



# Spraying Systems (India) Pvt. Ltd.

A Publicly owned subsidiary of Spraying Systems Co. USA  
CIN: U29120KA1999PTC036505

## Quotation - Air Atomizing Nozzles For Mist Cooling Enquiry No:EN230103375Bhiwadi Division

JINDAL ALUMINIUM LIMITED

SP-2/333 INDUSTRIAL AREA  
BHIWADI  
Rajasthan  
301019

*Mr. Ajay Yadav*

*09871115539*

Quote Number: 230015553

Cust.RFQ Reference: Email Dtd 14/2/2023

Customer Number: P353301

Issue Date: 16/02/2023

Valid Through: 17/05/2023

Attn:

Mr Harikesh Sharma

[harikesh.sharma@jindalaluminium.com](mailto:harikesh.sharma@jindalaluminium.com)

961-119-5368

INCOTERMS: EXW Bangalore

Terms: 100% against proforma invoice prior to dispatch

Thank you for your interest in our products. We are pleased to provide this quotation.

*Final Price*

#	PartNumber	Description	Qty	MFG Lead Time*	Unit Price (INR)	Total(INR)
1	1/2JN-SS	AIR ATM.NZ_SS,W/O SU	50	6 Weeks	0.00	0.00
2	SU82-SS	SPRAY SETUP,ST.STL.	50	5 Weeks	0.00	0.00
3	ASSEMBLY ITEM 1+2	ASSEMBLY ITEM 1+2	50	8 Weeks	10,500.00	525,000.00

\*Delivery days is an estimate and does not include shipping.

Product Sub-total **525,000.00**

Total(INR) **525,000.00**

### CHECK LIST

DISCOUNT : *above Price are final*

PRICE BASIS : FOR BHIWADI *Ex-Work*

P & F : INCL...../EXTRA *Ex-Work*

GST/GST : *18% Gnt Extra*

DELIVERY : *5 to 6 week*

PAYMENT : *50% against PI*

GC/AV/C/C : *18 Month Warranty*

*Before Dispatch 50% after Delivery*

Experts in Spray Technology



Plot No.307 & 306, 2nd Cross, 5th Stage, 6th Phase, Frry  
Tel: +91-88-3881-1700/1300, 2071347 Fax: +91-88-3881-3177 Email: [info@spraying.com](mailto:info@spraying.com) Website: [www.spraying.com](http://www.spraying.com)



VALIDITY

CHECKED BY: *Ruparaj*



## **Spraying Systems (India) Pvt. Ltd.**

A Wholly owned subsidiary of Spraying Systems Co. USA  
CIN: U29120KA1999PTC036505

### **TECHNICAL DESCRIPTION**

Model: 1/2JN-SS +SU82-SS (Having Manual Shut Off needle to Stop Liquid Flow)  
Spray Pattern: Round Spray  
Mixing Pattern: Internal Mix  
Spray Set Up: SU82-SS (Air Cap: 4691312 & Fluid Cap: 251376)  
Water Flow Rate : 740 LPH @ 3 Bar  
Air Pressure: 3 Bar  
Air Consumption: 710 LPM  
Material: SS303  
Inlet Connection: 1/2" NPT(F) Air & Liquid Both

Note: We Will Only Provide Conformance Of certificate (C.O.C) Of Product, Any Other will charges Extra

### **TERMS & CONDITIONS :**

Quote Format no : S&M/F/01/00

PRICE BASIS : Ex-works ,Bangalore

P & F : 3% Extra of Basic Order Value

Freight :Extra

GST : 18% extra as applicable at the time of dispatch

HSN CODE: 8424.8990

INSURANCE : To your account

DELIVERY : 8 weeks from the date of receipt of techno-commercially clear order

OTHERS : Please let us know regarding any statutory/regulatory requirements to be followed.

PAYMENT : 100% against proforma Invoice before despatch

Please reference the quotation number in the upper right corner when you place your order. If you have questions or need assistance, I am happy to help. We value your business.

Should you have any questions or need additional information, please contact me.

