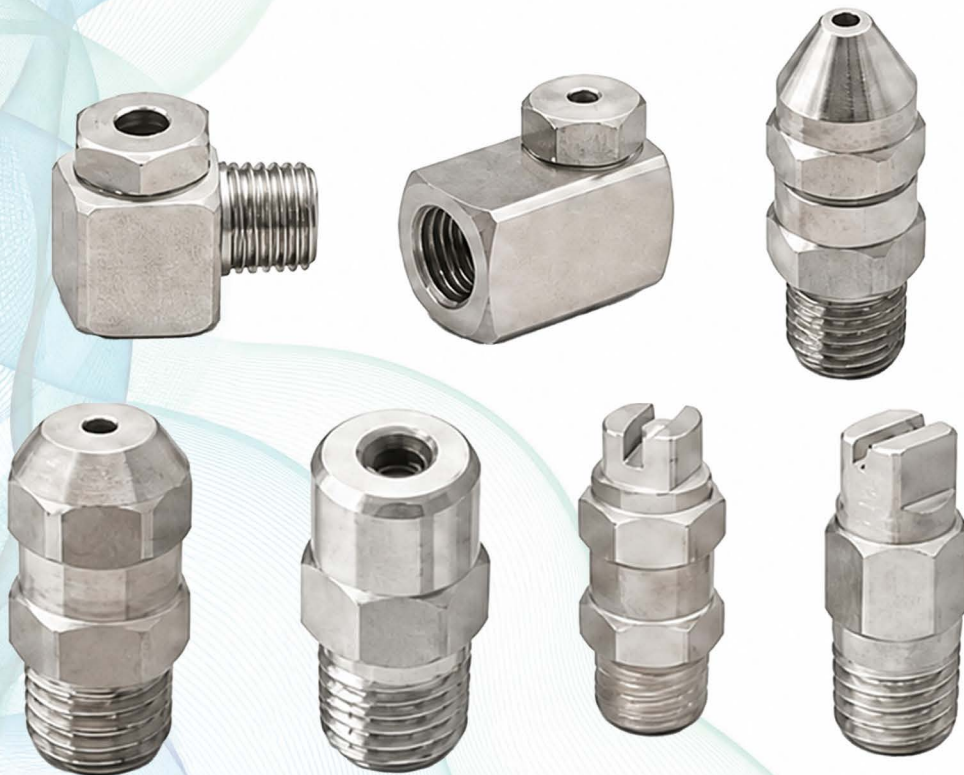


NOZZLES for CHEMICAL INJECTION

Hollow Cone Nozzle System · Full Cone Nozzle System · Flat Fan Nozzle System



1. Hollow Cone Nozzles

- Spray pattern: Ring-shaped impact area with spray angles from 51° to 144°.
- Produces small to medium-sized droplets across a wide flow rate and pressure range.
- Ideal for applications requiring good atomization, quick heat transfer, or airborne droplet impingement.
- Features a special whirl chamber with large, unobstructed flow passages to minimize clogging.
- Available in inner or outer screw threads, with straight or angled types.



Nozzle Inlet Conn.	Capacity Size	Nozzle Type		Body Inlet Dia. (mm)	Rated Orifice Dia. (mm)	Capacity liter per minute										Spray angle		
		AA	A			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	●	●	0.79	1.2		0.16	0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.6		58°	69°
	1	●	●	1.6	1.6		0.32	0.46	0.56	0.61	0.79	0.91	1.1	1.1	1.2		64°	76°
	2	●	●	2	2		0.64	1.91	1.1	1.3	1.6	1.8	2	2.2	2.4	52°	61°	69°
	3	●	●	2.4	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	3.2	1	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6	56°	67°	76°
	8	●	●	4	4	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	4.4	2	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	1.6			0.46	0.56	0.64	0.79	0.91	1	1.1	1.2		53°	67°
	2	●	●	2	2		0.64	0.91	1.1	1.3	1.6	1.8	2	2.2	2.4		62°	71°
	3	●	●	2.4	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	3.6	1	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6	63°	73°	79°
	8	●	●	4	4	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61°	69°	73°
	10	●	●	4.8	4.4	2	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	63°	70°	74°
	15	●	●	5.9	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	●	●	3.6	3.2	1	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6	64°	73°	79°
	8	●	●	4.4	4	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	62°	70°	74°
	10	●	●	5.2	4.4	2	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	64°	72°	75°
	15	●	●	5.9	5.6	3.1	4.6	6.8	8.4	9.7	11.8	13.7	15.2	16.7	18.1	64°	72°	74°
	20	●	●	7.1	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	7.5	5.1	8.1	11.4	14	16.1	19.7	23	25	28	30	63°	70°	74°
	30	●	●	8.3	7.9	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	63°	70°	74°
1/2	25	●	●	9.5	6.4	5.1	8.1	11.4	14	16.1	19.7	23	25	28	30	63°	66°	71°
	30	●	●	9.5	7.5	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	67°	71°	75°
	40	●	●	9.5	9.1	8.2	12.9	18.2	22	26	32	36	41	45	48	72°	76°	78°
	50	●	●	9.5	11.1	10.2	16.1	23	28	32	39	46	51	56	60	74°	79°	82°
	60	●	●	9.5	13.1	12.2	19.3	27	33	39	47	55	61	67	72	77°	82°	86°

