



14070H

3/4" 19mm Full Circle, Brass Impact Sprinkler

Bearing: 3/4" Male NPT, Brass

Trajectory Angle: 27°

Operating Range: 25-80 psi 1.7-5.5 bars

Flow Rate: 4.2-23 GPM 0.97-5.34 m³/h

Radius: 44-71 ft. 13.57-22.10 meters

Range: One 1/4" Female NPT Nozzle Port
Spreader: One 1/8" Female NPT Spreader Nozzle Port

Features

- Heavy duty brass construction
- Extra large body and barrel
- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- Dual nozzle ports
- Two-year warranty

Benefits

- Extra large body accommodates wide range of flow rates and nozzles
- Long nozzle barrel increases distance of throw
- Corrosion and grit resistant
- Built to last

U.S. STANDARD DATA

PERFORMANCE DATA

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STRAIGHT BORE NOZZLE (SBN-3) WITH SPREADER (LAN-1-20*) (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD													
	3/16" x 1/8-20"		13/64" x 1/8-20"		7/32" x 1/8-20"		15/64" x 1/8-20"		1/4" x 1/8-20"		17/64" x 1/8-20"		9/32" x 1/8-20"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
25	44	7.40	45	8.30	46	9.20	46	10.30	47	11.40	47	12.50	48	13.80
30	47	8.10	48	9.10	49	10.10	50	11.20	51	12.40	51	13.70	52	15.10
35	49	8.70	50	9.80	51	10.90	52	12.10	52	13.40	53	14.80	54	16.30
40	50	9.30	51	10.50	52	11.70	53	13.00	54	14.40	55	15.80	56	17.40
45	51	9.90	52	11.10	54	12.40	55	13.80	56	15.20	57	16.80	58	18.50
50	52	10.40	53	11.70	55	13.10	56	14.50	57	16.10	58	17.70	59	19.50
55	53	10.90	54	12.30	56	13.70	57	15.20	59	16.90	59	18.60	61	20.40
60	53	11.40	55	12.80	57	14.30	58	15.90	60	17.60	61	19.40	62	21.30
65	54	11.90	56	13.30	58	14.90	59	16.50	61	18.30	62	20.20	63	22.20
70	55	12.40	57	13.80	59	15.40	60	17.20	62	19.00	63	21.00	65	23.00
75	55	12.80	58	14.30	60	16.00	61	17.80	63	19.70	-	-	-	-
80	56	13.20	58	14.80	61	16.50	62	18.40	64	20.30	-	-	-	-

* Nozzles must be purchased separately. See Chart below.

STRAIGHT BORE NOZZLE (SBN-3V) WITH PLUG* (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD																	
	5/32"		11/64"		3/16"		13/64"		7/32"		15/64"		1/4"		17/64"		9/32"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
25	-	-	-	-	44	5.10	45	6.00	46	7.00	46	8.00	47	9.10	48	10.30	48	11.50
30	-	-	-	-	47	5.60	48	6.60	49	7.60	50	8.80	51	10.00	51	11.20	52	12.60
35	46	4.20	47	5.10	49	6.10	50	7.10	51	8.20	52	9.50	52	10.80	53	12.10	54	13.60
40	46	4.50	48	5.40	50	6.50	51	7.60	52	8.80	53	10.10	54	11.50	55	13.00	56	14.60
45	47	4.80	49	5.80	51	6.90	52	8.10	54	9.30	55	10.70	56	12.20	57	13.80	58	15.40
50	48	5.00	50	6.10	52	7.20	53	8.50	55	9.80	56	11.30	57	12.90	58	14.50	59	16.30
55	48	5.30	50	6.40	53	7.60	54	8.90	56	10.30	54	11.80	59	13.50	59	15.20	61	17.10
60	49	5.50	51	6.70	53	7.90	55	9.30	57	10.80	58	12.40	60	14.10	61	15.90	62	17.80
65	49	5.70	52	6.90	54	8.30	56	9.70	58	11.20	59	12.90	61	14.70	62	16.50	63	18.50
70	50	5.90	52	7.20	55	8.60	57	10.00	59	11.60	60	13.40	62	15.20	63	17.20	65	19.20
75	50	6.20	53	7.40	55	8.90	58	10.40	60	12.10	61	13.80	63	15.70	-	-	-	-
80	50	6.40	53	7.70	56	9.10	58	10.70	61	12.40	62	14.30	64	16.30	-	-	-	-

