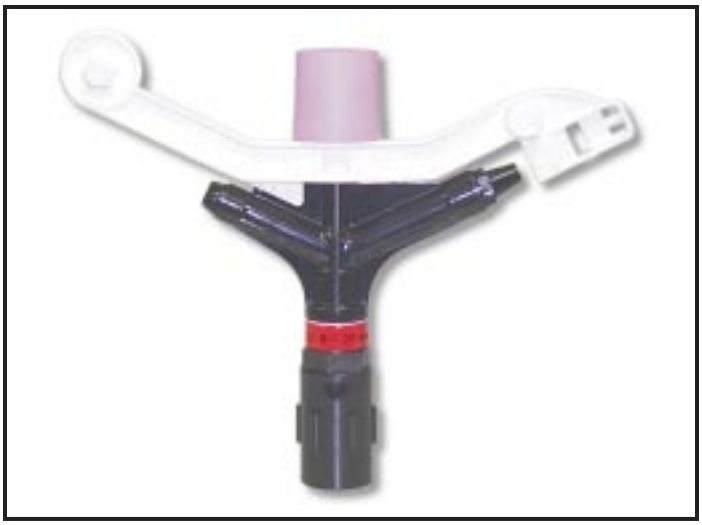

F-luent-Master®

70 SERIES
360° ROTATION IMPACT SPRINKLERS

DESCRIPTION

The Senninger Irrigation F-luent-Master® sprinkler is designed specifically for disposing effluent by the land treatment method in accordance with EPA guidelines. It is suitable for use on solid-set systems. With minor modifications it can also be used on center pivots or other mechanical-move systems. The 70 series is designed to distribute water over a large diameter for higher volume systems.

SPECIFICATIONS

Sprinkler shall be of 360 degree rotation driven by impact splasharm and spring. It shall be capable of a distribution pattern of _____ (feet/meters) in diameter at a riser height of _____ (feet/meters) with a sprinkler base operating pressure of _____ (psi / b a r) and a discharge rate of _____ (gpm / L/s).
Trajectory shall be 25 degrees.
Nozzle size shall be _____ inch (nozzle # _____).
Lower bearing plastic thread shall be 1" NPT male.

Sprinkler body shall be constructed of high-impact engineering-grade thermoplastics with stainless steel fulcrum pin and splasharm spring. Fulcrum pin shall be molded into the body for maximum support and stability. Splasharm spring and bearing shall be enclosed for trouble-free performance. Sprinkler shall be equipped with an effluent vane to minimize possible flow obstruction from water-borne solids. Sprinkler cap shall be lavender to correspond to industry standards denoting non-potable water.

Sprinkler shall carry a two-year manufacturer's warranty on materials, workmanship and performance.

FEATURES

- Flow range: 8.11 to 31.6 gpm (0.52 to 2.02 L/s)
- Sprinkler base pressure: 35 to 70 psi (2.5 to 5.0 bar)
- 25 degree models:
  7025 RD-1-1 1/4" F EFF
  (includes 1 1/4" x 1" female NPT plastic reducer coupling)
  7025 RD-1-1" F EFF
  (includes 1" female NPT plastic coupling)
  7025 RD-1-3/4" F EFF
  (includes 1" x 3/4" female NPT plastic reducer coupling)
  7025 RD-1-1" M EFF
  (galvanized steel connection fittings not recommended)
- High-impact engineering-grade thermoplastic construction resists chemical degradation, scale buildup and UV effects
- Stainless steel springs and fulcrum pin enclosed to resist contamination; electrolysis eliminated by using no brass parts
- Lavender cap to correspond to industry standards denoting use of non-potable water
- Effluent vane minimizes obstruction from water-borne materials
- Nozzle sizes from 7/32" to 3/8" (#14 through #24) (5.6 to 9.5 mm)
- Two-year manufacturer's warranty on materials, workmanship and performance
- Also available in a double-nozzle model, flow range: 10.7 to 39.1 gpm (0.68 to 2.50 L/s)

Available through leading irrigation dealers.