Nozzle Inlet Conn.	Capacity Size	Nozzle Type		Body Inlet Dia. (mm)	Rated Orifice Dia. (mm)	Capacity liter per minute										Spray angle		
		AA	A			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	0.5-0.5W	●	●	0.79	1.2			0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.6		117°	98°
	1-1W	●	●	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1	1.1	1.2		125°	110°
	2-3W	●	●	2	2.8		0.81	1.1	1.4	1.6	2	2.3	2.5	2.8	2.9	114°	114°	97°
	3-3W	●	●	2.4	2.8		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.7	114°	114°	97°
	3-5W	●	●	2.4	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4	116°	110°	95°
	2-10W	●	●	2	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5	130°	135°	120°
	5-5W	●	●	3.2	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	●	●	3.2	4.4	1.3	2.1	3	3.6	4.2	5.1	5.9	6.6	7.3	7.9	126°	121°	95°
1/4	8-10W	●	●	4	4.4	1.8	2.9	4.1	5	5.8	7.1	8.2	9.2	10	10.8	124°	112°	90°
	1-1W	●	●	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1	1.1	1.2		117°	111°
	1-5W	●	●	1.6	3.2			0.77	0.59	1.1	1.3	1.5	1.7	1.9	2		123°	124°
	1-10W	●	●	1.6	4.4			0.96	1.2	1.4	1.7	1.9	2.1	2.3	2.5		144°	139°
	1-15W	●	●	1.6	5.6			1.1	1.3	1.5	1.9	2.2	2.4	2.7	2.9		128°	132°
	2-5W	●	●	2	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4	118°	123°	113°
	2-10W	●	●	2	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5	138°	136°	126°
	5-5W	●	●	3.6	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	●	●	3.6	4.4	1.3	2.1	3	3.6	4.2	5.1	5.9	6.6	7.3	7.9	130°	130°	119°
	5-15W	●	●	3.6	5.6	1.6	2.5	3.5	4.3	5	6.1	7	7.8	8.6	9.3	130°	132°	120°
	8-10W	●	●	4	4.4	1.8	2.9	4.1	5	5.8	7.1	8.2	9.2	10	10.8	129°	122°	103°
	10-10W	●	●	4.8	4.4	2	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	120°	108°	95°
	8-15W	●	●	6	5.6	2.2	3.5	5	6.1	7.1	8.7	10	11.2	12.3	13.2	129°	122°	107°
	10-15W	●	●	3.6	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°
3/8	15-15W	●	●	3.6	5.6	3	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18	101°	95°	90°
	5-10W	●	●	4.8	4.4	1.3	2.1	3	3.6	4.2	5.1	5.69	6.6	7.3	7.9	130°	123°	102°
	5-15W	●	●	6	5.6	1.6	2.5	3.5	4.3	5	6.1	7	7.8	8.6	9.3	138°	131°	112°
	8-10W	●	●	3.6	4.4	1.8	2.9	4.1	5	5.8	7.1	8.2	9.2	10	10.8	122°	110°	96°
	10-10W	●	●	3.6	4.4	2	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	116°	108°	93°
	8-15W	●	●	4.4	5.6	2.2	3.5	5	6.1	7.1	8.7	10	11.2	12.3	13.2	133°	120°	105°
	10-15W	●	●	5.2	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	●	●	4.4	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	●	●	5.2	6	2.9	4.5	6.4	7.8	9	11.1	12.8	14.3	15.6	16.9	118°	112°	102°
	15-15W	●	●	6	5.6	3	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18	116°	106°	95°
	15-20W	●	●	6	6	3.4	5.5	7.7	9.5	11	13.4	15.5	17.3	16	20.4	113°	108°	98°
	20-20W	●	●	7.1	6	4.1	6.4	9.1	11.2	12.9	15.8	18.2	20	22	24.1	106°	102°	95°
	15-30W	●	●	6	7.9	4.5	7.1	10	12.3	14.2	17.4	20	22	25	26.5	116°	110°	102°
1/2	25-25W	●	●	7.5	7.5	5.1	8.1	11.4	14	16	19.7	23	25	28	30.2	105°	100°	93°
	25-30W	●	●	7.5	7.9	5.7	9	12.8	15.6	18	22	26	29	31	33.9	105°	101°	94°
1/2	50-50W	●	●	9.5	11.1	10.2	16.1	23	28	32	39	46	51	56	60.9	110°	102°	93°

