



## SUPER SPRAY

Customizable Field Proven Technology

AGRICULTURAL IRRIGATION

*Low Pressure - High Performance*



# THE MOST VERSATILE SPRAY NOZZLE IN THE INDUSTRY

The Super Spray has twenty-two changeable snap-in deflector pads for easy customization.

The Senninger Super Spray has been field-proven for more than thirty years. It offers a wide variety of interchangeable deflector pad options to meet specific crop, climate and soil requirements. The

large distance between the nozzle and deflector and the bracket leg design makes it ideal for surface water.

## Features

- ① No moving parts for longer life
- ② Can be mounted on top-of-pipe
- ③ UP3 Nozzle is easy to remove for cleaning or changing
- ④ Two-year warranty on materials, workmanship and performance

## ULTRA LOW PRESSURE

Senninger Irrigation's Super Spray can be used in low pressures as low as 6 psi (0.41 bar). Lower pressure translates to reduced horsepower requirements and reduced energy consumption. These low operating pressures offer irrigators a tremendous opportunity to lower total pumping costs. Products specifically designed to provide peak performance in this low pressure range offer a center pivot irrigator increased energy savings.



## OPEN-BRACKET DESIGN

The Senninger Super Spray is ideal for irrigating with poor quality water (unfiltered surface water, effluent solutions, etc.) due to the large distance between the nozzle and deflector pad, and the deflector pad and the bracket. The two-legged bracket design minimizes build-up of water-borne solids.



*Ideal for surface water due to the distance between the nozzle and deflector pad and the deflector pad and the bracket.*







# Customized Deflector Options



Super Spray deflector pads are identified by their shape (flat, concave, or convex) and surface type (smooth, medium-grooved, or deep-grooved). The shape and surface help control spray pattern and droplet size. Chemigation pads are available in high profile (corn) and low profile (cotton) to reach the underside of foliage. These snap-in pads and UP3 nozzles can be easily changed during the season to fit varying field, flow, and growing conditions.

## DEFLECTOR PADS



Concave-Grooved



Concave-Smooth



Convex-Grooved



Convex-Smooth

CONCAVE	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth



Flat-Grooved

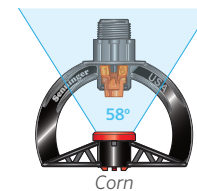


Flat-Smooth

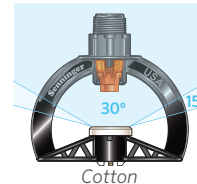
FLAT	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth

CONVEX	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth

CORN CHEMIGATION	
	Corn Chemigation
	Mini Corn Chemigation

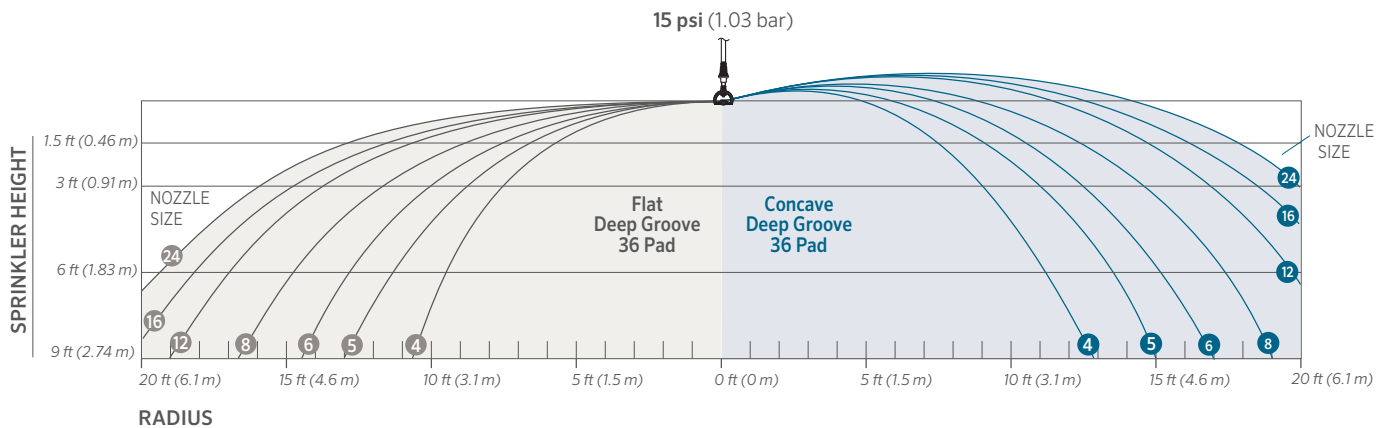
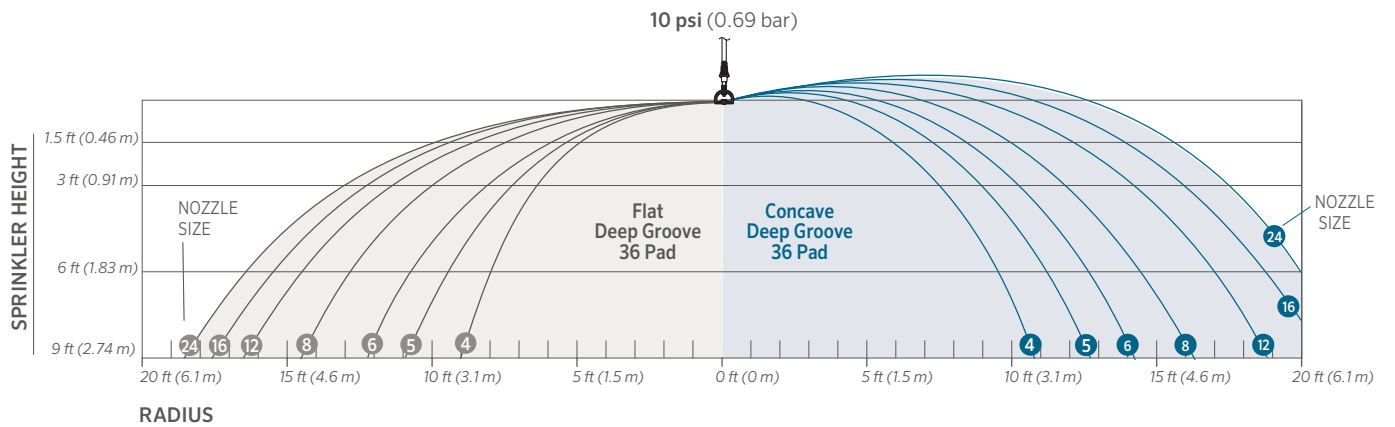
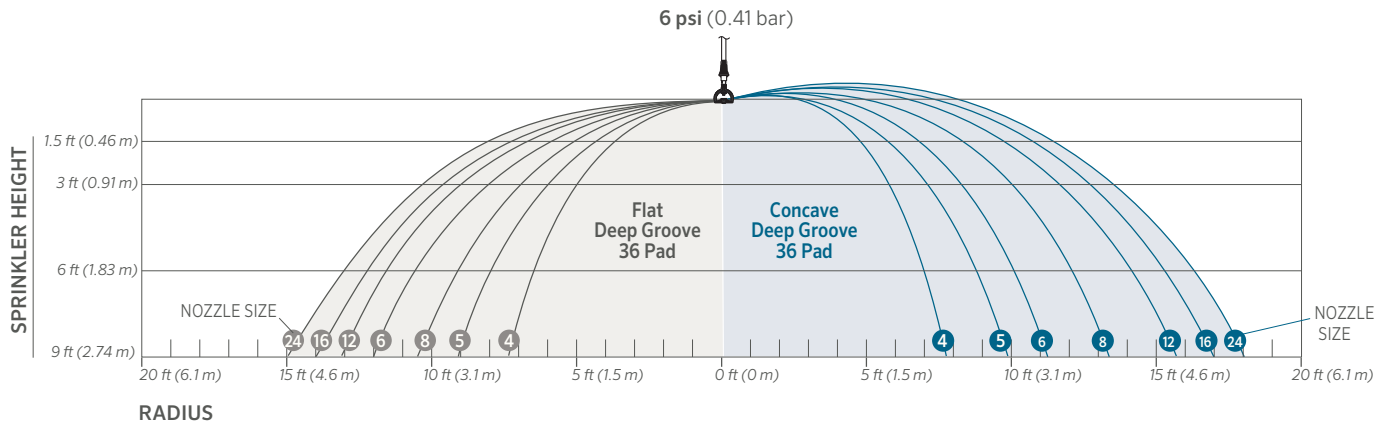