STRAIGHT BORE NOZZLE WITH VANE (SBN-3V) WITH SPREADER (LAN-1)* (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD													
	3/16" x 1/8-20"		13/64" x 1/8-20"		7/32" x 1/8-20"		15/64" x 1/8-20"		1/4" x 1/8-20"		17/64" x 1/8-20"		9/32" x 1/8-20"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
25	47	7.40	49	8.30	51	9.20	51	9.80	51	10.80	51	11.90	51	13.10
30	50	8.10	51	9.10	54	10.10	54	10.60	55	11.80	55	13.00	55	14.30
35	51	8.70	53	9.80	55	10.90	56	11.50	57	12.70	57	14.10	57	15.50
40	52	9.30	54	10.50	56	11.70	57	12.40	59	13.70	59	15.00	60	16.50
45	53	9.90	55	11.10	57	12.40	59	13.10	60	14.40	61	16.00	62	17.60
50	53	10.40	56	11.70	58	13.10	60	13.80	62	15.30	63	16.80	64	18.50
55	54	10.90	56	12.30	59	13.70	61	14.40	63	16.10	65	17.70	66	19.40
60	55	11.40	57	12.80	60	14.30	62	15.10	64	16.70	67	18.40	68	20.20
65	55	11.90	58	13.30	61	14.90	63	15.70	65	17.40	68	19.20	69	21.10
70	56	12.40	58	13.80	62	15.40	64	16.30	66	18.10	69	20.00	71	21.90
75	56	12.80	59	14.30	62	16.00	65	16.90	67	18.70	-	-	-	-
80	57	13.20	60	14.80	63	16.50	66	17.50	69	19.30	-	-	-	-

Part Numbers and Ordering Information

Sprinkler Only	
U.S. Standard	
Sprinkler without Nozzle without Plug	A12800

Nozzle Only		XX = Nozzle Size										
U.S. Standard		1/8"	5/32"	11/64"	3/16"	13/64"	7/32"	15/64"	1/4"	17/64"	9/32"	
Brass Straight Bore Nozzle	SBN-3 105842-XX	-	10	11	12	13	14	15	16	17	18	
Brass Straight Bore Nozzle with Vane	SBN-3V 106131-XX	-	10	11	12	13	14	15	16	17	18	
Brass 20° Low Angle Spreader Nozzle	LAN-1-20 100226-XX	08	-	-	-	-	-	-	-	-	-	
Brass Plug	100255	Bold nozzle size numbers denote the most common nozzle choices.										

METRIC DATA

PERFORMANCE DATA

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STRAIGHT BORE NOZZLE (SBN-3) WITH SPREADER (LAN-1-20)* (Stream Height: 3m)

