



PAR WEST

2026  
PRODUCT  
CATALOG

# BEAR<sup>®</sup>

## IRRIGATION



**REINVENTING**  
**GOLF COURSE**  
**RENOVATION**



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REINVENTING GOLF COURSE RENOVATION

# BEAR REINVENTS

## PERFORMANCE

FULL 5 YEAR EXCHANGE WARRANTY (ALL BEAR SPRINKLERS)

Now you can replace worn out, outdated TORO®, Rain Bird® and other brand systems with high performance, long lasting golf sprinklers from Bear. The Bear R-870, R-850 & R-820 Series sprinklers are designed to replace and upgrade all golf sprinklers with performance of 53' - 100' radius and 11.0 - 66.0 GPM range.

### R-870 / R-871 SERIES

Radius 66' - 100'  
Flow Rate: 25.1 - 66.0 GPM

THE **BIG BEAR**

#### SPECIAL FEATURES

Full and Part Circle Models High pop-up Stainless Steel Riser Heavy-Duty Flange/Regulator Guard Wind Fighting Rear Nozzle Feature Electric • Check-O-Matic • Hydraulic Interchangeable Nozzles included Exclusive On/Off control for hydraulic models (R-870/871-01) ACME threads



Series	Part No.	Type
R-870 PART & FULL CIRCLE	R-870-H	Hydraulic normally open (with on/off control)
	R-870-C	Check-O-Matic
	R-870-E	Electric
R-871 FULL CIRCLE	R-871-H	Hydraulic normally open (with on/off control)
	R-871-C	Check-O-Matic
	R-871-E	Electric



#### Featured on R-870, R-850, R-820 and Part Circle Conversion Kits

#### EASY-ARC™

Adjust the ARC of all BEAR part-circle sprinklers in seconds. No special tools needed, the Easy-Arc pops easily into the sprinkler cap. Simply remove for full circle operation.

Look for this symbol.



R-870 SERIES	Bear Nozzle	Base Pressure (PSI)				
		60	70	80	90	100
07 Yellow	Radius	72	74	76	78	80
	GPM	30.5	32.0	33.5	35.0	37.0
08 Gray	Radius	73	75	77	79	81
	GPM	35.0	34.5	36.0	38.5	40.5
09 Orange	Radius	75	77	80	83	86
	GPM	36.8	38.2	40.0	42.0	45.0

Gold shaded areas represent factory pressure

Gray shaded areas represent pressure not recommended for optimal nozzle perfor-

#### NOZZLE SELECTOR GUIDE

	TORO® Series					Rain Bird®	
	650	670	680	690	750	780	91D Eagle 900
58	-	85	-	56	86	-	22
59	70	86	-	-	87	22	24
-	71	87	-	57	88	24	26
-	72	88	90	58	89	-	28
-	73 74	-	91	-	-	26	30

R-871 SERIES	Bear Nozzle	Base Pressure (PSI)				
		60	70	80	90	100
09 Red	Radius	74	75	76	78	78
	GPM	34.0	35.5	37.0	38.5	40.0
10 Brown	Radius	78	79	80	82	84
	GPM	38.0	39.0	40.0	41.5	43.0
11 Green	Radius	80	82	84	86	87
	GPM	41.5	43.0	45.0	47.0	49
12 Black	Radius	-	85	87	89	91
	GPM	-	47.5	50.0	53.0	57.0
13 Blue	Radius	-	85	87	90	100
	GPM	-	55.0	57.0	58.5	66.0

# REPLACEMENT

# BEAR REINVENTS

## VERSATILITY

You want to upgrade to Bear sprinklers but don't want to dig up your old sprinkler bodies. Bear Irrigation offers the versatile solution: Conversion Kits designed to upgrade existing TORO® or Rain Bird® sprinklers while still providing Bear's superior performance.