COTTON CHEMIGATION	
	Cotton Chemigation
	Mini Cotton Chemigation



SUPER SPRAY DESIGN CRITERIA	Flat, Concave, Convex (black, blue, green)	Mini Smooth (black, blue, green)	Corn Chemigation (red) Cotton Chemigation (white)	Mini Corn Chemigation (red) Mini Cotton Chemigation (white)
<b>Nozzle sizes</b>				
Minimum	#4 1/16" (1.59 mm)	#4 1/16" (1.59 mm)	#10 5/32" (3.97 mm)	#4 1/16" (1.59 mm)
Maximum*	#26 13/32" (10.32 mm)	#9.5 19/128" (3.76 mm)	#26 13/32" (10.32 mm)	#9.5 19/128" (3.76 mm)
<b>Flows</b>				
Minimum	0.27 gpm (61 L/hr)	0.27 gpm (61 L/hr)	1.74 gpm (395 L/hr)	0.27 gpm (61 L/hr)
Maximum	29.96 gpm (6805 L/hr)	2.02 gpm (459 L/hr)	29.96 gpm (6805 L/hr)	2.02 gpm (459 L/hr)
<b>Maximum Spacing</b>				
at 6 ft (1.8 m) ground clearance	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)
at 9 ft (2.74 m) ground clearance	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)
<b>Pressure at the Nozzle</b>				
Minimum	6 psi (0.41 bar)	6 psi (0.41 bar)	6 psi (0.41 bar)	6 psi (0.41 bar)
Maximum	40 psi (2.76 bar)	40 psi (2.76 bar)	40 psi (2.76 bar)	40 psi (2.76 bar)

\*It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.



Nozzle sizes are in 64th of an inch. For example: #12 nozzle = 12/64 inch = 3/16 inch.

**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 is 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.

**DRAG HOSE ADAPTER**



Conversion to direct furrow water application is easy with the Super Spray and the snap-in drag hose adapter. The adapter snaps right into the Super Spray, replacing the deflector pad. Simply snap out the deflector pad, align and snap in drag hose and adapter. Direct furrow application eliminates wind-drift and evaporation.

The Senninger Super Spray can be mounted upright or inverted.