Thank you,

Yadav Ajay Kumar

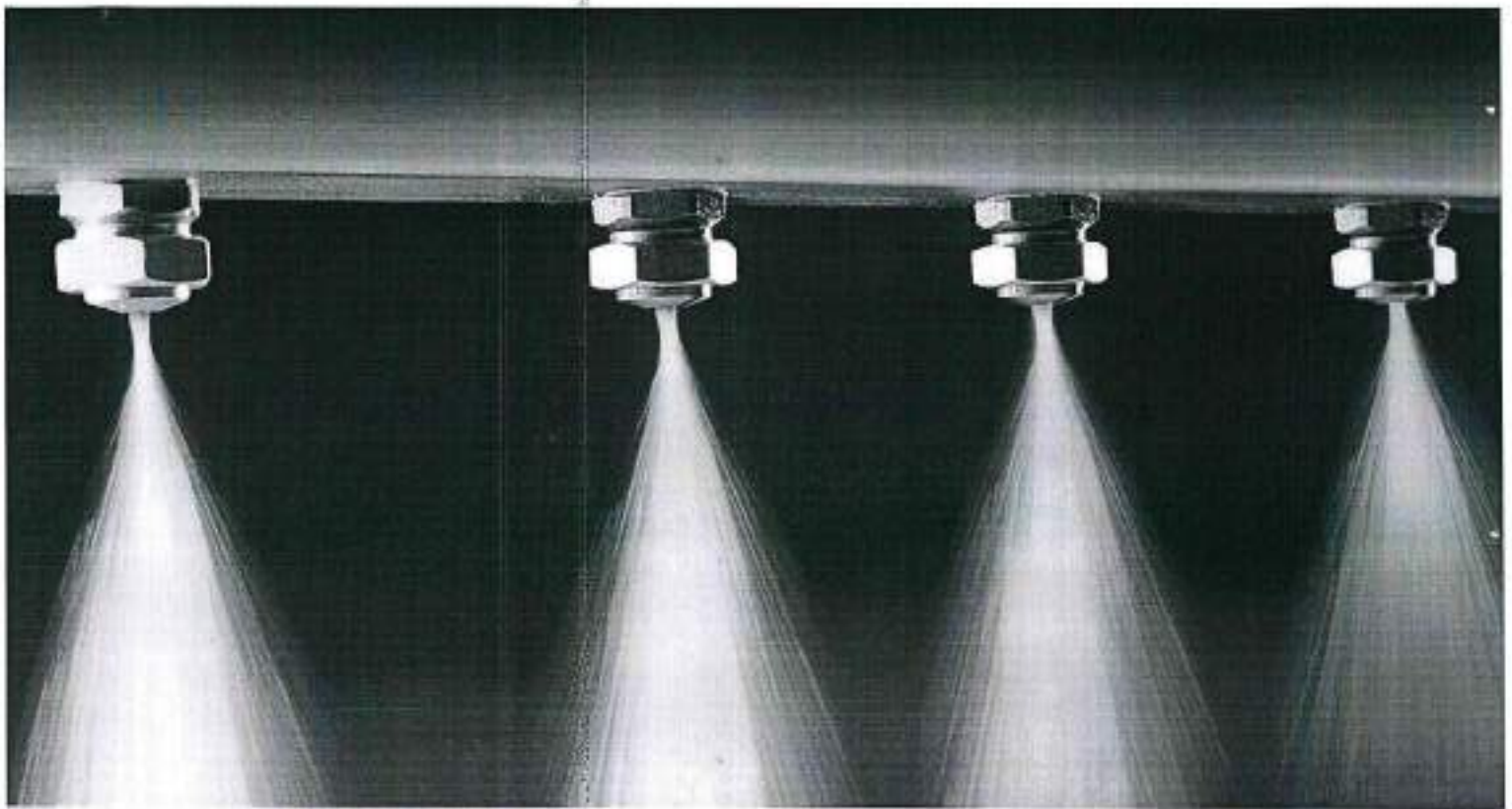
Hindi

📞 9871115539

☎ 011-32976000

✉ ajayyadav@sprayindia.com

This quote is subject to acceptance of the Terms and Conditions set forth at:  
<https://apps.spray.com/terms/whtn-sale-en-us-2011-8-1.asp>

