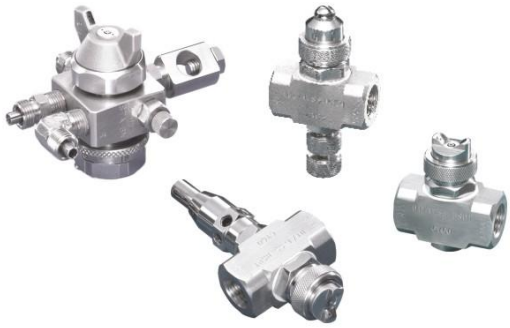
Air Atomizing Nozzle

Design features

D Atomizing Nozzle has special interior structure, which can evenly mix liquid & gas and generate tiny spraying drop or large spraying drop. In common situation, we can get super tiny (about 30mm) liquid spraying drop by air pressure increasing or hydraulic pressure decreasing.Adjustable Atomized can adjust liquid capacity. It can meet the requirement of spraying without changing air pressure and hydraulic pressure. Therefore, it has good adaptability. Each spray device is composed of air cap and liquid cap, which can offer two spray modes, flat fan and round, with wide liquid capacity coverage. Various available sizes of inlet joint for spray nozzle. It is flexible with changeable parts.Atomizing Nozzle has good moisture effect. It is the ideal choice for the location where requires moisture control.

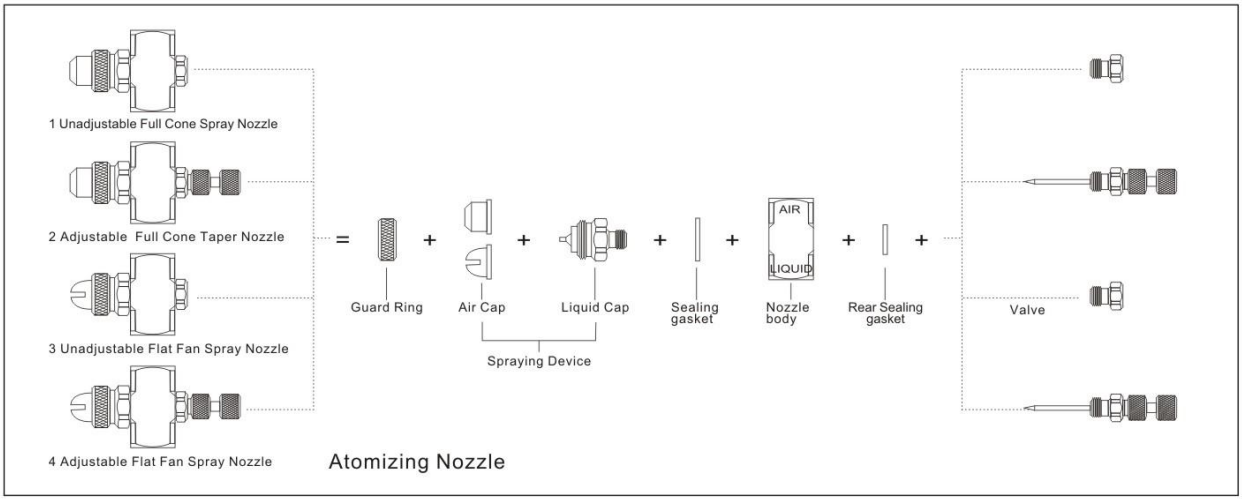


common application

- Wool Spraying & Moisturization
- Mould Lubricating
- Spraying Injection
- Air Disinfection

