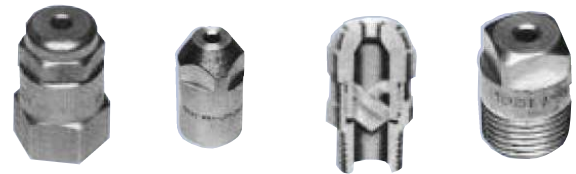


B1 Full cone nozzle



The B1 full cone nozzles are used in washing processes, cooling, foam dispersion, chemical processes, and fire protection.

The 'B' models have a one-piece construction, whilst the 'BB' models have removable caps.



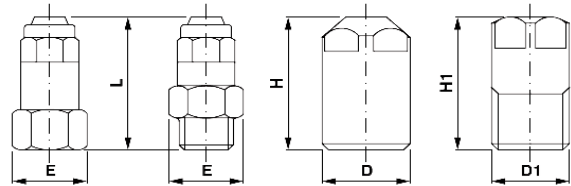
F-BB1

F-B1

M-BB1

M-B1

Pipe Size	Diam. (mm)					
	E	L	D	H	D1	D2
1/8	16	28			13	22
1/4	20	34			13	22
3/8	25	40			17	24
1/2	31	50			21	29
3/4			32	55	27	40
1			38	70	35	52



Construction

Can be constructed from SS303 and brass

Model		Equiv Orifice diam. (mm) Ø1 Ø2		Ltrs/min @ bar									Spray angle @ bar		
				0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5
1/8F-BB1-1	1/8M-BB1-1	0.89	0.64	0.41	0.45	0.54	0.61	0.74	0.85	0.93	1.05	1.10	45	58	53
1/8F-BB1-1.5	1/8M-BB1-1.5	1.2	0.8	0.61	0.67	0.80	0.92	1.10	1.29	1.40	1.50	1.60	52	65	60
1/8F-BB1-2	1/8M-BB1-2	1.3	1.0	0.81	0.89	1.10	1.25	1.50	1.70	1.95	2.00	2.20	43	50	45
1/8F-BB1-3	1/8M-BB1-3	1.6	1.0	1.18	1.30	1.65	1.83	2.20	2.50	2.80	3.05	3.30	50	65	60
1/8F-BB1-3.5	1/8M-BB1-3.5	1.6	1.3	1.45	1.60	1.95	2.10	2.63	3.00	3.30	3.50	3.80	43	50	45
1/8F-BB1-5	1/8M-BB1-5	2.0	1.3	2.00	2.20	2.74	3.10	3.75	4.20	4.70	5.15	5.45	50	65	60
1/4F-BB1-6.5	1/4M-BB1-6.5	2.3	1.6	2.63	2.90	3.55	4.10	4.80	5.50	6.10	6.60	7.00	45	50	47
1/4F-BB1-10	1/4M-BB1-10	2.9	1.6	4.09	4.50	5.40	6.10	7.40	8.50	9.30	10.50	11.00	58	65	62
3/8F-BB1-9.5	3/8M-BB1-9.5	2.6	2.4	3.81	4.20	5.10	5.75	7.05	8.00	8.90	9.71	10.4	45	50	47
3/8F-BB1-15	3/8M-BB1-15	3.6	2.4	6.09	6.70	8.05	9.20	11.20	12.70	14.30	15.20	16.50	65	67	60
3/8F-BB1-22	3/8M-BB1-22	4.5	2.8	8.90	9.80	11.8	13.4	16.3	18.5	21.0	22.0	23.9	85	90	80
1/2F-BB1-16	1/2M-BB1-16	3.5	3.2	6.40	7.10	8.50	9.85	11.8	13.4	15.1	16.3	17.5	48	50	45
1/2F-BB1-25	1/2M-BB1-25	4.6	3.2	10.0	11.1	13.5	15.2	18.5	21.0	23.1	25.2	27.0	65	68	60
1/2F-BB1-32	1/2M-BB1-32	5.2	3.6	12.9	14.2	17.3	19.5	24.0	27.1	30.0	33.3	34.9	70	75	68
1/2F-BB1-40	1/2M-BB1-40	6.4	3.6	16.1	17.8	21.2	24.0	30.0	34.1	36.9	41.0	44.0	88	90	85
N/A	1/8M-B1-3	1.5	1.0	1.18	1.30	1.65	1.83	2.20	2.50	2.80	3.05	3.30	50	65	60
	1/8M-B1-3.5	1.6	1.3	1.45	1.60	1.95	2.10	2.65	3.00	3.30	3.50	3.80	43	50	45
	1/8M-B1-5	2.0	1.3	2.00	2.20	2.74	3.10	3.75	4.20	4.70	5.15	5.45	50	65	60
	1/4M-B1-6.5	2.3	1.6	2.63	2.90	3.55	4.10	4.80	5.50	6.20	6.60	7.00	45	50	47
	1/4M-B1-10	2.9	1.6	4.09	4.50	5.40	6.10	7.40	8.50	9.30	10.5	11.0	58	65	62
	3/8M-B1-9.5	2.6	2.4	3.81	4.20	5.10	5.75	7.05	8.00	8.90	9.71	10.04	45	50	47
	3/8M-B1-15	3.6	2.4	6.09	6.70	8.05	9.20	11.2	12.7	14.3	15.2	16.5	65	67	60
	3/8M-B1-22	4.5	2.8	8.90	9.80	11.8	13.4	16.3	18.5	21.0	22.0	23.9	85	90	80
	1/2M-B1-25	4.6	3.2	10.0	11.1	13.5	15.2	18.5	21.0	23.1	25.2	27.0	65	68	60
	1/2M-B1-40	6.4	3.6	16.1	17.8	21.2	24.0	30.0	34.1	36.9	41.0	44.0	88	90	85
3/4F-B1-2.5	3/4M-B1-2.5	4.9	4.5	11.9	13.1	15.9	18.1	21.8	25.0	28.0	30.0	32.0	48	50	45
3/4F-B1-4	3/4M-B1-4	6.4	4.5	19.1	21.0	25.1	28.8	35.1	40.0	44.0	48.0	50.8	68	70	65
3/4F-B1-7	3/4M-B1-7	9.5	5.2	33.6	37.0	44.2	51.3	61.0	70.0	77.0	84.3	90.0	90	95	85
1F-B1-4.2	1M-B1-4.2	6.0	5.6	20.0	22.0	27.0	30.3	37.2	42.5	46.0	50.0	53.8	48	50	45
1F-B1-7	1F-B1-7	8.3	5.6	29.0	37.0	44.1	51.0	61.2	70.0	77.0	83.9	90.0	65	68	60
1F-B1-10	1F-B1-10	11.9	5.6	47.2	52.0	63.0	72.0	87.1	99.0	110.0	120.0	130.0	75	78	70
1F-B1-12	1F-B1-12	11.9	6.0	57.2	63.0	76.0	87.0	104.0	119.0	131.0	144.0	155.0	90	93	85