**FULL 5 YEAR EXCHANGE WARRANTY (ALL BEAR UPGRADE CONVERSION KITS)**



### INS-B-871

Radius 66' - 100'  
Flow Rate: 25.1 - 66.0 GPM



**REPLACES**  
**TORO® Series**  
• 650 • 670  
• 680 • 750  
• 780

#### SPECIAL FEATURES

- 3" pop-up Stainless Steel Riser
- Wind Fighting Rear Nozzle
- Feature
- Variable Stator
- Interchangeable Nozzles & Snap Ring included

### INS-T-690-FC

Radius 91' - 100'  
Flow Rate: 57.0 - 66.0 GPM



**REPLACES**  
**TORO® 690**

#### NOZZLE GUIDE

BEAR Nozzle	TORO® 690 Series
Black	90
Blue	91

#### SPECIAL FEATURES

- 3" High pop-up Stainless Steel Riser
- Wind Fighting Rear Nozzle Feature
- Outstanding Distribution Pattern
- Water Lubricated Gear Drive
- Interchangeable Nozzles, Snap Ring, Conversion Collar, and Tools included

Bear Nozzle	Base Pressure (PSI)						TORO® Series			
	60	70	80	90	100	650	670	750	780	
07 Yellow	Radius 66	69	72	74	76	56	-	54	84	
	GPM 25.1	27.0	28.8	30.6	32.1					
08 Gray	Radius 68	71	74	76	78	57	-	84	85	
	GPM 26.9	29.7	31.7	33.5	35.3					
09 Red	Radius 74	75	76	78	78	58	-	85	86	
	GPM 34.0	35.5	37.0	38.5	40.0					
10 Brown	Radius 78	79	80	82	84	59	70	86	87	
	GPM 38.0	39.0	40.0	41.5	43.0					
11 Green	Radius 80	82	84	86	87	-	71	87	88	
	GPM 41.5	43.0	45.0	41.0	49.0					
12 Black	Radius -	85	87	89	91	-	72	88	89	
	GPM -	47.5	50.0	53.0	57.0					
13 Blue	Radius -	85	87	90	100	-	73	-	-	
	GPM -	57.0	55.0	58.5	66.0					

Shaded areas represent pressure not recommended for optimal nozzle performance.

### INS-T-730 SERIES

Radius 52' - 75'  
Flow Rate: 11.0 - 35.5 GPM

#### SPECIAL FEATURES

- 3" pop-up riser
- Variable Stator
- Wind Fighting Rear Nozzle
- Feature
- Stainless Steel Riser



### INS-T-680 SERIES

Radius 56' - 82'  
Flow Rate: 13.0 - 35.3 GPM



#### SPECIAL FEATURES

- 3" pop-up Stainless Steel Riser
- Variable Stator
- Interchangeable Nozzles & Snap Ring included



**REPLACES**  
**TORO® Series • 650 • 680 • 750 • 780**

Bear Nozzle	Base Pressure (PSI)										TORO® Nozzle		
	50	55	60	65	70	75	80	85	90	95	100	650	780
01 Yellow	Radius 56	56	57	57	58	58	59	60	60	61	61	54	83
	GPM 13.0	13.6	14.2	14.8	15.4	15.9	16.4	17.0	17.5	18.1	18.6		
03 Orange	Radius 61	62	62	63	64	64	65	66	68	69	70	55	84
	GPM 16.4	17.2	18.0	18.7	19.4	20.0	20.7	21.3	21.9	22.5	23.1		
04 Blue	Radius 64	65	67	68	69	70	71	72	74	75	76	56	85
	GPM 16.8	17.2	17.5	17.9	18.6	19.3	20.0	21.0	21.9	22.9	23.8		
07 Red	Radius 65	67	70	71	72	74	75	76	77	78	79	57	-
	GPM 22.4	23.6	25.1	26.1	27.0	27.9	28.8	29.6	30.6	31.3	32.1		
08 Gray	Radius 66	68	71	73	75	76	78	79	80	81	82	58	86
	GPM 25.8	25.8	26.9	28.1	29.7	30.5	31.7	32.6	33.5	34.4	35.3		

Shaded areas represent pressure not recommended for optimal nozzle performance.