Efficient Moisture
Ideal choice of location with efficient moisture

Structure

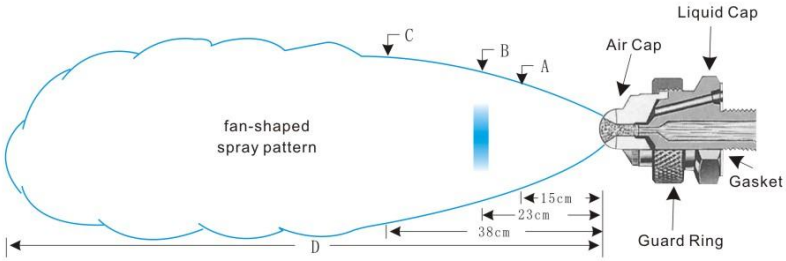


Atomizing Nozzle

Pressure Air Atomizing

Performance data

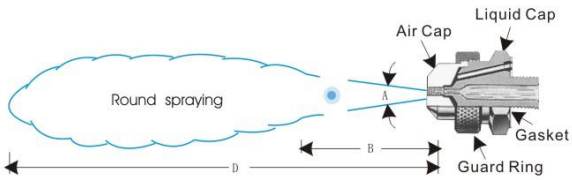
For flat spray, A/B/C size is the distance to nozzle, while "D" is the maximum. distance to nozzle as the right chart.