B1 Full cone nozzle



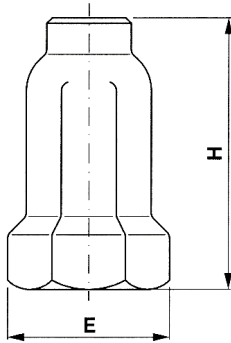
This large capacity full cone nozzle is used for chemical and industrial processes, cooling, and washing.

Construction

Can be constructed from SS303 and brass



F-B1



Pipe Size	Diam. (mm)	
	H	L
1 1/4	86	53
1 1/2	102	58
2	135	75
2 1/2	175	86

Model	Equiv Orifice diam. (mm) Ø1 Ø2		Ltrs/min @ bar									Spray angle @ bar		
			0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5
*1 - 1/4 - F - B1 - 6	7.5	6.5	28	31	38	43	51	60	66	73	78	48	50	45
*1 - 1/4 - F - B1 - 10	9.5	6.4	47	52	62	72	87	100	110	121	129	65	68	60
*1 - 1/4 - F - B1 - 12	10.8	6.5	57	63	76	87	105	120	132	145	155	65	70	62
*1 - 1/4 - F - B1 - 14	12.4	6.5	66	73	88	100	122	140	156	168	180	77	80	73
*1 - 1/4 - F - B1 - 20	15	8	95	105	125	145	174	199	221	240	255	90	95	85
*1 - 1/2 - F - B1 - 10	9.6	8.8	47	52	62	72	87	100	110	121	129	48	50	45
*1 - 1/2 - F - B1 - 16	12.6	8.8	76	84	100	115	140	160	175	192	205	72	75	65
*1 - 1/2 - F - B1 - 20	14.2	8.8	95	105	125	145	174	199	221	240	255	75	77	70
*1 - 1/2 - F - B1 - 30	18.2	10.3	142	157	190	215	260	300	330	360	386	90	95	85
*2 - F - B1 - 17	12.6	11.2	80	89	107	125	148	170	187	205	220	48	50	45
*2 - F - B1 - 30	17.2	11.2	142	157	190	215	260	300	330	360	386	70	75	65
*2 - F - B1 - 35	19.1	11.2	167	184	220	250	305	345	385	421	450	75	77	70
*2 - F - B1 - 40	21.0	11.2	190	210	250	290	348	398	442	480	510	78	80	75
*2 - F - B1 - 50	23.7	14.4	236	260	315	361	434	495	550	600	642	83	85	78
*2 - F - B1 - 60	28.5	14.4	280	310	380	430	510	600	660	730	780	96	100	90
*2 - 1/2 - F - B1 - 25	15.0	14.4	119	131	158	180	215	250	275	300	322	48	50	45
*2 - 1/2 - F - B1 - 50	22.1	14.4	236	260	315	361	434	495	550	600	642	70	75	65
*2 - 1/2 - F - B1 - 60	24.5	14.4	280	310	380	430	510	600	660	730	780	75	78	72
*2 - 1/2 - F - B1 - 70	28.5	14.4	331	365	440	510	510	700	770	838	900	80	85	75
*2 - 1/2 - F - B1 - 80	28.5	17.4	381	420	510	580	705	800	865	960	1030	85	88	80
*2 - 1/2 - F - B1 - 90	31.7	17.4	427	470	570	650	780	890	990	1080	1160	95	98	90