural applications. The sprinkler shall be supplied by Rain Bird Corporation, Glendora, California.

Rain Gun Safety

Operating Rain Guns remotely under circumstances where the operator cannot see the gun being activated can be dangerous if persons or animals are close to the device. When activated these guns can come on with significant force. Operators should also be aware of trip hazard, over-head obstruction, thrust, etc. for their applications, to prevent any bodily harm. If an operator has any question pertaining to Rain Gun Safety please contact your local dealer or Rain Bird representative.

Rain Gun Warranty

Agricultural Applications

- Our latest generation of Rain Guns is built on a legacy of knowledge, trust, and feedback from end users like you. Our warranty is simple and in line with Rain Bird's reputation as the most reliable agricultural sprinkler in the world. To back up our claim, we offer the best warranty in the agriculture industry. For all agricultural applications, we offer a three-year; no questions asked warranty including free service or parts replacement. Product replacement, full credit, or return in lieu of spare parts or service is at Rain Bird's discretion upon approval. Approval may include product testing.

Non-agricultural Applications

- We understand that Rain Guns are often utilized in applications that may be more demanding than general agricultural applications. In these circumstances, Rain Bird offers an eighteen month warranty including free service or parts replacement, but excludes coverage in the following general applications or environments:
- Electrolytic conditions, such as high salt environments or salt water spray applications
- Applications where environmental conditions are not compatible with the materials used in Rain Guns
- Caustic or corrosive chemical conditions or spray applications
- Abrasive fluid spray applications

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