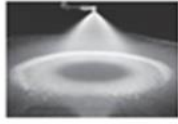




**Full Cone**



**Hollow Cone**



**Flat Fan**



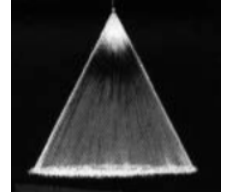
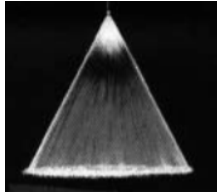
**Misting**



**Air Atomizing**



**Tank Wash**



## **SUIRO STAINLESS STEEL FLAT FAN NOZZLES**

### **Spray Characteristics**

- Spray pattern: flat fan
- Operating pressure: common pressure (1 to 30 bar)
- Spray angles: from 0 degree to 120 degree

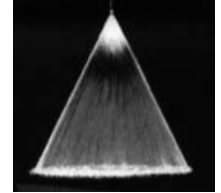
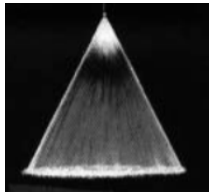
### **Product Details**

#### **Product feature:**



- Standard angle flat fan spraying.
- Thread size from 1/8" to 2".
- High quality stainless steel material.
- Spray angles from 0 degree to 120 degree.
- Droplet size from small- to medium to large.
- Flat spray pattern distributes the liquid as a flat- or sheet-type spray.
- Uniform distribution over a wide range of flow rates and pressures.
- Unobstructed flow passages minimize clogging.
- Specially tapered spray pattern is ideal for use in manifold and header applications.

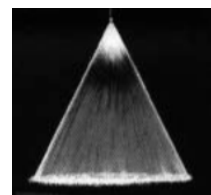
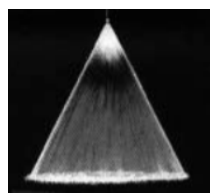
#### **Applications:**


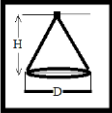
1. Pretreatment chemical cleaning
2. High pressure cleaning
3. Dust Control
4. Quenching
5. Clean the circuit board
6. Defoaming
7. Cooling and hardening
8. Washing products
9. Cooling water
10. Cleaning air
11. Scrubber
12. Spray coating

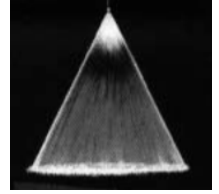
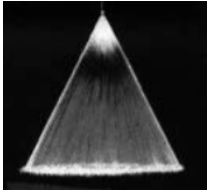


Technical data for the Flat Fan Spray


Spray angle 	Type Flat fan Nozzles	1/4 BSPT	B Ø (mm)	E Ø (mm)	$\tilde{V}$ (l/min)								Spray Diameter d at p=2 bar 	
					p (bar)								H=	H=
					0.5	1.0	2.0	3.0	5.0	7.0	10	35	250 mm	500 mm
45°	632.723 4520	CC	3,00	2,40	3,15	4,46	6,30	7,72	9,96	11,79	14,09	26,42	220	420
	632.803 4530	CC	4,00	3,00	5,00	7,07	10,00	12,25	15,81	18,71	22,36	40,65	220	420
60°	632.334 65015	CC	0,90	0,50	0,22	0,32	0,45	0,55	0,71	0,84	1,01	1,83	220	440
	632.404 6503	CC	1,20	0,80	0,50	0,71	1,00	1,23	1,58	1,87	2,24	4,07	245	485
	632.514 6506	CC	1,65	1,10	0,95	1,34	1,90	2,33	3,00	3,56	4,25	8,00	270	520
	632.604 6510	CC	2,20	1,50	1,57	2,23	3,15	3,86	4,98	5,89	7,04	13,20	270	540
	632.644 6510-15	CC	2,50	1,60	2,00	2,83	4,00	4,90	6,33	7,48	8,94	16,55	270	540
	632.724 6520	CC	3,00	2,10	3,15	4,46	6,30	7,72	8,91	9,96	14,09	26,42	305	590
	632.764 6525	CC	3,50	2,30	4,00	5,66	8,00	9,80	12,65	14,97	17,89	33,50	310	595
	632.804 6530	CC	4,00	2,60	5,00	7,07	10,00	12,25	15,81	18,71	22,36	40,65	310	595
	632.844 6540	CC	4,50	3,00	6,25	8,84	12,50	15,31	19,76	23,39	27,95	52,00	310	590
	632.884 6550	CC	5,00	3,40	8,00	11,31	16,00	19,60	25,30	29,93	35,78	67,00	300	570
	632.924 6560	CC	5,50	4,10	10,00	14,14	20,00	24,49	31,62	37,41	44,72	84,00	300	580
	632.964 6570	CC	6,00	4,20	12,50	17,68	25,00	30,62	39,53	46,76	55,90	105,00	300	580



Spray angle  	Type Flat fan Nozzles	1/4 BSPT	B Ø (mm)	E Ø (mm)	V̇ (l/min)								Spray Diameter d at p=2 bar	
					p (bar)								 H=250 mm	H=500 mm
					0.5	1.0	2.0	3.0	5.0	7.0	10	35		
90°	632.306 9501	CC	0,70	0,40	0,16	0,23	0,32	0,39	0,51	0,60	0,72	1,30	380	740
	632.406 9503	CC	1,20	0,70	0,50	0,71	1,00	1,23	1,58	1,87	2,24	4,07	430	820
	632.446 9504	CC	1,30	0,64	0,90	0,91	1,30	1,60	2,00	2,40	2,90	5,40	430	820
	632.606 9510	CC	2,00	1,20	1,66	2,30	3,20	3,90	5,10	6,00	7,20	13,50	430	820
	632.726 9520	CC	3,00	1,70	3,15	4,46	6,30	7,72	9,96	11,79	14,09	26,42	520	980
	632.806 9530	CC	4,00	2,40	5,00	7,07	10,00	12,25	15,81	18,71	22,36	40,00	480	900
110°	632.307 11001	CC	0,66	0,28	0,14	0,20	0,32	0,39	0,51	0,60	0,72	1,30	605	1146
	632.367 11002	CC	0,91	0,39	0,35	0,50	0,64	0,79	1,00	1,20	1,40	2,70	614	1164
	632.447 11004	CC	1,30	0,56	0,63	0,90	1,30	1,60	2,00	2,40	2,90	5,40	675	1270
	632.567 11008	CC	1,80	0,78	1,26	1,80	2,60	3,20	4,10	4,80	5,80	10,80	619	1118
	632.607 11010	CC	2,00	0,87	1,61	2,30	3,20	3,90	5,10	6,00	7,20	13,50	642	1192
120°	632.677 11015	CC	2,70	1,40	2,38	3,36	4,75	5,82	7,51	8,89	10,62	19,60	720	1330
	632.927 11060	CC	5,50	2,90	10,00	14,14	20,00	6,20	24,50	31,62	44,72	82,00	955	1730



