



AA Series Standard Type



A Internal Thread Type

AA Thread Type

Design Features

- Spray Angle : 51°-144°.
- Spray Pattern : Hollow cone- shaped spray pattern with a ring-shaped impact area.
- Drops : Small- to medium-size, uniform distribution over a wide range of flow rates and pressure.
- Material : BRASS/SS/PP/PVC/PTFE.
- Features : Large, unobstructed flow passages minimize clogging ;
Good atomization of liquids at lower pressures, quick heat transfer, effective airborne droplet impingement.

Applications

- Water cooling
- Dust control
- Degreasing
- Chemical processing
- Gas cooling & scrubbing
- Washing & cooling
- Cooling towers
- Metal treating

Performance State

· Standard Angle

At the stated pressure in bar.

Inlet Conn. (in.)	Capacity Size	Orifice (mm)	Flow Rate Capacity (L/min)										Spray Angle (°)		
			0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
1/8	0.5	1.2	-	0.16	0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.60	-	58	69
	1	1.6	-	0.32	0.46	0.56	0.61	0.79	0.91	1.1	1.1	1.2	-	64	76
	2	2.0	-	0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	52	61	69
	3	2.4	-	0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	52	64	77
	5	3.2	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	56	67	76
	8	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	56	65	70
	10	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	55	65	72
1/4	1	1.6	-	-	0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2	-	53	67
	2	2.0	-	0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	-	62	71
	3	2.4	-	0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	51	65	78
	5	3.6	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	63	73	79
	8	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61	69	73
	10	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	63	70	74
	15	5.2	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.1	16.7	18.1	63	71	72
3/8	5	3.2	1.0	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	64	73	79
	8	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	62	70	74
	10	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	64	72	75
	15	5.6	3.1	4.6	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	64	72	74
	20	6.4	4.1	6.4	9.1	11.2	12.9	15.8	18.2	20	22	24	63	70	74
	25	7.5	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63	70	74
	30	7.9	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	63	70	74
1/2	25	6.4	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63	66	71
	30	7.5	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	67	71	75
	40	9.1	8.2	12.9	18.2	22	26	32	36	41	45	48	72	76	78
	50	11.1	10.2	16.1	23	28	32	39	46	51	56	60	74	79	82
	60	13.1	12.2	19.3	27	33	39	47	55	61	67	72	77	82	86



• Wide Angle

At the stated pressure in bar.

Inlet Conn. (in.)	Capacity Size	Orifice (mm)	Flow Rate Capacity (L/min)										Spray Angle (°)		
			0.2bar	0.5bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
1/8	0.5-0.5W	1.2	-	-	0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.6	-	117	98
	1-1W	1.6	-	-	0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2	-	125	110
	2-3W	2.8	-	0.81	1.1	1.4	1.6	2.0	2.3	2.5	2.8	2.9	114	114	97
	3-3W	2.8	-	1.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.7	114	114	97
	3-5W	3.2	-	1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4.0	116	110	95
	2-10W	4.4	-	1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5.0	130	135	120
	5-5W	3.2	-	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.5	6.1	116	110	92
	5-10W	4.4	1.3	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	126	121	95
1/4	8-10W	4.4	1.8	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	124	112	90
	1-1W	1.6	-	-	0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2	-	117	111
	1-5W	3.2	-	-	0.77	0.95	1.1	1.3	1.5	1.7	1.9	2.0	-	123	124
	1-10W	4.4	-	-	0.96	1.2	1.4	1.7	1.9	2.1	2.3	2.5	-	144	139
	1-15W	5.6	-	-	1.1	1.3	1.5	1.9	2.2	2.4	2.7	2.9	-	128	132
	2-5W	3.2	-	1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4.0	118	123	113
	2-10W	4.4	-	1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5.0	138	136	126
	5-5W	3.2	-	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.1	114	113	104
	5-10W	4.4	1.3	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	130	130	119
	5-15W	5.6	1.6	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	9.3	130	132	120
	8-10W	4.4	1.8	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	129	122	103
	10-10W	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	120	108	95
	8-15W	5.6	2.2	3.5	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.2	129	122	107
3/8	10-15W	5.6	2.4	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	14.6	120	108	97
	15-15W	5.6	3.0	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.0	101	95	90
	5-10W	4.4	1.3	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	130	123	102
	5-15W	5.6	1.6	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	9.3	138	131	112
	8-10W	4.4	1.8	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	122	110	96
	10-10W	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	116	108	93
	8-15W	5.6	2.2	3.5	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.2	133	120	105
	10-15W	5.6	2.4	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	14.6	126	115	100
	8-25W	7.5	2.6	4.2	5.9	7.3	8.4	10.3	11.9	13.3	14.5	15.6	122	118	109
	10-20W	6.0	2.9	4.5	6.4	7.8	9.0	11.1	12.8	14.3	15.6	16.9	118	112	102
	15-15W	5.6	3.0	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.0	116	106	95
	15-20W	6.0	3.4	5.5	7.7	9.5	11.0	13.4	15.5	17.3	16.0	20.4	113	108	98
	20-20W	6.0	4.1	6.4	9.1	11.2	12.9	15.8	18.2	20	22	24.1	106	102	95
1/2	15-30W	7.9	4.5	7.1	10.0	12.3	14.2	17.4	20	22	25	26.5	116	110	102
	25-25W	7.5	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30.2	105	100	93
	25-30W	7.9	5.7	9.0	12.8	15.6	18.0	22	26	29	31	33.9	105	101	94
1/2	50-50W	11.1	10.2	16.1	23	28	32	39	46	51	56	60.9	110	102	93

• Special size please consult our sale dept!

Order Info

AA - 1/4 - SS - 25
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Nozzle Type Inlet Conn Material Code Capacity Size

For NPT threaded connections, add the letter "N" before the nozzle connection size.