**SUPER SPRAY SYSTEM ASSEMBLY**

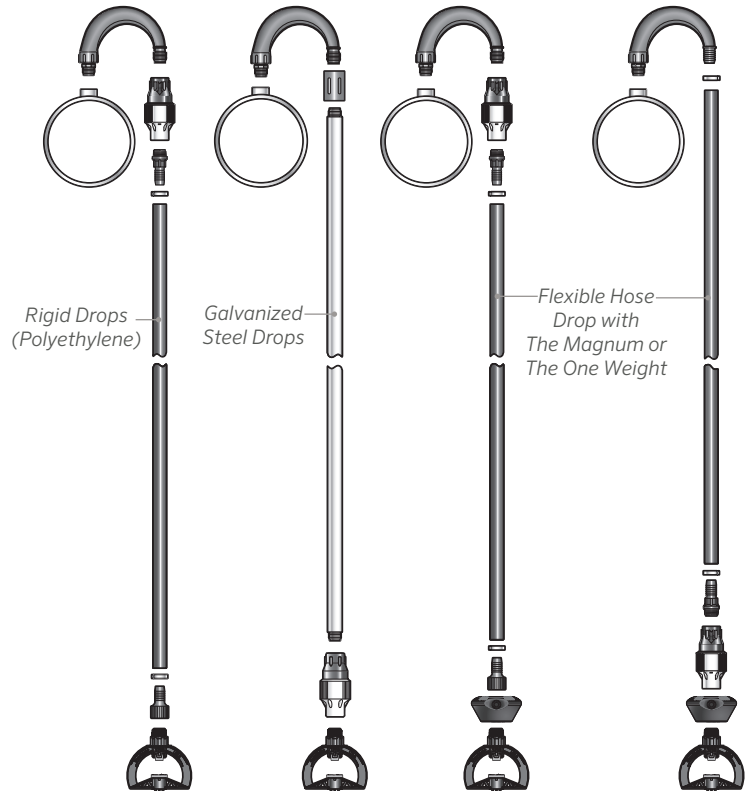
**MOUNTING**

1. The Super Spray can be mounted on rigid drops or flexible hose drops.
2. When using flexible hose a weight is recommended.
3. When using the Senninger Magnum Weight, use the internal fit technology to nest weight onto the base of the Super Spray.
4. Conventional slip over weights can be used with the Super Spray.
5. Mount the Super Spray no less than 1.5 - 9 ft. (0.46 - 2.74m) above the ground.
6. See Senninger Gooseneck brochure for additional mounting options.

**PRESSURE REGULATOR LOCATION**

1. Pressure regulators can be installed at the top of the drop, or near the applicator.
2. Always follow your customized printout for proper pressure regulator placement.

*Important: To maintain product warranty and maximize drop component life, refer to the information and diagrams here.*



Minimum ground clearance: 1.5 - 9 ft. (0.46 - 2.74m)

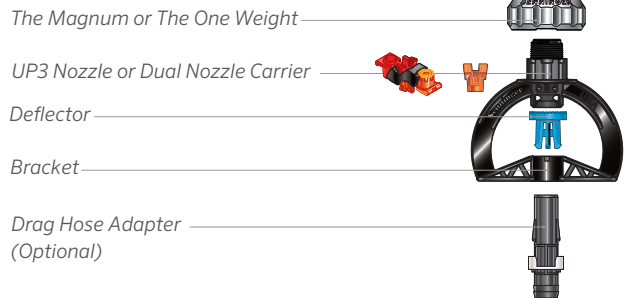
**SENNINGER WEIGHTS**



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.

**COMPONENT ASSEMBLY**



**PRESSURE REGULATORS**



Ask about the patented PSR-2 for systems pumping surface water!

Pressure regulators enable applicators to operate properly. With low pressure systems, any fluctuations can significantly impact system performance. Higher pressures can create small droplets susceptible to wind-drift, misting and evaporation. Pressure regulators can be installed at the top of the drop or directly above the applicator. A Senninger Pressure Drop can be installed at the end of the pivot just above the applicator to help verify system design pressure.