2.Full Cone Nozzles

2-1.Full Cone Nozzle - standard angle

- Uniform distribution of medium to large droplets with spray angles between 43° to 106° (standard) or over 120° (wide angle).
- Unique vane design ensures consistent spray distribution and dependable performance.
- Cap and vane are removable for easy maintenance without removing the nozzle body from the pipe.
- Available in standard, wide, and narrow-angle versions (15° or 30°).



Full Cone Spray Nozzle - standard angle

* 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	0.79	0.64	0.29	0.33	0.38	0.54	0.62	0.74	0.85	1	1.1	1.3		58	53
	●	●		●	1.5	1.2	0.64	0.44	0.49	0.57	0.81	0.93	1.1	1.3	1.5	1.6	1.9	52	65	59
	●	●		●	2	1.2	1	0.59	0.65	0.76	1.1	1.2	1.5	1.7	2	2.2	2.6	43	50	46
	●	●		●	3	1.5	1	0.88	0.98	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	1.1	1.3	1.9	2.2	2.6	3	3.6	3.8	4.5	43	50	46
	●	●		●	3.9	2	1	1.1	1.3	1.5	2.1	2.4	2.9	3.3	4	4.3	5.1	77	84	79
	●	●		●	5	2	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
1/4	●	●		●	6.1	2.3	1.3	1.8	2	2.3	3.3	3.8	4.5	5.2	6.2	6.7	7.9	69	74	68
	●	●		●	6.5	2.4	1.6	1.9	2.1	2.5	3.5	4	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	13	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	2.8	5.9	6.5	7.6	10.8	12.4	14.9	17	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	13.9	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	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	6.4	4.4	13.9	15.4	18	26	29	35	40	48	52	61	67	70	63
			●	●	7	9.5	5.2	24	27	31	45	51	61	70	84	91	107	89	92	84
1			●	●	4.2	6	5.6	14.6	16.2	18.9	27	31	37	42	51	54	64	48	50	46
			●	●	7	8.3	5.6	24	27	31	45	51	61	70	84	91	107	67	68	62
			●	●	8	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
1-1/2			●	●	20	15.1	7.9	69	77	90	128	146	175	200	241	259	305	90	93	81
			●	●	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
2			●	●	30	18.3	10.3	104	115	135	191	218	263	300	362	389	458	91	94	82
			●	●	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	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

2-2. Full Cone Nozzle (Wide angle)