## Suiro High pressure flat fan nozzles

Spray 	Type Flat fan Nozzles	1/4 BSPT	Dia (mm )	V̇ (l/min)									
				p (bar)									
				20	40	60	80	100	150	200	300	400	500
25°	MEG- 25035S 602.411,5	CC	1,20	3,60	5,10	6,30	7,2	8,10	9,9	11,5	14,00	16,20	18,10

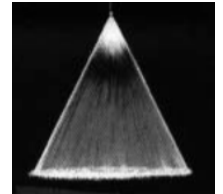
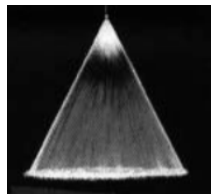
### Applications

- High pressure cleaning machines.
- Industrial washing.
- Steam jet cleaners

### Characteristics

- High pressure flat fan nozzles can work till 500 bar.



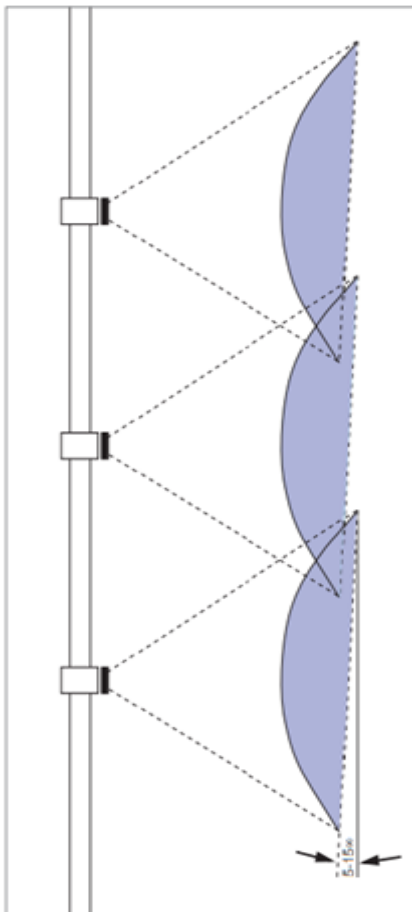
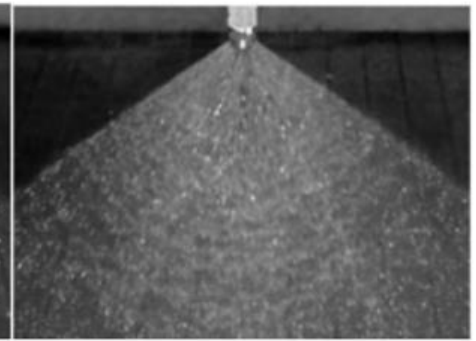
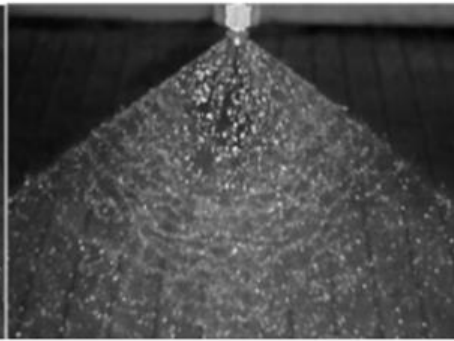
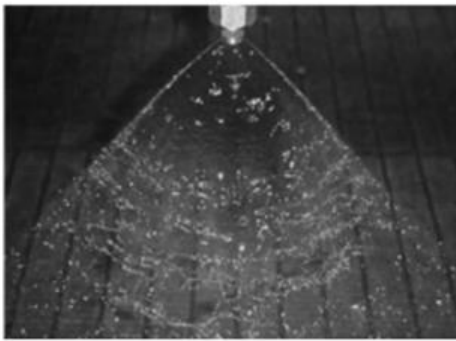


## FLAT FAN NOZZLES

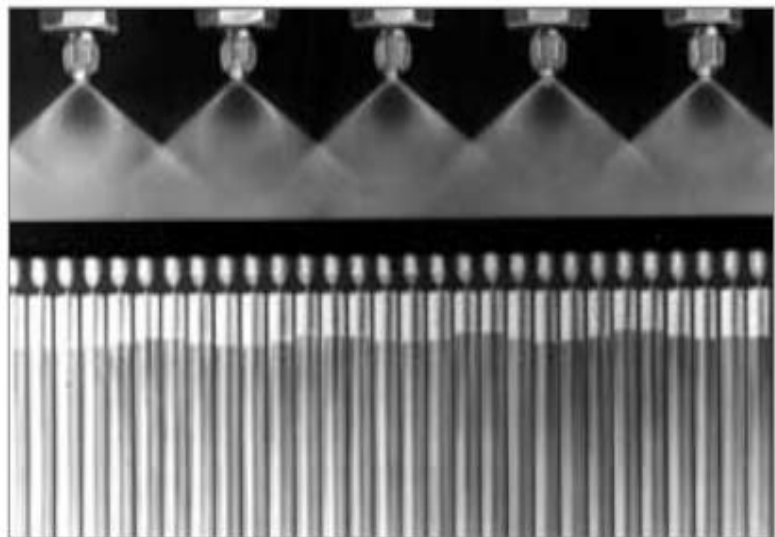
0,5 bar

3 bar

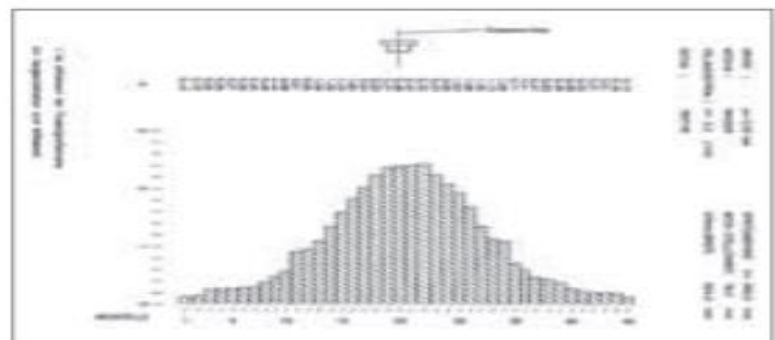
10 bar



Arrangement of nozzles



Total liquid distribution



Liquid distribution  
single nozzle



## **SUIRO ARZ5 SERIES STRAIGHT NOZZLES ( Single-Point distribution ) HIGH IMPACT SOLID STREAM NOZZLES**

SUIRO Solid stream types nozzles are a one-piece construction in stainless steel.