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

Nozzle # Nozzle color	Nozzle Size	6 psi 0.41 bar		10 psi 0.69 bar		15 psi 1.03 bar		20 psi 1.38 bar		25 psi 1.72 bar		30 psi 2.07 bar		35 psi 2.42 bar		40 psi 2.76 bar	
		gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	gpm (L/hr)	
#4 Light Blue	1/16" (0.063) 1.59 mm	0.27	61	0.35	79	0.43	98	0.50	114	0.56	127	0.61	139	0.66	150	0.70	159
#4.5	9/128" (0.070) 1.78 mm	0.35	79	0.45	102	0.55	125	0.63	143	0.71	161	0.77	175	0.84	191	0.89	202
#5 Beige	5/64" (0.078) 1.98 mm	0.43	98	0.55	125	0.68	154	0.78	177	0.87	198	0.96	218	1.04	236	1.11	252
#5.5	11/128" (0.085) 2.16 mm	0.52	118	0.67	152	0.82	186	0.95	216	1.06	241	1.16	263	1.26	286	1.34	304
#6 Gold	3/32" (0.094) 2.38 mm	0.62	141	0.80	182	0.98	223	1.13	257	1.26	286	1.38	313	1.50	341	1.60	363
#6.5	13/128" (0.102) 2.59 mm	0.73	166	0.94	213	1.15	261	1.33	302	1.49	338	1.63	370	1.76	400	1.88	427
#7 Lime	7/64" (0.109) 2.78 mm	0.85	193	1.09	248	1.34	304	1.54	350	1.73	393	1.89	429	2.04	463	2.18	495
#7.5	15/128" (0.117) 2.97 mm	0.97	220	1.26	286	1.54	350	1.77	402	1.98	450	2.17	493	2.35	534	2.51	570
#8 Lavender	1/8" (0.125) 3.18 mm	1.11	252	1.43	325	1.75	397	2.02	459	2.26	513	2.48	563	2.68	609	2.86	650
#8.5	17/128" (0.133) 3.38 mm	1.25	284	1.62	368	1.98	450	2.29	520	2.56	581	2.80	636	3.02	686	3.23	734
#9 Grey	9/64" (0.141) 3.57 mm	1.40	318	1.81	411	2.22	504	2.56	581	2.87	652	3.14	713	3.39	770	3.63	824
#9.5	19/128" (0.148) 3.76 mm	1.57	357	2.02	459	2.48	563	2.86	650	3.20	727	3.50	795	3.78	859	4.04	918
#10 Turquoise	5/32" (0.156) 3.97 mm	1.74	395	2.24	509	2.75	625	3.17	720	3.55	806	3.88	881	4.20	954	4.49	1020
#10.5	21/128" (0.164) 4.17 mm	1.92	436	2.47	561	3.03	688	3.50	795	3.91	888	4.29	974	4.63	1052	4.95	1124
#11 Yellow	11/64" (0.172) 4.37 mm	2.10	477	2.72	618	3.33	756	3.84	872	4.30	977	4.71	1070	5.08	1154	5.43	1233
#11.5	23/128" (0.180) 4.57 mm	2.30	522	2.97	675	3.64	827	4.20	954	4.70	1067	5.15	1170	5.56	1263	5.94	1349
#12 Red	3/16" (0.188) 4.76 mm	2.51	570	3.24	736	3.97	902	4.58	1040	5.12	1163	5.61	1274	6.06	1376	6.48	1472
#12.5	25/128" (0.195) 4.95 mm	2.72	618	3.52	799	4.31	979	4.97	1129	5.56	1263	6.09	1383	6.58	1494	7.03	1597
#13 White	13/64" (0.203) 5.16 mm	2.95	670	3.81	865	4.66	1058	5.38	1222	6.02	1367	6.59	1497	7.12	1617	7.61	1728
#13.5	27/128" (0.211) 5.36 mm	3.18	722	4.11	933	5.03	1142	5.81	1320	6.49	1474	7.11	1615	7.68	1744	8.21	1865
#14 Blue	7/32" (0.219) 5.56 mm	3.42	777	4.42	1004	5.41	1229	6.25	1420	6.99	1588	7.65	1738	8.27	1878	8.84	2008
#14.5	29/128" (0.227) 5.77 mm	3.67	834	4.74	1077	5.81	1320	6.71	1524	7.50	1703	8.21	1865	8.87	2015	9.48	2153
#15 Dk. Brown	15/64" (0.234) 5.95 mm	3.93	893	5.08	1154	6.22	1413	7.18	1631	8.03	1824	8.79	1996	9.50	2158	10.15	2305
#15.5	31/128" (0.242) 6.15 mm	4.20	954	5.42	1231	6.64	1508	7.67	1742	8.57	1946	9.39	2133	10.14	2303	10.84	2462
#16 Orange	1/4" (0.250) 6.35 mm	4.48	1018	5.78	1313	7.08	1608	8.17	1856	9.14	2076	10.01	2274	10.81	2455	11.56	2626