**REPLACES TORO®**  
Series 630 660 730 760 860

Series	Part No.	Type
871	INS-B-871	Full Circle
690	INS-T-690-FC	Full Circle
680	INS-T-680-FC INS-T-	Part and Full Circle
730	INS-T-730-FC	Full Circle
735	INS-T-735-PC	Part Circle
830	INS-T-830-FC	Full Circle
835	INS-T-835-PC	Part Circle
INF34	INS-T-INF34-PC	Part Circle



### INS-T-830 SERIES

### INFINITY SERIES

Bear Nozzle	Base Pressure (PSI)										TORO® Nozzle				
	50	55	60	65	70	75	80	85	90	95	100	630	730	830	760
01 Yellow	Radius 52	53	54	55	56	57	58	59	59	59	60	31	-	31	62
	GPM 11.0	12.0	13.0	14.0	14.5	15.0	15.5	15.9	16.3	16.6	17.0				
03 Orange	Radius 55	56	57	59	59	60	61	61	62	62	62	32	62	32	63
	GPM 13.3	14.1	14.9	15.7	16.3	16.9	17.5	17.8	18.1	18.4	18.7				
04 Brown	Radius 60	61	62	63	63	64	65	66	67	67	68	33	63	33	64
	GPM 16.8	17.2	17.5	17.9	18.6	19.3	20.0	21.0	21.9	22.9	23.8				
07 Blue	Radius 62	63	64	65	66	66	67	68	70	71	72	34	-	34	65
	GPM 21.8	22.6	23.4	24.2	24.8	25.4	26.0	27.0	28.1	29.1	30.1				
08 Green	Radius 66	67	68	69	70	71	72	73	74	75		-	64	35	66
	GPM 25.0	25.8	26.6	27.4	28.1	28.8	29.5	31.0	32.5	34.0	35.5				

Shaded areas represent pressure not recommended for optimal nozzle performance.

# UPGRADE



# Rain Bird® UPGRADES

## BEAR REINVENTS

# SIMPLICITY

Bear Conversion Kits are designed with the latest in golf sprinkler  
Superior performance is achieved through innovative design and interchangeable parts built Bear  
tough to last!

**FULL 5 YEAR EXCHANGE WARRANTY (ALL BEAR UPGRADE CONVERSION KITS)**

FULL CIRCLE

**INS-R-700**

PART CIRCLE

**INS-R-750**

REPLACES

Rain Bird®  
Eagle 700  
Eagle 750

1 1/4"  
INLET

Radius 56' - 72'  
Flow Rate: 13.1 - 31.3 GPM

### SPECIAL FEATURES

- 4 pop-up (self-flushing) Stainless Steel
- Riser Variable Stator
- Interchangeable Nozzles & Snap Ring included

Bear Nozzle	Base Pressure (PSI)	Base Pressure (PSI)										Rain Bird® Nozzle		
		50	55	60	65	70	75	80	85	90	95	100	700	750
02 Orange	Radius	56	57	58	59	60	-	-	-	-	-	-	14	14
	GPM	13.1	13.8	14.8	15.7	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16	16
03 Brown	Radius	61	62	62	63	63	-	-	-	-	-	-	16	16
	GPM	16.5	17.1	17.6	18.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	16	16
04 Blue	Radius	63	63	64	65	65	-	-	-	-	-	-	18	18
	GPM	21.8	22.6	23.4	24.2	24.8	24.4	26.0	27.0	27.0	27.0	27.0	18	18
05 Green	Radius	65	66	67	68	69	71	72	72	-	-	-	20	20
	GPM	24.5	25.5	26.5	27.4	28.1	29.0	30.5	31.3	31.3	31.3	31.3	20	20

Shaded areas represent pressure not recommended for optimal nozzle performance.