Wide angle series spray nozzles feature spray angles between 120° or over



Full cone spray nozzle - wide angle series

* 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							0.4	0.5	0.7	1	1.5	2	3	4	6	0.4	0.7	6
	BG-W	BB G-W	B-W	BB-W															
1/8	●	●			1.5W	1.2	0.64			0.57	0.67	0.81	0.93	1.1	1.3	1.5		120	86
	●	●	●		2.8W	1.6	1.0			1.1	1.3	1.5	1.7	2.1	2.4	2.9		120	102
	●	●	●		4.3W	2.0	1.0			1.6	1.9	2.3	2.7	3.2	3.7	4.4		120	102
	●	●			5.6W	2.4	1.0		1.8	2.1	2.5	3.0	3.5	4.2	4.8	5.7		120	102
	●	●	●		8W	2.4	1.3		2.6	3.0	3.6	4.3	4.9	6.0	6.8	8.2		120	103
1/4	●	●			10W	2.8	1.3	2.9	3.3	3.8	4.5	5.4	6.2	7.4	8.5	10.2	112	120	103
	●	●			12W	3.2	1.3	3.5	3.9	4.6	5.4	6.5	7.4	8.9	10.2	12.3	114	120	103
	●	●	●		14W	3.6	1.6	4.1	4.6	5.3	6.3	7.6	8.6	10.4	11.9	14.3	114	120	103
3/8	●	●	●		17W	4.0	1.6	5.0	5.6	6.5	7.6	9.2	10.5	12.7	14.4	17.4	114	120	103
	●	●	●		20W	4.4	2.4	5.9	6.5	7.6	9.0	10.8	12.4	14.9	17.0	20	114	120	104
	●	●	●		24W	4.8	2.4	7.1	7.8	9.1	10.8	13.0	14.8	17.9	20	25	114	120	104
	●	●	●		27W	5.2	2.8	8.0	8.8	10.3	12.1	14.6	16.7	20	23	28	114	120	106
1/2	●	●	●		30W	5.6	2.8	8.8	9.8	11.4	13.5	16.2	18.5	22	25	31	114	120	108
	●	●	●		35W	6.0	3.2	10.3	11.4	13.3	15.7	18.9	22	26	30	36	114	120	108
	●	●	●		40W	6.4	3.2	11.8	13.1	15.2	18.0	22	25	30	34	41	114	120	108
	●	●	●		45W	6.4	3.6	13.3	14.7	17.2	20	24	28	34	38	46	114	120	110
	●	●	●		50W	6.7	4.0	14.7	16.3	19.1	22	27	31	37	42	51	114	120	112
3/4			●	●	6W	9.9	4.4	21	23	27	31	37	42	51	58	69	115	120	112
1			●	●	11W	13.1	5.6	38	42	49	57	69	78	93	106	126	117	120	117
1-1/4			●	●	16W	15.5	6.4	56	62	71	83	100	113	135	154	184	118	121	119
1-1/2			●	●	24W	18.3	10.3	84	92	107	125	150	170	203	230	275	119	124	119
2				●	47W	25.0	11.1	164	181	210	245	293	333	398	451	539	120	125	119
2-1/2				●	70W	31.8	14.3	244	269	312	365	436	495	592	672	803	120	125	119
3				●	95W	34.9	17.5	331	365	424	496	592	672	803	912	1090	120	125	119
4				●	188W	50.8	20.6	655	723	838	981	1172	1330	1590	1805	2157	120	50	119

2-3. Full Cone Nozzle (narrow angle)

Narrow angle series spray nozzles feature spray angles between 30° or 15°



Full cone spray nozzle - narrow angle for 15°

* in the specified pressure(bar)

Nozzle Inlet Connector (in.)	Nozzle type			Capacity Size	Rated Orifice Dia.(mm)	Capacity (l/min)*											Spray Angle(°)*		
	BG-15	BBG-15	B-15			0.7	1.5	2	3	4	6	7	10	15	20	0.7	3	7	
1/8	●	●		1507	1.6	1.3	2.0	2.30	2.80	3.20	3.90	4.2	5.0	6.2	7.1	13	15	15	
	●	●		1514	2.4	2.7	3.9	4.5	5.5	6.4	7.6	6.4	10.1	12.4	14.3	13	15	15	
1/4	●	●		1530	3.2	5.7	8.4	9.7	11.8	13.7	16.8	18.1	22	26	31	13	15	15	
3/8	●	●		1550	4.4	9.5	14.0	16.1	19.7	23	28	30	36	44	51	13	15	15	
1/2	●	●		1590	5.6	17.2	25	29	36	41	50	54	65	79	92	13	15	15	
3/4			●	15150	7.5	29	42	48	59	68	84	90	108	132	153	13	15	15	
1			●	15280	9.9	53	78	90	111	128	156	169	202	247	285	13	15	15	
1-1/4			●	15430	12.3	82	120	139	170	196	240	259	310	380	438	14	15	15	
1-1/2			●	15630	15.1	120	176	203	249	288	352	381	455	557	643	14	15	15	
2			●	151150	20.2	219	321	371	454	524	642	694	829	1015	1172	14	15	15	
2-1/2			●	151750	24.6	334	489	564	691	798	977	1055	1261	1545	1784	14	15	15	
3			●	152500	29.4	477	698	806	987	1140	1396	1508	1802	2207	2548	14	15	15	
4			●	154500	39.7	858	1256	1451	1777	2051	2513	2714	3244	3973	4587	14	15	15	
5			●	157000	48.8	1335	1954	2257	2764	3191	3908	4222	5046	6180	7136	14	15	15	



Full cone spray nozzle - narrow angle for 30°

* in the specified pressure(bar)

