AIR ATOMIZING DESIGN
FEATURE & INTRODUCTION

Raha Spray Solutions

1/4J
with end plug

1/4JN
with shut-off needle

1/4JCO
with clean-out needle

1/4JNCO
with clean-out/shut-off needle

1/8JAC-Mini

1/4JBC or 1/8JBC

1/4JACN or 1/8JACN

2J with two spray set-up

1/4J Thick wall

1/4J Cluster type

DESIGN FEATURES

- The basic J Series nozzle assembly consists of a body and a spray set-up.
- 1/8J and 1/4J bodies have liquid and air feeds at opposite ends
- 1/8JAC miniature assembly body is only 1/2" (13 mm) thick with a 1-5/32" (29 mm) by 1-1/4" (32 mm) rectangular face.
- JBC features the center lines of the air and liquid inlet entering in the back of the nozzle and parallel to the spray axis.
- Various assemblies can be added to provide shut-off and clean-out functions.
- Thin wall adapters add an adapter locknut and gasket to Cp3376 thick wall adapters to provide secure mounting in thin walls and include CP6378 locknut and CP2804-3 gasket.
- JN features a manual shut-off needle that enables the flow of liquid to the nozzle to be stopped.
- JCO features a clean-out needle that is activated manually.
- 2J is a dual spray assembly with opposing spray set-ups perpendicular to opposing air and liquid inlets.
- JACN features air and liquid inlet connections entering the nozzle at 90° to spray projection axis and a shut-off needle.
- Thick wall adapters replace retainer rings on nozzle assemblies and fit into threaded wall openings, holding the nozzle securely in place.

Ordering Info

Complete Nozzle Assembly

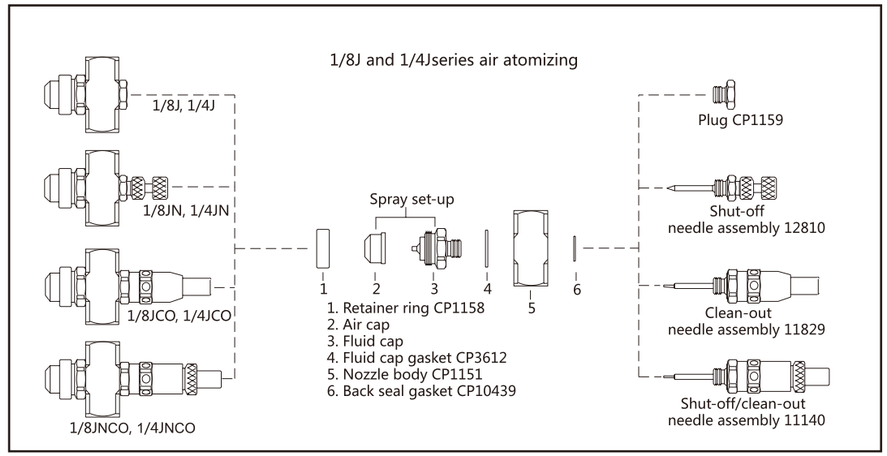
Nozzle Body*				Spray Set-up		
1/4	JN	– SS	+	SU11DF	–	SS
Inlet Conn.	Nozzle Body Assembly Type	Material Code		Spray Set-up No.		Material Code

Spray Set-up Only

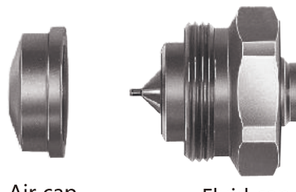
Spray Set-up		
SU11DF	–	SS
Spray Set-up No.		Material Code

AIR ATOMIZING OVERVIEW
NOZZLE ASSEMBLIES

Raha Spray Solutions

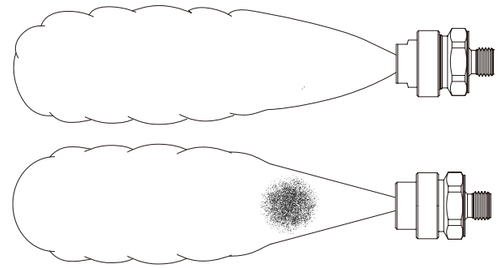


Spray Set-up Introduction



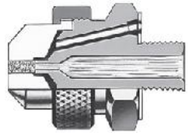
Air cap

Fluid cap

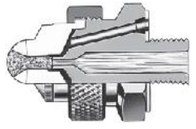


Internal Mix Features

- Liquid and air are mixed internally to produce a completely atomized spray.
- Liquid and gas streams are not independent and a change in air flow will affect the liquid flow.
- Internal mix uses pressure set-ups and is available with the following spray patterns:
  - 360° circular spray.
  - Deflected flat spray.
  - Elliptical spray.
  - Flat spray.
  - Round spray.
  - Wide angle round spray.



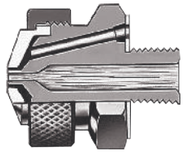
Internal mix with pressure set-ups: Round spray patterns



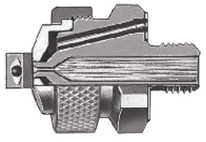
Internal mix with pressure set-ups: Flat spray patterns

External Mix Features

- Liquid and air streams are mixed outside of the nozzle.
- Air and liquid flow can be controlled independently.
- Effective for higher viscosity liquids and abrasive suspensions.
- External mix can use siphon set-ups or pressure set-ups.
- When a siphon set-up is used, a round spray pattern is produced.
- When a pressure set-up is used, a flat spray pattern is produced.



External mix with siphon set-ups: Round spray patterns



External mix with pressure set-ups: Flat spray patterns

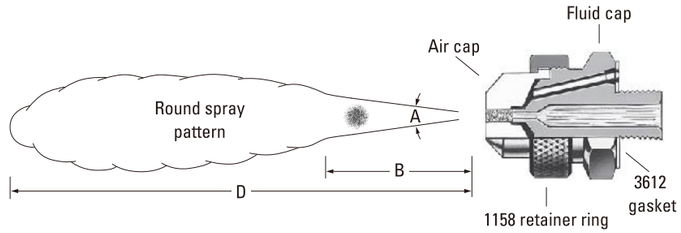
Raha Spray Solutions

AIR CAPS

Round spray air caps produce a narrow, full cone round spray pattern

DESIGN FEATURES

- For round spray pattern, angle "A" is maintained throughout distance "B". Beyond "B", the spray becomes turbulent and will project out to distance "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed internally to produce a completely atomized spray.



1158 retainer ring and 3612 gasket must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

ROUND SPRAY

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions				
		Liquid Pressure																				
		0.7			1.5			2			3			4				Air*	Liquid*	Spray Angle A (°)	B (cm)	D (m)
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min						
SU11	Fluid Cap 2050 + Air Cap 67147	.70	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	.85	.70	13	30	2.7
		.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	1.7	1.5	13	33	3.0
		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	2.5	2.0	13	36	3.4
		–	–	–	1.8	3.4	20	2.2	3.4	24	3.1	4.7	29	4.2	5.5	38	3.1	3.0	14	39	3.8
		–	–	–	2.0	3.0	23	2.4	3.0	26	3.2	4.3	31	4.5	4.5	43	4.5	4.0	15	44	4.4
		–	–	–	2.1	2.6	25	2.5	2.5	28	3.4	3.9	33	4.6	4.1	45					
		–	–	–	2.2	2.0	27	2.7	2.3	31	3.7	3.0	38	4.8	3.7	47					

