

80series[Impacts]



The 80 Series are Senninger's largest impact sprinklers. Designed for maximum efficiency at high flow rates.

FEATURES:

- Single and double nozzle designs available. Double nozzle available in range drive (HR) or spreader drive (SD)
- Outlasts and costs less than brass sprinklers
- Lower bearing pipe thread: 1/4" M NPT, 1/4" F NPT; 1/2" M NPT, 1/4" M BSP
- Flow rates: 23.6 to 106.8 gpm [1.51 to 6.62 L/s]
- Built-in hex wrench for easy in-the-field maintenance

8025HR-1-1/4" M

U.S. Data	Sprinkler Base Pressure [psi]										Metric Data	[bar]	2.5	3.0	3.5	4.0	4.5	5.0	
	35	40	45	50	55	60	65	70	75		[psi]	36.25	43.50	50.75	58.00	65.25	72.50		
#24 Nozzle [3/8"]											#24 Nozzle [9.53mm]								
Flow [gpm]	23.6	25.2	26.7	28.2	29.6	30.9	32.1	33.3	34.5		Flow [L/s]	1.51	1.66	1.79	1.91	2.03	2.14		
Diam. at 1.5' ht. [ft.]	128	134	139	144	149	154	157	159	160		Diam. at 0.5m ht. [m]	39.5	41.9	44.1	46.3	47.9	48.6		
Diam. at 6.0' ht. [ft.]	147	152	156	159	162	164	166	168	170		Diam. at 2.0m ht. [m]	45.2	47.2	48.6	49.7	50.6	51.5		
#26 Nozzle [13/32"]											#26 Nozzle [10.32mm]								
Flow [gpm]	24.4	29.3	31.0	32.7	34.3	35.9	37.3	38.7	40.1		Flow [L/s]	1.76	1.92	2.08	2.22	2.36	2.48		
Diam. at 1.5' ht. [ft.]	136	142	147	152	157	161	164	166	168		Diam. at 0.5m ht. [m]	41.9	44.4	46.6	48.6	50.0	50.9		
Diam. at 6.0' ht. [ft.]	152	157	161	164	167	169	171	173	175		Diam. at 2.0m ht. [m]	46.7	48.7	50.1	51.3	52.2	53.0		
#28 Nozzle [7/16"]											#28 Nozzle [11.11mm]								
Flow [gpm]	31.8	33.9	36.0	38.0	39.8	41.6	43.3	44.9	46.5		Flow [L/s]	2.04	2.23	2.41	2.58	2.73	2.88		
Diam. at 1.5' ht. [ft.]	142	148	153	157	161	166	169	171	173		Diam. at 0.5m ht. [m]	43.7	46.2	48.0	50.0	51.5	52.4		
Diam. at 6.0' ht. [ft.]	156	161	165	168	171	173	175	177	179		Diam. at 2.0m ht. [m]	47.9	49.9	51.3	52.5	53.4	54.3		
#30 Nozzle [15/32"]											#30 Nozzle [11.91mm]								
Flow [gpm]	36.1	38.6	40.9	43.1	45.2	47.2	49.2	51.0	52.8		Flow [L/s]	2.31	2.53	2.74	2.93	3.10	3.27		
Diam. at 1.5' ht. [ft.]	147	153	158	162	166	170	173	175	178		Diam. at 0.5m ht. [m]	45.3	47.7	49.6	51.3	52.8	53.8		
Diam. at 6.0' ht. [ft.]	160	165	169	172	175	177	179	181	183		Diam. at 2.0m ht. [m]	49.2	51.1	52.6	53.7	54.6	55.5		
#32 Nozzle [1/2"]											#32 Nozzle [12.7mm]								
Flow [gpm]	41.0	43.9	46.5	49.0	51.4	53.7	55.9	58.0	60.1		Flow [L/s]	2.63	2.88	3.11	3.33	3.53	3.72		
Diam. at 1.5' ht. [ft.]	150	156	161	165	169	173	176	179	183		Diam. at 0.5m ht. [m]	46.2	48.6	50.5	52.2	53.7	55.2		
Diam. at 6.0' ht. [ft.]	164	169	173	176	179	181	183	185	187		Diam. at 2.0m ht. [m]	50.4	52.4	53.8	54.9	55.8	56.7		
#34 Nozzle [17/32"]											#34 Nozzle [13.49mm]								
Flow [gpm]	46.3	49.5	52.5	55.4	58.1	60.7	63.1	65.5	67.8		Flow [L/s]	2.97	3.25	3.51	3.76	3.99	4.20		
Diam. at 1.5' ht. [ft.]	153	159	164	168	172	176	180	183	186		Diam. at 0.5m ht. [m]	47.1	49.5	51.4	53.2	54.9	56.2		
Diam. at 6.0' ht. [ft.]	167	172	176	179	182	184	186	188	190		Diam. at 2.0m ht. [m]	51.3	53.3	54.7	55.8	56.7	57.6		
#36 Nozzle [9/16"]											#36 Nozzle [14.29mm]								
Flow [gpm]	51.9	55.5	58.9	62.1	65.1	68.0	70.8	73.5	76.0		Flow [L/s]	3.33	3.65	3.94	4.21	4.47	4.71		
Diam. at 1.5' ht. [ft.]	155	161	166	170	174	178	183	187	190		Diam. at 0.5m ht. [m]	47.7	50.1	52.0	53.8	55.8	57.5		
Diam. at 6.0' ht. [ft.]	170	175	179	182	185	187	189	191	193		Diam. at 2.0m ht. [m]	52.2	54.2	55.6	56.8	57.6	58.5		
#38 Nozzle [19/32"]											#38 Nozzle [15.08mm]								
Flow [gpm]	56.0	59.9	63.5	66.9	70.2	73.3	76.3	79.2	82.0		Flow [L/s]	3.59	3.93	4.25	4.54	4.82	5.08		
Diam. at 1.5' ht. [ft.]	157	163	168	172	176	180	185	190	192		Diam. at 0.5m ht. [m]	48.3	50.8	52.6	54.4	56.5	58.2		
Diam. at 6.0' ht. [ft.]	173	178	182	185	188	190	192	194	196		Diam. at 2.0m ht. [m]	53.1	55.1	56.5	57.7	58.6	59.4		
#40 Nozzle [5/8"]											#40 Nozzle [15.88mm]								
Flow [gpm]	-	67.1	71.1	75.0	78.7	82.1	85.5	88.7	91.8		Flow [L/s]	-	4.41	4.76	5.09	5.40	5.69		
Diam. at 1.5' ht. [ft.]	-	165	170	174	178	182	187	192	194		Diam. at 0.5m ht. [m]	-	51.4	53.2	55.0	57.1	58.8		
Diam. at 6.0' ht. [ft.]	-	180	184	187	190	192	194	196	198		Diam. at 2.0m ht. [m]	-	55.7	57.1	58.3	59.2	60.0		