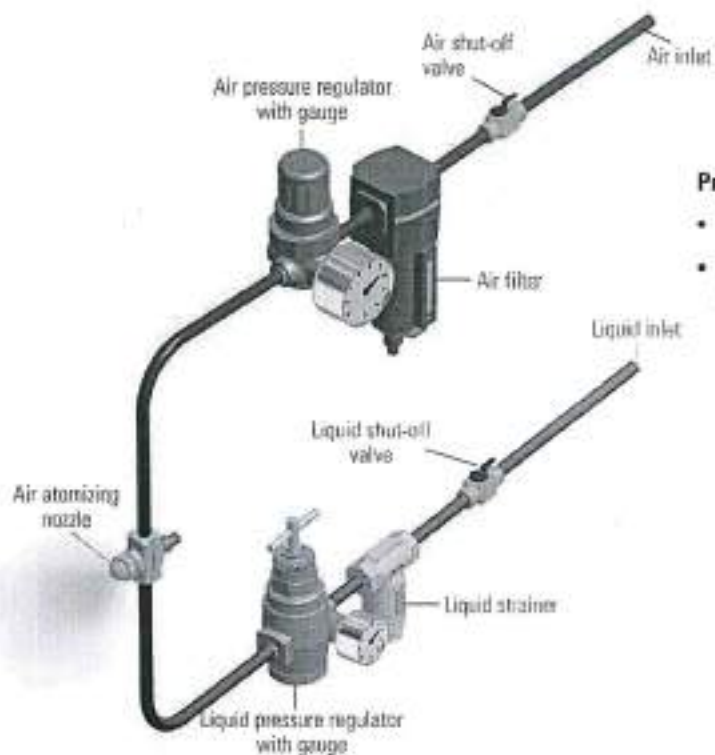


## AIR ATOMIZING SPRAY NOZZLES

CHEMICAL INJECTION • PASSIVATING  
COATING • STERILIZING • FOGGING  
HUMIDIFYING • MISTING • COATING  
MOISTURIZING • GAS COOLING  
LUBRICATING

**OVERVIEW: AIR ATOMIZING NOZZLE SET-UPS**

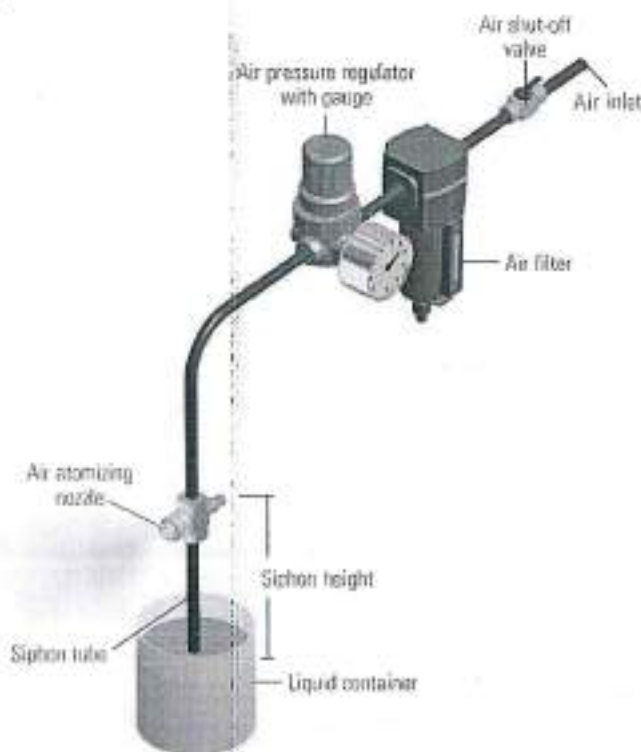
Liquid can be supplied to the nozzle under pressure or it can be supplied through a liquid siphon or gravity-feed.

**Pressure Spray Set-Ups**

- Liquid is supplied to the nozzle under pressure
- Air and liquid can be externally or internally mixed to produce a completely atomized spray

**Siphon/Gravity-Fed Spray Set-Ups**

- Liquid is supplied via liquid siphon or is gravity-fed
- These set-ups are designed to draw liquid through the feed line into the air flow where it is atomized

**PLACING YOUR ORDER**

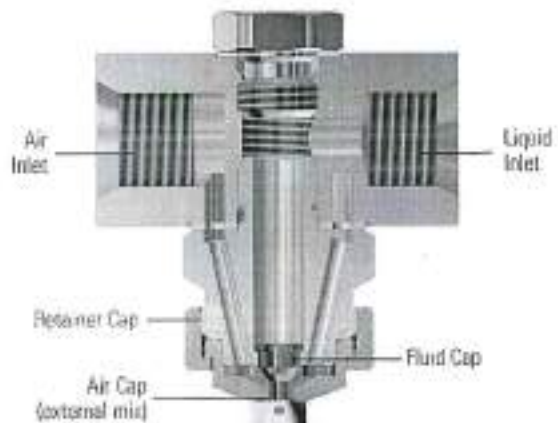
Call 1.800.95.SPRAY for application assistance  
or to place an order.

FOR DETAILED SPRAY SET-UP PERFORMANCE DATA  
SEE SECTION D



**OVERVIEW: J AND JJ SERIES NOZZLES**

- Liquid and compressed air enter the nozzle body and are mixed by the spray set-up to produce a finely atomized spray pattern
- Spray set-ups, consisting of an air cap and a fluid cap, can mix the fluids either internally or externally
- Hundreds of spray set-ups are available to produce cone and flat spray patterns
- A wide variety of nozzle bodies are available for convenient mounting and positioning
- JJ compact nozzle bodies are available for applications where space is limited
- Models available with clean-out needles, shut-off needles, swivels and strainers to optimize performance



**1/4J Nozzle**

Air and liquid enter the air atomizing nozzle body and are combined by the spray set-up to generate finely atomized droplets.