SUIRO Solid stream types nozzles have a The two types: They are made in Stainless Steel 303SS and 316SS

SUIRO Solid stream types nozzles, their stainless steel body is highly resistant to chemicals and wear and assure a long service life.

SUIRO Solid stream types nozzles, The two types, 303SS and 316SS , have a special hydrodynamic design and are machined with high precision to produce a solid needle jet.

SUIRO Solid stream types nozzles, provide a sharp and high pressure spray jet power.

These nozzles offer a stronger impact force than other types at the same operating pressures and flow rates.

SUIRO Solid stream types nozzles, designed for applications requiring medium or high liquid pressures.

SUIRO Solid stream types nozzles, suitable to work with pressures lower than 20 bar, and have a spray tip suitable for operating pressures lower than 200 bar.

SUIRO Solid stream types nozzles has Optimized flow conditions.

SUIRO Solid stream types nozzles, provide a concentrated solid stream jet and offer a stronger impact force than other types at the same operating pressures and flow rates.

SUIRO Solid stream types nozzles has a long distance effect with punctiform impact pattern, closed jet .

SUIRO Solid stream types nozzles are specially designed for high pressure cleaning and washing operations.

They are particularly hard, resistant to wear, have a long service life and offer high precision performances.

Spray angles: 0° (solid stream)

Thread specification: 1/4" BSPT

High pressures may shorten nozzles service life.

## **Applications**

**Filter cloth washing application**

**Felt washing application**

**Wire cleaning application**

**Parts washing application**

**Paint scraping applications**


**Rust removal application**

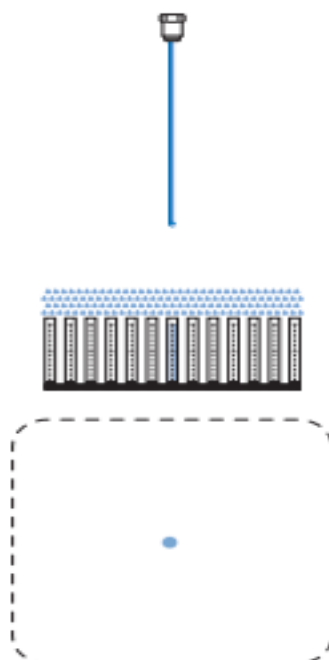
**Shell removal application**



**SUIRO ARZ5 SERIES  
SOLIS STREAM TYPES STRAIGHT NOZZLES**

**Technical data Solid stream types**

<div>Spray angle</div> <div></div>	Type Solid stream Nozzles STRAIGHT NOZZLES (Single-Point distribution)	1/4 BSPT	(Stainless steel) Material No		Orifice d (mm)	Capacity at different pressure values (l/min) $\tilde{V}$						
						p (bar)						
			303 SS	316 SS		1.0	2.0	3.0	5.0	10	20	35
0°	ARZ5-440002	CC	*		1,05	0,45	0,63	0,77	1,00	1,41	1,99	2,7
	ARZ5-440008	CC	*	*	1,80	1,80	2,60	3,20	4,10	5,8	8,2	10,8
	ARZ5-440010	CC	*	*	2,00	2,30	3,20	3,90	5,10	7,20	10,20	13,50
	ARZ5-440020	CC	*	*	2,80	4,60	6,50	7,90	10,20	14,40	20,00	27,00







## FOG / MIST CANNON SPRAY NOZZLE

**Cannon mist/fog spray stainless steel 1/4" male thread full cone mist dust control removal jet nozzle**

### Spray Characteristics

- Spray pattern: Full cone mist
- Thread size: 1/4"
- Orifice size: 0.1mm, 0.2mm, 0.3mm, 0.4mm, 0.5mm, 0.6mm, 0.7mm...
- Spray angle: 45, 60 or 80 degree

### Product Details

#### Product feature:

- The SS body and stainless steel metering parts permit machining to close tolerances for precision.
- Spraying pattern: full cone pattern;
- Thread size be 1/4 inch male or female, BSPT OR NPT;
- Orifice Diameter can choose 1.0mm, 1.1mm, 1.2mm, 1.5mm
- Degreasing and phosphating in surface treatment;
- Other chemical treatment and low pressure applications.
- Fine mist spray nozzle is applied the low-pressure theory, the spraying liquid could be running water, the misting performance is excellent.

#### Applications:

1. Wetting and rust removal
2. Air humidification, chemical treatment
3. Chemical spraying
4. Liquid spraying
5. Tobacco leaf humidification, tablet coating
6. Flue gas evaporative cooling
7. Component cooling
8. Fruit spray wax
9. Glazing of tiles
10. Plant humidification
11. Salt spray test
12. Artificial fog




#### Performance data:

Orifice size (mm)	Flow rete (L/min) at different water pressure (bar)								
	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	35 bar
1	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90
1.5	0.39	0.48	0.55	0.61	0.67	0.72	0.86	1.30	1.70





Tongue spoon nozzles

1/4 BSPT	Type Flat fan Nozzles Capacity size	Rate d orific e Dia. (mm)			V (l/min)							Spray angle 		
					p (bar)							0.5 bar	1.5 bar	4 bar
			0.2	0.3	0.5	0.7	1	1.5	2	3	4			
CC	3	1.4	.	0.75	0.97	1.1	1.4	1.7	1.9	2.4	2.7	86 °	112 °	126 °
CC	24	4.1	4.9	6.0	7.7	9.2	10.9	13.4	15.5	18.9	22.0	115 °	131 °	144 °

Features and Benefits

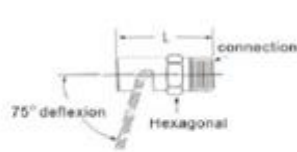
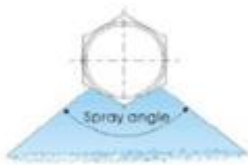
- Precision engineered for dependable, accurate control of deflection and spray angle.
- Wide angle flat fan spray pattern with uniform distribution and medium impact
- Unobstructed flow passages minimize clogging.
- Medium sized drops
- Suitable to rinse softly and not to wash strongly.
- Inlet direction and outlet direction make a 75 degree deflection.
- Also can be used in spraying liquid ,steam and air.