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 12.5-28.0 ft. (3.8-8.5m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).

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FEATURES: continued...

- Color-coded nozzles for easy size identification /warranted to maintain correct orifice size for five years
- Two-year warranty on materials, workmanship AND performance



8025-SD The Booster Tube provides an increased radius of throw over standard range and spreader drive models by approximately 5 to 10%. Consult factory for specific performance data. Available only on **8025 Spreader Drive** double nozzle models.

8025HR-2-1 1/4" M

U.S. Data	Sprinkler Base Pressure [psi]									Metric Data	[bar] [psi]	2.5 36.25	3.0 43.50	3.5 50.75	4.0 58.00	4.5 65.25	5.0 72.50
	35	40	45	50	55	60	65	70	75								
24x12 - #24 Range Nozzle [3/8"] x #12 Spreader Noz.- Red [3/16"]										24x12 - #24 Nozzle [9.53 mm] x #12 Red [4.76 mm]							
Flow [gpm]	28.9	30.8	32.7	34.5	36.2	37.8	39.3	40.8	42.2	Flow [L/s]	1.85	2.03	2.19	2.34	2.48	2.62	
Diam. at 1.5' ht. [ft.]	128	134	139	144	149	154	157	159	160	Diam. at 0.5m ht. [m]	39.5	41.9	44.1	46.3	47.9	48.6	
Diam. at 6.0' ht. [ft.]	147	152	156	159	162	164	166	168	170	Diam. at 2.0m ht. [m]	45.2	47.2	48.6	49.7	50.6	51.5	
26x14 - #26 Range Noz. [13/32"] x #14 Spreader Noz.- Blue [7/32"]										26x14 - #26 Nozzle [10.32 mm] x #14 Blue [5.56 mm]							
Flow [gpm]	36.8	39.4	41.8	44.0	46.2	48.2	50.2	52.1	53.9	Flow [L/s]	2.36	2.59	2.79	2.99	3.17	3.34	
Diam. at 1.5' ht. [ft.]	136	142	147	152	157	161	164	166	168	Diam. at 0.5m ht. [m]	41.9	44.4	46.6	48.6	50.0	50.9	
Diam. at 6.0' ht. [ft.]	152	157	161	164	167	169	171	173	175	Diam. at 2.0m ht. [m]	46.7	48.7	50.1	51.3	52.2	53.0	
28x14 - #28 Range Noz. [7/16"] x #14 Spreader Noz.- Blue [7/32"]										28x14 - #128 Nozzle [1.11 mm] x #14 #14 Blue [5.56 mm]							
Flow [gpm]	39.3	42.0	44.5	46.9	49.3	51.4	53.5	55.6	57.5	Flow [L/s]	2.52	2.76	2.98	3.19	3.38	3.56	
Diam. at 1.5' ht. [ft.]	142	148	153	157	161	166	169	171	173	Diam. at 0.5m ht. [m]	43.7	46.2	48.0	50.0	51.5	52.4	
Diam. at 6.0' ht. [ft.]	156	161	165	168	171	173	175	177	179	Diam. at 2.0m ht. [m]	47.9	49.9	51.3	52.5	53.4	54.3	
30x14 - #30 Range Noz. [15/32"] x #14 Spreader Noz.- Blue [7/32"]										30x14 - #30 Nozzle [11.91 mm] x #14 Blue [5.56 mm]							
Flow [gpm]	43.0	45.9	48.7	51.4	53.9	56.3	58.6	60.8	62.9	Flow [L/s]	2.76	3.02	3.26	3.49	3.70	3.90	
Diam. at 1.5' ht. [ft.]	147	153	158	162	166	170	173	175	178	Diam. at 0.5m ht. [m]	45.3	47.7	49.6	51.3	52.8	53.8	
Diam. at 6.0' ht. [ft.]	160	165	169	172	175	177	179	181	183	Diam. at 2.0m ht. [m]	49.2	51.1	52.6	53.7	54.6	55.5	