**QUICK REFERENCE GUIDE**

Product Number	Inlet Connection Size (in.)	Max Flow	Max Temp (liquid)	Spray Set-Ups
<b>1/8J and 1/4J Series</b>	1/8, 1/4 (F) NPT or BSPT	72 gph (273 lph)	400°F (204°C)	1/8J and 1/4J set-ups (pages D30) 
<b>1/8JJ Series</b>	1/8 (F) NPT or BSPT	33.2 gph (126 lph)	400°F (204°C)	1/8JJ set-ups (pages D33) 
<b>1/2J Series</b>	1/2 (F) NPT or BSPT	306 gph (1158 lph)	400°F (204°C)	1/2J set-ups (pages D40) 
<b>1J Series</b>	1 (F) NPT or BSPT	29 gpm (110 lpm)	400°F (204°C)	1J set-ups (pages D44) 



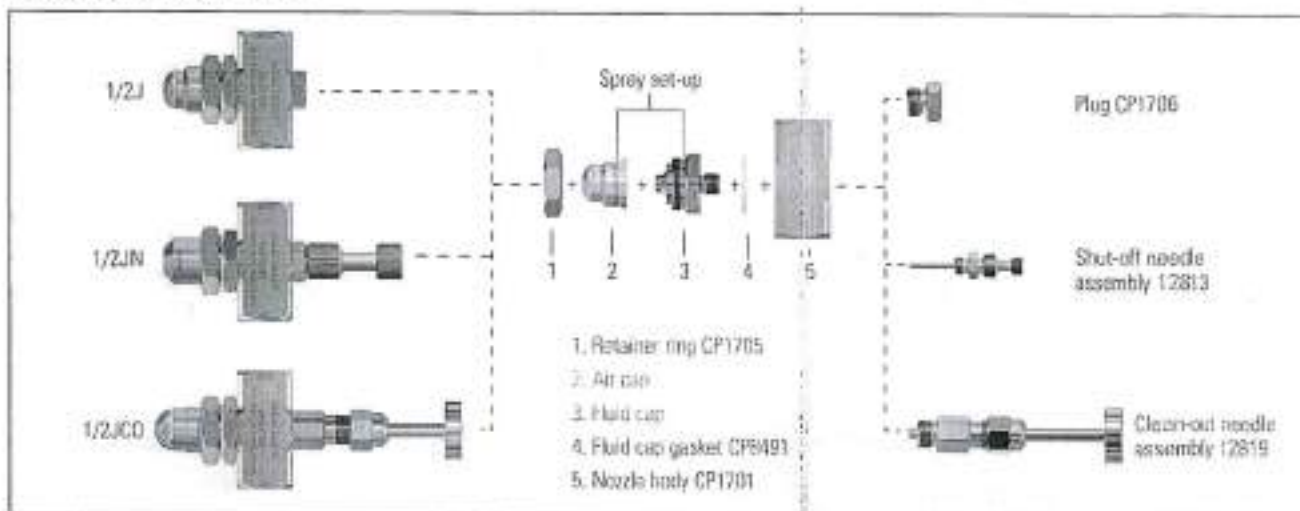
**1/2J SERIES NOZZLES**

- J Series nozzles consist of a nozzle body and a spray set-up
- A wide variety of spray set-ups are available with flow rates up to 306 gph (1158 lph) in various spray patterns
- Basic 1/2J bodies have liquid and air inlets on opposing sides of the nozzle bodies. Nozzle bodies include a removable plug so needle assemblies can be added in the future
- Nickel-plated brass or stainless steel construction



1/2J  
Nozzle

**1/2J NOZZLE OPTIONS**



✓ **1/2JN** – Manual shut-off needle to stop liquid flow



**1/2JCO** – Manual clean-out needle to clear obstructions from the fluid orifice



**1/2JBC** – Air and liquid inlets at the back of the nozzle body, in line with the spray direction



**1/2JBCJ** – Steam jacket around the nozzle body for spraying liquids too viscous to spray at room temperatures



**1/2-2J** – 1/2" air and liquid inlet connections on opposing sides of the nozzle body with two opposing spray set-ups

**OVERVIEW: AIR ATOMIZING SPRAY NOZZLE SET-UPS**

- Each spray set-up – consisting of an air cap and a fluid cap – provides a specific spray pattern, flow rate and spray coverage
- Within each nozzle series, spray set-ups are interchangeable, for versatile performance
- Air and liquid can be externally or internally mixed to produce a completely atomized spray
- Drip Free™ spray set-ups are used for all nozzle assemblies containing shut-off or clean-out needles to ensure positive liquid shut-off



**Spray Set-Ups**

Each spray set-up consists of an air cap and a fluid cap.