BARS @ Nozzle	NOZZLE SIZE METRIC																							
	4.76 mm x 3.18 mm (3/16" x 1/8") 20°			5.16 mm x 3.18 mm (13/64" x 1/8") 20°			5.56 mm x 3.18 mm (7/32" x 1/8") 20°			5.95 mm x 3.18 mm (15/64" x 1/8") 20°			6.35 mm x 3.18 mm (1/4" x 1/8") 20°			6.75 mm x 3.18 mm (17/64" x 1/8") 20°			7.14 mm x 3.18 mm (9/32" x 1/8") 20°					
	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow
	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)
1.7	13.6	0.47	1.68	13.9	0.52	1.89	14.0	0.58	2.09	14.2	0.65	2.34	14.3	0.72	2.59	14.5	0.79	2.84	14.6	0.87	3.13			
2.0	14.3	0.50	1.81	14.6	0.56	2.03	14.9	0.63	2.25	15.0	0.70	2.50	15.3	0.77	2.77	15.4	0.85	3.06	15.6	0.94	3.37			
2.5	15.0	0.56	2.01	15.4	0.63	2.26	15.7	0.70	2.52	16.0	0.78	2.80	16.2	0.86	3.10	16.4	0.95	3.42	16.6	1.05	3.76			
3.0	15.5	0.61	2.21	15.9	0.69	2.48	16.3	0.77	2.77	16.6	0.86	3.08	16.9	0.94	3.40	17.2	1.04	3.75	17.5	1.15	4.13			
3.5	15.9	0.66	2.38	16.4	0.74	2.68	16.8	0.83	3.00	17.1	0.92	3.32	17.6	1.02	3.68	17.9	1.12	4.05	18.2	1.24	4.46			
4.0	16.2	0.71	2.54	16.8	0.79	2.86	17.4	0.89	3.19	17.7	0.99	3.55	18.2	1.09	3.93	18.4	1.20	4.33	18.9	1.32	4.75			
4.5	16.6	0.75	2.71	17.2	0.84	3.03	17.8	0.94	3.39	18.1	1.04	3.75	18.6	1.16	4.16	19.1	1.28	4.60	19.4	1.40	5.05			
5.0	16.8	0.79	2.86	17.5	0.89	3.19	18.1	0.99	3.56	18.6	1.10	3.97	19.1	1.22	4.39	19.6	1.35	4.86	19.9	1.48	5.34			
5.5	17.2	0.83	3.00	17.8	0.93	3.36	18.6	1.04	3.75	19.1	1.16	4.18	19.7	1.28	4.61	-	-	-	-	-	-			



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STRAIGHT BORE NOZZLE (SBN-3) WITH PLUG* (Stream Height: 3m)

BARS @ Nozzle	NOZZLE SIZE METRIC																																
	3.97 mm (5/32")			4.37 mm (11/64")			4.76 mm (3/16")			5.16 mm (13/64")			5.56 mm (7/32")			5.95 mm (15/64")			6.35 mm (1/4")			6.75 mm (17/64")			7.14 mm (9/32")								
	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow			
	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)
1.7	-	-	-	-	-	-	13.6	0.32	1.16	13.9	0.38	1.36	14.0	0.44	1.59	14.2	0.50	1.82	14.3	0.57	2.07	14.5	0.65	2.34	14.6	0.73	2.61						
2.0	-	-	-	-	-	-	14.3	0.35	1.25	14.6	0.41	1.47	14.9	0.47	1.70	15.0	0.54	1.96	15.3	0.62	2.23	15.4	0.70	2.50	15.6	0.78	2.81						
2.5	14.1	0.27	0.97	14.4	0.33	1.18	15.0	0.39	1.41	15.4	0.46	1.64	15.7	0.53	1.90	16.0	0.61	2.19	16.2	0.69	2.49	16.4	0.78	2.80	16.6	0.87	3.14						
3.0	14.3	0.30	1.07	14.8	0.36	1.29	15.5	0.43	1.54	15.9	0.50	1.81	16.3	0.58	2.08	16.6	0.66	2.39	16.9	0.76	2.72	17.2	0.86	3.08	17.5	0.96	3.44						
3.5	14.7	0.32	1.15	15.3	0.39	1.40	15.9	0.46	1.65	16.4	0.54	1.94	16.8	0.62	2.24	17.1	0.72	2.58	17.6	0.82	2.95	17.9	0.92	3.32	18.2	1.04	3.73						
4.0	14.9	0.34	1.23	15.5	0.42	1.49	16.2	0.49	1.77	16.8	0.58	2.08	17.4	0.67	2.41	17.7	0.77	2.76	18.2	0.87	3.15	18.4	0.99	3.55	18.9	1.11	3.98						
4.5	15.1	0.36	1.30	15.9	0.44	1.57	16.6	0.52	1.89	17.2	0.61	2.21	17.8	0.71	2.55	18.1	0.82	2.93	18.6	0.93	3.34	19.1	1.04	3.75	19.4	1.17	4.21						
5.0	15.2	0.38	1.37	16.1	0.46	1.66	16.8	0.55	1.99	17.5	0.64	2.32	18.1	0.75	2.69	18.6	0.86	3.09	19.1	0.97	3.51	19.6	1.10	3.97	19.8	1.23	4.42						
5.5	15.4	0.40	1.45	16.3	0.49	1.75	17.2	0.57	2.07	17.8	0.68	2.43	18.6	0.78	2.82	19.1	0.90	3.25	19.7	1.03	3.70	-	-	-	-	-	-						