Raha Spray Solutions

SPECIFICATIONS

ROUND SPRAY

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions				
		Liquid Pressure																				
		0.7			1.5			2			3			4				Air*	Liquid*	Spray Angle A (°)	B (cm)	D (m)
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min						
SU12A	Fluid Cap 2050 + Air Cap 73160	.70	2.5	18.7	1.4	5.7	27	1.7	6.7	29	2.2	9.2	34	2.8	11.9	39	.85	.70	12	43	3.7
		.85	2.0	22	1.5	5.2	29	1.8	6.4	31	2.5	8.2	39	3.1	11.0	43	1.5	1.5	13	46	4.0
		1.0	1.6	26	1.7	4.8	32	2.0	5.9	34	2.8	7.2	44	3.4	10.1	47	2.4	2.0	13	48	4.3
		–	–	–	1.8	4.3	35	2.1	5.2	37	3.0	6.7	47	3.7	9.2	52	3.0	3.0	13	51	4.6
		–	–	–	2.0	3.9	37	2.2	4.8	40	3.1	6.3	49	3.9	8.4	58	3.9	4.0	15	56	5.2
		–	–	–	2.1	3.4	40	2.4	4.3	43	3.2	5.9	52	4.2	7.6	62					
		–	–	–	–	–	–	2.7	3.6	48	3.4	5.5	55	4.5	6.8	68					
SU12	Fluid Cap 2850 + Air Cap 73160	.85	4.8	21	1.7	8.4	31	2.0	10.7	33	2.7	16.5	37	3.4	20	43	1.5	.70	12	48	4.0
		1.1	4.1	27	1.8	7.5	35	2.1	9.8	37	2.8	15.4	38	3.7	18.4	47	2.5	1.5	13	51	4.3
		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	3.0	2.0	13	53	4.6
		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	3.4	3.0	14	56	4.9
		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	4.2	4.0	15	60	5.3
		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					
		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					
SU22B	Fluid Cap 40100 + 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	1.7	.70	18	66	4.9
		1.4	8.9	91	2.5	13.1	130	3.1	16.3	149	3.9	25	170	5.3	29	220	2.8	1.5	20	76	6.1
		1.5	7.2	98	2.8	9.5	143	3.4	11.9	163	4.6	15.9	205	5.6	25	235	3.9	2.0	20	81	6.7
		1.7	5.8	105	3.1	7.0	157	3.9	7.0	187	5.3	9.1	240	6.0	21	250	5.3	3.0	21	91	7.9
		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	6.0	4.0	21	97	9.1
		2.0	3.6	119	3.5	4.2	178	4.6	3.0	220	6.0	5.0	275	6.7	14.0	290					
		2.1	2.7	127	–	–	–	–	–	–	6.3	3.6	290	7.0	11.0	305					
SU22	Fluid Cap 60100 + Air Cap 1401110	.85	31	57	1.4	61	69	2.1	53	96	2.7	80	103	3.8	88	135	1.0	.70	17	61	4.9
		1.0	25	66	1.5	54	76	2.4	41	112	3.0	69	117	4.2	73	156	1.8	1.5	18	69	5.8
		1.1	18.5	75	1.7	48	85	2.7	31	127	3.2	59	130	4.6	61	176	2.8	2.0	20	76	6.7
		1.3	12.9	85	1.8	41	93	2.8	26	136	3.5	49	146	4.9	48	196	3.5	3.0	20	79	7.0
		–	–	–	2.0	35	102	3.0	22	144	3.7	44	154	5.3	39	215	4.9	4.0	21	91	8.5
		–	–	–	2.1	30	110	–	–	–	3.8	37	161	5.6	31	240					
		–	–	–	2.2	25	119	–	–	–	3.9	35	170	6.0	23	260					
SU42	Fluid Cap 100150 + Air Cap 1891125	1.0	44	86	1.4	125	79	2.0	123	108	2.2	199	88	3.0	250	99	1.0	.70	19	89	6.1
		1.1	32	102	1.5	106	91	2.1	108	119	2.5	174	110	3.2	225	120	1.7	1.5	20	99	7.0
		–	–	–	1.7	87	105	2.2	95	130	2.8	146	133	3.5	205	141	2.4	2.0	21	104	7.6
		–	–	–	1.8	70	118	2.4	79	143	3.1	121	154	3.8	182	163	3.1	3.0	21	107	7.9
		–	–	–	2.0	55	130	2.5	64	155	3.2	108	166	4.1	159	184	3.8	4.0	22	117	9.1
		–	–	–	–	–	–	2.7	52	166	3.4	95	176	4.6	121	225					
		–	–	–	–	–	–	2.8	42	178	3.5	84	187	4.9	93	255					

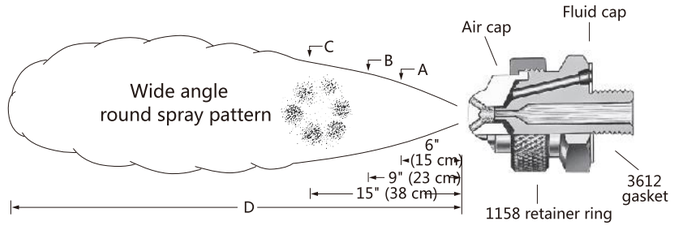
Raha Spray Solutions

Air Caps

Wide angle round spray and 360° circular spray air caps produce hollow cone, wide angle round spray and 360° circular spray patterns.

DESIGN FEATURES

- For wide angle round spray, dimensions "A", "B" and "C" are the pattern widths at distances from the nozzle.
- The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed internally to produce a completely atomized spray.



1158 retainer ring and 3612 gasket must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Wide Angle Round Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions					
		Liquid Pressure																					
		0.7			1.5			2			3			4									
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SU16	Fluid Cap 2050 + Air Cap 67-6-20-70°	.60	5.3	10.2	1.1	8.1	13.3	1.5	8.1	16.4	2.4	8.9	22	3.1	10.5	24	.70	.70	14	18	23	1.5
		.70	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
		.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
SU26B	Fluid Cap 40100 + Air Cap 140-6-37-70°	.85	7.0	50	1.7	13.2	68	2.0	18.5	68	2.8	25	84	3.7	31	96	.85	.70	18	24	31	1.8
		1.0	2.1	62	1.8	9.8	79	2.1	15.1	76	3.0	22	92	3.8	28	105	1.7	1.5	19	25	33	2.4
		–	–	–	–	–	–	2.2	11.7	85	3.1	18.5	101	3.9	26	113	2.1	2.0	19	25	33	3.2
		–	–	–	–	–	–	–	–	–	3.2	15.1	109	4.1	23	122	3.2	3.0	20	26	34	4.1
		–	–	–	–	–	–	–	–	–	3.4	12.1	119	4.2	20	130	4.1	4.0	21	28	37	5.9
		–	–	–	–	–	–	–	–	–	3.5	9.1	130	4.6	13.6	153						
		–	–	–	–	–	–	–	–	–	3.7	6.1	142	4.9	6.8	183						
SU26	Fluid Cap 60100 + Air Cap 140-6-37-70°	.70	24	32	1.4	43	37	2.1	33	66	2.8	52	65	3.7	63	68	.85	.70	19	25	36	2.1
		.85	13.6	44	1.5	35	49	2.2	26	78	3.0	46	76	3.8	58	79	1.5	1.5	20	27	37	3.2
		1.0	7.6	57	1.7	28	61	2.4	18.9	89	3.1	39	87	3.9	52	101	2.4	2.0	20	27	37	4.1
		–	–	–	1.8	21	71	2.5	11.7	100	3.2	33	99	4.2	41	111	3.2	3.0	20	28	38	5.0
		–	–	–	–	–	–	–	–	–	3.4	26	110	4.6	27	138	3.9	4.0	20	28	39	6.8
		–	–	–	–	–	–	–	–	–	3.5	19.5	122	4.9	15.9	166						
		–	–	–	–	–	–	–	–	–	3.7	13.2	133	–	–	–						

Raha Spray Solutions

SPECIFICATIONS

Wide Angle Round Spray

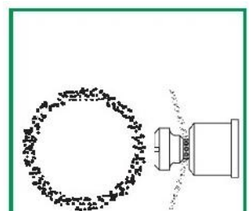
*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions					
		Liquid Pressure																					
		0.7			1.5			2			3			4									
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A' (cm)	B (cm)	C (cm)	D (m)
SU29	Fluid Cap 60100 + 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	2.0	.70	20	25	33	5.5
		1.5	29	102	2.4	51	130	3.2	50	163	4.9	51	230	6.0	68	260	3.0	1.5	20	27	34	6.4
		1.8	23	117	2.7	45	143	3.4	47	170	5.6	40	265	6.3	62	280	3.9	2.0	22	28	37	8.2
		2.0	19.7	125	3.0	39	157	3.5	45	177	6.0	34	285	6.7	56	295	6.0	3.0	23	29	38	9.1
		2.1	16.7	133	3.2	33	170	3.9	38	194	6.3	28	300	7.0	51	315	6.3	4.0	24	32	41	10.4
		2.3	14.0	142	3.5	28	185	4.6	25	230	6.7	22	320	–	–	–						
		2.4	11.4	149	4.2	13.6	220	4.9	18.5	245	7.0	17.8	335	–	–	–						
SU30	Fluid Cap 40100 + 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	1.5	.70	15	19	23	2.7
		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	3.0	1.5	16	20	24	4.6
		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	3.4	2.0	16	20	24	5.5
		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	5.3	3.0	18	22	25	7.3
		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	6.3	4.0	19	24	30	9.4
		1.8	3.9	62	3.2	5.5	91	3.9	6.4	105	6.0	4.9	157	–	–	–						
		2.0	3.1	67	3.4	4.7	95	4.2	4.7	115	6.3	4.0	167	–	–	–						
SU46	Fluid Cap 100150 + 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	.70	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	–	–	–	–	–	–						

360° Circular Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*											
		Liquid Pressure											
		0.7			1.5			2			3			4		
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min
SU340C	Fluid Cap 60150 + Air Cap 189-6-62-160HC	1.4	15.1	69	2.8	19.5	142	3.5	21	185	4.2	48	210	6.0	45	340
		1.5	10.6	77	3.0	16.1	153	3.7	17.6	196	4.6	37	240	6.3	37	375
		1.7	7.6	84	3.1	13.2	165	3.8	14.8	210	4.9	28	275	6.7	30	405
		1.8	5.7	93	3.2	10.6	177	3.9	12.5	220	5.6	15.5	340	7.0	24	440
		2.0	4.2	103	3.4	8.3	188	4.2	8.1	245	6.3	7.8	425	–	–	–



360° circular spray pattern

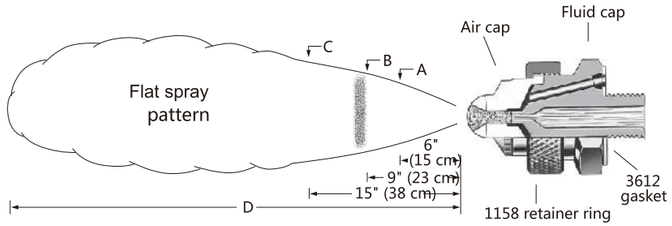
Raha Spray Solutions

Air Caps

Flat spray and deflected flat spray air caps produce flat or deflected flat spray patterns.

DESIGN FEATURES

- For flat spray pattern, dimensions "A", "B" and "C" are the pattern widths at distances from the nozzle.
- The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed internally to produce a a completely atomized spray.



