

20 Series

IMPACTS

The 20 series full-circle impacts are Senninger’s most economical sprinklers. The 20 Series includes several models available on risers or under-tree installations.



FEATURES

- Three models with different trajectories available:
2009 - 9° fights wind drift and evaporation
2014 - 14° ideal for under-tree irrigation
2023 - 23° maximum throw on risers
- Wide range of nozzle and vane combinations for excellent distribution at all pressures
- Built-in hex wrench for easy, in-the-field maintenance
- Connections: ½" NPT male (female also available)
- Flow rates: 1.34 to 3.98 gpm (304 to 904 L/hr)
- Operating pressures: 30 to 50 psi (2.07 to 3.45 bar)
- Two-year warranty on materials, workmanship and performance
- Color-coded nozzles for easy size identification.
Warranted to maintain correct orifice size for five years

CONVENIENT HAND TIGHT NOZZLES

No tools required with the easy change/easy clean nozzle and vane combination. Half size and square orifice nozzles also available.



2009HS SPRINKLER BASE PRESSURE- US	psi					SPRINKLER BASE PRESSURE-METRIC	bar				
	30	35	40	45	50		2.07	2.41	2.76	3.10	3.45
#6 Nozzle - Gold (3/32")						#6 Nozzle - Gold (2.38 mm)					
Flow (gpm)	1.34	1.45	1.55	1.64	---	Flow (L/hr)	304	329	352	372	---
Diameter at 1.5 ft ht (ft)	58	60	62	64	---	Diameter at 0.46 m ht (m)	17.7	18.3	18.9	19.5	---
#7 Nozzle - Lime (7/64")						#7 Nozzle - Lime (2.78 mm)					
Flow (gpm)	1.84	1.99	2.12	2.25	2.37	Flow (L/hr)	418	452	481	511	538
Diameter at 1.5 ft ht (ft)	60	62	64	66	67	Diameter at 0.46 m ht (m)	18.3	18.9	19.5	20.1	20.4
#8 Nozzle - Lavender (1/8")						#8 Nozzle - Lavender (3.18 mm)					
Flow (gpm)	2.42	2.62	2.79	2.97	3.12	Flow (L/hr)	550	595	634	675	709
Diameter at 1.5 ft ht (ft)	62	64	66	68	69	Diameter at 0.46 m ht (m)	18.9	19.5	20.1	20.7	21.0
#9 Nozzle - Grey (9/64")						#9 Nozzle - Grey (3.57 mm)					
Flow (gpm)	3.08	3.33	3.56	3.78	3.98	Flow (L/hr)	700	756	809	859	904
Diameter at 1.5 ft ht (ft)	64	66	68	70	71	Diameter at 0.46 m ht (m)	19.5	20.1	20.7	21.4	21.7

Sprinkler performance may vary with actual field conditions. Stream heights range from 1.5 to 3.0 ft (0.46 to 0.91 m) above the nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft (0.46 m).

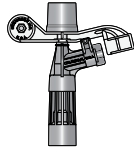
Series 20

MOUNTING OPTIONS

The 20 Series impacts are also available with a 1/2" NPT x 3/4" Vandal-Resistant (VR) slip base and wrench for easy removal from a sprinkler fitting, or a 1/2" NPT Quick-Connect (QC) upper fitting with a 1/2" and 3/4" slip or 20 mm and 25 mm slip coupling to retrofit your 1/2" NPT male sprinklers. 20 Series sprinklers can also be ordered pre-assembled with VR and QC bases.

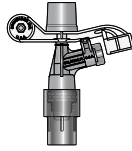
20 SERIES: 9°, 14° OR 23°

Model of sprinkler comes with solvent weld VR connection



Fitting glues to riser making it vandal resistant.

1/2" VANDAL-RESISTANT (VR)



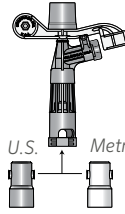
Fitting glues to riser



Vandal-Resistant Wrench required for removing sprinkler from fitting.