Designed and manufactured by:

Senninger Irrigation Inc.
6416 Old Winter Garden Road
Orlando, FL 32835 U.S.A.
Phone: (407) 293-5555 • Fax: (407) 293-5740
www. senninger.com • e-mail: info@senninger.com

F-luent-Master®

7025 RD-1 EFF

SPRINKLER BASE PRESSURE (psi)	U.S. - Diameter (feet)							
	35	40	45	50	55	60	65	70
#14 Nozzle - (7/32")								
Flow (gpm)	8.11	8.66	9.20	9.69	10.2	10.6	11.0	11.5
Diam. at 1.5' height (ft)	106	111	113	115	117	119	121	123
Diam. at 6.0' height (ft)	114	118	121	124	126	128	129	130
#16 Nozzle - (1/4")								
Flow (gpm)	10.7	11.4	12.1	12.8	13.4	14.0	14.6	15.1
Diam. at 1.5' height (ft)	111	117	120	123	126	129	131	133
Diam. at 6.0' height (ft)	122	126	129	131	134	136	137	138
#18 Nozzle - (9/32")								
Flow (gpm)	13.3	14.2	15.0	15.9	16.6	17.4	18.1	18.8
Diam. at 1.5' height (ft)	118	124	127	129	134	139	142	144
Diam. at 6.0' height (ft)	128	132	135	137	141	144	146	147
#20 Nozzle - (5/16")								
Flow (gpm)	16.0	17.1	18.2	19.2	20.1	21.0	21.8	22.7
Diam. at 1.5' height (ft)	124	130	134	137	142	146	150	153
Diam. at 6.0' height (ft)	133	137	140	143	147	151	154	155
#22 Nozzle - (11/32")								
Flow (gpm)	19.3	20.5	21.8	22.9	24.1	25.1	26.1	27.1
Diam. at 1.5' height (ft)	126	133	141	148	153	157	160	162
Diam. at 6.0' height (ft)	136	141	146	150	155	159	162	164
#24 Nozzle - (3/8")								
Flow (gpm)	22.4	23.9	25.3	26.7	28.0	29.3	30.4	31.6
Diam. at 1.5' height (ft)	130	138	145	151	156	160	166	169
Diam. at 6.0' height (ft)	138	145	150	155	160	164	167	170

(bar) (psi)	METRIC - Diameter (meters)					
	2.5 *36.25*	3.0 *43.50*	3.5 *50.75*	4.0 *58.00*	4.5 *65.25*	5.0 *72.50*
#14 Nozzle - (5.6 mm)						
(L/s)	0.52	0.57	0.61	0.66	0.70	0.73
0.5 m (m)	32.7	34.3	35.1	36.0	36.9	37.8
2.0 m (m)	35.1	36.6	37.9	38.8	39.3	39.8
#16 Nozzle - (6.4 mm)						
(L/s)	0.69	0.75	0.81	0.87	0.92	0.97
0.5 m (m)	34.3	36.3	37.6	39.0	40.0	41.0
2.0 m (m)	37.5	39.0	40.1	41.2	41.8	42.2
#18 Nozzle - (7.1 mm)						
(L/s)	0.85	0.94	1.01	1.08	1.15	1.21
0.5 m (m)	36.4	38.4	39.5	41.8	43.3	44.5
2.0 m (m)	39.3	40.9	41.9	43.5	44.5	45.0
#20 Nozzle - (7.9 mm)						
(L/s)	1.02	1.12	1.21	1.29	1.37	1.45
0.5 m (m)	38.3	40.5	42.0	44.0	45.8	47.1
2.0 m (m)	40.8	42.4	43.8	45.5	47.0	47.4
#22 Nozzle - (8.7 mm)						
(L/s)	1.23	1.34	1.45	1.55	1.65	1.73
0.5 m (m)	38.9	42.2	45.3	47.4	48.8	49.8
2.0 m (m)	41.8	44.0	46.0	48.0	49.4	50.1
#24 Nozzle - (9.5 mm)						
(L/s)	1.43	1.56	1.69	1.80	1.91	2.02
0.5 m (m)	40.2	43.6	46.3	48.3	50.7	52.4
2.0 m (m)	42.6	45.3	47.5	49.5	50.9	52.4

Figures reflect actual test data obtained under ideal conditions. Stream heights range from 8.5 - 15.5 ft (2.6 - 4.7 m) above nozzle based on pressure and nozzle size. Sprinkler performance tests were conducted in accordance with the American Society of Agricultural Engineers standard S398.1 and are representative of production at the time of publication. Diameters shown are for standard straight bore nozzles and effluent vanes (brown). Other nozzles and/or vane combinations are available; consult factory for specific performance data.