1158 retainer ring and 3612 gasket must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Flat Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														Spray Dimensions					
		Liquid Pressure																			
		0.7			1.5			2			3			4							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SU13A	Fluid Cap 2050 + Air Cap 73328	.70	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	.70	25	36	46	2.6
		.85	4.7	27	1.5	7.7	36	2.2	7.5	47	3.0	10.1	56	4.6	9.7	81						
		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	2.1	1.5	36	48	66	3.0
		1.1	3.5	34	2.1	5.4	47	2.8	5.2	57	3.5	8.1	66	6.0	5.3	104	2.8	2.0	38	53	76	3.2
		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						
		1.4	2.5	40	2.7	3.3	57	3.2	3.7	65	4.6	4.2	85	6.7	3.3	116	3.5	3.0	47	61	86	3.4
		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	6.0	4.0	56	74	94	4.0
SU13	Fluid Cap 2850 + Air Cap 73328	.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	.70	36	46	71	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						
		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	2.1	1.5	43	61	81	2.4
		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	3.0	2.0	51	66	89	2.6
		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						
		–	–	–	2.4	6.1	46	3.4	4.0	63	4.6	5.9	79	6.3	5.6	104	3.5	3.0	58	76	97	2.7
		–	–	–	2.5	5.1	49	3.5	3.3	66	4.9	4.0	86	6.7	4.3	112	5.6	4.0	58	76	97	3.2
SUN13	Fluid Cap 2850 + 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	.70	10	13	17	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						
		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	2.5	1.5	13	15	20	3.7
		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	3.2	2.0	13	17	22	4.0
		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	3.8	3.0	15	22	28	4.2
		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						
		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	5.3	4.0	20	25	33	4.8

Raha Spray Solutions

SPECIFICATIONS

Flat Spray

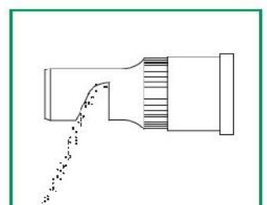
*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														Spray Dimensions					
		Liquid Pressure																			
		0.7			1.5			2			3			4							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SU14	Fluid Cap 2850 + 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	.70	25	33	46	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						
		1.5	2.3	35	2.5	4.4	47	3.2	4.5	57	4.6	5.3	73	6.0	6.6	89	2.7	1.5	36	51	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	3.2	2.0	58	74	91	2.0
		1.8	1.3	41	2.8	3.1	52	3.5	3.2	62	–	–	–	–	–	–	4.2	3.0	61	74	94	2.1
		2.0	.95	44	3.0	2.6	55	3.9	1.8	68	–	–	–	–	–	–	5.6	4.0	64	76	97	2.3
		–	–	–	3.1	2.1	57	–	–	–	–	–	–	–	–	–						
SUN23	Fluid Cap 60100 + 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	.70	10	13	15	2.4
		1.1	11.0	27	2.1	18.9	50	2.5	23	59	3.5	33	80	4.2	53	89						
		1.3	7.6	33	2.2	14.4	56	2.7	18.9	66	3.7	28	89	4.6	40	108	2.1	1.5	10	13	17	3.0
		1.4	3.2	40	2.4	10.6	63	2.8	15.1	74	3.8	23	97	4.9	30	127	2.8	2.0	13	17	22	3.4
		–	–	–	2.5	7.2	71	3.0	11.7	79	3.9	19.7	105	5.3	21	149	3.7	3.0	15	20	28	3.6
		–	–	–	–	–	–	–	–	–	4.2	13.1	120	5.6	13.8	173	4.9	4.0	20	25	35	4.0
		–	–	–	–	–	–	–	–	–	4.6	7.2	138	6.3	3.2	225						
SU23B	Fluid Cap 40100 + 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	.70	15	18	20	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	33	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	46	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	48	4.0
		–	–	–	–	–	–	–	–	–	4.2	17.0	137	6.3	12.4	200						
SU23	Fluid Cap 60100 + Air Cap 125328	.85	27	33	1.8	38	55	2.4	39	67	3.2	58	76	4.6	59	106	1.1	.70	18	23	30	3.4
		1.0	20	38	2.1	28	66	2.7	30	77	3.5	47	87	5.3	40	132						
		1.1	15.9	45	2.2	24	71	3.0	24	87	3.8	38	97	5.6	32	145	2.4	1.5	23	30	41	3.5
		1.3	12.5	48	2.4	21	76	3.2	17.8	98	3.9	34	103	6.0	26	158	3.2	2.0	25	33	43	3.7
		1.4	10.2	56	2.5	17.8	82	3.4	15.1	103	4.2	27	113	6.3	20	172	3.9	3.0	30	38	48	3.8
		1.5	7.6	62	2.7	15.1	87	3.5	12.9	109	4.6	20	126	6.7	15.9	185	6.0	4.0	33	41	51	4.4
		–	–	–	–	–	–	3.7	10.6	114	4.9	14.8	140	7.0	12.7	198						
SU43	Fluid Cap 100150 + 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	.70	18	20	25	3.4
		1.1	18.9	108	2.0	40	133	2.2	79	133	3.1	110	151	4.2	125	193						
		–	–	–	–	–	–	2.4	62	147	3.2	95	163	4.6	89	225	1.8	1.5	25	30	43	3.8
		–	–	–	–	–	–	2.5	48	162	3.4	78	184	4.9	58	265	2.4	2.0	25	30	46	4.3
		–	–	–	–	–	–	2.7	36	177	3.5	62	193	5.3	34	305	3.4	3.0	33	41	53	4.6
		–	–	–	–	–	–	–	–	–	3.7	48	210	5.6	16.7	340	4.9	4.0	36	43	58	5.2
		–	–	–	–	–	–	–	–	–	3.8	37	225	–	–	–						

Deflected Flat Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														
		Liquid Pressure														
		0.7			1.5			2			3			4		
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min
SU240E	Fluid Cap 28150 + Air Cap 189110-75*	.40	11.0	45	1.1	14.5	79	1.5	15.7	96	2.1	20	114	2.7	26	133
		.60	9.5	54	1.3	13.2	86	1.7	14.3	104	2.2	19.2	121	3.2	22	160
		.70	7.6	65	1.4	11.8	95	1.8	12.9	112	2.7	15.8	146	3.8	17.7	186
		.80	5.7	77	1.5	10.0	103	2.1	9.8	130	3.1	11.8	173	4.4	13.1	230
		–	–	–	1.7	8.7	113	2.2	8.3	142	3.2	10.3	183	4.6	10.2	250



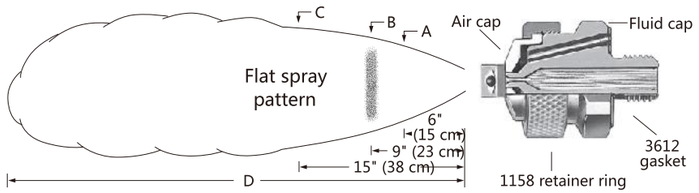
Deflected flat spray pattern

Air Caps

External mix air caps produce a flat spray pattern.

DESIGN FEATURES

- Atomization can be controlled by varying the air pressure without changing liquid flow rate with external mix set-ups.
- For flat spray, dimensions "A", "B" and "C" are the pattern widths at distances from the nozzle..
- The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed externally to produce a completely atomized spray.



1158 retainer ring and 3612 gasket must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Flat Spray (External Mix)

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions					
		Liquid Pressure																					
		0.2			0.3			0.7			1.5			3									
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SUE15B	Fluid Cap 1650 + Air Cap 67228-45°	.20	2.8	25.2	3.5	3.5	26.3	.70	5.3	31.2	1.4	7.8	45.3	2.8	11.0	73.6	.20	.20	9.0	15.0	23	.90
		.35	2.8	26.3	.70	3.5	31.2	1.05	5.3	39.6	1.75	7.8	53.8	3.5	11.0	85	1.05	.20	9.0	15.0	23	1.2
		.70	2.8	31.2	1.05	3.5	39.6	1.4	5.3	45.3	2.1	7.8	59.5	4.2	11.0	102	1.4	.35	10.0	15.0	23	1.2
		1.05	2.8	39.6	1.4	3.5	45.3	1.75	5.3	53.8	2.8	7.8	73.6	4.9	11.0	119	1.4	1.4	11.5	18.0	25	1.5
		1.4	2.8	45.3	1.75	3.5	53.8	2.1	5.3	59.4	3.5	7.8	85	5.3	11.0	127.5	1.75	.70	11.5	15.0	24	1.5
		1.75	2.8	53.8	2.1	3.5	59.4	2.8	5.3	73.6	4.2	7.8	102	5.6	11.0	139	2.8	1.4	13.0	18.0	28	1.8
		2.1	2.8	59.4	2.8	3.5	73.6	3.5	5.3	85	5.6	7.8	139	6.3	11.0	159	4.9	2.8	15.0	18.0	24	2.4

SPECIFICATIONS

Flat Spray (External Mix)

