



70CH / 70CHM

1" 25 mm Full Circle, Brass Impact Sprinkler

Bearing: 1" Female NPT, Brass (70CH)
1" Male NPT, Brass (70CHM)

Trajectory Angle: 21°

Operating Range: 40-80 psi 2.8-5.5 bars

Flow Rate: 8.8-45.8 GPM 2.00-10.40 m³/h

Radius: 57-82 ft. 17.39-25.01 meters

Two 3/8" Female NPT Nozzle Ports
(Spreader Nozzle Port requires Spreader
Bushing to accept LAN-20 Nozzles)

Features

- Heavy duty brass construction
- 70CH 1" Female NPT Bearing
- 70CHM has 1" Male bearing Integral Straightening Vanes
- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- Dual nozzle ports
- Two-year warranty

Benefits

- Integral straightening vanes increase distance of throw
- Wide range of flow rates
- Corrosion and grit resistant
- Built to last

U.S. STANDARD DATA

PERFORMANCE DATA

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STRAIGHT BORE NOZZLE (SBN-4) WITH PLUG* (Stream Height: 8 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD													
	7/32"		1/4"		9/32"		5/16"		11/32"		3/8"		13/32"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
40	57	8.80	60	11.50	62	14.60	65	17.70	66	21.10	68	24.40	70	28.50
45	58	9.40	61	12.20	64	15.50	66	18.90	68	22.50	70	26.00	72	30.40
50	59	9.90	62	12.90	65	16.30	68	20.00	70	23.80	71	27.50	73	32.30
55	60	10.40	63	13.60	66	17.20	70	21.00	71	25.00	73	29.10	75	34.00
60	61	10.90	64	14.20	67	18.00	71	22.00	73	26.20	74	30.60	77	35.70
65	62	11.40	65	14.80	68	18.80	72	23.00	74	27.40	76	32.00	78	37.30
70	63	11.80	66	15.40	70	19.50	73	23.90	76	28.50	77	33.20	79	38.90
75	64	12.20	67	16.00	71	20.30	74	24.80	77	29.60	78	34.50	81	40.40
80	65	12.60	68	16.50	72	20.90	75	25.70	78	30.60	80	35.70	82	41.80

STRAIGHT BORE NOZZLE (SBN-4) WITH SPREADER (LAN-1-20)* (Stream Height: 8 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD													
	7/32" x 1/8-20"		1/4" x 1/8-20"		9/32" x 1/8-20"		5/16" x 1/8-20"		11/32" x 1/8-20"		3/8" x 1/8-20"		13/32" x 1/8-20"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
40	57	11.60	60	14.30	62	17.40	65	20.50	61	23.90	68	27.20	70	31.40
45	58	12.40	61	15.20	64	18.50	66	21.90	68	25.50	70	29.00	72	33.40
50	59	13.00	62	16.00	65	19.40	68	23.10	70	26.90	71	30.60	73	35.50
55	60	13.70	63	16.90	66	20.40	70	24.30	71	28.30	73	32.40	75	37.40
60	61	14.30	64	17.60	67	21.40	71	25.40	73	29.60	74	34.00	77	39.20
65	62	15.00	65	18.40	69	22.40	72	26.60	74	31.00	76	35.60	78	40.90
70	63	15.50	66	19.10	70	23.20	73	27.60	75	32.20	77	36.90	79	42.70
75	64	16.00	67	19.80	71	24.10	74	28.60	77	33.40	78	38.30	81	44.30
80	65	16.50	68	20.40	72	24.80	75	29.60	78	34.50	80	39.60	82	45.80

* Nozzles must be purchased separately.
See Chart below.

Part Numbers and Ordering Information

Sprinkler Only		Nozzle Only		XX = Nozzle Size								
U.S. Standard		U.S. Standard		1/8"	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	
Sprinkler without Nozzle, Without Plug, Without Bushing; Female body (70CH)	A20000	Brass Straight Bore Nozzle	SBN-4	100382-XX	—	14	16	18	20	22	24	26
Sprinkler without Nozzle, Without Plug, Without Bushing; Male body (70CHM)	A20030	Brass Spreader Bushings	SPB-1	100418	Needed for use with LAN -1-20							
		Brass 20° Low Angle Spreader Nozzle	LAN-1-20	100226	08	—	—	—	—	—	—	—
		Brass Plug		100417	Bold nozzle size numbers denote the most common nozzle choices.							

