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BB Series Full Cone Spray Nozzle

BB standard angle series spray nozzles feature a full cone spray pattern with a round impact area and spray angles between 43° and 106°.

They produce a uniform distribution of medium to large sized drops over a wide range of flow rates and pressures.Their uniform spray distribution result from a unique vane design, large and easy flow passages and superior spray control design.

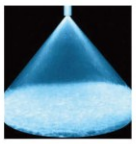
Machined critically, BB series metal nozzles insure correct and dependable performance with exact sizes.They are ideal for applications requiring complete coverage to a certain area.

BBG series metal nozzles have removable cap and vane,can be suitably connected with pipe collection and multi-pipe.Under this design way,its working-end(cap and vane) can be removefrom the nozzle body to be overhauled and cleaned,without knocking down the nozzle body off the pipe.

standard angle series

single type(BB)

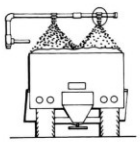
fission type(BBG)



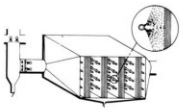
BB-single type external thread
B-single type internal thread
BBG-fission type external thread
BG-fission type internal thread

common application

- exhaust gas scrubbing
- quenching and cooling
- fire prevention and fire protection
- dust extinguishing control
- defoaming
- spraying applications



dust control



air washer

standard angle performance data

* in the specified pressure(bar)

Nozzle inlet connect (in.)	Nozzle type				Capacity Size	Rated Orifice Dia.,(mm)	Max. Hole Dia.,(mm)	Capacity(l/min)*										Spray Angle(°)*		
	Standard type																			
	BG	BBG	B	BB				0.4	0.5	0.7	1.5	2	3	4	6	7	10	0.5	1.5	6
1/8	●	●		●	1	.79	.64	.29	.33	.38	.54	.62	.74	.85	1.0	1.1	1.3		58	53
	●	●		●	1.5	1.2	.64	.44	.49	.57	.81	.93	1.1	1.3	1.5	1.6	1.9	52	65	59
	●	●		●	2	1.2	1.0	.59	.65	.76	1.1	1.2	1.5	1.7	2.0	2.2	2.6	43	50	46
	●	●		●	3	1.5	1.0	.88	.98	1.1	1.6	1.9	2.2	2.5	3.1	3.3	3.9	52	65	59
	●	●		●	3.5	1.6	1.3	1.0	1.1	1.3	1.9	2.2	2.6	3.0	3.6	3.8	4.5	43	50	46
	●	●		●	3.9	2.0	1.0	1.1	1.3	1.5	2.1	2.4	2.9	3.3	4.0	4.3	5.1	77	84	79
	●	●		●	5	2.0	1.3	1.5	1.6	1.9	2.7	3.1	3.7	4.2	5.1	5.5	6.5	52	65	59
	●	●		●	6.1	2.3	1.3	1.8	2.0	2.3	3.3	3.8	4.5	5.2	6.2	6.7	7.9	69	74	68
1/4	●	●		●	6.5	2.4	1.6	1.9	2.1	2.5	3.5	4.0	4.8	5.5	6.7	7.1	8.4	45	50	46
	●	●		●	10	3.2	1.6	2.9	3.3	3.8	5.4	6.2	7.4	8.5	10.2	11.0	13.0	58	67	61
	●	●		●	12.5	3.2	1.6	3.7	4.1	4.8	6.8	7.7	9.3	10.6	12.8	13.7	16.2	69	74	68
3/8	●	●		●	9.5	2.6	2.4	2.8	3.1	3.6	5.1	5.9	7.1	8.1	9.7	10.4	12.3	45	50	46
	●	●		●	15	3.6	2.4	4.4	4.9	5.7	8.1	9.3	11.2	12.7	15.4	16.5	19.4	64	67	61
	●	●		●	20	4.0	2.8	5.9	6.5	7.6	10.8	12.4	14.9	17.0	20	22	26	76	80	73
	●	●		●	22	4.5	2.8	6.5	7.2	8.4	11.9	13.6	16.4	18.7	23	24	28	87	90	82
1/2	●	●		●	16	3.5	3.2	4.7	5.2	6.1	8.7	9.9	11.9	13.6	16.4	17.6	21	48	50	46
	●	●		●	25	4.6	3.2	7.4	8.2	9.5	13.5	15.4	18.6	21	26	27	32	64	67	61
	●	●		●	32	5.2	3.6	9.4	10.4	12.2	17.3	19.8	24	27	33	35	41	72	75	68
	●	●		●	40	6.2	3.6	11.8	13.1	15.2	22	25	30	34	41	44	52	88	91	83
	●	●		●	50	6.7	4.0	14.7	16.3	19.1	27	31	37	42	51	55	65	91	94	86
3/4			●	●	2.5	4.9	4.4	8.7	9.6	11.2	15.9	18.2	22	25	30	32	38	48	50	46
			●	●	4.0	6.4	4.4	13.9	15.4	18.0	26	29	35	40	48	52	61	67	70	63
			●	●	7.0	9.5	5.2	24	27	31	45	51	61	70	84	91	107	89	92	84
1			●	●	4.2	6.0	5.6	14.6	16.2	18.9	27	31	37	42	51	54	64	48	50	46
			●	●	7.0	8.3	5.6	24	27	31	45	51	61	70	84	91	107	67	68	62
			●	●	8.0	9.5	5.6	28	31	36	51	58	70	80	97	104	122	72	81	82
			●	●	10	11.9	5.6	35	38	45	64	73	88	100	121	130	153	78	90	94
			●	●	12	11.9	6.4	42	46	54	77	87	105	120	145	155	183	89	92	84
1-1/4			●	●	6	7.4	6.4	21	23	27	38	44	53	60	72	78	92	48	50	44
			●	●	10	9.6	6.4	35	38	45	64	73	88	100	121	130	153	64	67	58
			●	●	12	10.7	6.4	42	46	54	77	87	105	120	145	155	183	66	70	60
			●	●	14	12.3	6.4	49	54	63	89	102	123	140	169	181	214	77	80	70
			●	●	16	12.7	7.9	56	62	72	102	116	140	160	193	207	244	73	76	66
			●	●	20	15.1	7.9	69	77	90	128	146	175	200	241	259	305	90	93	81
1-1/2			●	●	10	9.5	8.7	35	38	45	64	73	88	100	121	130	153	48	50	44
			●	●	16	12.7	8.7	56	62	72	102	116	140	160	193	207	244	72	74	64
			●	●	20	14.3	8.7	69	77	90	128	146	175	200	241	259	305	74	76	66
			●	●	30	18.3	10.3	104	115	135	191	218	263	300	362	389	458	91	94	82
2			●	●	17	12.7	11.1	59	65	76	108	124	149	170	205	220	259	49	50	44
			●	●	30	17.3	11.1	104	115	135	191	218	263	300	362	389	458	72	74	64
			●	●	35	19.2	11.1	122	135	157	223	255	307	350	422	453	534	75	77	68
			●	●	40	21.0	11.1	139	154	180	255	291	351	401	483	518	611	78	80	70
			●	●	50	23.8	14.3	174	192	225	319	364	439	501	603	648	763	83	85	75
			●	●	60	28.6	14.3	208	231	269	383	437	526	601	724	777	916	98	100	86

The Max. Hole Diameter indicated above is the maximum diameter of the particles that can pass through thechannel and do not block.

A Series Common Nozzle