Series	Part No.	Type
730	INS-R-700	Full Circle
735	INS-R-750	Part Circle & Full Circle



**INS-R-47DR**

Radius 53' - 72'  
Flow Rate: 12.5 - 33.0 GPM

### SPECIAL FEATURES

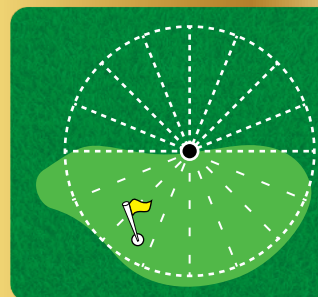
- Easy snap-in installation / perfect fit
- Wind Fighting Rear Nozzle Feature
- (RG5100)
- 3" pop-up Stainless Steel Riser
- Electric • Check-O-Matic • Hydraulic Interchangeable Nozzles, Snap Ring & Conversion Collar included

Series	Part No.	Type
47DR	INS-R-47DR	Part Circle & Full Circle
51DR	INS-R-51DR	Full Circle



## INCREDIBLE INNOVATION

BEAR's revolutionary X2 Technology achieves two 180° part circle patterns with different flow rates and a similar radius from a single head! Now available on all BEAR part circle sprinklers and conversion upgrade kits.



**Example: RG870 Sprinkler**  
Part Circle with X2 technology

70 ft. radius, 35 GPM off green.

60 ft. radius, 18 GPM on green.



**INS-R-51DR**

### PERFORMANCE CHART

Bear Nozzle	Base Pressure (PSI)	Base Pressure (PSI)										Rain Bird® Nozzle		
		50	55	60	70	80	90	100	47D	51D				
02 Orange	Radius	52	55	57	61	61	61	61	-	-	-	-	18	-
	GPM	12.5	13.5	15.0	17.0	18.0	19.0	19.0	-	-	-	-	18	-
03 Brown	Radius	55	58	60	62	62	62	62	-	-	-	-	*	16
	GPM	17.0	18.5	20.0	22.0	23.5	24.0	24.0	-	-	-	-	*	16
04 Blue	Radius	60	62	65	66	67	67	67	-	-	-	-	*	18
	GPM	22.0	23.5	25.0	26.0	27.0	28.5	28.5	-	-	-	-	*	18
07 Red	Radius	64	66	67	68	70	70	70	-	-	-	-	*	20
	GPM	24.5	26.0	27.5	29.0	31.5	33.0	33.0	-	-	-	-	*	20

Shaded areas represent pressure not recommended for optimal nozzle performance.  
\* Bear nozzles (03, 04, 07) can be used on 47D to increase radius.

1 1/2"  
INLET



REPLACES  
Rain Bird®  
Series 51D

FRONT NOZZLE (180° part circle)			REAR NOZZLE (180° part circle)			Total GPM
Nozzle	Radius	GPM	Nozzle	Radius	GPM	Total GPM
* 07 Yellow	70 ft.	35	* 05 Orange	55 ft.	16	51
			06 Brown	60 ft.	18	53
			04 Yellow	50 ft.	14	49

FRONT NOZZLE (180° part circle)			REAR NOZZLE (180° part circle)			Total GPM
Nozzle	Radius	GPM	Nozzle	Radius	GPM	Total GPM
* 04 Blue	65 ft.	24	* 04 Yellow	55 ft.	14	38
			03 Red	45 ft.	12	36
			01 Black	35 ft.	8	32

\* Factory installed configuration  
† to be used with 1" inlet TORO 730 and 760 "ribbed" sprinkler bodies

To order X2 technology, simply add "X2" to the end of the product part number

# KITS

# BEAR REINVENTS RELIABILITY

All Bear Sprinklers are designed with HUNT (High Uniformity Nozzle Technology)... the best distribution pattern in the industry... WE GUARANTEE IT!