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*																Spray Dimensions					
		Liquid Pressure																					
		0.2			0.3			0.7			1.5			3									
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SUE15A	Fluid Cap 2050 + Air Cap 67228-45°	.35	4.5	26.3	.70	5.5	31.2	1.05	8.3	39.6	1.75	12.2	53.8	3.15	16.6	82	.35	.20	7.5	14.0	22	1.0
		.70	4.5	31.2	1.05	5.5	39.6	1.4	8.3	45.3	2.1	12.2	59.4	3.5	16.6	85	1.4	.20	9.0	15.0	22	1.7
		1.05	4.5	39.6	1.4	5.5	45.3	1.75	8.3	53.8	2.8	12.2	73.6	4.2	16.6	102	1.75	.35	10.0	16.5	23	1.8
		1.4	4.5	45.3	1.75	5.5	53.8	2.1	8.3	59.4	3.5	12.2	85	4.9	16.6	119	1.75	1.4	13.0	19.0	29	2.1
		1.75	4.5	53.8	2.1	5.5	59.4	2.8	8.3	73.6	4.2	12.2	102	5.25	16.6	127	2.1	.70	13.0	18.0	25	1.8
		2.1	4.5	59.4	2.8	5.5	73.6	3.5	8.3	85	4.9	12.2	119	6.3	16.6	159	3.5	1.4	13.0	22	30	2.4
		2.8	4.5	73.6	3.5	5.5	85	4.2	8.3	102	6.3	12.2	159	6.7	16.6	164	5.3	2.8	15.0	19.0	25	3.0
SUE18A	Fluid Cap 2050 + Air Cap 62240-60°	.35	4.5	22	.35	5.5	22	.60	8.3	28	.70	12.2	34	1.1	16.6	45	.70	.30	28	33	40	1.5
		.60	4.5	28	.70	5.5	34	.70	8.3	34	1.4	12.2	54	1.4	16.6	54	1.1	.70	30	38	48	2.1
		.70	4.5	34	1.1	5.5	45	1.4	8.3	54	2.1	12.2	71	2.1	16.6	71	.70	1.5	38	46	58	1.8
		1.1	4.5	45	1.4	5.5	54	2.1	8.3	71	2.5	12.2	79	2.5	16.6	79	1.4	1.5	35	43	56	2.4
																	2.5	1.5	33	40	51	3.0
																	1.8	2.0	38	46	58	2.7
																	1.8	3.0	41	48	66	2.9
SUE15	Fluid Cap 2850 + Air Cap 67228-45°	.70	8.5	31.2	1.05	10.4	39.6	1.4	15.9	45.3	2.5	23	68	3.5	33	85	.70	.20	13.0	16.5	25	1.2
		1.05	8.5	39.6	1.4	10.4	45.3	1.75	15.9	53.8	2.8	23	73.6	4.2	33	102	1.75	.20	13.0	16.5	25	1.8
		1.4	8.5	45.3	1.75	10.4	53.8	2.1	15.9	59.4	3.5	23	85	4.9	33	119	2.1	.35	13.0	18.0	24	1.8
		1.75	8.5	53.8	2.1	10.4	59.4	2.8	15.9	73.6	4.2	23	102	5.3	33	127	2.5	1.4	14.0	20	32	1.8
		2.1	8.5	59.4	2.8	10.4	73.6	3.5	15.9	85.0	4.9	23	119	5.6	33	139	2.8	.70	14.0	19.0	30	2.3
		2.8	8.5	73.6	3.5	10.4	85	4.2	15.9	102	5.6	23	139	6.3	33	159	4.2	1.4	14.0	20	36	3.0
		3.5	8.5	85	4.2	10.4	102	4.9	15.9	119	6.3	23	159	7.0	33	176	5.3	2.8	16.5	20	30	4.0
SUE18	Fluid Cap 2850 + Air Cap 62240-60°	.40	8.5	25	.40	10.4	25	.40	15.9	25	.70	23	34	1.4	33	54	.60	.30	35	48	61	1.8
		.50	8.5	27.5	.60	10.4	28	.60	15.9	28	.85	23	40	1.8	33	62	.60	.70	35	48	63	1.5
		.60	8.5	28	.65	10.4	31	.70	15.9	34	1.1	23	45	2.1	33	71	.70	1.5	38	48	63	1.8
		.70	8.5	34	.70	10.4	34	.85	15.9	40	1.4	23	54	2.5	33	79	1.1	1.5	41	51	66	2.1
																	1.4	1.5	43	53	66	2.4
																	1.8	2.0	41	51	69	2.7
																	2.1	3.0	41	51	69	2.9

Raha Spray Solutions

SPECIFICATIONS

Flat Spray (External Mix)

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														Spray Dimensions					
		Liquid Pressure																			
		0.2			0.3			0.7			1.5			3							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SUE25B	Fluid Cap 35100 + Air Cap 134255-45°	.70	13.4	85	1.0	16.4	102	1.4	25	116	2.5	37	178	3.2	52	212	.70	.20	13.0	19.0	25	1.7
		1.0	13.4	102	1.4	16.4	116	1.8	25	139	2.8	37	195	3.5	52	232	1.8	.20	13.0	19.0	25	2.7
		1.4	13.4	116	1.8	16.4	139	2.1	25	156	3.5	37	227	3.9	52	255	2.1	.35	15.0	19.0	28	3.0
		1.8	13.4	139	2.1	16.4	156	2.5	25	178	4.2	37	266	4.2	52	275	2.5	.70	15.0	22	28	3.5
		2.1	13.4	156	2.8	16.4	195	2.8	25	195	4.9	37	312	4.9	52	314	2.5	1.4	16.5	23	36	3.7
		2.8	13.4	195	3.5	16.4	227	3.5	25	227	5.6	37	360	5.6	52	360	4.2	1.4	16.5	23	37	4.3
		3.5	13.4	227	4.2	16.4	266	4.2	25	266	6.3	37	411	6.3	52	411	4.9	2.8	16.5	22	32	4.9
SUE28B	Fluid Cap 35100 + Air Cap 122281-60°	.60	13.4	91	.70	16.4	102	1.4	25	156	2.1	37	210	3.2	52	285	1.4 2.1	.30 .70	33 33	38 40	48 56	3.8 4.3
		.70	13.4	102	1.1	16.4	130	2.1	25	210	2.8	37	260	4.2	52	360	2.1 3.2	1.5 1.5	35 38	46 48	58 66	4.0 4.6
		1.1	13.4	130	1.8	16.4	184	2.5	25	235	3.5	37	310	5.3	52	430	4.2 3.9	1.5 2.0	38 41	48 51	64 69	5.2 4.6
		1.4	13.4	156	2.1	16.4	210	2.8	25	260	4.2	37	360	5.6	52	455	4.2	3.0	38	51	71	4.9
SUE25A	Fluid Cap 40100 + Air Cap 134255-45°	.70	17.6	85	1.4	22	116	1.8	33	139	2.8	48	195	3.5	68	232	.70	.35	15.0	19.0	27	2.1
		1.0	17.6	102	1.8	22	139	2.1	33	156	3.2	48	212	4.2	68	275	1.8	.70	15.0	19.0	27	3.0
		1.4	17.6	116	2.1	22	156	2.5	33	178	3.5	48	227	4.9	68	314	2.5	1.4	15.0	22	33	3.4
		1.8	17.6	139	2.5	22	178	2.8	33	195	4.2	48	266	5.3	68	340	2.8	1.4	15.0	22	36	3.8
		2.1	17.6	156	2.8	22	195	3.5	33	227	4.9	48	312	5.6	68	360	2.8	1.4	16.5	25	37	4.0
		2.8	17.6	195	3.5	22	227	4.2	33	266	5.6	48	360	6.3	68	411	4.2	2.1	16.5	25	37	4.9
		3.5	17.6	227	4.2	22	266	4.9	33	312	6.3	48	411	6.6	68	428	5.3	2.8	18.0	23	36	5.8
SUE28A	Fluid Cap 40100 + Air Cap 122281-60°	.60	17.6	91	.70	22	102	1.1	33	130	2.5	48	235	3.5	68	310	1.1 1.8	.20 .70	33 35	38 48	51 64	3.5 3.0
		1.1	17.6	130	1.4	22	156	1.8	33	184	3.2	48	285	4.6	68	380	2.5 3.2	1.5 1.5	38 33	46 43	64 61	3.8 4.3
		1.4	17.6	156	1.8	22	184	2.5	33	235	3.9	48	330	6.0	68	475	4.2 4.2	1.5 2.0	30 33	43 43	58 61	4.9 5.2
		1.8	17.6	184	2.1	22	210	2.8	33	260	4.2	48	360	6.7	68	525	4.9	3.0	33	43	61	4.0
SUE28	Fluid Cap 60100 + Air Cap 122281-60°	.70	36	102	1.1	45	130	1.8	68	184	3.2	100	285	5.3	141	430	2.1 2.8	.30 .70	40 46	56 58	76 81	3.0 4.0
		1.1	36	130	1.4	45	156	2.1	68	210	3.5	100	310	6.0	141	475	3.2 4.6	1.5 1.5	48 43	58 53	79 76	4.3 4.9
		1.4	36	156	2.1	45	210	2.8	68	260	4.9	100	405	6.7	141	525	5.6 3.9	1.5 2.0	38 48	51 64	66 84	5.8 4.3
		1.8	36	184	2.5	45	235	3.2	68	285	5.9	100	455	7.0	141	550	6.3	3.0	41	56	79	5.8

AIR ATOMIZING SPRAY NOZZLES

PRESSURE SPRAY SET-UP EXTERNAL MIX
1/8J AND 1/4J SERIAL

Raha Spray Solutions

SPECIFICATIONS

Flat Spray (External Mix)