#16.5	33/128" (0.258) 6.55 mm	4.76	1081	6.15	1397	7.53	1710	8.69	1974	9.72	2208	10.65	2419	11.50	2612	12.30	2794
#17 Dk. Green	17/64" (0.266) 6.75 mm	5.06	1149	6.53	1483	7.99	1815	9.23	2096	10.32	2344	11.31	2569	12.21	2773	13.06	2966
#17.5	35/128" (0.273) 6.93 mm	5.36	1217	6.92	1572	8.47	1924	9.78	2221	10.94	2485	11.98	2721	12.94	2939	13.84	3143
#18 Purple	9/32" (0.281) 7.14 mm	5.67	1288	7.32	1663	8.96	2035	10.35	2351	11.57	2628	12.68	2880	13.69	3109	14.64	3325
#18.5	37/128" (0.289) 7.34 mm	5.99	1360	7.73	1756	9.47	2151	10.93	2482	12.22	2775	13.39	3041	14.46	3284	15.46	3511
#19 Black	19/64" (0.297) 7.54 mm	6.31	1433	8.15	1851	9.98	2267	11.53	2619	12.89	2928	14.12	3207	15.25	3464	16.30	3702
#19.5	39/128" (0.305) 7.75 mm	6.65	1510	8.58	1949	10.51	2387	12.14	2757	13.57	3082	14.86	3375	16.05	3645	17.16	3897
#20 Dk. Turquoise	5/16" (0.313) 7.94 mm	6.99	1588	9.02	2049	11.05	2510	12.76	2898	14.27	3241	15.63	3550	16.88	3834	18.05	4100
#20.5	41/128" (0.320) 8.13 mm	7.34	1667	9.47	2151	11.60	2635	13.40	3043	14.98	3402	16.41	3727	17.72	4025	18.95	4304
#21 Mustard	21/64" (0.328) 8.33 mm	7.70	1749	9.93	2255	12.17	2764	14.05	3191	15.71	3568	17.21	3909	18.59	4222	19.87	4513
#21.5	43/128" (0.336) 8.53 mm	8.06	1831	10.40	2362	12.74	2894	14.71	3341	16.45	3736	18.02	4093	19.46	4420	20.80	4724
#22 Maroon	11/32" (0.344) 8.73 mm	8.43	1915	10.88	2471	13.33	3028	15.39	3495	17.20	3907	18.85	4281	20.36	4624	21.76	4942
#22.5	45/128" (0.352) 8.94 mm	8.81	2001	11.37	2582	13.92	3162	16.08	3652	17.98	4084	19.69	4472	21.27	4831	22.74	5165
#23 Cream	23/64" (0.359) 9.13 mm	9.19	2087	11.87	2696	14.54	3302	16.78	3811	18.77	4263	20.56	4670	22.20	5042	23.74	5392
#23.5	47/128" (0.367) 9.32 mm	9.58	2176	12.37	2810	15.15	3441	17.49	3972	19.56	4443	21.43	4867	23.14	5256	24.74	5619
#24 Dk. Blue	3/8" (0.375) 9.53 mm	9.98	2267	12.88	2925	15.78	3584	18.22	4138	20.37	4627	22.31	5067	24.10	5474	25.77	5853
#24.5	49/128" (0.383) 9.73 mm	10.38	2358	13.40	3043	16.41	3727	18.95	4304	21.18	4811	23.20	5269	25.06	5692	26.79	6085
#25 Copper	25/64" (0.391) 9.92 mm	10.78	2448	13.92	3162	17.05	3872	19.69	4472	22.01	4999	24.11	5476	26.04	5914	27.84	6323
#25.5	51/128" (0.398) 10.11 mm	11.19	2542	14.45	3282	17.69	4018	20.43	4640	22.84	5188	25.02	5683	27.03	6139	28.89	6562
#26 Bronze	13/32" (0.406) 10.32 mm	11.60	2635	14.98	3402	18.35	4168	21.18	4811	23.68	5378	25.94	5892	28.02	6364	29.96	6805

GOOSENECKS



180° Single

Senninger 180 degree goosenecks are constructed of non-corrosive, UV-resistant thermoplastic materials for long life and reduced plugging.



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's commitment to world-class products, local support and technical expertise ensure we provide the most efficient and reliable agricultural irrigation solutions available in the world today.

A handwritten signature in white ink, reading 'S D Abernethy', is centered on the page.

Steve Abernethy, President of Senninger Irrigation