**Internal Mix Set-Ups**

Liquid and air are mixed internally to produce an atomized spray. Liquid and gas streams are not independent – a change in air flow will affect the liquid flow.



**External Mix Set-Ups**

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.

**QUICK REFERENCE GUIDE**

Spray Set-Up	Liquid Supply	Internal / External Mix	Spray Patterns	Max Flow	Page Number
<b>1/8J and 1/4J Series</b>	Pressure Feed Siphon/Gravity Feed	Both	<ul style="list-style-type: none"> <li>• Flat Spray</li> <li>• Deflected Flat Spray</li> <li>• Round Spray</li> <li>• Wide Angle Round Spray</li> <li>• 360° Circular Spray</li> </ul>	72 gph (272.5 lph)	D22
<b>1/8JJ Series</b>	Pressure Feed Siphon/Gravity Feed	Both	<ul style="list-style-type: none"> <li>• Flat Spray</li> <li>• Round Spray</li> <li>• Wide Angle Round Spray</li> <li>• 360° Circular Spray</li> </ul>	33.2 gph (126 lph)	D33
<b>1/2J Series</b>	Pressure Feed Siphon/Gravity Feed	Both	<ul style="list-style-type: none"> <li>• Flat Spray</li> <li>• Round Spray</li> <li>• Wide Angle Round Spray</li> </ul>	306 gph (1158 lph)	D41
<b>1J Series</b>	Pressure Feed Siphon/Gravity Feed	Both	<ul style="list-style-type: none"> <li>• Flat Spray</li> <li>• Round Spray</li> <li>• Wide Angle Round Spray</li> </ul>	29 gpm (110 lpm)	D45
<b>QuickMist® Series</b>	Pressure Feed Siphon/Gravity Feed	Internal Mix Only	<ul style="list-style-type: none"> <li>• Flat Spray</li> <li>• Round Spray</li> <li>• Wide Angle Round Spray</li> </ul>	28 gpm (98 lpm)	D50
<b>SUV and SUVM Series</b>	Pressure Feed Only	External Mix Only	<ul style="list-style-type: none"> <li>• Variable</li> </ul>	49.8 gph (188.5 lph)	D55





**PERFORMANCE DATA:  
SIPHON/GRAVITY SPRAY SET-UPS | INTERNAL MIX | FLAT SPRAY**

For a flat spray pattern, "A" and "B" are the pattern widths at distances from the nozzle.

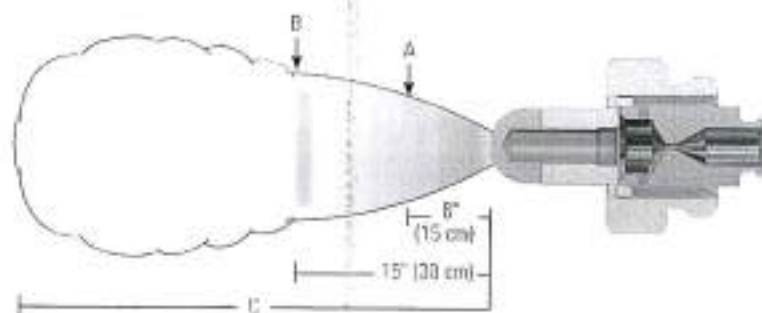
The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "C".

Liquid is supplied to this spray set-up by either a liquid siphon or a gravity-feed.

Liquid is drawn through the feed line into the air flow where it is atomized.

When ordering only a spray set-up, 12582 retainer ring and 7717-2/007 O-ring must be ordered separately. These components are included in a complete air atomizing nozzle assembly.

