



## 85EHD-LA *FagYZ 4(d)*

### 1 1/4" 32 mm Full or Part Circle, Brass Impact Sprinklers

Bearing: 1 1/4" Male NPT, Brass

Trajectory Angle: 17°

Operating Range: 20-100 psi 1.4-6.9 bars

Flow Rate: 17.1-127.7 GPM 3.88-29.0 m<sup>3</sup>/h

Radius: 48-108 ft. 14.64-32.9 meters

One 3/4" Female NPT Nozzle Port, only

#### Features

- Heavy duty brass construction
- Stainless steel wear buttons, springs and fulcrum pin
- Locking stainless steel trip collars
- Chemically resistant washers
- Full or Part Circle operation
- Two-year warranty

#### Benefits

- Internal straightening vane increases distance of throw
- Stainless steel buttons protect trip mechanism from wear
- Corrosion and grit resistant
- Built to last

## U.S. STANDARD DATA

### PERFORMANCE DATA

85EHD-LA

#### STRAIGHT BORE NOZZLE (SBN-5) WITH PLUG\* (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD																			
	11/32"		3/8"		13/32"		7/16"		15/32"		1/2"		17/32"		9/16"		5/8"		11/16"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
25	52	17.10	55	20.30	57	23.40	60	26.70	60	30.30	60	33.80	60	37.10	60	42.30	60	51.50	60	61.90
30	57	18.80	59	22.30	62	25.70	63	29.30	65	33.20	67	37.10	67	40.80	67	46.40	67	56.50	67	68.10
35	60	20.30	62	24.10	65	27.80	67	31.70	70	35.90	71	40.10	73	44.10	73	50.20	73	61.10	73	73.80
40	62	21.80	65	25.80	67	29.70	70	33.90	72	38.50	75	42.90	76	47.20	79	53.70	79	65.40	79	79.20
45	65	23.10	67	27.40	70	31.60	72	36.00	75	40.80	77	45.60	80	50.10	80	57.10	84	69.50	84	84.20
50	67	24.40	69	28.90	72	33.30	74	38.00	77	43.10	79	48.10	82	52.90	84	60.20	87	73.30	88	88.90
55	69	25.50	71	30.30	74	34.90	76	39.70	79	45.30	82	50.30	84	55.60	86	63.20	91	77.30	92	93.50
60	71	25.80	73	30.80	76	35.90	78	41.60	81	47.40	83	53.00	86	58.80	88	66.50	93	80.70	96	97.80
65	72	26.90	75	32.00	77	37.40	80	43.30	83	49.90	85	55.30	88	61.20	90	69.40	94	84.40	98	102.00
70	74	28.10	77	33.30	79	38.90	82	45.10	84	51.40	87	57.50	89	63.50	92	72.20	96	87.80	100	106.00
75	76	29.20	78	34.50	81	40.30	83	46.80	86	53.30	89	59.60	91	65.80	93	74.90	98	91.00	102	109.90
80	77	30.40	80	35.70	82	41.80	85	48.40	88	55.10	90	61.60	93	68.10	95	77.50	99	94.10	103	113.70
85	79	31.50	81	37.00	84	43.20	86	50.00	89	56.90	92	63.50	94	70.30	97	80.00	101	97.10	105	117.30
90	80	32.70	83	38.30	85	44.60	88	51.50	91	58.50	93	65.30	96	72.40	98	82.20	102	99.90	106	120.90
95	82	33.90	84	39.50	87	46.00	89	53.00	92	60.00	95	67.10	97	74.40	99	84.30	103	102.60	107	124.30
100	83	34.00	85	40.10	88	47.40	91	54.50	93	61.50	96	68.90	98	76.40	101	87.20	105	105.20	108	127.70