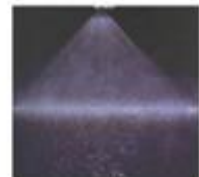
## Application

Cooling conveyor belts  
 Materials cooling  
 Filters washing  
 Film washing  
 Fire fighting (fire suppression / prevention) systems  
 Foam knockdown (Defoame)  
 Spray agitation  
 Spraying eliminator plates  
 Water curtain  
 Spray liquid, steam and air  
 Cleaning and spraying  
 Spray paint plants



### Common application

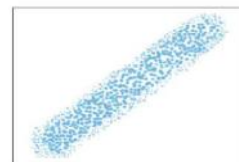
- Clarify board of spraying air
- Cooling conveyer belt
- Film development
- Fire proofing
- Water curtain




### Dimension and weight


For the biggest for each style:





### SUIRO ARZ544 SERIES SUIRO TONGUE - SPOON TYPE NOZZLE

Spray angle 	Capacity Size	1/4 BSPT	3/8 BSPT	(Stainless steel) Material No	Equiv. Orifice Dia. (mm)	Capacity at different pressure values (l/min) $\tilde{V}$							
						p (bar)							
						1	2	3	4	5	6	7	10
25°	ARZ-2540	CC		316 SS	3,6	9,1	12,9	16	18	20	22	24	29
35°	ARZ-3520	CC			2,8	4,6	6,4	7,9	9,1	10,2	11,2	12,1	14,4
45°	ARZ-4560 688.923		CE		4,8	14,14	20,00	24,50	27,60	31,62	33,7	36,6	43,6

Spray angle 	Capacity Size	Spray Angle			Spray Diameter d at p=2 bar	
		1 Bar	3 Bar	7 Bar	H= 250m m	H= 250m m
25°	ARZ-2540	15 °	25 °	34 °	120	240
35°	ARZ-3520	24 °	35 °	40 °	220	430
45°	ARZ-4560 688.923	32 °	40 °	49 °	220	440



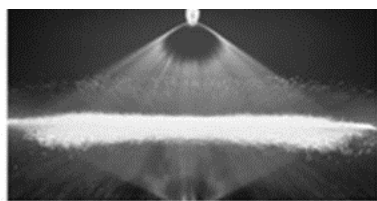
## PROPERTIES AND BENEFITS

- SUIRO Tongue - Spoon types nozzles are a one-piece construction in stainless steel.
- SUIRO Tongue - Spoon types nozzles very high impact flat spray pattern with narrow spray angle, sharply defined edges and uniform spray distribution.
- SUIRO Tongue - Spoon types nozzles solid one-piece design with deflector plane.
- SUIRO Spray Nozzle This model the probability of clogging is very low because have got passage hole and SUIRO Tongue - Spoon types nozzles large unobstructed flow passage minimizes clogging.
- SUIRO Spray Nozzle deflection surface is precision machined.
- SUIRO Spray Nozzle this model stream has medium impact force and medium droplets.
- SUIRO Tongue - Spoon types nozzles have a The two types: They are made in Stainless Steel 303SS and 316SS
- SUIRO Tongue - Spoon types nozzles, their stainless steel body is highly resistant to chemicals and wear and assure a long service life.
- SUIRO Tongue - Spoon types nozzles, The two types, 303SS and 316SS , have a special hydrodynamic design and are machined with high precision to produce a solid needle jet.
- SUIRO Tongue - Spoon types nozzles, provide a sharp and high pressure spray jet power. These nozzles offer a stronger impact force than other types at the same operating pressures and flow rates.
- SUIRO Tongue - Spoon types nozzles, designed for applications requiring medium or high liquid pressures.
- SUIRO Tongue - Spoon types nozzles, provide a concentrated solid stream jet and offer a stronger impact force than other types at the same operating pressures and flow rates.
- SUIRO Tongue - Spoon types nozzles, they are particularly hard, resistant to wear, have a long service life and offer high precision performances.
- Not prone to clogging. hard, sharp flat fan narrowly delimited jet pattern.
- Material: PP - 303SS - 316SS
- High pressures may shorten nozzles service life.

## Applications

Degreasing and phosphating  
Vegetable and fruit washing  
High impact washing  
Paper machine deckle spray  
Stone gravel washing.  
Oil Removing  
Cleaning  
Filter cloth washing program  
Felt washing program  
Wire cleaning application  
Parts washing program  
Paint scraping applications  
Shell embossing application

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## SUIRO 11001 Stainless Steel SS Flat Fan Filter Spray Nozzle

### Feature:

1. Flat fan type, tapered edge spray pattern ;
2. One piece design
3. Spray angle 110 degree
4. Uniform spray distribution with flow rates below 1 gpm at 40 psi (3.8 lpm at 2.8 bar)
5. Operating pressures up to 500 psi (35 bar)
6. With a SS filter
7. Thread size: 1/4"
8. Material: 316SS
9. Flow rate: 0,12 L/min @ 0.3 bar to 1,3 L/min @ 35 bar
10. Working pressure: 0,3-35 bar (Low pressure type)
11. Orifice diameter (mm): 0,66 mm

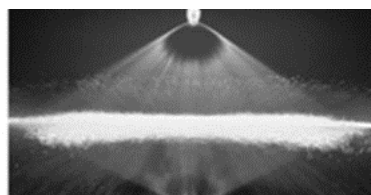
### Applications

1. Cleaning machines for carpets and furniture;
2. Cooling;
3. Lubricants;
4. Surface treatments;

## SUIRO 11001 Stainless Steel SS Flat Fan Filter Spray Nozzle

Spray angle 3 bar	Type Flat fan Nozzles	1/4 BSPT	Orifice diameter (mm)	$\tilde{V}$ (l/min)										
				p (bar)										
				0.3	1.0	2.0	3.0	4.0	5.0	6.0	7.0	10	20	35
110 °	11001	CC	0,66	0,12	0,20	0,32	0,39	0,46	0,51	0,56	0,60	0,72	1.00	1,3

Spray Diameter			
1.5 bar	3 bar	6 bar	14 bar
94 °	110 °	121 °	124 °

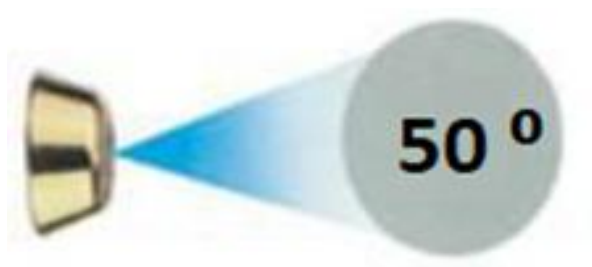




**Stainless steel or brass with ss filter burner hollow cone or full cone spray nozzle**

1. Working pressure: 3-50 bar (Low pressure type)
2. Thread size: 1/4"
3. Flow rate: 21,6 L/H @ 2 bar to 91,6 L/H @ 35 bar
4. Spray angle: 45 degree to 50 degree
5. Material: 316SS
6. Orifice size: 1,02 mm
7. With a SS filter