**Please contact your sales engineer for more information.**



Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Atomizing Air		Liquid Capacity (gallons per hour)*								Spray Dimensions at 8" Siphon Height		
		Air Press.	Air Capacity scfm	Gravity Head (in.)				Siphon Height (in.)				A (in.)	B (in.)	C (ft.)
				18	12	6	4	8	12	24	36			
SUJF1	Fluid Cap J2850 + Air Cap J73430	30.0	.99	.35	.33	.30	.27	.25	.22	.17	.13	8 - 9	15	6 - 7
		20	1.42	.31	.30	.29	.28	.20	.23	.19	.16			
		30	1.83	.18	.16	.15	.11	.09	-	-	-			
SUJF2C	Fluid Cap J35100 + Air Cap J120432	20	1.86	1.01	.96	.90	.77	.72	.67	.62	.56	8 - 11	15 - 19	9 - 10
		30	2.42	.80	.84	.81	.75	.71	.67	.63	.57			
		40	2.96	.76	.73	.68	.65	.61	.58	.53	.48			
		50	4.05	.44	.41	.37	.33	.30	.27	-	-			
SUJF3B	Fluid Cap J40100 + Air Cap J122435	20	2.26	1.35	1.28	1.20	1.01	.96	.92	.78	.62	7-1/2 - 8-1/2	10-1/2 - 12	10 - 11
		30	2.88	1.26	1.21	1.14	.92	.87	.82	.74	.58			
		40	3.52	.98	.92	.87	.80	.75	.72	.64	-			
		50	4.13	.58	.52	.44	-	-	-	-	-			
SUJF4B	Fluid Cap J40100 + Air Cap J122440	20	2.10	2.01	1.90	1.71	1.47	1.40	1.32	1.17	.92	6-1/2 - 8	10-1/2 - 13	11
		30	2.70	2.00	1.94	1.81	1.58	1.52	1.45	1.34	1.11			
		40	3.28	1.82	1.74	1.63	1.42	1.34	1.22	1.03	-			
		50	3.67	1.10	.97	.85	.68	-	-	-	-			

\*At the stated pressure in psi.

Deep Freez® spray set-ups, orifice pistons, shut-off and are provided for air atomizing assemblies containing a shut-off needle. For more information, call 1.800.95.SPRAY







PERFORMANCE DATA  
PRESSURE SPRAY SET-UPS | INTERNAL MIX | FLAT SPRAY

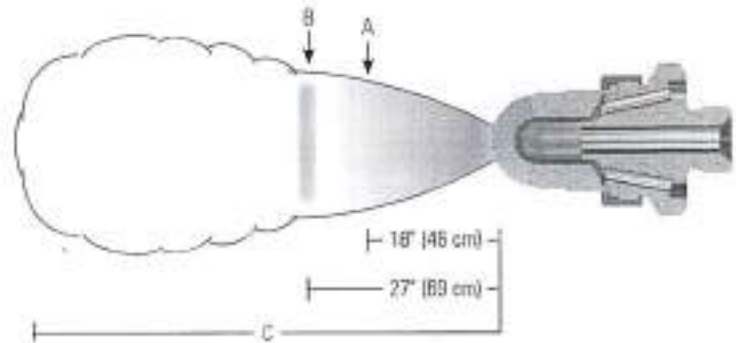
For a flat spray pattern, "A" and "B" are the pattern widths at distances from the nozzle.

The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "C".

Liquid is supplied to this spray set-up under pressure.

Liquid and compressed air or gas are mixed internally to produce a completely atomized spray.

When ordering only a spray set-up, 1705 retainer ring and 9491 gasket must be ordered separately. These components are included in a complete air atomizing nozzle assembly. **Please contact your sales engineer for more information.**



Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (gallons per hour)* and Air Capacity (standard cubic feet per minute)*												Spray Dimensions					
		Liquid Pressure												A (in.)	B (in.)	C (in.)			
		5 psi			15 psi			25 psi			35 psi						45 psi		
		Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm				Air Press.	gph	scfm
SU75	Fluid Cap 290375 + Air Cap 4533102	-	-	-	28	39	22.4	44	44.1	31.5	58	53	40	-	-	-	17 - 19	35 - 38	18 - 19
		-	-	-	30	31.8	24	46	37.2	33.5	60	45.6	42	-	-	-			
		-	-	-	32	24.6	25.9	48	31.2	35.1	63	38	44	-	-	-			
		-	-	-	34	19.8	27.5	50	27	36.9	65	31	47	-	-	-			
SU85	Fluid Cap 251370 + Air Cap 4889102	10.0	35.4	11.1	18.0	109	15.4	26	155	17.7	36	180	23	54	222	23.1	20 - 26	47 - 60	13 - 21
		12.0	26.4	13.4	20	81.6	17.6	28	135	20	38	162	25.4	56	198	31.2			
		-	-	-	22	63.6	19.8	30	115	22.5	40	147	27.8	58	186	34			
		-	-	-	24	48.3	22.6	32	100	25.1	42	131	30.2	60	180	35.3			
		-	-	-	-	-	-	34	84	27.5	44	116	32.6	62	166	38.9			
		-	-	-	-	-	-	36	69.5	30	46	101	35.1	64	154	41.6			
		-	-	-	-	-	-	38	56.4	32.6	48	81.5	37.6	66	142	44.1			
		-	-	-	-	-	-	40	45.7	35.3	50	75.6	40.2	68	130	46.8			
		-	-	-	-	-	-	-	-	-	52	62.4	42.7	70	119	49.3			
		-	-	-	-	-	-	-	-	-	-	-	-	72	108	51.6			
		-	-	-	-	-	-	-	-	-	-	-	-	74	97.4	54.2			
		-	-	-	-	-	-	-	-	-	-	-	-	76	87.5	57.1			

\*At the stated pressure in psi.