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														Spray Dimensions					
		Liquid Pressure																			
		0.2			0.3			0.7			1.5			3							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SUE25	Fluid Cap 60100 + Air Cap 134255-45°	1.0	36	102	1.8	45	139	2.5	68	178	3.2	100	212	3.9	141	255	1.0	.20	15.0	20	25	2.7
		1.4	36	116	2.1	45	156	2.8	68	195	3.5	100	227	4.2	141	275	2.1	.20	15.0	22	29	3.0
		1.8	36	139	2.5	45	178	3.2	68	212	3.9	100	246	4.6	141	297	2.8	.35	18.0	24	36	3.5
		2.1	36	156	2.8	45	195	3.5	68	227	4.2	100	266	4.9	141	314	3.2	1.4	20	28	39	3.7
		2.5	36	178	3.2	45	212	4.2	68	266	4.9	100	312	5.6	141	360	3.5	.70	19.0	27	38	4.0
		2.8	36	195	3.5	45	227	4.9	68	312	5.6	100	360	6.3	141	411	4.2	1.4	20	28	39	4.3
		3.5	36	227	4.2	45	266	5.6	68	360	6.3	100	411	7.0	141	453	5.6	2.8	18.0	24	38	5.9
SUE45B	Fluid Cap 60150 + Air Cap 200278-45°	1.8	36	235	1.8	45	235	2.5	68	300	3.9	100	410	–	–	–	1.8	.20	15.0	20	29	3.0
		2.1	36	260	2.1	45	260	2.8	68	330	4.2	100	445	–	–	–	2.8	.20	15.0	20	30	3.4
		2.5	36	300	2.5	45	300	3.2	68	355	4.6	100	480	–	–	–	2.8	.30	15.0	20	30	4.0
		2.8	36	330	2.8	45	330	3.5	68	380	4.9	100	529	–	–	–	3.5	.70	17.0	22	32	4.3
		3.2	36	355	3.2	45	355	3.9	68	410	5.3	100	565	–	–	–	3.9	1.5	17.0	22	34	4.6
		3.5	36	380	3.5	45	380	4.2	68	445	5.6	100	600	–	–	–	4.2	1.0	17.0	23	33	4.7
		4.2	36	445	4.2	45	445	4.9	68	520	6.3	100	685	–	–	–	4.9	1.5	17.0	23	34	5.5
SUE45A	Fluid Cap 80150 + Air Cap 200278-45°	2.1	64	260	2.8	78	330	3.9	119	410	4.9	175	520	–	–	–	2.1	.20	17.0	24	34	3.5
		2.5	64	300	3.2	78	355	4.2	119	445	5.3	175	565	–	–	–	3.2	.20	18.0	24	36	4.3
		2.8	64	330	3.5	78	380	4.6	119	480	5.6	175	600	–	–	–	3.9	.30	18.0	25	36	4.9
		3.2	64	355	3.9	78	410	4.9	119	520	6.0	175	640	–	–	–	4.9	.70	18.0	25	36	5.5
		3.5	64	380	4.2	78	445	5.3	119	565	6.3	175	685	–	–	–	4.9	1.5	20	25	38	5.5
		4.2	64	445	4.9	78	520	5.6	119	600	–	175	–	–	–	–	5.3	1.0	18.0	25	38	5.8
		4.9	64	520	5.6	78	600	6.3	119	685	–	175	–	–	–	–	5.6	1.5	20	25	38	6.1
SUE45	Fluid Cap 100150 + Air Cap 200278-45°	2.8	102	330	3.5	125	380	4.6	192	480	5.6	280	600	–	–	–	2.8	.20	19.0	25	36	4.6
		3.2	102	355	3.9	125	410	4.9	192	520	6.0	280	640	–	–	–	3.9	.20	20	25	37	4.9
		3.5	102	380	4.2	125	445	5.3	192	565	6.3	280	685	–	–	–	4.6	.30	20	25	37	5.2
		3.9	102	410	4.6	125	480	5.6	192	600	–	280	–	–	–	–	5.3	.70	22	27	38	5.5
		4.2	102	445	4.9	125	520	6.0	192	640	–	280	–	–	–	–	5.6	1.0	22	27	41	5.5
		4.6	102	480	5.3	125	565	6.3	192	685	–	280	–	–	–	–	5.6	1.5	22	27	41	5.8
		4.9	102	520	5.6	125	600	–	192	–	–	280	–	–	–	–	6.0	1.5	22	27	41	6.1

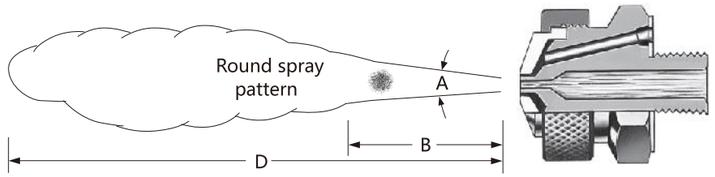
Raha Spray Solutions

Air Caps

Round spray and flat spray air caps produce round spray and flat spray patterns.

SPECIFICATIONS

- For round and flat sprays, angle "A" is maintained throughout distance "B" Beyond "B", the spray becomes turbulent and will project out to distance "D".
- When using a siphon or gravity-fed liquid system, the liquid is supplied by either a liquid siphon or a gravity-feed.
- Designed to draw liquid through the feed line into the atomized air flow.



1158 retainer ring and 3612 gasket must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Flat Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Atomizing Air		Liquid Capacity (liters per hour)*								Spray Dimensions at 20 cm Siphon Height				
		Air Press.	Air Capacity l/min	Gravity Head (cm)			Siphon Height (cm)					Air*	A (cm)	B (cm)	C (cm)	D (m)
				45	30	15	10	20	30	60	90					
SUF1	Fluid Cap 2850 + Air Cap 73420	.70	28	1.3	1.2	1.1	1.0	.95	.83	.64	.49	.70	20	26	38	2.1
		1.5	43	1.2	1.1	1.0	.90	.86	.78	.66	.54	1.5	21	29	38	2.1
		2.0	50	.82	.76	.68	.57	.50	–	–	–	2.0	23	30	38	1.8
SUF2C	Fluid Cap 35100 + Air Cap 120432	1.5	56	3.7	3.5	3.3	2.9	2.8	2.5	2.3	2.1	1.5	23	32	38	2.7
		2.0	65	3.4	3.3	3.1	2.8	2.7	2.6	2.4	2.2	2.0	24	34	42	2.7
		3.0	87	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7	3.0	27	37	46	3.0
		4.0	110	1.9	1.8	1.6	1.5	1.3	1.2	–	–	4.0	28	39	48	2.7
SUF3B	Fluid Cap 40100 + Air Cap 122435	1.5	68	5.1	4.8	4.5	3.8	3.7	3.5	3.0	2.4	1.5	19	23	27	3.4
		2.0	78	4.9	4.7	4.4	3.6	3.4	3.2	2.9	2.3	2.0	20	25	28	3.4
		3.0	103	3.4	3.2	3.0	2.2	2.0	1.7	–	–					
		3.5	117	2.2	2.0	1.7	–	–	–	–	–	3.0	22	27	30	3.0
SUF4B	Fluid Cap 40100 + Air Cap 122440	1.5	63	7.6	7.2	6.6	5.7	5.4	5.1	4.6	3.7	1.5	17	22	27	3.4
		2.0	73	7.6	7.3	6.8	5.9	5.7	5.5	5.0	4.2	2.0	18	23	29	3.4
		3.0	96	6.4	6.1	5.7	5.0	4.5	4.1	3.3	–					
		3.5	110	4.2	3.7	3.2	2.6	–	–	–	–	3.0	20	27	33	3.4

