Senninger®

I-WOB

The Most Imitated Sprinkler on the Market

AGRICULTURAL IRRIGATION

Low Pressure - High Performance

THE I-WOB IS THE MOST IMITATED SPRINKLER IN THE INDUSTRY

Outstanding Uniformity and gentle rain-like application.

Produced in 1978, the Senninger i-Wob is the most imitated sprinkler in the industry, which means others know the proven value of Wobbler® technology. It provides the most uniform water application ever tested. The combination of a rotating grooved deflector with wobbling action delivers a consistent droplet size over a large area of coverage at low pressure. The i-Wob's low application intensity, unmatched uniformity, and large area of coverage has made it a leading product in helping growers irrigate more efficiently in over 85 countries worldwide.

Features

① Low pressure operation saves energy: 10 to 15 psi (0.69 to 1.03 bar)

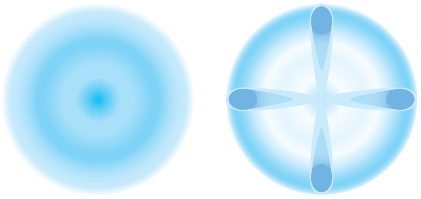
② 4 different models based on trajectory and droplet size

③ Exclusive below-the-nozzle weight eliminates the need for heavier, conventional drop weights

④ UP3 Nozzle is easy to remove for cleaning or changing

⑤ Two-year warranty on materials, workmanship and performance

INSTANTANEOUS AREA OF COVERAGE



i-Wob *Stream Driven*

In this example, the i-Wob is instantaneously spreading the same amount of water over an area five times greater than the area covered by the spray nozzle.

LOW APPLICATION INTENSITY

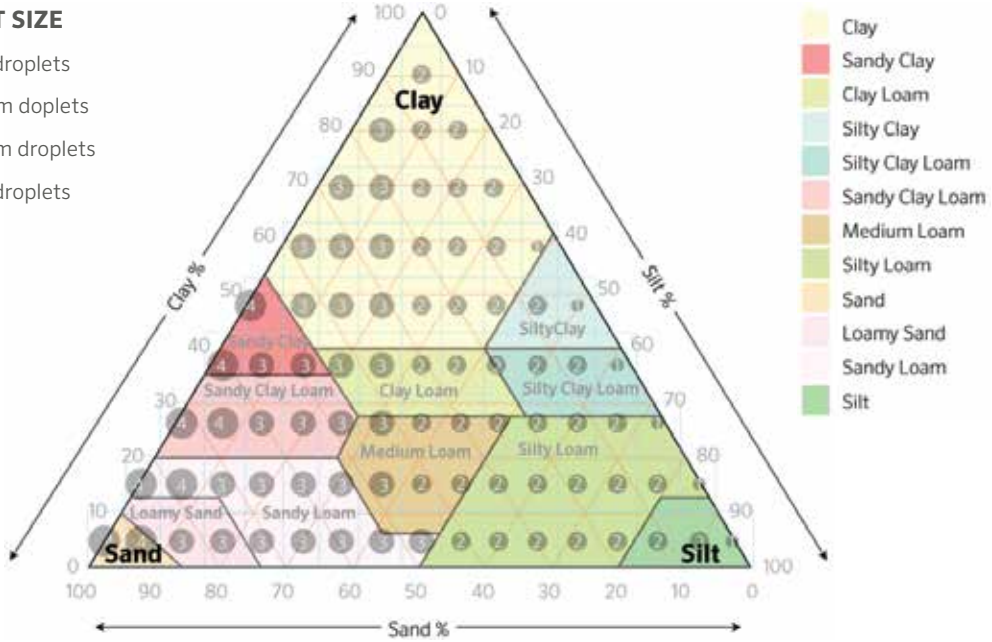
Stream-driven applicators provide good throw distance, but their distinct streams instantaneously place the entire flow in a relatively small area. This more intense application can negatively impact the soil surface. In contrast, the i-Wob applies water to a larger area of soil surface, reducing the impact of the sprinkler's pattern on the soil structure. Larger instantaneous coverage offers a slower intake rate to help reduce runoff and wheel tracking.

UNMATCHED UNIFORMITY

The i-Wob offers a gentle, more uniform delivery and an even droplet size. Consistently-sized droplets help maintain a sprinkler's pattern integrity in wind conditions and are more resistant to evaporation. The i-Wob's droplet size can be tailored to the needs of the soil through the selection of proper deflectors and operating pressures.