flat Spray

spray device model	spray device consists of air cap and fluid cap	liquid flow (L/min)and flow (L/min) Water pressure (bar)																Size					
		0.7bar			1.5bar			2bar			3bar			4bar									
		Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air (bar)	Liquid (bar)	A (cm)	B (cm)	C (cm)	D (m)
SUC13A	Liquid Cap 2050 and Air Cap 73328	0.7	5.5	24	1.3	9.1	31	2.0	8.6	42	2.7	11.2	52	3.9	12.0	69	1.1	0.7	25	36		2.6
		0.85	4.7	27	1.5	7.7	36	2.2	7.5	47	3.0	10.1	56	4.6	9.7	81	2.1	1.5	36	48	66	3.0
		1.0	4.1	31	1.8	6.5	42	2.5	6.2	52	3.2	9.1	62	5.3	7.5	93	2.8	2.0	38	53	76	3.2
		1.1	3.5	34	2.1	5.4	47	2.8	5.2	57	3.5		66	6.0	5.3	104	3.5	3.0	47	61	86	3.4
		1.3	3.0	37	2.4	4.3	52	3.1	4.2	63	4.2	5.4	79	6.3	4.3	110	6.0	4.0	56	74	94	4.0
		1.4	2.5	40	2.7	3.3	57	3.2	3.7	65	4.6	4.2	85	5.7	3.3	116						
		1.5	2.0	44	2.8	2.8	60	3.4	3.2	68	4.9	3.1	91	7.0	2.4	122						
SUC13	Liquid Cap 2850 and Air Cap 73328	0.85	8.2	19.8	1.4	14.4	27	2.1	13.5	36	2.7	19.1	42	4.6	16.1	69	1.1	0.7	36	46		2.1
		1.0	6.8	23	1.7	11.9	32	2.4	11.4	42	3.0	17.1	46	4.9	13.8	76	2.1	1.5	43	61	71	2.4
		1.1	5.5	27	2.0	9.5	37	2.7	9.2	47	3.2	15.1	52	5.3	11.5	83	3.0	2.0	51	66	81	2.6
		1.3	4.1	30	2.1	8.3	40	3.0	7.1	53	3.5	13.1	57	5.6	9.3	90	3.5	3.0	58	76	89	2.7
		1.4	2.9	34	2.2	7.1	43	3.2	5.0	59	4.2	8.1	72	6.0	7.3	97	5.6	4.0	58	76	97	3.2
					2.4	6.1	46	3.4	4.0	63	4.6	5.9	79	6.3	5.6	104					97	
					2.5	5.1	49	3.5	3.3	66	4.9	4.0	66	6.7	4.3	112						
SUNC13	Liquid Cap 2850 and Air Cap 73335	1.0	9.0	25	2.0	10.4	41	2.4	11.6	48	3.1	15.6	56	4.2	17.1	73	1.4	0.7	10	13		3.0
		1.1	7.8	30	2.1	9.3	45	2.5	10.4	51	3.2	14.6	59	4.6	15.0	80	2.5	1.5	13	15	17	3.7
		1.3	6.6	32	2.2	8.2	48	2.7	9.4	54	3.4	13.7	62	4.9	12.8	87	3.2	2.0	13	17	20	4.0
		1.4	5.2	36	2.5	6.1	55	3.0	7.3	61	3.8	10.8	71	5.3	11.0	94	3.8	3.0	15	22	22	4.2
		1.7	3.1	44	2.8	4.3	62	3.2	5.5	68	4.2	8.5	82	5.6	9.4	103	5.3	4.0	20	25	28	4.8
		2.0	2.0	50	3.1	3.0	69	3.5	4.1	75	4.9	5.2	98	6.3	7.2	119					33	
		2.2	1.1	56	3.4	2.0	75	3.8	2.9	81	6.0	2.3	120	7.0	6.1	134						
SUC14	Liquid Cap 2850 and Air Cap 73320	1.3	3.9	30	2.1	7.4	40	3.0	6.1	52	3.9	9.4	60	5.3	10.2	78	1.5	0.7	25	33		1.8
		1.4	3.0	33	2.4	5.3	45	3.1	5.3	54	4.2	7.2	67	5.6	8.3	84	2.7	1.5	36	51	46	2.0
		1.5	2.3	35	2.5	4.4	47	3.2	4.5	57	4.6	5.3	73	6.0	6.6	69	3.2	2.0	58	74	69	2.0