AIR ATOMIZING SPRAY NOZZLES

SIPHON/GRAVITY-FED SPRAY SET-UPS,
EXTERNAL MIX, 1/8J AND 1/4J SERIALS

Raha Spray Solutions

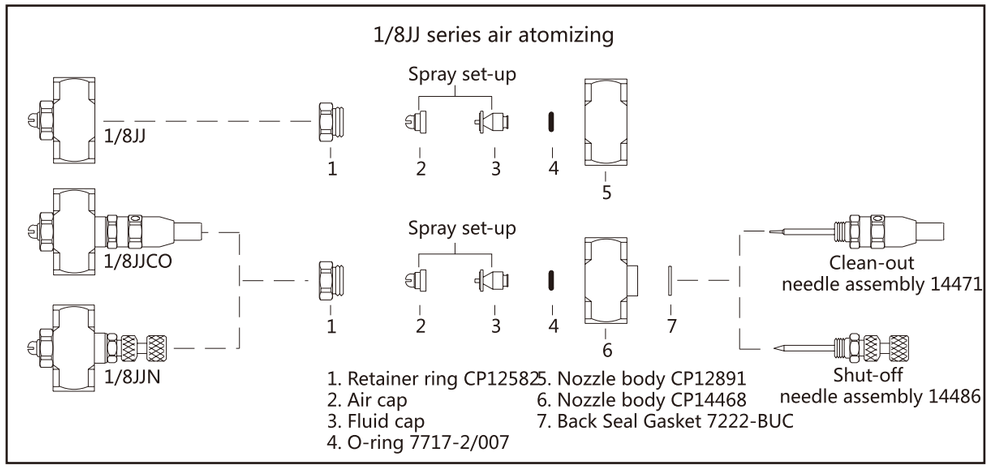
SPECIFICATIONS

Round Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Atomizing Air		Liquid Capacity (liters per hour)*								Spray Dimensions at 20 cm Siphon Height			
		Air Press.	Air Capacity l/min	Gravity Head (cm)			Siphon Height (cm)					Air*	Spray Angle A (°)	B (cm)	D (m)
				45	30	15	10	20	30	60	90				
SU1A	Fluid Cap 1650 + Air Cap 64	.70	11.3	1.5	1.3	1.1	.87	.68	.53	–	–	.70	18	28	1.8
		1.5	17.0	1.8	1.7	1.5	1.3	1.2	1.1	.62	–	1.5	18	28	1.9
		3.0	28	2.1	1.9	1.7	1.5	1.4	1.3	1.1	.76	3.0	18	30	2.3
		4.0	36	2.2	2.0	1.8	1.6	1.5	1.4	1.2	.87	4.0	18	36	2.6
SU1	Fluid Cap 2050 + Air Cap 64	.70	13.3	2.4	2.1	1.7	1.5	1.2	.79	–	–	.70	18	30	2.1
		1.5	20	2.8	2.6	2.4	2.1	1.9	1.6	.91	–	1.5	18	33	2.3
		3.0	32	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	3.0	18	38	2.6
		4.0	41	3.7	3.4	3.3	3.1	2.9	2.7	2.1	1.5	4.0	19	43	3.0
SU2A	Fluid Cap 2050 + Air Cap 70	.70	23	2.5	2.3	2.0	1.6	1.4	1.1	–	–	.70	18	30	2.4
		1.5	36	2.9	2.8	2.5	2.2	2.0	1.7	.89	–	1.5	18	33	2.7
		3.0	58	3.4	3.3	3.2	2.9	2.8	2.5	1.9	1.2	3.0	19	38	3.4
		4.0	74	3.7	3.6	3.5	3.4	3.3	3.0	2.5	2.0	4.0	20	43	4.0
SU2	Fluid Cap 2850 + Air Cap 70	.70	19.3	4.5	4.0	3.4	2.1	1.8	1.4	–	–	.70	21	38	3.0
		1.5	31	5.3	4.9	4.4	3.5	2.9	2.7	1.8	–	1.5	21	41	3.4
		3.0	50	6.0	5.6	5.0	4.4	4.0	3.4	2.4	1.2	3.0	21	46	4.0
		4.0	65	5.7	5.4	5.0	4.2	3.9	3.5	2.8	1.9	4.0	22	51	4.6
SU4	Fluid Cap 60100 + Air Cap 120	1.5	58	22	19.9	16.3	12.3	10.5	8.3	2.8	–	1.5	17	46	3.7
		3.0	88	25	23	19.5	16.7	14.2	11.5	6.4	2.8	3.0	18	51	4.3
		4.0	111	26	24	21	18.4	15.7	12.9	7.9	4.5	4.0	18	53	4.9
		5.6	147	26	24	22	19.7	17.0	14.6	9.8	6.1	5.6	19	58	5.5
SU5	Fluid Cap 100150 + Air Cap 180	2.0	144	–	–	–	27	22	16.8	–	–	2.0	20	51	6.7
		3.0	190	–	–	–	30	26	21	–	–	3.0	20	53	7.0
		4.0	240	–	43	40	31	28	23	11.0	–	4.0	21	58	7.6
		5.6	315	44	42	39	31	28	24	16.7	8.3	5.6	22	63	8.2

OVERVIEW, 1/8JJ COMPACT SERIES



DESIGN FEATURES

- Nozzle assembly consists of a body and spray set-up.
- Various assemblies can be added to provide shut-off or clean-out functions.
- 1/8JJ has liquid and air feeds at opposite ends of the body.
- 1/8JJN features a manual shut-off needle that enables the flow of liquid to be stopped.
- 1/8JJCO features a clean-out needle that is activated manually.
  - Needle slides through the liquid orifice to clear obstructions.
  - Ideal for intermittent spraying applications when liquid can dry in the orifice between uses.

1/8JJ

1/8" NPT or BSPT

1/8JJN

1/8" NPT or BSPT with shut-off needle

1/8JJCO

1/8" NPT or BSPT with clean-out needle

Ordering Info

Complete Nozzle Assembly

Nozzle Body* — Spray Set-up

1/8	JJN	–	SS	+	SUJ12A	–	SS
Inlet Conn.	Nozzle Body Assembly Type		Material Code		Spray Set-up No.		Material Code

Spray Set-up Only

Spray Set-up

SUJ12A	–	SS
Spray Set-up No.		Material Code

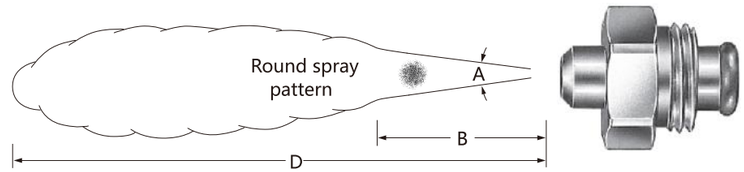
PRESSURE SPRAY SET-UPS, INTERNAL MIX, 1/8JJ COMPACT SERIALS

Air Caps

Round spray and 360° circular spray air caps produce full cone round spray pattern.

DESIGN FEATURES

- For round spray pattern, angle "A" is maintained throughout distance "B". Beyond "B", the spray becomes turbulent and will project out to distance "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed internally to produce a completely atomized spray.



12582 retainer ring and 7717-2/007 O-ring must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Round Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*															Spray Dimensions				
		Liquid Pressure																			
		0.7			1.5			2			3			4							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	Spray Angle A (°)	B (cm)	D (m)
SUJ11	Fluid Cap J2050 + Air Cap J67147	.70	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	.85	.70	13	30	2.7
		.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	1.7	1.5	13	33	3.0
		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	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
		–	–	–	2.2	2.0	27	2.7	2.3	31	3.7	3.0	38	4.8	3.7	47	4.5	4.0	15	44	4.4
SUJ12A	Fluid Cap J2050 + Air Cap J73160	.70	2.5	18.7	1.4	5.7	27	1.7	6.7	29	2.2	9.2	34	2.8	11.9	39	.85	.70	12	43	3.7
		.85	2.0	22	1.5	5.2	29	1.8	6.4	31	2.5	8.2	39	3.1	11.0	43	1.5	1.5	13	46	4.0
		1.0	1.6	26	1.7	4.8	32	2.0	5.9	34	2.8	7.2	44	3.4	10.1	47	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	2.7	3.6	48	3.4	5.5	55	4.5	6.8	68	3.9	4.0	15	56	5.2

Raha Spray Solutions

SPECIFICATIONS

Round Spray

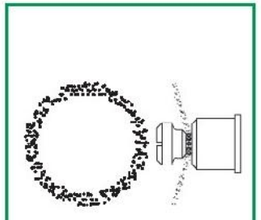
*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)* at Liquid Pressure 0.7			1.5			2			3			4			Spray Dimensions Air*	Liquid*	Spray Angle A (°)	B (cm)	D (m)
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min					
SUJ12	Fluid Cap J2850 + Air Cap J73160	.85	4.8	21	1.7	8.4	31	2.0	10.7	33	2.7	16.5	37	3.4	20	43	1.5	.70	12	48	4.0
		1.1	4.1	27	1.8	7.5	35	2.1	9.8	37	2.8	15.4	38	3.7	18.4	47	2.5	1.5	13	51	4.3
		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	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
		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	4.2	4.0	15	60	5.3
SUJ22B	Fluid Cap J40100 + Air Cap J1401110	1.1	13.0	76	2.2	17.8	116	2.8	20	136	3.4	32	149	4.6	37	190	1.7	.70	18	66	4.9
		1.4	8.9	91	2.5	13.1	130	3.1	16.3	149	3.9	25	170	5.3	29	220	2.8	1.5	20	76	6.1
		1.5	7.2	98	2.8	9.5	143	3.4	11.9	163	4.6	15.9	205	5.6	25	235	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
		2.1	2.7	127	3.5	4.2	178	4.6	3.0	220	6.3	3.6	290	7.0	11.0	305	6.0	4.0	21	97	9.1
SUJ22	Fluid Cap J60100 + Air Cap J1401110	.85	31	57	1.4	61	69	2.1	53	96	2.7	80	103	3.8	88	135	1.0	.70	17	61	4.9
		1.0	25	66	1.5	54	76	2.4	41	112	3.0	69	117	4.2	73	156	1.8	1.5	18	69	5.8
		1.1	18.5	75	1.7	48	85	2.7	31	127	3.2	59	130	4.6	61	176	2.8	2.0	20	76	6.7
		1.3	12.9	85	2.0	35	102	2.8	26	136	3.7	44	154	5.3	39	215	3.5	3.0	20	79	7.0
		–	–	–	2.2	25	119	3.0	22	144	3.9	35	170	6.0	23	260	4.9	4.0	21	91	8.5

360° Circular Spray†

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)* at Liquid Pressure 0.7			1.5			2			3			4		
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min
SUJ340C	Fluid Cap J60100 + Air Cap J150-6-62-160HC	1.4	15.1	69	2.8	19.5	142	3.5	21	185	4.2	48	210	6.0	45	340
		1.5	10.6	77	3.0	16.1	153	3.7	17.6	196	4.6	37	240	6.3	37	375
		1.7	7.6	84	3.1	13.2	165	3.8	14.8	210	4.9	28	275	6.7	30	405
		1.8	5.7	93	3.2	10.6	177	3.9	12.5	220	5.6	15.5	340	7.0	24	440
		2.0	4.2	103	3.4	8.3	188	4.2	8.1	245	6.3	7.8	425	–	–	–



360° circular spray pattern

†Use only with 1/8JJAU automatic air atomizing nozzles.

AIR ATOMIZING SPRAY NOZZLES

PRESSURE SPRAY SET-UPS, INTERNAL MIX,
1/8JJ COMPACT SERIALS

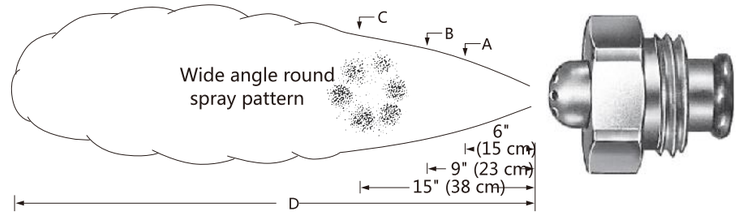
Raha Spray Solutions

Air Caps

Wide angle round and flat spray air caps produce hollow cone type, wide angle round spray and flat spray patterns.