**SINGLE NOZZLE**



**DUAL NOZZLE**



**FULL/PART CIRCLE**

**REPLACES**

Rain Bird® "D" Series  
Eagle 700 Series  
TORO®  
630 • 660 Series  
730 • 760 Series



## R-850 / R-851 SERIES

Radius 53' - 72'  
Flow Rate: 11.0 - 31.3 GPM

### SPECIAL FEATURES

- Heavy-Duty Flange/Regulator Guard
- Interchangeable Nozzles included
- 4' Pop-Up (self flushing) Stainless Steel Riser
- Electric, Check-O-Matic and Hydraulic Models
- Exclusive On/Off control for hydraulic models (R-850-H / R-851-H)

## R-820 / R-821

Radius 53' - 72'  
Flow Rate: 11.0 - 31.3 GPM

### SPECIAL FEATURES

- All-in-one Full & Part Circle (R-820)
- 4 Pop-Up (self flushing)
- Stainless Steel Riser
- Check-O-Matic, Ideal for Block Systems
- Interchangeable Nozzles included
- Special Rubber Cover Option
- ACME threads



**FULL/PART CIRCLE**



**REPLACES**

Rain Bird® "D" Series  
Eagle 700 Series  
Plastic Body SAM Impacts  
Metal Body SAM Impacts  
R-70 Series  
Buckner Rotors 1360  
Hunter I-40  
TORO® 640 • 2001 Series  
Thompson 176-187  
Nelson 6500 • 7000  
7500 Series

Bear Nozzle	Base Pressure (PSI)										
	50	55	60	65	70	75	80	85	90	95	100
Radius	53	56	55	56	57	-	-	-	-	-	-
	GPM	11.0	11.7	12.9	14.5	14.5	14.5	14.5	14.5	14.5	14.5
03 Orange	Radius	56	57	58	59	60	-	-	-	-	-
	GPM	13.1	13.8	14.8	15.7	16.2	16.2	16.2	16.2	16.2	16.2
Radius	61	62	62	63	63	-	-	-	-	-	-
	GPM	16.5	17.1	17.6	18.0	18.7	18.7	18.7	18.7	18.7	18.7
Radius	63	63	64	65	65	67	68	68	68	68	-
	GPM	21.8	22.6	23.4	24.2	24.8	25.4	26.0	26.0	27.0	27.0
Radius	65	66	67	68	69	71	72	72	72	-	-
	GPM	24.5	25.5	26.5	27.4	28.1	29.0	30.5	31.3	31.3	31.3

### NOZZLE SELECTOR GUIDE

Bear Nozzle	TORO® Series				Rain Bird® Series			
	630	650	660	730	760	47D	51D	Eagle 700/750
01 Yellow	31	54	-	31	62	-	-	-
03 Orange	32	-	62	32	-	16	-	14
04 Brown	33	55	63	33	63	-	16	16
07 Blue	34	-	-	34	64	-	18	18
08 Green	-	56	64	35	65	-	-	20

Gold shaded areas represent factory pressure regulation.  
Gray shaded areas represent pressure not recommended for optimal nozzle performance.

Series	Part No.	Type
R-850 PART & FULL CIRCLE	R-850-H	Hydraulic normally open (with on/off control)
	R-850-C	Check-O-Matic
	R-850-E	Electric
R-851 FULL CIRCLE	R-851-H	Hydraulic normally open (with on/off control)
	R-851-C	Check-O-Matic
	R-851-E	Electric
R-820	R-820-B	Part & Full Circle Check-O-Matic
	R-821-B	Full Circle Check-O-Matic



# COMPLETE SPRINKLERS

# REINVENTS INNOVATION

Bear's passion for innovation doesn't stop with sprinklers. We also offer a superior line of unique irrigation accessories.



## HotShot™

This heavy duty, multiple spray pattern, hose end nozzle is perfect for hot spot irrigation, equipment washing, and as a greens syringe.

Part No.	Description
HS-075	HotShot 3/4" Thread.
HS-075-L	HotShot 3/4" Thread.
HS-100	HotShot 1" Thread.
HS-100-L	HotShot 1" Thread.



