

# All the D50 advantages. Now available in a block rotor.

Now redesigned with a new click-set design, more rugged gear drive, a bypass valve for more consistent performance regardless of pressure variations, and better protection during high-pressure situations.

Bottom valve ensures even better performance and reliability. Cylindrical filter is self-flushing and minimizes contaminants flowing into valve.

Rock screen is now a cage design for higher strength.

### High Performance

- A full 4-inch pop-up clears tall turfgrass for even coverage.
- Rolled-over flange keeps turfgrass clear of riser and nozzle.
- Stainless-steel riser resists damage and vandalism.
- Tough, industrial-grade plastic case stands up to punishment.
- Special design eliminates blow-by and reduces pressure loss to improve system performance.
- Dual-direction flushing protects internals from debris and ensures positive pop-up/down.
- Uniform coverage with square or triangular spacing.
- Full-circle and adjustable patterns for maximum flexibility.
- Easy arc adjustment in the field without any tools.
- Choose from multiple interchangeable nozzles that deliver superior precipitation rates in a variety of radii from 37 ft. to 72 ft. and flows from 7.9 to 32.4 gpm.
- Unique manual On/Off control for hydraulic rotors.
- Heavy-duty spring assures positive retraction.
- Additional nozzles available to customize application.
- Compact cartridge design allows for quick and easy repair.
- Quicklock™ design allows internals to be serviced from the rotor's top.
- Comprehensive 3-year warranty.

## SPECIFICATIONS

### Models:

*Full-Circle:*

D50B: Block Rotor

*Part-Circle:*

D55B: Block Rotor

### Inlet Threads:

1" ACME female threaded

1" NPT female threaded

1" BSP female threaded

### Standard Factory Threads:

1" ACME female threaded

### Arc:

D50B-Series: Full-Circle, 360°

D55B-Series: Part-Circle, 35° to 360°

### Maximum Inlet Pressure:

D50B and D55B: 150 psi (10,3 bar)

### Check:

Checks water up to  
15' of elevation change

### Rotation Time:

*D50B-Series:*

360° in 150 seconds (nominally)

*D55B-Series:*

180° in 75 seconds (nominally)

### Nozzle Trajectory: 25°

### Riser: Stainless Steel



# HOW TO ORDER/SPECIFY

50-Series Block Golf Rotors Medium-Range			
MODEL	NOZZLE	BASE PRESSURE	THREAD TYPE
D50B = 1" Full-Circle Block Rotor	08 = #08-Black	60 = 60 psi	A = ACME
D55B = 1" Part-Circle Block Rotor	12 = #12-Gray	70 = 70 psi	B = BSP
	14 = #14-Yellow	80 = 80 psi	N = NPT
	16 = #16-Orange	90 = 90 psi	
	18 = #18-Brown		
	19 = #19-Red		
	25 = #25-Blue		
	28 = #28-Green		

Notes: Highlighted boxes (■) indicate standard factory setting.

# PERFORMANCE DATA

50-Series Full-Circle Block Rotor Performance Data (U.S.)																																
Base Pressure (psi)	#08 BLACK				#12 GRAY				#14 YELLOW				#16 ORANGE				#18 BROWN				#19 RED				#25 BLUE				#28 GREEN			
	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)				
60	37	7.9	0.56	0.64	39	9.9	0.63	0.72	47	13.8	0.60	0.69	51	16.9	0.63	0.72	53	19.8	0.68	0.78	55	19.7	0.63	0.72	59	22.6	0.63	0.72	62	28.0	0.70	0.81
70	37	10.1	0.71	0.82	39	11.5	0.73	0.84	47	15.4	0.67	0.78	55	18.3	0.58	0.67	57	20.2	0.60	0.69	55	21.1	0.67	0.78	67	26.6	0.57	0.66	71	30.8	0.59	0.68
80																					59	22.2	0.61	0.71	69	28.5	0.58	0.67	72	32.4	0.60	0.70

50-Series Full-Circle Block Rotor Performance Data (Metric)																																								
Base Pressure (bars)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)					
	4.1	11.2	0.5	1.8	14.18	16.37	11.9	0.6	2.2	15.99	18.47	14.3	0.9	3.1	15.35	17.73	15.5	1.1	3.8	15.97	18.44	16.1	1.2	4.5	17.32	20.00	16.7	1.2	4.5	16.00	18.48	17.9	1.4	5.1	15.95	18.42	18.8	1.8	6.4	17.90
4.8	11.2	0.6	2.3	18.13	20.93	11.9	0.7	2.6	18.58	21.45	14.3	1.0	3.5	17.13	19.78	16.7	1.2	4.2	14.87	17.17	17.3	1.3	4.6	15.28	17.64	16.7	1.3	4.8	17.14	19.79	20.4	1.7	6.0	14.56	16.81	21.6	1.9	7.0	15.01	17.34
5.5																					18.0	1.4	5.0	15.59	18.00	21.0	1.8	6.5	14.63	16.90	21.9	2.0	7.4	15.28	17.64					

55-Series Part-Circle Block Rotor Performance Data (U.S.)																																
Base Pressure (psi)	#08 BLACK				#12 GRAY				#14 YELLOW				#16 ORANGE				#18 BROWN				#19 RED				#25 BLUE				#28 GREEN			
	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)	Radius (ft)	Flow (gpm)	P.R.■ (in/hr)	P.R.▲ (in/hr)
60	37	7.9	0.56	0.64	40	9.0	0.54	0.63	49	11.9	0.48	0.55	53	15.0	0.51	0.59	57	16.8	0.50	0.58	55	19.7	0.63	0.72	61	21.2	0.55	0.63	63	26.4	0.64	0.74
70	37	10.1	0.71	0.82	40	12.0	0.72	0.83	47	14.5	0.63	0.73	51	16.3	0.60	0.70	55	18.3	0.58	0.67	55	21.1	0.67	0.78	59	24.4	0.68	0.78	65	26.2	0.60	0.69
80																					59	22.2	0.61	0.71	65	26.4	0.60	0.69	67	30.6	0.66	0.76

55-Series Part-Circle Block Rotor Performance Data (Metric)																																								
Base Pressure (bars)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R.■ (mm/hr)	P.R.▲ (mm/hr)					
	4.1	11.2	0.5	1.8	14.18	16.37	12.2	0.6	2.0	13.82	15.96	14.9	0.8	2.7	12.18	14.06	16.1	0.9	3.4	13.12	15.15	17.3	1.1	3.8	12.71	14.67	16.7	1.2	4.5	16.00	18.48	18.5	1.3	4.8	14.00	16.17	19.2	1.7	6.0	16.35
4.8	11.2	0.6	2.3	18.13	20.93	12.2	0.8	2.7	18.43	21.28	14.3	0.9	3.3	16.13	18.63	15.5	1.0	3.7	15.40	17.78	16.7	1.2	4.2	14.87	17.17	16.7	1.3	4.8	17.14	19.79	17.9	1.5	5.5	17.22	19.89	19.8	1.7	6.0	15.24	17.60
5.5																					18.0	1.4	5.0	15.59	18.00	19.8	1.7	6.0	15.27	17.64	20.4	1.9	6.9	16.66	19.24					

Note all data is current at the time of printing & subject to change. Please check with the manufacturer for updated values before specifying. All nozzles were tested at a Base Pressure 10 psi above Regulated Pressure.