#### LOW PRESSURE NOZZLE (LPN-5)\*

(Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE US STANDARD							
	3/8"		7/16"		1/2"		5/8"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM	Rad.	GPM
20	48	17.80	51	24.00	54	30.80	56	46.00
25	52	20.30	55	26.70	58	33.80	61	51.50
30	55	22.30	60	29.30	63	37.10	67	56.50
35	59	24.10	64	31.70	68	40.10	72	61.10
40	63	25.80	68	33.90	72	42.90	77	65.40
45	66	27.40	72	36.00	75	45.60	82	69.50
50	68	28.90	73	38.00	77	48.10	85	73.30
55	70	30.30	75	39.70	80	50.30	89	77.30

## Part Numbers and Ordering Information

Sprinkler Only	U.S. Standard	Nozzle Only	XX = Nozzle Size											
			U.S. Standard	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	5/8"	11/16"	
Sprinkler without Nozzle	<b>A23960</b>	Brass Straight Bore Nozzle	SBN-5	<b>103043-XX</b>	<b>22</b>	<b>24</b>	<b>26</b>	<b>28</b>	<b>30</b>	<b>32</b>	<b>34</b>	<b>36</b>	<b>40</b>	<b>44</b>
		Brass Low Pressure Nozzle	LPN-5	<b>108149-XX</b>	—	<b>24</b>	—	<b>28</b>	<b>30</b>	<b>32</b>	—	—	<b>40</b>	—

Bold nozzle size numbers denote the most common nozzle choices.

**METRIC DATA**

**PERFORMANCE DATA**

**85EHD-LA**

**STRAIGHT BORE NOZZLE (SBN-5)\*** (Stream Height: 3m)

BARS @ Nozzle	NOZZLE SIZE METRIC														
	8.7 mm (11/32")			9.5 mm (3/8")			10.3 mm (13/32")			11.1 mm (7/16")			11.9 mm (15/32")		
	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)
1.7	15.8	1.08	3.88	16.8	1.28	4.61	17.4	1.48	5.31	18.3	1.68	6.06	18.3	1.91	6.88
2.0	17.1	1.16	4.19	17.7	1.38	4.97	18.6	1.59	5.73	19.0	1.82	6.53	19.5	2.06	7.41
2.5	18.4	1.30	4.69	19.1	1.55	5.57	20.0	1.78	6.42	20.6	2.03	7.32	21.5	2.31	8.30
3.0	19.5	1.43	5.16	20.2	1.70	6.11	21.1	1.96	7.05	21.8	2.23	8.03	22.6	2.53	9.11
3.5	20.5	1.55	5.58	21.1	1.84	6.61	22.0	2.12	7.62	22.6	2.41	8.69	23.6	2.74	9.86
4.0	21.4	1.62	5.83	22.0	1.93	6.95	22.9	2.24	8.06	23.5	2.58	9.27	24.4	2.94	10.57
4.5	22.0	1.70	6.12	22.9	2.02	7.28	23.5	2.36	8.51	24.4	2.74	9.85	25.3	3.15	11.35
5.0	22.9	1.81	6.51	23.6	2.14	7.70	24.4	2.50	8.99	25.1	2.90	10.43	25.9	3.30	11.89
5.5	23.5	1.91	6.89	24.3	2.25	8.09	25.0	2.63	9.47	25.9	3.05	10.97	26.8	3.47	12.49
6.0	24.2	2.02	7.26	24.9	2.37	8.52	25.7	2.76	9.94	26.5	3.19	11.49	27.4	3.63	13.07
6.5	24.9	2.13	7.66	25.6	2.48	8.93	26.4	2.89	10.40	27.1	3.33	11.98	28.0	3.77	13.57
6.9	25.3	2.15	7.72	25.9	2.57	9.24	26.8	2.99	10.77	27.7	3.44	12.38	28.3	3.88	13.97