Code	Orifice size (mm)	Flow rate L/H @ bar							
		2 bar	3 bar	5 bar	7 bar	10 bar	15 bar	20 bar	35 bar
12	1.02	21.6	26.9	34.6	40.8	49.2	60.2	69.3	91.6







Spray angle (0.7 bar)	Pipe Connection NPT or BSPT (out)	316SS	PP	Capasite Size	Orifice size (mm)	Diameter of nozzle without block (mm)	Capacity $\dot{V}$ (l/min)				
							p (bar)				
							0.7	1.5	3	7	25
120 °	1/4	*	*	13	3.2	3.2	4.9	7.3	10.3	15.7	30
	3/8	*	*	30	4.8	3.2	11.4	16.7	24	36	68
	1/2	*	*	120	9.5	4.8	45	67	95	145	270
	3/4	*	*	210	12.7	4.8	80	117	166	255	480
	1	*	*	340	15.9	6.4	130	190	270	410	775
	1 1/2	*	*	640	22.2	7.9	245	355	505	770	1460
	2	*	—	1780	38.1	11.1	680	995	1405	2150	4060
	3	*	—	2560	44.5	14.3	980	1430	2020	3090	5830
	4	*	—	5250	63.5	15.9	2000	2930	4140	6330	11960







**Suiro Stainless steel Boat Vessel desulfurization 316SS umbrella wash spraying fire protection  
helix screw helical spjt spiral nozzle**

**Spray Characteristics**

- Thread size: 1/4", 3/8", 3/4", 1"...
- Spray angle: 120 degree
- Spray pattern: full cone
- Material: 316SS/PP

**Product Details**

**Product feature:**

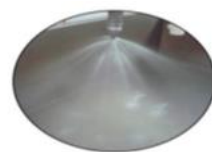
- Thread size: 1/4", 3/8", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4"
- Spray angle: 120 degree
- Spray pattern: full cone spiral
- Material: 316SS
- Flow rate: accept customized
- High energy efficiency
- One-piece/no internal parts
- Clog-resistant performance
- High discharge velocity

**Industrial Spiral Nozzles including:**

SS Spiral Nozzle

**Applications:**

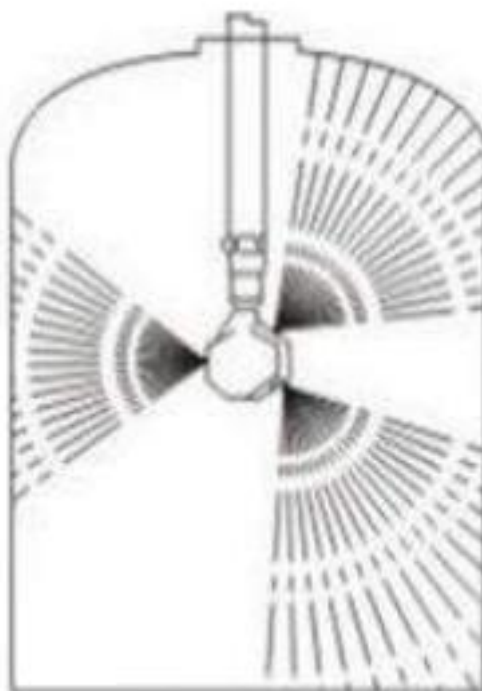
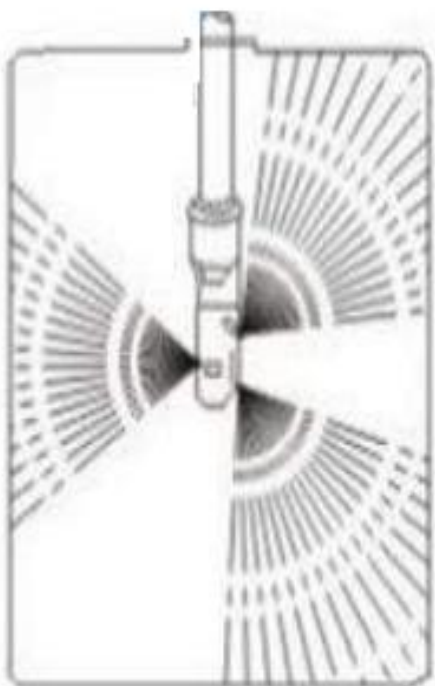
1. Cleaning waste gas;
2. Gas cooling;
3. Washing and bleaching process;
4. Fire production;
5. Flue gas desulphurization system;
6. Dust-removal system.





### Tank Cleaning Spray Nozzles

Nozzle Type	Ordering Model	Thread (in.)	Flow rate l/dk					
			p (bar)					
		Bspt or NPT	1 Bar	1,5 Bar	2 Bar	2,5 Bar	3 Bar	4 Bar
ARZ-28250	ARZ-28250-21	3/4 Female	48	59	68	76	83	96
	ARZ-28250-45		103	126	145	162	178	205





- 1) Suiro Tank Cleaning Spray Nozzles With 3pcs flat fan spray nozzles installed in the rotated spray head which can you work though using the rotating power from the fluid.
- 2) Suiro Tank Cleaning Spray Nozzles Precisely positioned spray head.
- 3) Suiro Tank Cleaning Spray Nozzles 316 Stainless steel axle bearing and bearing ring offer a long wear life and the Teflon is also as the nozzle making material.
- 4) Suiro Tank Cleaning Spray Nozzles Pressure range: 0,7 to 4 bar
- 5) When there is no need to control the nozzle, the liquid pressure should be less than 5 bar
- 6) Suiro Tank Cleaning Spray Nozzles High impact cleaning, the maximum jet pressure is up to 7 bar.
- 7) Suiro Tank Cleaning Spray Nozzles Maximum operating temperature: 93° C
- 8) Suiro Tank Cleaning Spray Nozzles Maximum wear life and corrosion resistance results from construction made of 316 Stainless Steel with bearing retainers constructed of sleeves of PTFE.
- 9) Suiro Tank Cleaning Spray Nozzles, can be installed in either vertical or horizontal positions.
- 10) Suiro Tank Cleaning Spray Nozzles, the precisely positioned orifices provide complete orbital coverage of all interior surfaces.
- 11) Suiro Tank Cleaning Spray Nozzles, features three high - impact flat sprays mounted in a rotating spray head.
- 12) Suiro Tank Cleaning Spray Nozzles, effectively washes interior of small tanks and drums up to 2,4m in diameter.
- 13) Suiro Tank Cleaning Spray Nozzles Spray coverage: 360 °