METRIC DATA

PERFORMANCE DATA

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STRAIGHT BORE NOZZLE (SBN-4) WITH PLUG* (Stream Height: 2.4m)

BARS @ Nozzle	NOZZLE SIZE METRIC																							
	5.56 mm (7/32")			6.35 mm (1/4")			7.14 mm (9/32")			7.94 mm (5/16")			8.73 mm (11/32")			9.53 mm (3/8")			10.32 mm (13/32")					
	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)			
2.8	17.4	0.56	2.00	18.3	0.73	2.61	19.1	0.92	3.32	19.8	1.12	4.02	20.3	1.33	4.79	20.7	1.54	5.54	21.3	1.80	6.47			
3.0	17.7	0.58	2.09	18.5	0.76	2.72	19.4	0.96	3.46	20.1	1.17	4.21	20.6	1.39	5.01	21.2	1.61	5.79	21.8	1.88	6.77			
3.5	18.2	0.63	2.26	18.9	0.82	2.95	20.0	1.04	3.73	20.8	1.27	4.58	21.4	1.51	5.45	21.9	1.75	6.30	22.5	2.05	7.39			
4.0	18.6	0.67	2.43	19.4	0.88	3.17	20.5	1.12	4.01	21.6	1.36	4.90	22.1	1.62	5.84	22.5	1.89	6.81	23.3	2.21	7.95			
4.5	19.1	0.72	2.59	19.8	0.94	3.37	21.0	1.19	4.28	22.1	1.45	5.23	22.7	1.73	6.23	23.2	2.02	7.28	23.9	2.35	8.47			
5.0	19.5	0.76	2.72	20.3	0.99	3.56	21.5	1.26	4.52	22.6	1.54	5.53	23.3	1.83	6.60	23.8	2.14	7.69	24.3	2.45	8.82			
5.5	19.8	0.79	2.86	20.7	1.04	3.75	21.9	1.32	4.75	23.0	1.62	5.84	23.8	1.93	6.95	24.5	2.25	8.11	25.0	2.64	9.49			

Straight Bore Nozzle (SBN-4) with Spreader (LAN-1-20)* (Stream Height: 2.4m)

BARS @ Nozzle	NOZZLE SIZE METRIC																							
	5.56 mm x 3.18 mm (7/32" x 1/8") 20°			6.35 mm x 3.18 mm (1/4" x 1/8") 20°			7.14 mm x 3.18 mm (9/32" x 1/8") 20°			7.94 mm x 3.18 mm (5/16" x 1/8") 20°			8.73 mm x 3.18 mm (11/32" x 1/8") 20°			9.53 mm x 3.18 mm (3/8" x 1/8") 20°			10.32 mm x 3.18 mm (13/32" x 1/8") 20°					
	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)	Rad. (m)	Flow (lps)	Flow (m³/h)			
2.8	17.4	0.73	2.63	18.3	0.90	3.25	19.1	1.10	3.95	19.8	1.29	4.66	20.3	1.51	5.43	20.7	1.72	6.18	21.3	1.98	7.13			
3.0	17.7	0.77	2.76	18.5	0.94	3.39	19.4	1.15	4.13	20.1	1.35	4.88	20.6	1.58	5.68	21.2	1.80	6.46	21.8	2.07	7.45			
3.5	18.2	0.83	2.98	18.9	1.02	3.66	20.0	1.23	4.44	20.8	1.47	5.29	21.4	1.71	6.16	21.9	1.95	7.01	22.5	2.26	8.13			
4.0	18.6	0.89	3.19	19.4	1.09	3.93	20.5	1.32	4.77	21.6	1.57	5.67	22.1	1.83	6.60	22.5	2.10	7.57	23.3	2.43	8.74			
4.5	19.1	0.95	3.41	19.8	1.16	4.19	21.0	1.42	5.10	22.1	1.68	6.05	22.7	1.96	7.05	23.2	2.25	8.10	23.9	2.58	9.29			
5.0	19.5	0.99	3.58	20.3	1.23	4.42	21.5	1.49	5.37	22.6	1.77	6.38	23.3	2.07	7.45	23.8	2.37	8.54	24.3	2.69	9.67			
5.5	19.8	1.04	3.75	20.7	1.29	4.63	21.9	1.56	5.63	23.0	1.87	6.72	23.8	2.18	7.84	24.5	2.50	8.99	25.0	2.89	10.40			

* Nozzles must be purchased separately.
See Chart below.

Part Numbers and Ordering Information

Sprinkler Only	Metric	Nozzle Only		XX = Nozzle Size								
		Metric	1.59 mm	1.70mm	1.78 mm	1.98 mm	2.18 mm	2.38 mm	2.78 mm	3.18 mm		
Sprinkler without Nozzle, Without Plug, Without Bushing; Female body (70CH)	A20000	Brass Straight Bore Nozzle	SBN-4	100382-XX	—	14	16	18	20	22	24	26
Sprinkler without Nozzle, Without Plug, Without Bushing; Male body (70CHM)	A20030	Brass Spreader Bushing	SPB-1	100418	Needed for use with LAN -1-20							
		Brass 20° Low Angle Spreader Nozzle	LAN-1-20	100226	08	—	—	—	—	—	—	—
		Brass Plug		100417	Bold nozzle size numbers denote the most common nozzle choices.							