I-WOB DROPLET SIZE

- SA6: Small droplets
- SA9: Medium doplets
- LA6: Medium droplets
- LA6: Large droplets



DROPLET SIZE NEEDED FOR TYPE OF SOIL

Sprinklers are designed to produce a desired droplet size, although there isn't a definitive procedure for determining the appropriate droplet size. Soils are susceptible to surface sealing that will result in reduction of the infiltration rate. The reduction depends on the percentages of silt and sand and the droplet size. Soils low in silt and high in sand are more resistant to infiltration reduction. The graphic above shows the relative resistance of soils to surface sealing on a scale of 1 to 4, where 4 is most resistant. The larger the number, the larger the droplet size can be on that soil type.

Excerpt: von Bernuth, R.D. and J.R. Gilley. 1985. Evaluation of center pivot reduction. Trans. ASAE 28(6): 1940-1946.




FOUR DEFLECTOR MODELS

The i-Wob is available with four different deflectors. This allows you to select the droplet size and trajectory to best suit your installation, soil and crop needs.




I-WOB DESIGN CRITERIA	Standard Angle 6-Groove - Grey Small Droplets	Standard Angle 9-Groove - Black Medium Droplets	Low Angle 9-Groove -Blue Medium Droplets	Low Angle 6-Groove - White Large Droplets
Nozzle Sizes				
Minimum	**#10** 5/23" (3.97 mm)	**#6** 3/32" (2.38 mm)	**#6** 3/32" (2.38 mm)	**#12** 3/16" (4.76 mm)
Maximum*	**#26** 13/32" (10.32 mm)	**#26** 13/32" (10.32 mm)	**#26** 13/32" (10.32 mm)	**#26** 13/32" (10.32 mm)
Flows				
Minimum	2.24 gpm (509 L/hr)	0.80 gpm (182 L/hr)	0.80 gpm (182 L/hr)	3.24 gpm (736 L/hr)
Maximum	18.35 gpm (4168 L/hr)	18.35 gpm (4168 L/hr)	18.35 gpm (4168 L/hr)	18.35 gpm (4168 L/hr)
Diameters				
Minimum at 3 ft (0.91 m)	36 ft (11.0 m)	31 ft (9.5 m)	31 ft (9.5 m)	40 ft (12.2 m)
Maximum at 3 ft (0.91 m)	46 ft (14.0 m)	53 ft (16.2 m)	47 ft (14.3 m)	49 ft (14.9 m)
Minimum at 6 ft (1.83 m)	35 ft (10.7 m)	34 ft (10.4 m)	35 ft (10.7 m)	44 ft (13.4 m)
Maximum at 6 ft (1.83 m)	50 ft (15.2 m)	57 ft (17.4 m)	50 ft (15.2 m)	53 ft (16.2 m)
Minimum at 9 ft (2.74 m)	36 ft (11.0 m)	38 ft (11.6 m)	39 ft (11.9 m)	49 ft (14.9 m)
Maximum at 9 ft (2.74 m)	52 ft (15.8 m)	59 ft (18.0 m)	55 ft (16.8 m)	57 ft (17.4 m)
Maximum Spacing**				
at 6 ft (1.8 m) ground clearance	18 ft (5.5 m)	20 ft (6.1 m)	18 ft (5.5 m)	15 ft (4.6 m)
at 9 ft (2.74 m) ground clearance	18 ft (5.5 m)	20 ft (6.1 m)	18 ft (5.5 m)	15 ft (4.6 m)
Pressure at the Nozzle				
Minimum	10 psi (0.69 bar)	10 psi (0.69 bar)	10 psi (0.69 bar)	10 psi (0.69 bar)
Maximum	15 psi (1.03 bar)	15 psi (1.03 bar)	15 psi (1.03 bar)	15 psi (1.03 bar)

**It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.*
*** For optimum performance, Senninger recommends the use of maximum spacing for 1-2 spans only.*
Note: *Keep i-Wobs above crop canopy when outlet spacing exceeds 10 ft (3.0 m). This is especially important on high profile crops.*