## SUIRO CIP nozzle 3/4" SS304 rotating tank cleaning ,

### Product information:

Thread size: male thread, 3/4" BSPT

Blowing pattern: 360 degree spray pattern

Material: stainless steel 304

Working pressure: 1-3 bar

Connection: Female

Cleaning radius: 0,8 - 1,25 m

Fluxation: 15-17 m<sup>3</sup>/h

Exterior: Mirror

Max&Period: Working temperature & colon 95 degree

Max&Period: Ambient temperature & colon 140 degree

### Features:

three rotating flat sprays

replaces made of

stationary nozzles due to

Easy installation – compact design fits into most tank openings

Operates at high temperature – capable of withstanding high temperatures



### Applications:

Tank washing

Industry cleaning,

Tube cleaning

Pipe/duct work cleaning

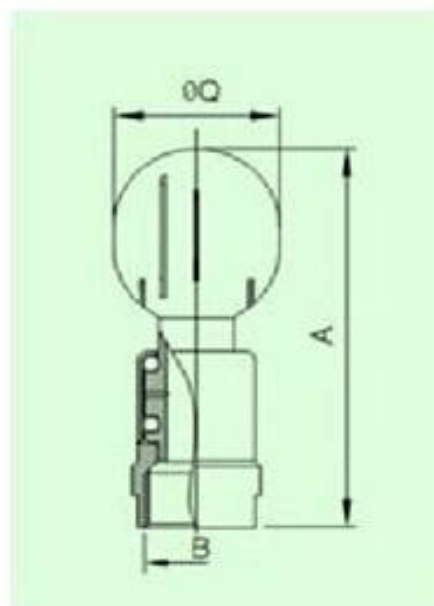
Chemical processing tanks

Container / pipeline cleaning

Pure water / steel bucket cleaning

Food processing tank cleaning

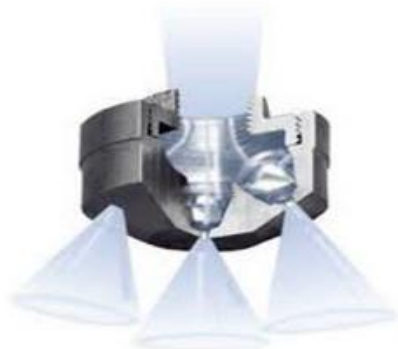
Pharmaceutical processing tank cleaning.



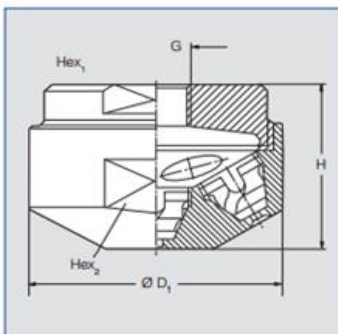
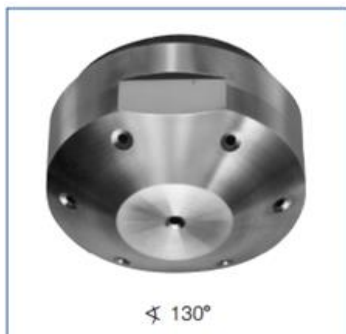
### Product Diameter:

Size	B	A (mm)	Q (mm)
DN20	3/4" (BSPT)	140	53


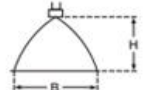





### ARZ130220 - SUIRO 7 CLUSTER HEAD NOZZLES



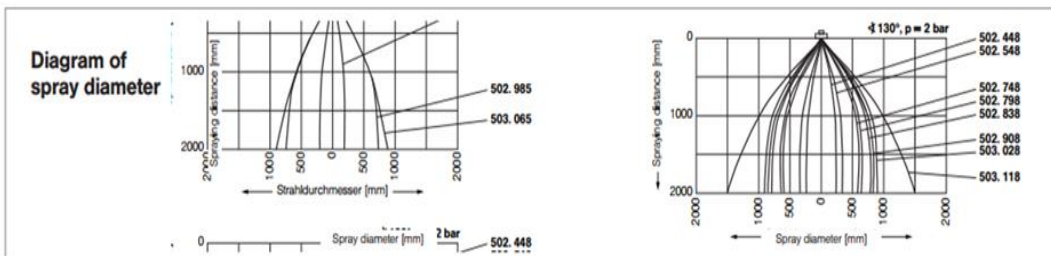
	Dimensions	
	1/2"	3/4"
Hex <sub>1</sub>	27	50
Hex <sub>2</sub>	36	55
H	28	53
D <sub>1</sub>	40	60
Weight (Brass)	150 g	410 g

Spray angle 	Ordering no.		G	B Ø [mm]	E Ø [mm]	$\dot{V}$ [l/min]						Spray diameter D at p = 2 bar	
	Type	Mat.				p [bar]							
30	Brass	BSpp	0.5	1.0	2.0	[US gal/ min] at 40 psi	5.0	10.0	H = 1000 mm	H = 2000 mm			
130°	ARZ130220-502908		3/4"	4.00	2.00	8.80	12.70	18.00	5.58	28.40	40.20	1500	1800

Fine full cone atomization with the aid of several hollow cones spraying into one another.

### Application

Chlorine precipitation, desuperheating, cooling of gaseous and solid material, absorption as well as for improvement of chemical reaction by enlarging the contact area.



Conversion formula for the above series:  $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$





**SUIRO ARZ-727-SS Stainless Steel injection molding wind jet high impact  
fan-shaped compressed air spray jet curtain WIND JET AIR NOZZLE**

**PRODUCT DETAILS**

Brand Name: SUIRO

Type: Sprayers

Model number: ARZ-727-SS wind jet nozzle

Item specifics

Material: Stainless steel

Hole size is 1 mm

Spray Pattern: Flat fan distribution of compressed air

Thread type: BSPT

Thread size: 1/4" BSPT male

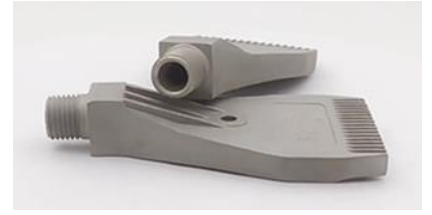
Orifice: 47MM Width ,16 blow holes

Working pressure: Maximum 50 bar

Temperature: Maximum 200 degree

**Applications:**

- Plating pretreatment cleaning;
- Painting and coating before chemical treatment;
- Part cooling;
- Industrial cooling
- Parts dry;
- Parts washing;
- Material movement;
- Removal of dust in molds;
- Air in cast iron pipes;
- Industrial drying
- Blow bottle drying;
- Assembly line drying;
- Dust removal from leather;
- Cooling hot rollers;
- TV screen spray;
- Industrial cleaning;
- Deburring in plug holes;
- Smooth surface application of chocolate candy;
- Washing or drying PCB manufacturing;
- Moisture purge on transfer chamber surface;
- Dry plastic packaging tray;
- Leak testing of dry pressure spray cans after cleaning.