		1.7	1.8	38	2.7	3.7	50	3.4	3.8	59	4.9	3.8	80	6.3	5.1	98	4.2	3.0	61	74	91	21
		1.8	1.3	41	2.8	3.1	52	3.5	3.2	62							5.6	4.0	64	76	94	2.3
		2.0	0.95	44	3.0	2.6	55	3.9	1.8	68											97	
					3.1	2.1	57															
SUNC23	Liquid Cap 60100 and Air Cap 125340	1.0	17.0	23	2.0	24	44	2.4	28	51	3.4	38	72	3.9	65	75	1.1	0.7	10	13		2.4
		1.1		27	2.1	18.9	50	2.5	23	59	3.5	33	80	4.2	53	89	2.1	1.5	10	13	15	3.0
		1.3	7.6	33	2.2	14.4	56	2.7	18.9	66	3.7	28	89	4.6	40	108	2.8	2.0	13	17	17	3.4
		1.4	3.2	40	2.4	10.6	63	2.8	15.1	74	3.8	23	97	4.9	30	127	3.7	3.0	15	20	22	3.6
					2.5	7.2	71	3.0	11.7	79	3.9	19.7	105	5.3	21	149	4.9	4.0	20	25	28	4.0
											4.2	13.1	120	5.6	13.8	173					35	
											4.6	7.2	138	6.3	3.2	225						
SUC23B	Liquid Cap 40100 and Air Cap 125328	1.1	11.2	54	2.1	18.0	79	2.7	19.6	93	3.5	27	112	4.6	33	137	1.4	0.7	15	18		3.0
		1.3	8.5	60	2.2	15.8	84	2.8	17.3	98	3.7	25	116	4.9	28	149	2.4	1.5	23	28	20	3.2
		1.4	6.5	65	2.4	13.6	89	3.0	15.2	103	3.8	23	121	5.3	24	161	3.0	2.0	25	33	33	3.4
		1.5	5.0	71	2.5	11.6	95	3.1	13.2	109	3.9	21	126	5.6	19.7	174	3.7	3.0	30	38	46	3.5
		1.7	3.8	77				3.2	11.4	114	4.1	18.9	132	6.0	15.7	187	5.3	4.0	33	41	46	4.0
											4.2	17.0	137	6.3	12.4	200					48	
SUC23	Liquid Cap 60100 and Air Cap 125340	0.85	27	33	1.8	38	55	2.4	39	67	3.2	58	76	4.6	59	106	1.1	0.7	18	23		3.4
		1.0	20	38	2.1	28	66	2.7	30	77	3.5	47	87	5.3	40	132	2.4	1.5	23	30	30	3.5
		1.1	15.9	45	2.2	24	71	3.0	24	87	3.8	38	97	5.6	32	145	3.2	2.0	25	33	41	3.7
		1.3	12.5	48	2.4	21	76	3.2	17.8	98	3.9	34	103	6.0	26	158	3.9	3.0	30	38	43	3.8
		1.4	10.2	56	2.5	17.8	62	3.4	15.1	103	4.2	27	113	6.3	20	172	6.0	4.0	33	41	48	4.4
		1.5	7.6	62	2.7	15.1	87	3.5	12.9	109	4.6	20	128	6.7	15.9	185					51	
								3.7	10.6	114	4.9	14.8	140	7.0	12.7	198						
SUC43	Liquid Cap 100150 and Air Cap 189351	1.0	29	90	1.8	56	117	2.1	100	119	3.0	126	140	4.1	140	181	1.0	0.7	18	20		3.4
		1.1	18.9	108	2.0	40	133	2.1	79	133	3.1	110	151	4.2	125	193	1.8	1.5	25	30	25	3.8
								2.4	62	147	3.2	95	163	4.6	89	225	2.4	2.0	25	30	43	4.3
								2.5	48	162	3.4	78	184	4.9	58	265	3.4	3.0	33	41	46	4.6
								2.7	36	177	3.5	62	193	5.3	34	305	4.9	4.0	36	43	53	5.2
											3.7	48	210	5.6	16.7	340					58	
											3.8	37	225									