Nozzle Inlet Connect (in.)	Nozzle type			Capacity Size	Rated Orifice Dia.(mm)	Capacity (l/min)*										Spray Angle(°)*		
	BG-30	BBG-30	B-30			1	1.5	2	3	4	6	7	10	15	20	1	3	7
1/8	●	●		300.1.4	0.79	0.32	0.39	0.45	0.55	0.64	0.78	0.84	1.0	1.2	1.4	17	30	31
	●	●		3002.5	0.79	0.57	0.7	0.81	0.99	1.1	1.4	1.5	1.8	2.2	2.5	17	30	32
	●	●		3004	1.2	0.9	1.1	1.3	1.6	1.8	2.2	2.4	2.9	3.5	4.1	26	30	32
	●	●		3007	1.6	1.6	2.0	2.3	2.8	3.2	3.9	4.2	5.0	6.2	7.1	23	30	30
1/4	●	●		3009	2.0	2.1	2.5	2.9	3.6	4.1	5.0	5.4	6.5	7.9	9.2	23	30	30
3/8	●	●		3014	2.4	3.2	3.9	4.5	5.5	6.4	7.8	8.4	10.1	12.4	14.3	25	30	30
1/2	●	●		3030	3.2	6.8	8.4	9.7	11.8	13.7	16.8	18.1	22	26	31	26	30	31
3/4	●	●	●	3050	4.4	11.4	14.0	16.1	19.7	23	28	30	36	44	51	26	30	31
1			●	3070	5.2	16.0	19.5	23	28	32	39	42	50	62	71	27	30	30
			●	30100	6.4	23	28	32	39	46	56	60	72	88	102	27	30	30
1-1/4			●	30150	7.5	34	42	48	59	68	84	90	108	132	153	27	30	30
			●	30200	8.7	46	56	64	79	91	112	121	144	177	204	27	30	30
1-1/2			●	30250	9.5	57	70	81	99	114	140	151	180	221	255	27	30	30
			●	30300	10.3	68	84	97	118	137	168	181	216	265	306	27	30	30
2			●	30350	11.1	80	98	113	138	160	195	211	252	309	357	28	30	30
			●	30400	11.9	91	112	129	158	182	223	241	288	353	408	28	30	30
			●	30500	13.5	114	140	161	197	228	279	302	360	441	510	28	30	30
2-1/2			●	30600	14.7	137	168	193	237	274	335	362	432	530	612	28	30	30
			●	30700	15.9	160	195	226	276	319	391	422	505	618	714	28	30	30
			●	301000	19.1	228	279	322	395	456	558	603	721	883	1019	28	30	30
			●	301100	19.8	251	307	355	434	501	614	663	793	971	1121	28	30	30
			●	301200	20.6	274	335	387	474	547	670	724	865	1059	1223	28	30	30

3. Flat Fan Nozzle

- Spray pattern: High-impact solid stream or flat fan with spray angles between 0° and 110°.
- Produces a uniform distribution of small to medium-sized droplets.
- GC, GC-L, GC-N, and GC-M models available depending on flow rate and design.
- Jet stabilizer structure minimizes turbulence.
- Optional inner strainer available upon request.



Jet stabilizer for reducing turbulence

* in the specified pressure(bar)

Capacity Size	Nozzle Type / Inlet Conn. NPT												Equivalent spray office (mm)	Capacity (l/min)*													Spray Angle(°)*			
	GC		GC-L		GC-N					GC-M				0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	14 bar		
	1/8	1/4	1/8	1/4	1/8	1/4	3/8	1/2	3/2	1	1 1/4	2																		
11001	●	●	●	●									0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°		
110015	●	●	●	●									0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97°	110°	121°	124°		
11002	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98°	110°	120°	123°		
11003	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99°	110°	120°	123°		
11004	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	119°	122°		
11005	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	118°	122°		
11006	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	117°	122°		
11008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	110°	117°	121°		
11010	●	●											2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	117°	119°		
11015	●	●											2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	117°	118°		
11020	●	●				●							2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	117°	118°		
950050	●		●										0.46			0.316	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	81°	95°	105°	113°		
9501		●	●	●									0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.3	0.72	1.0	1.3	81°	95°	105°	113°		
95015	●		●										0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.9	1.1	1.5	2.0	82°	95°	105°	113°		
9502	●	●	●	●									0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105°	113°		
9503	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104°	111°		
9504	●	●	●	●									1.3	0.5	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103°	108°		
9505	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	102°	107°		
9506	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	101°	106°		
9508	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100°	105°		
9510					●	●		●					2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100°	105°		
9515					●	●		●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100°	105°		
9520					●	●							2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90°	95°	100°	105°		
9530					●	●		●					3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	91°	95°	101°	105°		
9540						●							4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92°	95°	100°	105°		
9550						●		●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93°	95°	99°	103°		
9560						●		●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93°	95°	99°	103°		
9570						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	93°	95°	99°	103°		
95100								●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	93°	95°	99°	102°		
95150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	93°	95°	99°	102°		
850050	●	●	●	●									0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°		
800067	●	●	●	●									0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°		

