

D70/D75 GOLF SERIES ROTORS



Stay true, no matter which way the wind blows.

The D70 Series doesn't let weather affect performance, thanks to a unique design that eliminates blow-back, and built-in rear nozzle for extra coverage in windy conditions.

D70/D75 SERIES

FEATURES

High Performance

- A full 3-inch pop-up clears tall turfgrass for even coverage.
- Closed case internal with integrated debris filter and stator.
- Rolled-over head keeps turfgrass clear of riser and nozzle.
- Special design eliminates blow-by and reduces pressure loss to improve system performance.
- New gear box with coarser gear design.
- Unique air bypass feature reduces potential for gear drive damage during winterization.
- 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; part circle rotors can be adjusted while running.
- Part circle rotor has the ability to be used as a full circle – a unique feature for retrofit projects.
- AUTO/OFF/ON selector for electric and hydraulic VIH rotors.
- Additional nozzles available to customize application.
- Comprehensive 3-year warranty.

SPECIFICATIONS

Models:

Full-Circle:
 D70E: Electric Valve-in-Head
 D70C: Check Valve-in-Head
 D70H: Hydraulic (N.O.)
 Part-Circle:
 D75E: Electric Valve-in-Head
 D75C: Check Valve-in-Head
 D75H: Hydraulic (N.O.)

Arc:

D70-Series: Full-Circle, 360°
 D75-Series: Part-Circle, 35° to 360°

Maximum Inlet Pressure:

D70E and D75E: 150 psi (10,3 bar)
 D70C and D75C: 150 psi (10,3 bar)
 D70H and D75H: 150 psi (10,3 bar)

Pressure Regulation Range:

60 to 90 psi (4,1 to 6,2 bar)

Factory Pressure Settings:

D70E and D75E available in 60, 70, 80, 90 psi

Standard Factory Setting:

80 psi (5,5 bar)

Rotation Time:

D70-Series: 360° in 150 seconds (nominally)

D75-Series: 180° in 75 seconds (nominally)

Inlet Threads:

1¼" ACME female threaded*
 1½" NPT female threaded
 1½" BSP female threaded
 *Standard Factory Threads

Check:

D70C and D75C Series:
 15' (4,6 m) elevation

Nozzle Trajectory: 25°

Dimensions:

Body Height: 10.75" (27,3 cm)
 Top Diameter: 7.50" (19,1 cm)
 Pop-Up Height: 3.00" (7,6 cm)

Riser: Stainless Steel

Solenoid:

24 VAC 50/60 Hz
 Inrush Amps: 0.30
 Holding Amps: 0.20

HOW TO ORDER/SPECIFY

D70-Series Full-Circle Golf Rotors				
MODEL	VALVE TYPE	NOZZLE	BASE PRESSURE	THREAD TYPE
D70 = Full-Circle Rotor	E = Electric Valve-in-Head	37 = #37-Red	60 = 60 psi	A = ACME (1¼")
	C = Check Valve-in-Head	40 = #40-Brown	70 = 70 psi	B = BSP (1½")
	H = Hydraulic Valve-in-Head	45 = #45-Green	80 = 80 psi	N = NPT (1½")
		50 = #50-Black	90 = 90 psi	
		57 = #57-Blue		

D75-Series Part-Circle Golf Rotors				
MODEL	VALVE TYPE	NOZZLE	BASE PRESSURE	THREAD TYPE
D75 = Part-Circle Rotor	E = Electric Valve-in-Head	32 = #32-Yellow	60 = 60 psi	A = ACME (1¼")
	C = Check Valve-in-Head	36 = #36-Gray	70 = 70 psi	B = BSP (1½")
	H = Hydraulic Valve-in-Head	41 = #41-Orange	80 = 80 psi	N = NPT (1½")
			90 = 90 psi	

Notes: (1) Base Pressure setting is ONLY used on E types [Electric Valve-in-Head]; it is omitted for C and H types.
 (2) Highlighted boxes (■) indicate standard factory setting.