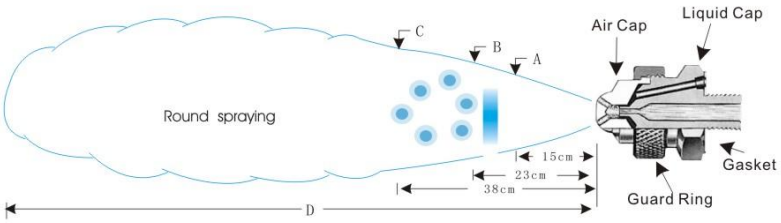
For round spray, it keeps the spraying angle "A" within distance "B", and changes to be overfall and be sprayed to distance "D" if it goes beyond distance "B" as the right chart.



Round spray

spray device model	spray device consists of air cap and fluid cap	liquid flow (L/min)and flow (L/min) Water pressure (bar)																Size				
		0.7bar			1.5bar			2bar			3bar			4bar								
		Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air (bar)	Liquid (bar)	Spray angle A	B (cm)	D (m)
SUC11	Liquid Cap 2050 and Air Cap 67147	0.7	2.5	15.6	1.1	6.4	11.9	1.4	6.4	13.9	2.7	6.2	23	3.5	7.8	28					
		0.85	1.8	19.0	1.4	5.0	15.0	1.7	5.5	16.7	2.8	5.7	25	3.7	7.3	29	0.85	0.7	13°	30	2.7
		1.0	1.4	22	1.7	4.1	18.7	2.0	4.5	19.8	3.0	5.2	27	3.9	6.4	33	1.7	1.5	13°	33	3.0
					1.8	3.4	20	2.2	3.4	24	3.1	4.7	29	4.2	5.5	38	2.5	2.0	13°	36	3.4
					2.0	3.0	23	2.4	3.0	26	3.2	4.3	31	4.5	4.5	43	3.1	3.0	14°	39	3.8
					2.1	2.6	25	2.5	2.5	28	3.4	3.9	33	4.6	4.1	45	4.5	4.0	15°	44	4.4
					2.2	2.0	27	2.7	2.3	31	3.7	3.0	38	4.8	3.7	47					
SUC12A	Liquid Cap 2050 and Air Cap 73160	0.7	2.5	18.7	1.4	5.7	27	1.7	6.7	29	2.2	9.2	34	2.8	11.9	39					
		0.85	2.0	22	1.5	5.2	29	1.8	6.4	31	2.5	8.2	39	3.1	11.0	43	0.85	0.7	12°	43	3.7
		1.0	1.6	26	1.7	4.8	32	2.0	5.8	34	2.8	7.2	44	3.4	10.1	47	1.5	1.5	13°	46	4.0
					1.8	4.3	35	2.1	5.2	37	3.0	6.7	47	3.7	9.2	52	2.4	2.0	13°	48	4.3
					2.0	3.9	37	2.2	4.8	40	3.1	6.3	49	3.9	8.4	58	3.0	3.0	13°	51	4.6
					2.1	3.4	40	2.4	4.3	43	3.2	5.9	52	4.2	7.6	62	3.9	4.0	15°	56	5.2
								2.7	3.6	48	3.4	5.5	55	4.5	6.8	68					
SUC12	Liquid Cap 2850 and Air Cap 73160	0.85	4.8	21	1.7	8.4	31	2.0	10.7	33	2.7	16.5	37	3.4	20	43					
		1.1	4.1	27	1.8	7.5	35	2.1	9.6	37	2.8	15.4	38	3.7	18.4	47	1.5	0.7	12°	48	4.0
		1.4	3.4	33	2.0	7.0	37	2.4	8.2	42	3.1	13.6	43	3.9	16.8	50	2.5	1.5	13°	51	4.3
		1.5	3.1	35	2.2	5.7	44	2.7	6.8	48	3.4	11.8	49	4.2	15.2	55	3.0	2.0	13°	53	4.6
		1.7	3.0	39	2.5	4.8	49	3.0	5.9	55	3.7	10.4	55	4.5	13.8	60	3.4	3.0	14°	56	4.9
		1.8	2.9	41	2.8	4.1	54	3.2	5.0	59	3.9	9.1	61	4.8	12.4	65	4.2	4.0	15°	60	5.3
		2.0	2.8	44	3.1	3.6	59	3.5	4.1	65	4.2	7.9	65	4.9	11.8	68					
SUC22B	Liquid Cap 40100 and Air Cap 1401110	1.1	13.0	76	2.2	17.8	116	2.8	20	136	3.4	32	149	4.6	37	193					
		1.4	8.9	91	2.5	13.1	130	3.1	16.3	149	3.9	25	170	5.3	29	220	1.7	0.7	18°	66	4.9
		1.5	7.2	90	2.8	9.5	143	3.4	11.9	163	4.6	15.9	205	5.6	25	235	2.8	1.5	20°	76	6.1
		1.7	5.8	105	3.1	7.0	157	3.9	7.0	187	5.3	9.1	240	6.0	21	250	3.9	2.0	20°	81	6.7
		1.8	4.7	112	3.4	4.9	171	4.2	4.7	205	5.6	6.8	255	6.3	17.4	270	5.3	3.0	21°	91	7.9
		2.0	3.6	119	3.5	4.2	179	4.6	3.0	220	6.0	5.0	275	6.7	14.0	290	6.0	4.0	21°	97	9.1
		2.1	2.7	127							6.3	3.6	290	7.0	11.0	305					
SUC22	Liquid Cap 60100 and Air Cap 1401110	0.85	31	57	1.4	61	69	2.1	53	96	2.7	80	103	3.8	88	135					
		1.0	25	66	1.5	64	76	2.4	41	112	3.0	69	117	4.2	73	156	1.0	0.7	17°	61	4.9
		1.1	18.5	75	1.7	48	85	2.7	31	127	3.2	59	130	4.6	61	176	1.8	1.5	18°	69	5.8
		1.3	12.9	85	1.8	41	93	2.8	26	136	3.5	49	146	4.9	46	196	2.8	2.0	20°	76	6.7
					2.0	35	102	3.0	22	144	3.7	44	154	5.3	39	215	3.5	3.0	20°	79	7.0
					2.1	30	110				3.8	37	161	5.6	31	240	4.9	4.0	21°	91	8.5
					2.2	25	119				3.9	35	170	6.0	23	260					
SUC42	Liquid Cap 100150 and Air Cap 1891125	1.0	44	86	1.4	125	79	2.0	123	108	2.2	199	86	3.0	250	99					
		1.1	32	102	1.5	106	91	2.1	108	119	2.5	174	110	3.2	225	120	1.0	0.7	19°	89	6.1
					1.7	87	105	2.2	95	130	2.8	146	133	3.5	205	141	1.7	1.5	20°	99	7.0
					1.8	70	118	2.4	79	143	3.1	121	154	3.8	182	163	2.4	2.0	21°	104	7.6
					2.0	55	130	2.5	64	155	3.2	108	166	4.1	159	184	3.1	3.0	21°	107	7.9
								2.7	52	166	3.4	95	176	4.6	121	225	3.5	4.0	22°	117	9.1
								2.8	42	178	3.5	84	187	4.9	93	255					