20 SERIES: 9°, 14° OR 23°

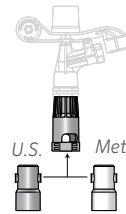
Model of sprinkler comes with quick-connection.



The quick-connect requires one of the lower QC fittings above.

1/2" F NPT

Fitting to convert 1/2" M NPT connection sprinklers



The quick-connect requires an upper fitting and one of the lower QC fittings above.

IMPACTS

2014HS SPRINKLER BASE PRESSURE-US

	psi						bar				
	30	35	40	45	50		2.07	2.41	2.76	3.10	3.45
#6 Nozzle - Gold (3/32")						#6 Nozzle - Gold (2.38 mm)					
Flow (gpm)	1.34	1.45	1.55	1.64	---	Flow (L/hr)	304	329	352	372	---
Diameter at 1.5 ft ht (ft)	66	68	70	72	---	Diameter at 0.46 m ht (m)	20.1	20.7	21.4	22.0	---
#7 Nozzle - Lime (7/64")						#7 Nozzle - Lime (2.78 mm)					
Flow (gpm)	1.84	1.99	2.12	2.25	2.37	Flow (L/hr)	418	452	481	511	538
Diameter at 1.5 ft ht (ft)	68	70	72	74	75	Diameter at 0.46 m ht (m)	20.7	21.4	22.0	22.6	22.9
#8 Nozzle - Lavender (1/8")						#8 Nozzle - Lavender (3.18 mm)					
Flow (gpm)	2.42	2.62	2.79	2.97	3.12	Flow (L/hr)	550	595	634	675	709
Diameter at 1.5 ft ht (ft)	70	72	74	76	77	Diameter at 0.46 m ht (m)	21.4	22.0	22.6	23.2	23.5
#9 Nozzle - Grey (9/64")						#9 Nozzle - Grey (3.57 mm)					
Flow (gpm)	3.08	3.33	3.56	3.78	3.98	Flow (L/hr)	700	756	809	859	904
Diameter at 1.5 ft ht (ft)	71	73	75	77	78	Diameter at 0.46 m ht (m)	21.7	22.3	22.9	23.5	23.8

Sprinkler performance may vary with actual field conditions. Stream heights range from 3.0 to 5.0 ft (0.91 to 1.5 m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft (0.46 m).

2023HS SPRINKLER BASE PRESSURE-US

	psi						bar				
	30	35	40	45	50		2.07	2.41	2.76	3.10	3.45
#6 Nozzle - Gold (3/32")						#6 Nozzle - Gold (2.38 mm)					
Flow (gpm)	1.34	1.45	1.55	1.64	---	Flow (L/hr)	304	329	352	372	---
Diameter at 1.5 ft ht (ft)	74	75	76	77	---	Diameter at 0.46 m ht (m)	22.6	22.9	23.2	23.5	---
#7 Nozzle - Lime (7/64")						#7 Nozzle - Lime (2.78 mm)					
Flow (gpm)	1.84	1.99	2.12	2.25	2.37	Flow (L/hr)	418	452	481	511	538
Diameter at 1.5 ft ht (ft)	76	77	78	79	80	Diameter at 0.46 m ht (m)	23.2	23.5	23.8	24.1	24.4
#8 Nozzle - Lavender (1/8")						#8 Nozzle - Lavender (3.18 mm)					
Flow (gpm)	2.42	2.62	2.79	2.97	3.12	Flow (L/hr)	550	595	634	675	709
Diameter at 1.5 ft ht (ft)	78	79	80	81	82	Diameter at 0.46 m ht (m)	23.8	24.1	24.4	24.7	25.0
#9 Nozzle - Grey (9/64")						#9 Nozzle - Grey (3.57 mm)					
Flow (gpm)	3.08	3.33	3.56	3.78	3.98	Flow (L/hr)	700	756	809	859	904
Diameter at 1.5 ft ht (ft)	79	80	81	82	83	Diameter at 0.46 m ht (m)	24.1	24.4	24.7	25.0	25.3

Sprinkler performance may vary with actual field conditions. Stream heights range from 6.5 to 9.5 ft (2.0 to 3.0 m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft (0.46 m).