32x16 - #32 Range Noz. [1/2"] x #16 Spreader Noz.- Orange [1/4"]										32x16 - #32 Nozzle [12.7 mm] x #16 Orange [6.35 mm]							
Flow [gpm]	50.2	53.7	56.9	60.0	63.0	65.8	68.4	71.0	73.5	Flow [L/s]	3.22	3.53	3.81	4.07	4.32	4.55	
Diam. at 1.5' ht. [ft.]	150	156	161	165	169	173	176	179	183	Diam. at 0.5m ht. [m]	46.2	48.6	50.5	52.2	53.7	55.2	
Diam. at 6.0' ht. [ft.]	164	169	173	176	179	181	183	185	187	Diam. at 2.0m ht. [m]	50.4	52.4	53.8	54.9	55.8	56.7	
34x16 - #34 Range Noz. [17/32"] x #16 Spreader Noz.- Orange [1/4"]										34x16 - #34 Nozzle [13.49 mm] x #16 Orange [6.35 mm]							
Flow [gpm]	55.4	59.2	62.8	66.2	69.4	72.5	75.4	78.3	81.1	Flow [L/s]	3.55	3.89	4.20	4.49	4.76	5.02	
Diam. at 1.5' ht. [ft.]	153	159	164	168	172	176	180	183	186	Diam. at 0.5m ht. [m]	47.1	49.5	51.4	53.2	54.9	56.2	
Diam. at 6.0' ht. [ft.]	167	172	176	179	182	184	186	188	190	Diam. at 2.0m ht. [m]	51.3	53.3	54.7	55.8	56.7	57.6	
36x16 - #36 Range Noz. [9/16"] x #16 Spreader Noz.- Orange [1/4"]										36x16 - #36 Nozzle [14.29 mm] x #16 Orange [6.35 mm]							
Flow [gpm]	60.9	65.1	69.0	72.7	76.3	79.7	82.9	86.1	89.1	Flow [L/s]	3.90	4.27	4.62	4.94	5.24	5.52	
Diam. at 1.5' ht. [ft.]	155	161	166	170	174	178	183	187	190	Diam. at 0.5m ht. [m]	47.7	50.1	52.0	53.8	55.8	57.5	
Diam. at 6.0' ht. [ft.]	170	175	179	182	185	187	189	191	193	Diam. at 2.0m ht. [m]	52.2	54.2	55.6	56.8	57.6	58.5	
38x16 - #38 Range Noz. [9/32"] x #18 Spreader Noz.- Purple [9/32"]										38x18 - #38 Nozzle [15.08 mm] x #18 Purple [7.14 mm]							
Flow [gpm]	67.0	71.7	76.0	80.1	84.1	87.8	91.3	94.9	98.1	Flow [L/s]	4.30	4.71	5.09	5.44	5.77	6.08	
Diam. at 1.5' ht. [ft.]	157	163	168	172	176	180	185	190	192	Diam. at 0.5m ht. [m]	48.3	50.8	52.6	54.4	56.5	58.2	
Diam. at 6.0' ht. [ft.]	173	178	182	185	188	190	192	194	196	Diam. at 2.0m ht. [m]	53.1	55.1	56.5	57.7	58.6	59.4	
40x18 - #40 Range Noz. [5/8"] x #18 Spreader Noz.- Purple [9/32"]										40x18 - #40 Nozzle [15.88 mm] x #18 Purple [7.14 mm]							
Flow [gpm]	-	78.0	82.8	87.2	91.5	95.6	99.4	103.2	106.8	Flow [L/s]	4.68	5.12	5.53	5.92	6.28	6.62	
Diam. at 1.5' ht. [ft.]	-	165	170	174	178	182	187	192	194	Diam. at 0.5m ht. [m]	48.9	51.4	53.2	55.0	57.1	58.8	
Diam. at 6.0' ht. [ft.]	-	180	184	187	190	192	194	196	198	Diam. at 2.0m ht. [m]	53.7	55.7	57.1	58.3	59.2	60.0	

Sprinkler performance may vary with actual field conditions. Diameters shown are for standard straight bore nozzles and stream straightening vanes. Other nozzles and/or vane combinations are available; Consult factory for specific performance data. Stream heights range from 12.5 - 28.0 ft (3.8 - 8.5 m) above nozzle based on pressure and nozzle size. Minimum recommended riser height is 1.5 ft. (0.46m).