PERFORMANCE DATA:  
PRESSURE SPRAY SET-UPS | INTERNAL MIX | WIDE ANGLE ROUND

For a wide angle round spray, dimensions "A" and "B" are the pattern widths at distances from the nozzle.

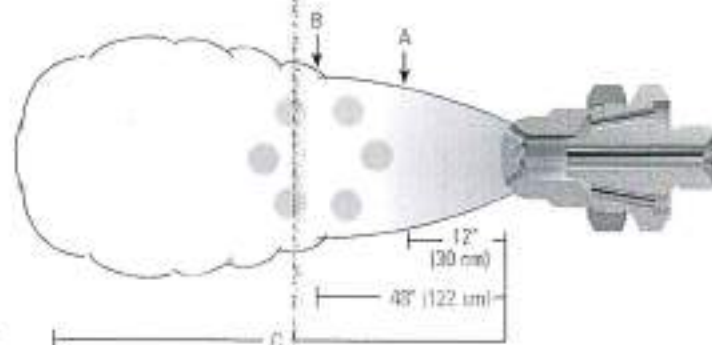
The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "C".

Liquid is supplied to this spray set-up under pressure.

Liquid and compressed air or gas are mixed internally to produce a completely atomized spray.

When ordering only a spray set-up, 1705 retainer ring and 8491 gasket must be ordered separately. These components are included in a complete air atomizing nozzle assembly.

Please contact your sales engineer for more information.



Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (gallons per hour)* and Air Capacity (standard cubic feet per minute)*														Spray Dimensions			
		Liquid Pressure														A (in.)	B (in.)	C (ft.)	
		5 psi		15 psi		25 psi		35 psi		55 psi		Air Press.	gph	scfm	Air Press.				gph
SU77	Fluid Cap 250375 + Air Cap 422-6-73-70*	-	-	-	-	-	28	33	8.4	40	28.8					11.3	58	66	
		-	-	-	-	-	30	19.8	10.8	42	15.6	13.9	60	42	15.0				
		-	-	-	-	-	-	-	-	-	-	-	62	25.2	18.2				
SU78	Fluid Cap 250375 + Air Cap 422-6-94-70*	8.0	27	6.5	18.0	42	7.0	32	47	11.0	46	42.6	18.1	70	81	29.5	13 - 14	25-1/2 - 27	28 - 27
		10.0	15.0	8.2	20	29.4	8.8	34	36	12.8	48	32.4	20.2	75	33	34.5			
		12.0	8.4	9.8	22	20.2	10.5	36	25.2	14.7	50	25.8	22.2	80	22.2	39.6			
		-	-	-	24	14.4	12.2	38	18.0	16.6	52	19.8	24	-	-	-			
		-	-	-	-	-	-	40	13.8	18.6	54	15.6	25.8	-	-	-			
SU79	Fluid Cap 250375 + Air Cap 469-6-125-70*	10.0	34.2	11.4	25	46.2	20.2	40	62.6	27.5	54	75.6	32.6	75	127	39	13 - 14	26 - 28	23 - 30
		12.0	21.6	13.0	28	37.2	22	42	52.8	29.6	56	57	34.3	80	108	42.4			
		14.0	12.0	14.7	30	28.4	23.7	44	43.8	31.6	58	49.8	35.8	85	98	45.6			
		-	-	-	32	21.6	25.3	46	33.6	33.6	60	38	37.3	-	-	-			
		-	-	-	34	16.2	27	48	25.2	35.6	62	33	38.8	-	-	-			
SU89	Fluid Cap 261376 + Air Cap 469-6-130-70*	10.0	35.4	11.1	18.0	103	15.4	26	155	17.7	36	180	23	54	222	29.1	11 - 13	29 - 36	11 - 25
		12.0	26.4	13.4	20	81.6	17.6	28	135	20	38	162	25.4	56	198	31.2			
		-	-	-	22	63.6	19.8	30	115	22.5	40	147	27.8	58	186	34			
		-	-	-	24	49.3	22.6	32	100	25.1	42	131	30.2	60	180	36.3			
		-	-	-	-	-	-	34	84	27.5	44	116	32.6	62	166	38.9			
		-	-	-	-	-	-	36	89.5	30	46	101	35.1	64	154	41.6			
		-	-	-	-	-	-	38	56.4	32.0	48	81.5	37.0	66	142	44.1			
		-	-	-	-	-	-	40	45.7	35.3	50	75.6	40.2	68	130	46.6			
		-	-	-	-	-	-	-	-	-	-	-	-	72	118	49.3			
		-	-	-	-	-	-	-	-	-	-	-	-	76	97.4	54.2			
		-	-	-	-	-	-	-	-	-	-	-	-	80	87.5	57.1			