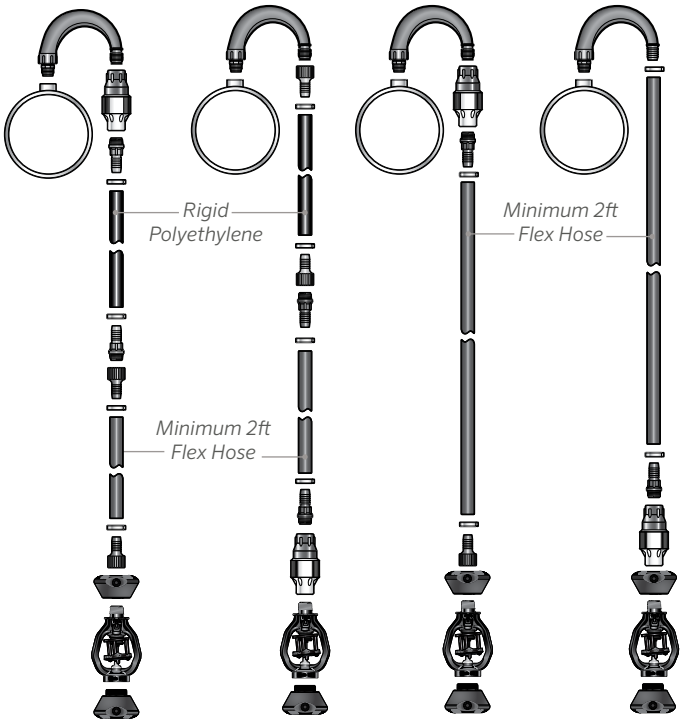
I-WOB SYSTEM ASSEMBLY

- Always mount the i-Wob on a minimum of 2 ft (0.6 m) reinforced flexible hose. The hose must be on the outlet end of any semi-rigid or rigid drop.
- Mount the i-Wob no less than 3 ft (0.91 m) above the ground.
- When using Senninger's Magnum or One Weight, always be sure it is tightly threaded to the bottom of the i-Wob. (140 inch-lbs torque recommended)
- If using a conventional drop weight above the i-Wob, it should be a threaded weight of at least 1.5 lbs (0.7 kg), and should not exceed 1 ft (0.38 m) in length. A slip-over drop weight may cause premature failure of the drop tube assembly. Never combine weights above and below the i-Wob.

Note: Using a slip-over drop weight may cause premature failure of the drop tube assembly.

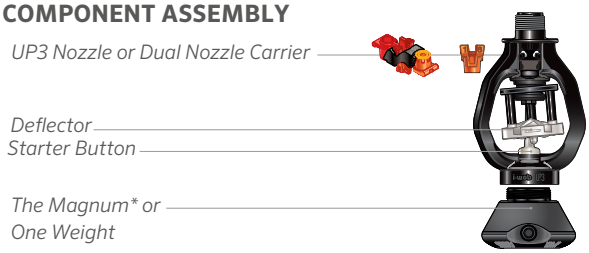
PRESSURE REGULATOR LOCATION

- Pressure regulators can be installed at the top of the drop or near the applicator.
- Follow your customized print out for proper pressure regulator placement.



Minimum ground clearance of 3ft (0.91 m)

COMPONENT ASSEMBLY



SENNINGER WEIGHTS

Senninger weights provide stability on drops for a number of pivot applicators. The unique fit technology allows the weight to fit securely onto the i-Wob, Xi-Wob, LDN, Super Spray, and even some other manufacturer's applicators. The weight's easy-to-install design lets it remain on the applicator during nozzle changes. The One Weight is constructed entirely of zinc alloy and the Magnum Weight is constructed of UV-resistant thermoplastic to prevent corrosion and deter metal theft.

UP3 DUAL NOZZLE CARRIER

To access the secondary nozzle, pinch and pull the nozzle from the applicator, flip the carrier over and click in the secondary nozzle. The carrier is marked to indicate high and low flow nozzles. When installed in the applicator, if HIGH is visible on the carrier, then the lower flow nozzle in in use. If LOW is visible on the carrier, the higher flow nozzle is in use.

UP3 DUAL NOZZLE FITTING

Designed to be used instead of a standard barb x threaded fitting, this device carries two additional UP3 nozzles. Just pinch and pull to remove nozzles and place and click to reinstall. Nozzles are easily identifiable with numbers on the ears. The larger the number, the higher the flow.

The UP3 nozzle design offers a quick solution for easy nozzle changes along with two convenient options for nozzle carriers (see previous page) so your next nozzle is always at hand when you're ready to make the change.

