

70CH / 70CHM

1" 25 mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- 70CH Female NPT Bearing
- 70CHM has Male bearing Integral Straightening Vanes

Features

- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- Dual nozzle ports

Benefits

- Low angle ideal for windy conditions
- Integral straightening vanes increase distance of throw
- Wide range of flow rates
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1" (25mm) Female NPT, Brass (70CH)
- Bearing: 1" (25mm) Male NPT, Brass (70CHM)
- Trajectory Angle: 21°
- Operating Range: 40-80 psi (2.8-5.5 bar)
- Flow Rate: 8.8-45.8 gpm (2.00-10.40 m³/h)
- Radius: 57-82 ft. (17.39-25.01 meters)
- Nozzle Port: 3/8" Female NPT
- Spreader Nozzle Port: 3/8" Female NPT

(Spreader Nozzle Port requires Spreader Bushing to accept LAN-20 Nozzles)

Straight Bore Nozzle (SBN-4) with Plug Performance*

psi@ Nozzle	NOZZLE SIZE (Stream Height: 8 ft.)													
	7/32"		1/4"		9/32"		5/16"		11/32"		3/8"		13/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (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) Performance*

psi@ Nozzle	NOZZLE SIZE (Stream Height: 8 ft.)													
	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. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (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								
Sprinkler without Nozzle, Without Plug, Without Bushing; Female body (70CH)	A20000	U.S. Standard		1/8"	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	
		Metric		1.59mm	1.70mm	1.78mm	1.98mm	2.18mm	2.38mm	2.78mm	3.18mm	
Sprinkler without Nozzle, Without Plug, Without Bushing; Male body (70CHM)	A20030	Brass Straight Bore Nozzle	SBN-4	100382-XX	–	14	16	18	20	22	24	26
		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 number denotes the most common nozzle choice.



Straight Bore Nozzle (SBN-4) with Plug Performance*

METRIC

bar @ Nozzle	NOZZLE SIZE																							
	(Stream Height: 2.4m)																							
	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 (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /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	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	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	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	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	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	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	25.0	2.64	9.49

Straight Bore Nozzle (SBN-4) with Spreader (LAN-1-20) Performance*

METRIC

bar @ Nozzle	NOZZLE SIZE																							
	(Stream Height: 2.4m)																							
	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 (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /h)	Rad. (m)	Flow (l/s)	Flow (m ³ /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	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	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	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	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	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	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	25.0	2.89	10.40

* Nozzles must be purchased separately. See chart on previous page.