DESIGN FEATURES

- For wide angle round and flat sprays, dimensions "A", "B" and "C" are the pattern widths at distances from the nozzle.
- The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".
- When using a pressure-fed liquid system, the liquid is supplied to the nozzle under pressure.
- The liquid and compressed air or gas are mixed internally to produce a completely atomized spray dispersal point is represented by "D".



12582 retainer ring and 7717-2/007 O-ring must be ordered separately from the spray set-up, but are included in the standard nozzle assembly. Please contact your sales engineer.

SPECIFICATIONS

Wide Angle Round Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)* at Liquid Pressure 0.7			1.5			2			3			4			Spray Dimensions Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min						
SUJ16	Fluid Cap J2050 + Air Cap J67-6-20-70°	.60	5.3	10.2	1.1	8.1	13.3	1.5	8.1	16.4	2.4	8.9	22	3.1	10.5	24	.70	.70	14	18	23	1.5
		.70	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
		.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	1.7	4.5	22	2.4	3.2	29	3.4	4.2	37	4.6	4.4	47	3.0	3.0	16	20	26	2.7
		–	–	–	1.8	3.5	24	–	–	–	3.5	3.4	40	4.9	2.8	54	3.9	4.0	19	23	30	4.0
SUJ26B	Fluid Cap J40100 + Air Cap J140-6-37-70°	.85	7.0	50	1.7	13.2	68	2.0	18.5	68	2.8	25	84	3.7	31	96	.85	.70	18	24	31	1.8
		1.0	2.1	62	1.8	9.8	79	2.1	15.1	76	3.0	22	92	3.8	28	105	1.7	1.5	19	25	33	2.4
		–	–	–	–	–	–	2.2	11.7	85	3.1	18.5	101	3.9	26	113	2.1	2.0	19	25	33	3.2
		–	–	–	–	–	–	–	–	–	3.4	12.1	119	4.2	20	130	3.2	3.0	20	26	34	4.1
		–	–	–	–	–	–	–	–	–	3.7	6.1	142	4.9	6.8	183	4.1	4.0	21	28	37	5.9
SUJ26	Fluid Cap J60100 + Air Cap J140-6-37-70°	.70	24	32	1.4	43	37	2.1	33	66	2.8	52	65	3.7	63	68	.85	.70	19	25	36	2.1
		.85	13.6	44	1.5	35	49	2.2	26	78	3.0	46	76	3.8	58	79	1.5	1.5	20	27	37	3.2
		1.0	7.6	57	1.7	28	61	2.4	18.9	89	3.1	39	87	3.9	52	101	2.4	2.0	20	27	37	4.1
		–	–	–	1.8	21	71	2.5	11.7	100	3.4	26	110	4.6	27	138	3.2	3.0	20	28	38	5.0
		–	–	–	–	–	–	–	–	–	3.7	13.2	133	4.9	15.9	166	3.9	4.0	20	28	39	6.8
SUJ29	Fluid Cap J60100 + Air Cap J140-6-52-70°	1.3	36	85	2.1	57	116	3.1	53	156	4.2	64	197	5.6	74	245	2.0	.70	20	25	33	5.5
		1.5	29	102	2.4	51	130	3.2	50	163	4.9	51	230	6.0	68	260	3.0	1.5	20	27	34	6.4
		1.8	23	117	2.7	45	143	3.4	47	170	5.6	40	265	6.3	62	280	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	6.7	56	295	6.0	3.0	23	29	38	9.1
		2.4	11.4	149	4.2	13.6	220	4.9	18.5	245	7.0	17.8	335	7.0	51	315	6.3	4.0	24	32	41	10.4
SUJ30	Fluid Cap J40100 + Air Cap J120-6-35-60°	1.1	12.3	40	2.2	16.3	62	2.7	21	69	4.2	19.3	100	5.6	22	130	1.5	.70	15	17	23	2.7
		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	3.0	1.5	16	20	24	4.6
		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	3.4	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	6.7	11.4	163	5.3	3.0	18	22	25	7.3
		2.0	3.1	67	3.4	4.7	95	4.2	4.7	115	6.3	4.0	167	7.0	9.1	174	6.3	4.0	19	24	30	9.4

PRESSURE SPRAY SET-UPS, INTERNAL MIX, 1/8JJ COMPACT SERIALS

Raha Spray Solutions

SPECIFICATIONS

Flat Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (liters per hour)* and Air Capacity (liters per minute)*														Spray Dimensions					
		Liquid Pressure																			
		0.7			1.5			2			3			4							
		Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air Press.	l/h	Air l/min	Air*	Liquid*	A (cm)	B (cm)	C (cm)	D (m)
SUJ13A	Fluid Cap J2050 + Air Cap J73328	.70	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	.70	25	36	46	2.6
		.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
		1.3	3.0	37	2.4	4.3	52	3.1	4.2	63	4.2	5.4	79	6.3	4.3	110	3.5	3.0	47	61	86	3.4
		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	6.0	4.0	56	74	94	4.0
SUJ13	Fluid Cap J2850 + Air Cap J73328	.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	.70	36	46	71	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	81	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	89	2.6
		1.3	4.1	30	2.2	7.1	43	3.2	5.0	59	4.2	8.1	72	6.0	7.3	97	3.5	3.0	58	76	97	2.7
		1.4	2.9	34	2.5	5.1	49	3.5	3.3	66	4.9	4.0	86	6.7	4.3	112	5.6	4.0	58	76	97	3.2
SUJ14	Fluid Cap J2850 + Air Cap J73320	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	.70	25	33	46	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	69	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	89	3.2	2.0	58	74	91	2.0
		1.8	1.3	41	2.8	3.1	52	3.5	3.2	62	4.9	3.8	80	6.3	5.1	98	4.2	3.0	61	74	94	2.1
		2.0	.95	44	3.1	2.1	57	3.9	1.8	68	–	–	–	–	–	–	5.6	4.0	64	76	97	2.3
SUJ23B	Fluid Cap J40100 + Air Cap J125328	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	.70	15	18	20	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	33	3.2
		1.4	6.5	65	2.4	13.6	89	3.0	15.2	103	3.8	23	121	5.3	27	161	3.0	2.0	25	33	46	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	4.2	17.0	137	6.3	12.4	200	5.3	4.0	33	41	48	4.0
SUJ23	Fluid Cap J60100 + Air Cap J125328	.85	27	33	1.8	38	55	2.4	39	67	3.2	58	76	4.6	59	106	1.1	.70	18	23	30	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	41	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	43	3.7
		1.4	10.2	56	2.5	17.8	82	3.4	15.1	103	4.2	27	113	6.3	20	172	3.9	3.0	30	38	48	3.8
		1.5	7.6	62	2.7	15.1	87	3.7	10.6	114	4.9	14.8	140	7.0	12.7	198	6.0	4.0	33	41	51	4.4

SIPHON/GRAVITY-FED SPRAY SET-UPS, EXTERNAL MIX, 1/8JJ COMPACT SERIALS

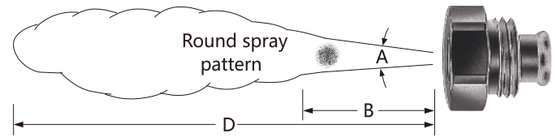
Raha Spray Solutions

Air Caps

Round spray air caps produce a full cone round spray pattern.

DESIGN FEATURES

- For round spray pattern, angle "A" is maintained throughout distance "B". Beyond "B", the spray becomes turbulent and will project out to distance "D".
- When using a siphon or gravity-fed liquid system, the liquid is supplied by either a liquid siphon or a gravity-feed.
- Designed to draw liquid through the feed line into the atomized air flow.



12582 retainer ring and 7717-2/007 O-ring must be ordered separately from the spray set-up, but are included in the standard nozzle assembly.