STRAIGHT BORE NOZZLE WITH VANE (SBN-3V) WITH SPREADER (LAN-1*) (Stream Height: 3m)

BARS @ Nozzle	NOZZLE SIZE METRIC																										
	4.76 mm x 3.18 mm (3/16" x 1/8") 20°			5.16 mm x 3.18 mm (13/64" x 1/8") 20°			5.56 mm x 3.18 mm (7/32" x 1/8") 20°			5.95 mm x 3.18 mm (15/64" x 1/8") 20°			6.35 mm x 3.18 mm (1/4" x 1/8") 20°			6.75 mm x 3.18 mm (17/64" x 1/8") 20°			7.14 mm x 3.18 mm (9/32" x 1/8") 20°								
	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow	Rad.	Flow	Flow
	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)	(m)	(lps)	(m ³ /h)
1.7	14.5	0.47	1.68	14.9	0.52	1.89	15.5	0.58	2.09	15.5	0.62	2.23	15.7	0.68	2.45	15.5	0.75	2.70	15.5	0.83	2.98						
2.0	15.1	0.50	1.81	15.5	0.56	2.03	16.3	0.63	2.25	16.4	0.66	2.37	16.5	0.73	2.63	16.5	0.81	2.90	16.5	0.89	3.19						
2.5	15.6	0.56	2.01	16.2	0.63	2.26	17.0	0.70	2.52	17.2	0.74	2.66	17.5	0.82	2.94	17.7	0.90	3.25	17.7	0.99	3.58						
3.0	16.1	0.61	2.21	16.7	0.69	2.48	17.4	0.77	2.77	17.8	0.81	2.93	18.3	0.90	3.22	18.6	0.99	3.56	18.7	1.09	3.92						
3.5	16.4	0.66	2.38	17.1	0.74	2.68	17.9	0.83	3.00	18.4	0.88	3.15	18.9	0.97	3.50	19.3	1.07	3.85	19.6	1.18	4.23						
4.0	16.7	0.71	2.54	17.4	0.79	2.86	18.3	0.89	3.19	18.9	0.93	3.37	19.5	1.04	3.74	20.1	1.14	4.11	20.5	1.25	4.51						
4.5	16.9	0.75	2.71	17.7	0.84	3.03	18.8	0.94	3.39	19.4	0.99	3.57	20.0	1.10	3.96	20.7	1.21	4.37	21.2	1.33	4.80						
5.0	17.1	0.79	2.86	17.9	0.89	3.19	19.0	0.99	3.56	19.7	1.05	3.77	20.4	1.16	4.18	21.3	1.28	4.62	22.1	1.40	5.05						
5.5	17.4	0.83	3.00	18.3	0.93	3.36	19.4	1.04	3.75	20.1	1.10	3.97	21.0	1.22	4.38	-	-	-	-	-	-						

* Nozzles must be purchased separately. See Chart below.

Part Numbers and Ordering Information

Sprinkler Only		Nozzle Only		XX = Nozzle Size										
Metric		Metric		3.18 mm	3.97 mm	4.37 mm	4.76 mm	5.16 mm	5.56 mm	5.95 mm	6.35 mm	6.75 mm	7.14 mm	
Sprinkler without Nozzle without Plug	A12800	Brass Straight Bore Nozzle	SBN-3	105842-XX	-	10	11	12	13	14	15	16	17	18
		Brass Straight Bore Nozzle with Vane	SBN-3V	106131-XX	-	10	11	12	13	14	15	16	17	18
		Brass 20° Low Angle Spreader Nozzle	LAN-1-20	100226-XX	08	-	-	-	-	-	-	-	-	-
		Brass Plug		100255	Bold nozzle size numbers denote the most common nozzle choices.									