### Product description

Wind jet nozzle is with a high impact, flat fan distribution of compressed air.

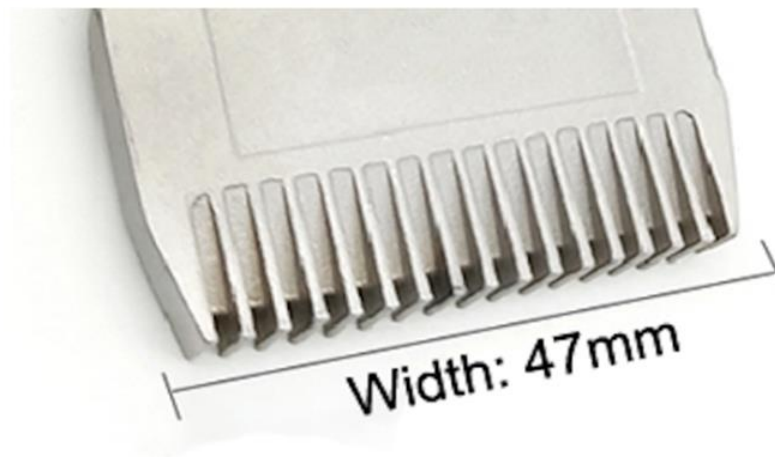
It is available in durable stainless steel. It generates a quiet, efficient, controlled flat fan distribution of compressed air. The air stream is discharged through 16 precision orifices that ensure uniform distribution and spray pattern integrity.

It fits 1/4 inch BSPT and offering uniform distribution of air blowing.

Stainless steel wind jet nozzle withstands temperatures up to 200 degrees at about 50bar.

### Applicable Industries:

Manufacturing Plant, Machinery Repair Shops, Food & Beverage Factory, Retail, Construction works



Hole size: 1mm

Hole quantity: 16pcs







#### Suiro Aluminium Air Nozzles,

#### Aluminum alloy 1/4" external thread dust water blow off flat compressor wind jet air spray nozzle

#### Spray Characteristics

- Spray pattern: Flat compressor air
- Operating pressure: max 10 bar
- Nozzle thread size: 1/4"

withstanding significantly

higher thermal and mechanical loads than comparable air nozzles made of plastic. In addition, the blowing force also increases at higher air pressures, making this series

#### Product feature:

- Produce a fan-shaped compressed air jet, the air jet is from the opening of 16 pcs grooves;
- Hole size is 1 mm;
- Width is 47mm;
- Jets high-impact compressed air;
- Fixed row of nozzles provides an effective air curtain;
- The internal structure design conforms to the principle of aerodynamics, effectively reducing the air resistance during operation;
- Low operating noise and low air consumption;
- Fan-shaped compressed air flow;
- Eco-friendly silent design;
- Material: Aluminum alloy Injection Molding;
- Maximum Working Pressure: 10 bar.

#### Applicable industries:

Electronic, chemical, environmental protection, steel, machinery, coating, electroplating, textile, automobile, paper, medicine, food and other industrial production fields.



**Material**  
Aluminum



**Noise level**  
76 db(A) at 2 bar



**Pressure**  
 $p_{\max} = 10 \text{ bar}$



**Blowing force**  
2.4 N at 2 bar



**Air consumption**  
 $V_{LN} = 18 \text{ m}^3/\text{h}$  at 2 bar

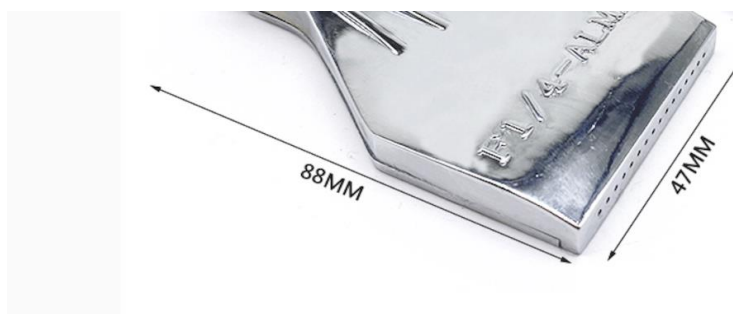


**Max. temperature**  
200 °C



### Applications:

- Plating pretreatment cleaning;
- Painting and coating before chemical treatment;
- Part cooling;
- Parts dry;
- Parts washing;
- Material movement;
- Removal of dust in molds;
- Air in cast iron pipes;
- Blow bottle drying;
- Assembly line drying;
- Dust removal from leather;
- Cooling hot rollers;
- TV screen spray;
- Industrial tank cleaning;
- Deburring in plug holes;
- Smooth surface application of chocolate candy;
- Washing or drying PCB manufacturing;
- Moisture purge on transfer chamber surface;
- Dry plastic packaging tray;
- Leak testing of dry pressure spray cans after cleaning.





## **Suiro Liquid & Air Mixing spray air atomizing hydro pneumatic nozzle**

Can creating aprox 30degree circle spraying pattern. Spraying distance can reach 4-6 metre be very suitable for the long distance and narrow angle condition

When recude the spraying distance via the needle valve, you can using it for spraying lubricants and Anti-rust agent

1/4" adjustable pressure or siphon/gravity dust control spray air atomizing hydro pneumatic nozzle

Spray Characteristics

- Connection: 1/4 inch Female thread
- Flow rate can be adjustable (has Non-adjustable)
- Six spraying pattern
- Pressure or Siphon type



### **Applications:**

1. Air humidification;
2. Chemical processing;
3. Chemical spraying;
4. Liquid spraying;
5. Tobacco humidification;
6. Flue gas evaporation and cooling;
7. Sterilization and Disinfection;
8. Cooling parts;
9. Spraying, lubricants.
10. Moistening and derusting.
11. Spraying candle on fruit.
12. Chemical treatment.
13. Dust suppression.
14. Tablets coating.
15. Cooling gas.
16. Cooling compenert.