\*At the stated pressure in psi.





PERFORMANCE DATA:  
PRESSURE SPRAY SET-UPS | INTERNAL MIX | ROUND SPRAY

For a round spray, dimensions "A" and "B" are the pattern widths at distances from the nozzle.

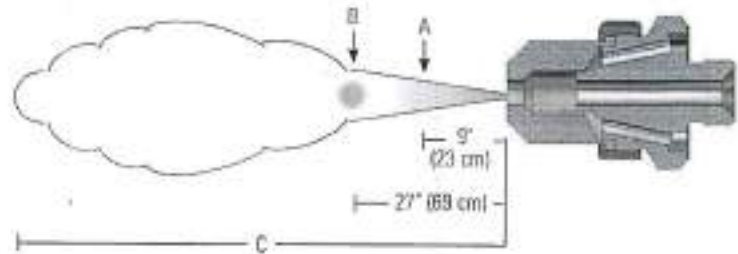
The total distance of spray projection from the nozzle to the maximum dispersal point is represented by "C".

Liquid is supplied to this spray set-up under pressure.

Liquid and compressed air or gas are mixed internally to produce a completely atomized spray.

When ordering only a spray set-up, 1706 retainer ring and 9491 gasket must be ordered separately. These components are included in a complete air atomizing nozzle assembly.

**Please contact your sales engineer for more information.**



Spray Set-up No.	Spray Set-up Consists of Fluid and Air Cap Combination	Liquid Capacity (gallons per hour)* and Air Capacity (standard cubic feet per minute)*															Spray Dimensions					
		Liquid Pressure															A (in.)	B (in.)	C (ft.)			
		5 psi			10 psi			25 psi			35 psi			55 psi								
Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm	Air Press.	gph	scfm					
SU72	Fluid Cap 250375 + Air Cap 4221250	18.0	9.0	12.4	28	31.7	14.9	38	59	17.3	48	80	19.3	-	-	-	-	-	-	3-1/2	10	22-30
		20	8.7	13.7	32	22.5	17.0	44	37.7	20.8	54	95.2	23.6	-	-	-	-	-	-			
		22	5.4	14.7	38	15.9	19.3	59	24.7	24.8	60	40	27.5	-	-	-	-	-	-			
		24	4.1	15.7	38	13.2	20.4	54	19.5	27.5	66	30	32.1	-	-	-	-	-	-			
		-	-	-	40	11.1	21.5	58	16.0	30.2	72	23.3	37	-	-	-	-	-	-			
-	-	-	42	9.2	22.6	60	14.5	31.8	76	18.3	42.2	-	-	-	-	-	-	-				
SU82	Fluid Cap 251376 + Air Cap 4891312	10.0	35.4	11.1	18.0	33	15.4	25	195	17.7	30	180	23	54	222	29.1	-	-	-	4-5	9-13	21-47
		12.0	26.4	13.4	20	81.6	17.6	28	135	20	36	162	25.4	56	198	31.2	-	-	-			
		-	-	-	22	53.6	18.8	30	115	22.5	40	147	27.8	58	188	34	-	-	-			
		-	-	-	24	49.3	22.6	32	100	25.1	42	131	30.2	60	180	36.3	-	-	-			
		-	-	-	-	-	-	34	84	27.5	44	116	32.6	62	166	38.9	-	-	-			
		-	-	-	-	-	-	36	89.5	30	46	101	35.1	64	154	41.6	-	-	-			
		-	-	-	-	-	-	38	95.4	32.6	48	81.5	37.6	66	142	44.1	-	-	-			
		-	-	-	-	-	-	40	95.7	35.3	50	75.6	40.2	68	130	46.8	-	-	-			
		-	-	-	-	-	-	-	-	-	52	62.4	42.7	70	119	49.3	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	72	106	51.6	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	74	97.4	54.2	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	76	87.5	57.1	-	-	-			

\*At the stated pressure in psi.