For round spray,the spray angle "A" is maintained within the distance of" B",the spraying will turn into torrent if the distance has reached "D".as the right chart



Wide-angle round spray

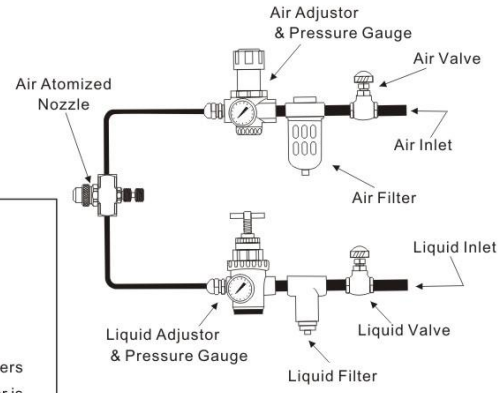
Performance date

spray device model	spray device consists of air cap and fluid cap	liquid flow (L/min)and flow (L/min)																Size					
		Water pressure (bar)																					
		0.7bar			1.5bar			2bar			3bar			4bar								
		Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air (bar)	Liquid (bar)	A (cm)	B (cm)	C (cm)	D (m)
SUK16	Liquid Cap 2050 and Air Cap 67-6-20-70°	0.6	5.3	10.2	1.1	6.1	13.3	1.5	8.1	16.4	2.4	8.9	22	3.1	10.5	24	0.7	0.7	14	18	23	1.5
		0.7	4.3	12.2	1.3	7.0	15.0	1.8	6.6	21	2.7	8.1	26	3.4	9.7	28	1.4	1.5	15	19	24	1.8
		0.85	3.0	14.2	1.4	6.4	17.0	2.1	4.9	25	3.0	6.4	30	3.9	7.8	36	1.8	2.0	16	20	25	2.1
		1.0	1.7	17.0	1.5	5.5	19.0	2.4	3.2	29	3.2	4.9	34	4.2	6.1	42	3.0	3.0	16	20	26	2.7
					1.7	4.5	22				3.4	4.2	37	4.6	4.4	47	3.9	4.0	19	23	30	4.0
					1.8	3.5	24				3.5	3.4	40	4.9	2.8	54						
SUK26B	Liquid Cap 60100 and Air Cap 140-6-37-70°	0.85	7.0	5.0	1.7	13.2	68	2.0	18.5	68	2.8	25	84	3.7	31	96						
		1.0	2.1	62	1.8	9.8	79	2.1	15.1	76	3.0	22	92	3.8	28	105	0.85	0.7	18	24	31	1.8
								2.2	11.7	85	3.1	18.5	101	3.9	26	113	1.7	1.5	19	25	33	2.4
											3.2	15.1	119	4.1	23	122	2.1	2.0	19	25	33	3.2
											3.4	12.1	130	4.2	20	130	3.2	3.0	20	26	26	4.1
											3.5	9.1	142	4.6	13.6	153	4.1	4.0	21	28	28	5.9
											3.7	6.1	65	4.9	6.8	183						
SUK26	Liquid Cap 60100 and Air Cap 140-6-37-70°	0.7	24	32	1.4	43	37	2.1	33	66	2.8	52	76	3.7	63	68					36	
		0.85	13.6	44	1.5	35	49	2.2	26	78	3.0	46	87	3.8	68	79	1.85	0.7	19	25	37	2.1
		1.0	7.6	57	1.7	28	61	2.4	18.9	89	3.1	39		3.9	52	101	1.5	1.5	20	27	37	3.2
					1.8	21	71	2.5	11.7	100	3.2	33	99	4.2	41	111	2.4	2.0	20	27	38	4.1
											3.4	26	110	4.6	27	138	3.2	3.0	20	28	38	5.0
											3.5	19.5	122	4.9	15.9	166	3.9	4.0	20	28	39	6.8
											3.7	13.2	133									
SUK29	Liquid Cap 60100 and Air Cap 140-6-52-70°	1.3	36	85	2.1	57	116	3.1	53	156	4.2	64	197	5.6	74	245						