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BARS @ Nozzle	NOZZLE SIZE METRIC														
	12.7 mm (1/2")			13.5 mm (17/32")			14.3 mm (9/16")			15.9 mm (5/8")			17.5 mm (11/16")		
	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)
1.7	18.3	2.13	7.68	18.3	2.34	8.43	18.3	2.67	9.61	18.3	3.25	11.70	18.3	3.91	14.06
2.0	20.0	2.30	8.27	20.0	2.53	9.10	20.0	2.87	10.35	20.0	3.50	12.60	20.0	4.22	15.18
2.5	21.9	2.57	9.26	22.5	2.83	10.19	22.7	3.22	11.60	22.7	3.92	14.12	22.7	4.74	17.06
3.0	23.3	2.83	10.17	24.0	3.11	11.18	24.3	3.54	12.73	25.1	4.31	15.50	25.1	5.22	18.78
3.5	24.2	3.05	11.00	25.1	3.36	12.10	25.7	3.83	13.77	26.7	4.66	16.78	27.0	5.65	20.34
4.0	25.2	3.27	11.79	26.0	3.63	13.06	26.6	4.07	14.66	28.1	4.98	17.93	28.8	6.06	21.82
4.5	25.9	3.49	12.58	26.8	3.87	13.92	27.5	4.39	15.79	28.7	5.33	19.20	29.9	6.45	23.21
5.0	26.8	3.69	13.29	27.4	4.08	14.68	28.2	4.64	16.70	29.6	5.64	20.30	30.8	6.81	24.51
5.5	27.4	3.88	13.96	28.3	4.29	15.44	28.9	4.88	17.57	30.2	5.93	21.33	31.4	7.16	25.77
6.0	28.2	4.05	14.58	28.9	4.49	16.15	29.7	5.10	18.37	30.9	6.20	22.30	32.1	7.49	26.96
6.5	28.9	4.22	15.17	29.5	4.67	16.83	30.1	5.30	19.07	31.3	6.45	23.21	32.6	7.81	28.11
6.9	29.3	4.35	15.65	29.9	4.82	17.35	30.8	5.50	19.81	32.0	6.64	23.89	32.9	8.06	29.00

**LOW PRESSURE NOZZLE (LPN-5)\*** (Stream Height: 3m)

BARS @ Nozzle	NOZZLE SIZE METRIC											
	9.5 mm (3/8")			11.1 mm (7/16")			12.7 mm (1/2")			15.9 mm (5/8")		
	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)
1.4	14.6	1.12	4.04	15.5	1.51	5.45	16.5	1.94	7.00	17.1	2.90	10.45
1.5	15.1	1.18	4.24	16.0	1.57	5.66	16.9	2.01	7.23	17.6	3.02	10.88
2.0	16.6	1.38	4.97	18.0	1.82	6.53	18.9	2.30	8.27	20.1	3.50	12.60
2.5	18.3	1.55	5.57	19.8	2.03	7.32	21.0	2.57	9.26	22.3	3.92	14.12
3.0	19.8	1.70	6.11	21.6	2.23	8.03	22.6	2.83	10.17	24.5	4.31	15.50
3.5	20.8	1.84	6.61	22.3	2.41	8.69	23.6	3.05	11.00	26.1	4.66	16.78
3.8	21.3	1.91	6.88	22.9	2.50	9.02	24.4	3.17	11.42	27.1	4.88	17.56

\* Nozzles must be purchased separately.  
See Chart below.

**Part Numbers and Ordering Information**

Sprinkler Only	Metric	Nozzle Only	XX = Nozzle Size											
			Metric	8.7 mm	9.5 mm	10.3 mm	11.1 mm	11.9 mm	12.7 mm	13.5 mm	14.3 mm	15.9 mm	17.5 mm	
Sprinkler without Nozzle	<b>A23960</b>	Brass Straight Bore Nozzle	SBN-5	103043-XX	22	24	26	28	30	32	34	36	40	44
		Brass Low Pressure Nozzle	LPN-5	108149-XX	—	24	—	28	30	32	—	—	40	—

Bold nozzle size numbers denote the most common nozzle choices.