

Now
Two
Models!

Smooth Drive

Patent # 7395977 B2

Designed for under-tree, open field & nursery applications!

Senninger's new Smooth Drive's unique **walking diffuser** helps deliver an extremely uniform pattern, without distortion from bracket legs.



HA 23°
model



LA 14°
model

Features

- Low Angle (LA) 14° model is ideal for undertree
- High Angle (HA) 23° model is ideal for open field
- Walking diffuser - for outstanding uniformity, no bracket-leg shadow and gentle application
- Precision-contoured deflector - provides greater throw and enhanced distribution
- Advanced braking mechanism - for smooth, consistent rotation speed and minimal riser stress
- Rugged design - stands up in harsh field conditions
- User friendly method of assembly - no tools required for accessing nozzle
- Vandal-resistant model available - discourages theft
- 2-year warranty - on materials, workmanship AND performance

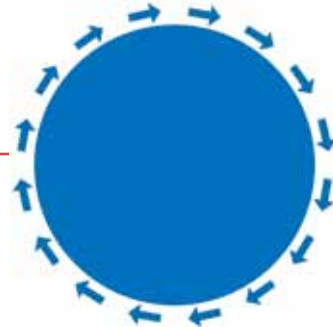
ORDINARY DEVICES

Shadow created by fixed bracket legs



SMOOTH DRIVE

Walking diffuser eliminates leg shadow



Ordinary rotating sprinklers have stationary legs that block water and create leg shadows (drier areas). The Smooth Drive's walking diffuser eliminates bracket leg shadows resulting in unobstructed uniform distribution.



Smooth Drive Specifications:

Flow: 1.22 to 2.79 gpm [277 to 634 L/hr]
 Operating Pressure: 25 to 40 psi [1.75 to 2.76 bar]
 Nozzles: #6 - 3/32" [2.38 mm]
 #7 - 7/64" [2.78 mm]
 #8 - 1/8" [3.18 mm]
 Standard base: 1/2" M NPT
 Optional base: Combination 1/2" socket and 3/4" spigot,
 Solvent-weld base for theft resistance



Diffuser Assembly



Nozzle Retainer



Nozzle



Diffuser Base

Riser Adapter

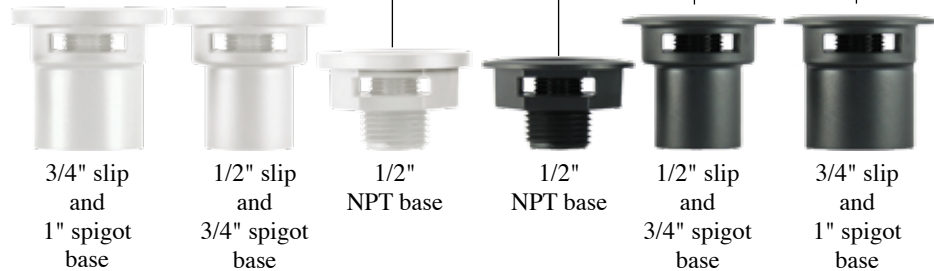
The Senninger Riser Adapter (shown with Smooth Drive) has a 1/2" F NPT sprinkler connection and can be mounted securely on a 1/2" or 3/4" PVC or 5/16" steel rod stake and connected to low pressure polyethylene laterals, making it well suited for portable applications such as vegetable production.



HA 23° model

LA 14° model (White)

HA 23° model (Black)



Smooth Drive

Sprinkler Base Pressure [psi]	25	30	35	40	Sprinkler Base Pressure [bar]	1.72	2.07	2.41	2.76
#6 Nozzle - Gold [3/32"]					#6 Nozzle - Gold [2.38 mm]				
Flow [gpm]	1.22	1.34	1.45	1.55	Flow [L/hr]	277	304	329	352
LA Diam. at 1.5' ht. [ft.]	60.6	62.4	64.0	65.1	LA Diam. at 0.46 m ht. [m]	18.5	19.0	19.5	19.8
HA Diam. at 1.5' ht. [ft.]	61.8	64.4	66.5	68.2	HA Diam. at 0.46 m ht. [m]	18.8	19.6	20.3	20.8
#7 Nozzle - Lime [7/64"]					#7 Nozzle - Lime [2.78 mm]				
Flow [gpm]	1.68	1.84	1.99	2.12	Flow [L/hr]	382	418	452	482
LA Diam. at 1.5' ht. [ft.]	62.4	64.1	65.7	66.8	LA Diam. at 0.46 m ht. [m]	19.0	19.5	20.0	20.4
HA Diam. at 1.5' ht. [ft.]	65.8	68.5	70.6	72.4	HA Diam. at 0.46 m ht. [m]	20.1	20.9	21.5	22.1
#8 Nozzle - Lavender [1/8"]					#8 Nozzle - Lavender [3.18 mm]				
Flow [gpm]	2.21	2.42	2.62	2.79	Flow [L/hr]	502	550	595	634
LA Diam. at 1.5' ht. [ft.]	63.9	65.7	67.3	68.6	LA Diam. at 0.46 m ht. [m]	19.5	20.0	20.5	20.9
HA Diam. at 1.5' ht. [ft.]	70.4	72.7	74.8	76.0	HA Diam. at 0.46 m ht. [m]	21.5	22.2	22.8	23.2

Sprinkler performance may vary with actual field conditions. Other sizes are available; consult factory for specific performance data. Minimum recommended height is 1.5 ft. (0.46m).