SPECIFICATIONS

Round Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Atomizing Air		Liquid Capacity (liters per hour)*								Spray Dimensions at 20 cm Siphon Height			
				Gravity Head (cm)			Siphon Height (cm)								
		Air Press.	Air Capacity l/min	45	30	15	10	20	30	60	90	Air*	Spray Angle A (°)	B (cm)	D (m)
SUJ1A	Fluid Cap J1650 + Air Cap J64	.70	11.3	1.5	1.3	1.1	.87	.68	.53	–	–	.70	18	28	1.8
		1.5	17.0	1.8	1.7	1.5	1.3	1.2	1.1	.62	–	1.5	18	28	1.9
		3.0	28	2.1	1.9	1.7	1.5	1.4	1.3	1.1	.76	3.0	18	30	2.3
		4.0	36	2.2	2.0	1.8	1.6	1.5	1.4	1.2	.87	4.0	18	36	2.6
SUJ1	Fluid Cap J2050 + Air Cap J64	.70	13.3	2.4	2.1	1.7	1.5	1.2	.79	–	–	.70	18	30	2.1
		1.5	20	2.8	2.6	2.4	2.1	1.9	1.6	.91	–	1.5	18	33	2.3
		3.0	32	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	3.0	18	38	2.6
		4.0	41	3.7	3.4	3.3	3.1	2.9	2.7	2.1	1.5	4.0	19	43	3.0
SUJ2A	Fluid Cap J2050 + Air Cap J70	.70	23	2.5	2.3	2.0	1.6	1.4	1.1	–	–	.70	18	30	2.4
		1.5	36	2.9	2.8	2.5	2.2	2.0	1.7	.89	–	1.5	18	33	2.7
		3.0	58	3.4	3.3	3.2	2.9	2.8	2.5	1.9	1.2	3.0	19	38	3.4
		4.0	74	3.7	3.6	3.5	3.4	3.3	3.0	2.5	2.0	4.0	20	43	4.0
SUJ2	Fluid Cap J2850 + Air Cap J70	.70	19.3	4.5	4.0	3.4	2.1	1.8	1.4	–	–	.70	21	38	3.0
		1.5	31	5.3	4.9	4.4	3.5	2.9	2.7	1.8	–	1.5	21	41	3.4
		3.0	50	5.7	5.4	5.0	4.2	3.9	3.4	2.4	1.2	3.0	21	46	4.0
		4.0	65	6.0	5.6	5.0	4.4	4.0	3.5	2.8	1.9	4.0	22	51	4.6
SUJ3	Fluid Cap J2850 + Air Cap J64-5	.70	11.6	–	–	–	2.2	1.9	1.1	–	–	.70	18	30	2.4
		1.5	18.4	–	4.8	4.1	3.6	3.2	2.6	1.2	–	1.5	18	33	2.7
		3.0	29	6.4	6.0	5.6	5.2	4.8	4.4	2.8	1.2	3.0	18	38	3.4
		4.0	37	7.1	6.7	6.3	6.1	5.6	5.3	3.7	2.0	4.0	19	43	4.0
SUJ4B	Fluid Cap J40100 + Air Cap J120	.70	37	–	–	–	5.3	3.7	2.2	–	–	.70	17	46	3.0
		1.5	59	–	9.9	9.2	7.4	6.0	4.8	1.5	–	1.5	17	48	3.4
		3.0	91	12.1	11.3	10.7	8.8	7.7	6.5	3.0	1.1	3.0	18	53	4.0
		4.0	116	12.9	12.1	11.4	9.5	8.6	7.6	4.2	1.8	4.0	19	58	4.6
SUJ4	Fluid Cap J60100 + Air Cap J120	1.5	57	22	19.9	16.3	12.3	10.5	8.3	2.8	–	1.5	17	46	3.7
		3.0	88	25	23	19.5	16.7	14.2	11.5	6.4	2.8	3.0	18	51	4.3
		4.0	111	26	24	21	18.4	15.7	12.9	7.9	4.5	4.0	18	53	4.9
		5.6	147	26	24	22	19.7	17.0	14.6	9.8	6.1	5.6	19	58	5.5

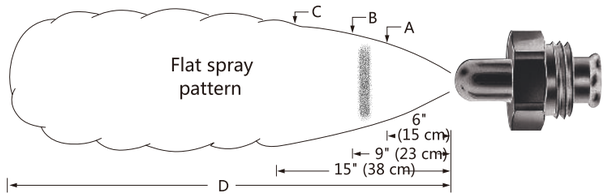
SIPHON/GRAVITY-FED SPRAY SET-UPS, EXTERNAL MIX, 1/8JJ COMPACT SERIALS

Air Caps

Flat spray air caps produce a flat spray pattern.

DESIGN FEATURES

- For flat spray pattern, dimensions "A", "B" and "C" are the pattern widths at distances from the nozzle.
- Total distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".



SPECIFICATIONS

Flat Spray

*At the stated pressure in bar.

Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Atomizing Air		Liquid Capacity (liters per hour)*								Spray Dimensions at 20 cm Siphon Height				
		Air Press.	Air Capacity l/min	Gravity Head (cm)			Siphon Height (cm)					Air*	A (cm)	B (cm)	C (cm)	D (m)
				45	30	15	10	20	30	60	90					
SUJF1	Fluid Cap J2850 + Air Cap J73420	.70	28	1.3	1.2	1.1	1.0	.95	.83	.64	.49	.70	20	26	38	2.1
		1.5	43	1.2	1.1	1.0	.90	.86	.78	.66	.54	1.5	21	29	38	2.1
		2.0	50	.82	.76	.68	.57	.50	–	–	–	2.0	23	30	38	1.8
SUJF2C	Fluid Cap J35100 + Air Cap J120432	1.5	56	3.7	3.5	3.3	2.9	2.8	2.5	2.3	2.1	1.5	23	32	38	2.7
		2.0	65	3.4	3.3	3.1	2.8	2.7	2.6	2.4	2.2	2.0	24	34	42	2.7
		3.0	87	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7	3.0	27	37	46	3.0
		4.0	110	1.9	1.8	1.6	1.5	1.3	1.2	–	–	4.0	28	39	48	2.7
SUJF3B	Fluid Cap J40100 + Air Cap J122435	1.5	68	5.1	4.8	4.5	3.8	3.7	3.5	3.0	2.4	1.5	19	23	27	3.4
		2.0	78	4.9	4.7	4.4	3.6	3.4	3.2	2.9	2.3	2.0	20	25	28	3.4
		3.0	103	3.4	3.2	3.0	2.2	2.0	1.7	–	–	3.0	22	27	30	3.0
		3.5	117	2.2	2.0	1.7	–	–	–	–	–					
SUJF4B	Fluid Cap J40100 + Air Cap J122440	1.5	63	7.6	7.2	6.6	5.7	5.4	5.1	4.6	3.7	1.5	17	22	27	3.4
		2.0	73	7.6	7.3	6.8	5.9	5.7	5.5	5.0	4.2	2.0	18	23	29	3.4
		3.0	96	6.4	6.1	5.7	5.0	4.5	4.1	3.3	–	3.0	20	27	33	3.4
		3.5	110	4.2	3.7	3.2	2.6	–	–	–	–					

AIR ATOMIZING, AIR-ACTUATED, 1/4, 1/8JAU SERIES

1/4JAU

1/4" NPT or BSPT (F) air and liquid inlet connection
1/8" NPT or BSPT (F) air cylinder inlet connection

6218-1/4JAU

1/4" NPT or BSPT (F) with single air line

6083-1/4JAU

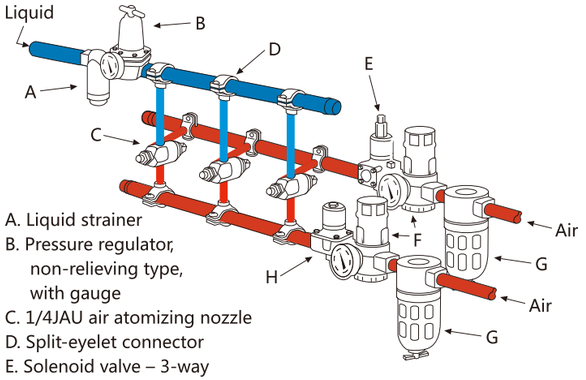
1/4" NPT or BSPT (F) auxiliary shut-off

DESIGN FEATURES

- Internal air cylinder for controlled on/off operation up to 180 cycles per minute.
- On/off cycle interrupts only the liquid portion of the spray. (Liquid flow to the nozzle may be by siphon, gravity-feed or pressure-feed.)
- Available in a wide variety of spray set-ups with unique design for a complete selection of capacities and spray patterns.

COMMON APPLICATIONS

- Die lubrication
- Moistening
- Pattern lubrication
- Spray injection
- Web spraying



A. Liquid strainer
B. Pressure regulator, non-relieving type, with gauge
C. 1/4JAU air atomizing nozzle
D. Split-eyelet connector
E. Solenoid valve – 3-way
F. Pressure regulator with gauge
G. Air filter
H. Solenoid valve – 2-way

Ordering Info

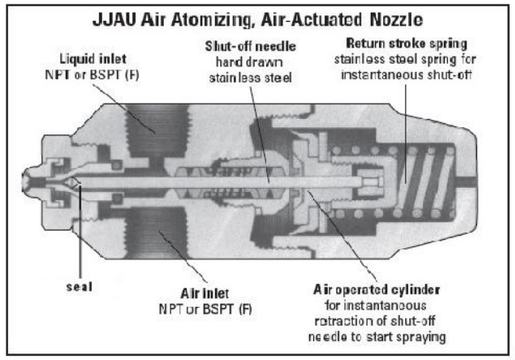
Complete Nozzle Assembly

Nozzle body*				†Spray set-up			
1/4	JAU	–	SS	+ SUE15A		–	SS
Inlet Conn.	Nozzle Body		Material Code	Spray Set-up No.			Materia Code

AIR ATOMIZING, AIR-ACTUATED, 1/8JJAU SERIES

1/8JJAU

1/8" NPT or BSPT (F) air and liquid inlet connection



Applications

- Die lubrication
- Moistening
- Pattern lubrication
- Spray injection
- Web spraying

DESIGN FEATURES

- Compact, precision nozzle.
- Internal air cylinder for controlled on/off operation up to 180 cycles per minute.
- The on/off cycle interrupts only the liquid portion of the spray.
- Liquid flow to the nozzle may be by siphon, gravity-feed or pressure-feed.
- Stainless steel return stroke spring results in instantaneous shut-off and long life.
- Air operated cylinder is designed for instant retraction of shut-off needle to start spraying.
- Available in a wide variety of spray set-ups that allow a variety of capacities and spray patterns.
- Key feature overview for 1/8JJAU:
  - Compact with the operating features of the JAU series – designed for use in small areas.
  - A minimum pressure of 30 psi (2 bar) for air cylinder operation and a maximum liquid pressure of 125 psi (9 bar) recommended.

Ordering Info

Complete Nozzle Assembly

Nozzle body*				†Spray set-up		
1/4	JAU	– SS	+	SUE15A	–	SS
Inlet Conn.	Nozzle Body	Material Code		Spray Set-up No.		Materia Code