		1.5	29	102	2.4	51	130	3.2	50	163	4.9	51	230	6.0	68	260	2.0	0.7	20	25	33	5.5
		1.8	23	117	2.7	45	143	3.4	47	170	5.6	40	265	6.3	62	280	3.0	1.5	20	27	34	6.4
		2.0	19.7	125	3.0	39	157	3.5	45	177	6.0	34	285	6.7	56	295	3.9	2.0	22	28	37	8.2
		2.1	16.7	133	3.2	33	170	3.9	38	194	6.3	28	300	7.0	51	315	6.0	3.0	23	29	38	9.1
		2.3	14.0	142	3.5	28	185	4.6	25	230	6.7	22	320				6.3	4.0	24	32	41	10.4
		2.4	11.4	149	4.2	13.6	220	4.9	18.5	245	7.0	17.8	335									
SUK30	Liquid Cap 40100 and Air Cap 120-6-35-60°	1.1	12.3	40	2.2	16.3	62	2.7	21	69	4.2	19.3	100	5.6	22	130						
		1.3	9.9	45	2.5	12.1	71	3.0	16.3	78	4.6	14.6	113	6.0	17.6	142	1.5	0.7	15	19	23	2.7
		1.4	7.9	50	2.8	8.9	79	3.2	12.3	86	4.9	10.8	124	6.3	14.0	152	3.0	1.5	16	20	24	4.6
		1.5	6.1	54	3.0	7.6	83	3.4	10.7	91	5.3	8.1	135	6.7	11.4	163	3.4	2.0	16	20	24	5.5
		1.7	4.9	58	3.1	6.4	87	3.5	9.3	94	5.6	6.2	146	7.0	9.1	174	5.3	3.0	18	22	25	7.3
		1.8	3.9	62	3.2	5.5	91	3.9	6.4	105	6.0	4.9	157				6.3	4.0	19	24	30	9.4
		2.0	3.1	67	3.4	4.7	95	4.2	4.7	115	6.3	4.0	167									
SUK46	Liquid Cap 100150 and Air Cap 189-6-62-70°	1.7	25	156	3.0	39	230	3.4	50	250	4.6	62	320	6.0	93	395	2.0	0.7	24	33	46	5.5
		1.8	19.7	167	3.1	33	240	3.5	43	260	4.9	47	345	6.3	77	425	3.2	1.5	25	34	47	6.4
		2.0	15.1	178	3.2	27	255	3.7	41	275	5.3	36	375	6.7	62	460	3.9	2.0	28	37	51	7.3
		2.1	11.4	193	3.4	23	265	3.9	27	300	5.6	26	405	7.0	52	495	5.3	3.0	29	38	53	7.9
		2.3	7.6	205	3.5	18.5	280	4.1	23	310	6.0	18.9	435				6.3	4.0	33	42	58	9.8
					3.7	14.8	290	4.2	18.9	320	6.3	13.6	460									
								4.4	15.9	335												

Typical Moisturization Design

You can freely adjust spraying drop and liquid capacity for best spraying effect.

Remark: Fast joint is used for liquid and air connecting and common air/water pipe Dia.is 8-6mm.



ordering info

D–1/4–SS+SUC13–SS

nozzle type	Inlet size	material code	The number of spraying device	capacity size

Remark:

BRASS

SS-stainless steel

316SS-316 stainless steel

Please contact our sales engineers for detail. Besides, customized order is available.