Nozzle # Nozzle color	Nozzle Size			10 psi 0.69 bar		15 psi 1.03 bar	
				gpm	(L/hr)	gpm	(L/hr)
#2 Pink	1/32"	(0.031)	0.79 mm	0.09	20	0.11	25
#2.5	5/128"	(0.039)	0.99 mm	0.14	32	0.17	39
#3 Ice	3/64"	(0.047)	1.19 mm	0.20	45	0.24	55
#3.5	7/128"	(0.055)	1.4 mm	0.27	61	0.33	75
#4 Light Blue	1/16"	(0.063)	1.59 mm	0.35	79	0.43	98
#4.5	9/128"	(0.070)	1.78 mm	0.45	102	0.55	125
#5 Beige	5/64"	(0.078)	1.98 mm	0.55	125	0.68	154
#5.5	11/128"	(0.085)	2.16 mm	0.67	152	0.82	186
#6 Gold	3/32"	(0.094)	2.38 mm	0.80	182	0.98	223
#6.5	13/128"	(0.102)	2.59 mm	0.94	213	1.15	261
#7 Lime	7/64"	(0.109)	2.78 mm	1.09	248	1.34	304
#7.5	15/128"	(0.117)	2.97 mm	1.26	286	1.54	350
#8 Lavender	1/8"	(0.125)	3.18 mm	1.43	325	1.75	397
#8.5	17/128"	(0.133)	3.38 mm	1.62	368	1.98	450
#9 Grey	9/64"	(0.141)	3.57 mm	1.81	411	2.22	504
#9.5	19/128"	(0.148)	3.76 mm	2.02	459	2.48	563
#10 Turquoise	5/32"	(0.156)	3.97 mm	2.24	509	2.75	625
#10.5	21/128"	(0.164)	4.17 mm	2.47	561	3.03	688
#11 Yellow	11/64"	(0.172)	4.37 mm	2.72	618	3.33	756
#11.5	23/128"	(0.180)	4.57 mm	2.97	675	3.64	827
#12 Red	3/16"	(0.188)	4.76 mm	3.24	736	3.97	902
#12.5	25/128"	(0.195)	4.95 mm	3.52	799	4.31	979
#13 White	13/64"	(0.203)	5.16 mm	3.81	865	4.66	1058
#13.5	27/128"	(0.211)	5.36 mm	4.11	933	5.03	1142
#14 Blue	7/32"	(0.219)	5.56 mm	4.42	1004	5.41	1229
#14.5	29/128"	(0.227)	5.77 mm	4.74	1077	5.81	1320
#15 Dk. Brown	15/64"	(0.234)	5.95 mm	5.08	1154	6.22	1413
#15.5	31/128"	(0.242)	6.15 mm	5.42	1231	6.64	1508
#16 Orange	1/4"	(0.250)	6.35 mm	5.78	1313	7.08	1608
#16.5	33/128"	(0.258)	6.55 mm	6.15	1397	7.53	1710
#17 Dk. Green	17/64"	(0.266)	6.75 mm	6.53	1483	7.99	1815
#17.5	35/128"	(0.273)	6.93 mm	6.92	1572	8.47	1924
#18 Purple	9/32"	(0.281)	7.14 mm	7.32	1663	8.96	2035
#18.5	37/128"	(0.289)	7.34 mm	7.73	1756	9.47	2151
#19 Black	19/64"	(0.297)	7.54 mm	8.15	1851	9.98	2267
#19.5	39/128"	(0.305)	7.75 mm	8.58	1949	10.51	2387
#20 Dk. Turquoise	5/16"	(0.313)	7.94 mm	9.02	2049	11.05	2510
#20.5	41/128"	(0.320)	8.13 mm	9.47	2151	11.60	2635
#21 Mustard	21/64"	(0.328)	8.33 mm	9.93	2255	12.17	2764
#21.5	43/128"	(0.336)	8.53 mm	10.40	2362	12.74	2894
#22 Maroon	11/32"	(0.344)	8.73 mm	10.88	2471	13.33	3028
#22.5	45/128"	(0.352)	8.94 mm	11.37	2582	13.92	3162
#23 Cream	23/64"	(0.359)	9.13 mm	11.87	2696	14.54	3302
#23.5	47/128"	(0.367)	9.32 mm	12.37	2810	15.15	3441
#24 Dk. Blue	3/8"	(0.375)	9.53 mm	12.88	2925	15.78	3584
#24.5	49/128"	(0.383)	9.73 mm	13.40	3043	16.41	3727
#25 Copper	25/64"	(0.391)	9.92 mm	13.92	3162	17.05	3872
#25.5	51/128"	(0.398)	10.11 mm	14.45	3282	17.69	4018
#26 Bronze	13/32"	(0.406)	10.32 mm	14.98	3402	18.35	4168

EASY-CLEAN / EASY-CHANGE NOZZLE DESIGN *(Patented)*

The Senninger easy change nozzle was introduced in 2008. Just pinch and pull to remove the nozzle then place and click to re-install. Cleaning and changing nozzles is easy and convenient. There is no need to disassemble or remove the sprinkler.

The color-coded nozzles are highly visible and easy to identify. The nozzle numbers (corresponding to orifice sizes in 64ths of an inch) are visible on the ears, with half sizes denoted beneath the second digit and the notches on the lower edge of the nozzle. Nozzles are warranted to maintain correct orifice size for five years.

Senninger®

We strive to create the best low pressure, high performance agricultural irrigation products in the world while maintaining the highest level of quality and reliability. In every instance we will back our innovations with the unwavering support our customers need to succeed.

James E. Burks, President of Senninger Irrigation

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