## CoolShot Plus™

Part No.	Description
CSP-075	CoolShot 3/4" Thread.
CSP-075L	CoolShot 3/4" Thread.
CSP-100	CoolShot 1" Thread.
CSP-100-L	CoolShot 1" Thread.



Part No.	Description
CSPE-075	CoolShot 3/4" Thread.
CSPE-075L	CoolShot 3/4" Thread.
CSPE-100	CoolShot 1" Thread.
CSPE-100-L	CoolShot 1" Thread.

## THE GUZZLER™



This hand pump with high suction power removes standing water in sprinkler bodies and green cups. Disassembles for easy cleaning. Part No. B-006



## SUPER VALVE™

Upgrade all TORO® 1" and 1 1/2" Inlet golf sprinklers. (No more weeping or flooding from stuck-on valves).

Part #	Description
RP-1006	1" Inlet Electric TORO BEAR, John Deere, Sirtature.
RP-1016	1" Inlet Hydraulic TORO BEAR, John Deere, Sirtature.
RP-1047E	1.5" Inlet TORO Electric.
RP-1047HC	1.5" Inlet TORO Hydraulic and Check-0-Matic
RP-1068E	1.5" Inlet Electric - BEAR, John Deere, Sirtature.
RP-1068HC	1.5" Inlet Electric - BEAR, John Deere, Sirtature.



## FANSHOT™



Part No.	Description
FS-075-10	FanShot 1"   3/4" Thread 10gpm.

## HOSE HEAD™



Economical all-in-one hose adapter for BEAR and TORO® sprinklers with 360° swivel action.

Part No.	Description
HS-013	1" Inlet Sprinkler, 3/4" Swivel.
HS-014	1" Inlet Sprinkler, 1" Swivel.
HS-015	1 1/2" Inlet Sprinkler, 3/4" Swivel.
HS-016	1 1/2" Inlet Sprinkler, 1" Swivel.
HS-017	1" Hose Thread for G90 Sprinklers

# BEAR REINVENTS SERVICEABILITY

Replacement parts for Bear sprinklers are easy to install and can be used to upgrade TORO® and Rain Bird® sprinklers. An assortment of handy tools makes servicing your irrigation system even easier.

Part No.	Description	Replaces
RP-1010	Valve Snap Ring	All TORO® 1" Inlet Golf Sprinklers
RP-2412	Solenoid (NEW Twin-Pack) Replaces all 3/4" - 20 thread (Bear R-850 & R-870 Series)	TORO® Golf Sprinklers, Control Valves & some Rain Bird® Golf Sprinklers
RP-1008	Snap Ring (Bear R-7300, 7301, 7302)	TORO® 630 • 660 730 • 760 Series
RP-1009	Snap Ring (Bear R-870 & R-6700, R-7800)	TORO® 650 • 670 • 680 750 • 780 Series
RP-1024	Snap Ring (Bear R-4751, 5100)	Rain Bird® 47D • 51D Series
RP-1021	O-Ring (Bear 7300 & 7302, 850, 851)	TORO® 630 • 660 730 • 760 Series
RP-1022	O-Ring (Bear 6700, 7800)	TORO® 650 • 670 • 680 750 • 780 Series

Part No.	Description	Replaces
B-001	Snap Ring Tool/ Pilot Valve Key (Bear ALL)	TORO® 730 • 750 760 • 780 Series
B-002	Pilot Valve Key (Bear R-850 & 870 Series)	All TORO® Electric Golf Sprinklers
B-003	Valve Insertion Tool (Bear R-850 Series)	All TORO® 1" inlet bodies
B-004	Valve Insertion Tool (Bear R-870 Series)	
B-008	Riser Support Tool (Bear INS-T-690-FC)	
B-009	T-Handle Pull Up Tool (Bear INS-T-690-FC)	
B-010	Easy-Arc Adjustment Tool (Bear-PC)	



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Form No. 50-1026

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