8001	●	●	●	●												0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
80015	●	●	●	●												0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	68°	80°	89°	92°
8002	●	●	●	●												0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	69°	80°	88°	91°
8003	●	●	●	●												1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	70°	80°	87°	90°
8004	●	●	●	●												1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	71°	80°	86°	89°
8005	●	●	●	●												1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	71°	80°	86°	89°
8006	●	●	●	●												1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	72°	80°	85°	88°
8008	●	●	●	●												1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	72°	80°	84°	87°
8010					●	●	●	●								2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	73°	80°	84°	87°
8015					●	●		●								2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	74°	80°	83°	86°
8020					●	●	●	●								2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	74°	80°	83°	86°
8030					●	●	●	●								3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	74°	80°	83°	86°
8040					●	●	●	●								4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	74°	80°	83°	86°
8050						●	●	●								4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	74°	80°	83°	85°
8060						●	●	●								4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	75°	80°	83°	85°
8070						●	●	●								5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	75°	80°	83°	86°
80100							●	●								6.4	12.5	23	32	39	46	51	56	60	72	102	135	75°	80°	83°	86°
80150							●	●								7.5	18.7	34	48	59	68	76	84	90	108	153	205	73°	80°	84°	86°
80200								●	●							8.7	25	36	64	79	91	102	112	121	144	205	270	74°	80°	82°	85°
80400																12.7	50	91	129	158	182	205	225	240	290	410	540	78°	80°	81°	83°
730077	●	●	●	●												0.56		0.18	0.25	0.30	0.35	0.39	0.43	0.46	0.55	0.78	1.0	53°	73°	86°	92°
730154	●	●	●	●												0.81	0.19	0.35	0.50	0.61	0.70	0.78	0.86	0.93	1.1	1.6	2.1	55°	73°	84°	88°
730231		●		●												1.0	0.29	0.53	0.74	0.91	1.1	1.2	1.3	1.4	1.7	2.4	3.1	56°	73°	83°	87°
730308	●	●	●													1.1	0.38	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
730462		●		●												1.4	0.58	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.3	4.7	6.2	60°	73°	80°	84°
730770	●		●													1.8	0.96	1.8	2.5	3.0	3.5	3.98	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
650017	●		●													0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23	44°	65°	77°	86°
650033	●		●													0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	47°	65°	76°	83°
650067	●	●	●	●												0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	50°	65°	75°	81°
6501	●	●	●	●												0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	51°	65°	74°	80°
65015	●	●	●	●												0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	51°	65°	74°	80°
6502	●	●	●	●												0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	52°	65°	73°	79°
65025	●		●													1.0	0.31	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.5	3.4	52°	65°	73°	79°
6503	●		●													1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	53°	65°	72°	78°
6504	●	●	●	●												1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	53°	65°	72°	76°
6505	●	●	●	●												1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	53°	65°	72°	76°
6506	●	●	●	●												1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	54°	65°	72°	75°
6508	●	●	●	●												1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	55°	65°	71°	74°
6510					●	●	●									2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
6515					●	●	●	●								2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	56°	65°	70°	73°
6520					●	●		●								2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
6530					●	●										3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
6540					●	●	●									4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	59°	65°	68°	72°
6550					●	●	●	●								4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	60°	65°	68°	71°
6560						●	●	●								4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	60°	65°	68°	71°
6570						●	●	●								5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	60°	65°	68°	71°
65100							●	●								6.4	12.5	23	32	39	46	51	56	60	72	102	135	58°	65°	69°	70°
65150								●								7.5	18.7	34	48	59	68	76	84	90	108	153	205	59°	65°	68°	70°
65200								●	●							8.7	25	46	64	79	91	102	112	121	144	205	270	60°	65°	67°	69°

Material Options

- Brass (Standard)
- Stainless Steel 304
- Stainless Steel 316 (High Corrosion Resistance)
- Special materials are available on request.

Material selection should be based on the compatibility with process fluids and the expected operating temperature.

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