Examples: (a) D70-Series, Full-Circle, Electric Valve-in-Head, #50-Black Nozzle, 80 psi pressure setting, ACME connection. Final Part No. would be: D70E5080A
 (b) D70-Series, Part-Circle, Check Valve-in-Head, #32-Yellow Nozzle, ACME connection. Final Part No. would be: D75C32A

PERFORMANCE DATA

D70-Series Full-Circle Rotor Performance Data (U.S.)																								
Base Pressure (bars)	#37 RED					#40 BROWN				#45 GREEN				#50 BLACK				#57 BLUE						
	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	P.R. (in/hr)				
60	67	33.2	0.71	0.82	0.82	65	34.3	0.78	0.90	0.90	67	36.8	0.79	0.91	0.91	73	44.6	0.81	0.93	0.93	75	46.0	0.79	0.91
70	73	36.1	0.65	0.75	0.75	73	38.6	0.70	0.81	0.81	76	41.7	0.70	0.80	0.80	77	46.9	0.76	0.88	0.88	79	48.8	0.75	0.87
80	77	48.1	0.78	0.90	0.90	79	50.6	0.78	0.90	0.90	85	52.5	0.70	0.81	0.81	89	56.2	0.68	0.79	0.79	93	61.7	0.69	0.79
90	73	36.1	0.65	0.75	0.75	75	42.6	0.73	0.84	0.84	83	45.9	0.64	0.74	0.74	89	51.3	0.62	0.72	0.72	93	54.2	0.60	0.70

D70-Series Full-Circle Rotor Performance Data (Metric)																									
Base Pressure (bars)	#37 RED					#40 BROWN				#45 GREEN				#50 BLACK				#57 BLUE							
	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	P.R. (in/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	P.R. (in/hr)	P.R. (in/hr)				
4,1	20.4	2.1	7.5	18.19	21.00	19.8	2.2	7.8	19.95	23.04	20.4	2.3	8.4	20.16	23.28	22.2	2.8	10.1	20.56	23.74	22.8	2.9	10.5	20.11	23.23
4,8	22.4	2.3	8.2	16.65	19.23	22.2	2.4	8.8	17.82	20.58	23.1	2.6	9.5	17.74	20.49	23.4	3.0	10.7	19.46	22.47	24.0	3.1	11.1	19.20	22.17
5,5	23.4	3.0	10.9	19.94	23.03	24.0	3.2	11.5	19.90	22.98	25.8	3.3	11.9	17.87	20.63	27.1	3.5	12.8	17.42	20.12	28.3	3.9	14.0	17.54	20.26
6,2	22.2	2.3	8.2	16.65	19.23	22.8	2.7	9.7	18.61	21.50	25.2	2.9	10.4	16.36	18.89	27.1	3.2	11.6	15.91	18.37	28.3	3.4	12.3	15.39	17.77

D75-Series Part-Circle Rotor Performance Data (U.S.)												
Base Pressure (psi)	#32 YELLOW				#36 GRAY				#41 ORANGE			
	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)	Radius (ft)	Flow (gsm)	P.R. (in/hr)	P.R. (in/hr)
60	67	27.5	0.59	0.68	67	28.0	0.60	0.69	65	32.3	0.74	0.85
70	69	29.3	0.59	0.68	69	32.2	0.65	0.75	71	34.5	0.66	0.76
80	69	31.6	0.64	0.74	69	34.0	0.69	0.79	73	37.7	0.68	0.79
90	71	33.1	0.63	0.73	73	36.5	0.66	0.76	73	39.9	0.72	0.83

D75-Series Part-Circle Rotor Performance Data (Metric)															
Base Pressure (bars)	#32 YELLOW				#36 GRAY				#41 ORANGE						
	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)	Radius (m)	Flow (l/s)	Flow (m³/hr)	P.R. (in/hr)			
4,1	20.4	1.7	6.2	15.03	17.35	20.4	1.8	6.4	15.32	17.69	19.8	2.0	7.3	18.80	21.71
4,8	21.0	1.8	6.6	15.10	17.44	21.0	2.0	7.3	16.59	19.16	21.6	2.2	7.8	16.81	19.41
5,5	21.0	2.0	7.2	16.31	18.83	21.0	2.1	7.7	17.52	20.23	22.2	2.4	8.6	17.40	20.10
6,2	21.6	2.1	7.5	16.11	18.60	22.2	2.3	8.3	16.82	19.43	22.2	2.5	9.1	18.40	21.25

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.



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