## Product Details

### Product feature:

- Connection: 1/4 inch Female thread
- Operation principle: Liquid & Air Mixing create fog
- Pressure type, supply both air & liquid pressure; Siphon type, supply only air pressure
- Stainless steel material
- Orifice size of liquid cap: Be customized (smallest is 0.3mm)

Humidification: generate negative ions, increase air humidity

Cooling: spray water mist to absorb heat in the air to achieve cooling

Anti-static: water molecules in the air are good conductors of static electricity, eliminating static electricity

Dust removal: spray water mist to cover dust particles in the air

Disinfection: Fine particle size, ideal for textile mills, electronics mills, paper mills

Widely used in cotton textile chemical fiber, electronic dust-free workshop, printing workshop, flowers and vegetables, animal husbandry, paper mills, tobacco factories,

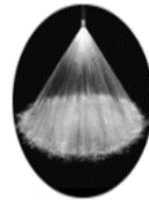
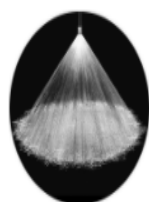
Packing factory, clean room, SMT workshop, food factory, plastic factory, cigarette factory, steel factory



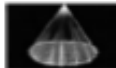
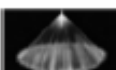
Textile factory: When the air is dry, dust, flying flowers and cotton wool will fly around in the air, causing air turbidity, seriously affecting product quality, and also affecting the health of employees;

Electronics factory: When the air humidity is at a low pressure of 30% RH, the insulating materials rub against each other to generate low and high voltage static electricity of several hundred volts to several thousand volts, which may cause serious damage to microelectronics factories, computer rooms, printing factories and other places;

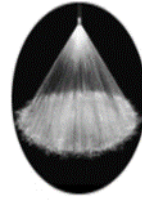
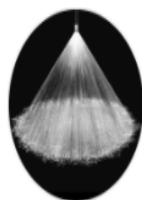
Paper mill: When the paper is too dry, it will be curled and deformed, resulting in defective products during the printing process. When the air humidity reaches 60-70%RH, the paper will become very flat.



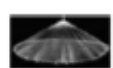


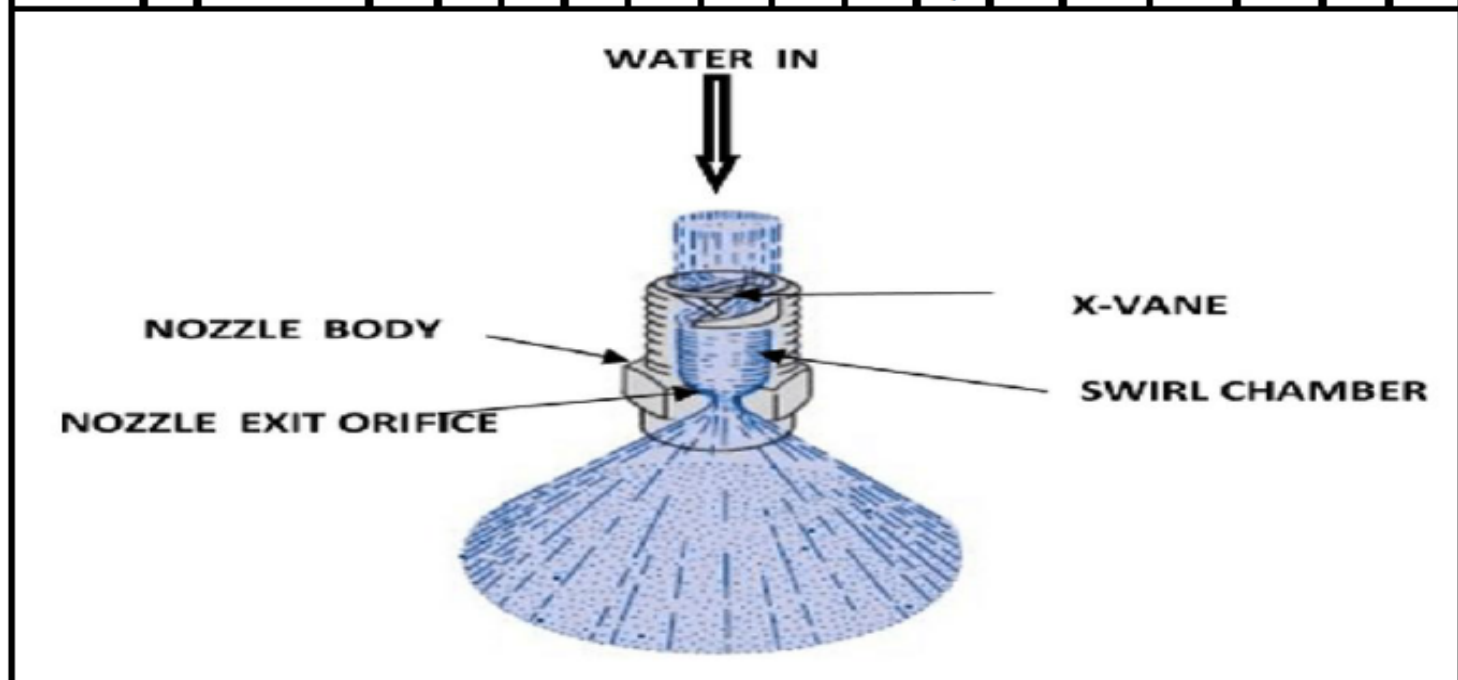


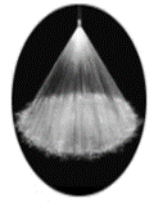
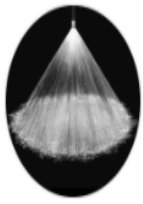
<div>Spray angle</div> <div>Axial-flow</div> <div>Full cone</div> <div>Nozzles</div> <div></div>		Type	1/4 BSPT	3/8 BSPT	1/2 BSPT	1 BSPT	B Ø (mm)	E Ø (mm)	$\dot{V}$ (l/min)							<div>Spray Diameter d at p=2 bar</div> <div></div>	
									p (bar)								
																0.5	1.0
<div></div> <div>60°</div> <div></div> <div>90°</div>	460.484	CC				1,45	1,45	0,92	1,21	1,60	1,88	2,31	2,64	3,05	260	520	
	460.644	CC				2,30	2,30	2,30	3,03	4,00	4,70	5,77	6,60	7,61	270	540	
	460.724	CC				2,95	2,80	3,62	4,77	6,30	7,41	9,09	10,40	11,99	280	560	
	460.804	CC				3,70	3,70	5,74	7,58	10,00	11,76	14,43	16,51	19,04	290	570	
	460.326	CC				0,80	0,55	0,23	0,30	0,40	0,47	0,58	0,66	0,76	430	750	
	460.406	CC				1,20	1,20	0,57	0,76	1,00	1,18	1,44	1,65	1,90	490	880	
	460.526	CC				1,70	1,55	1,15	1,52	2,00	2,35	2,89	3,30	3,81	500	910	
	460.606	CC				2,10	2,05	1,81	2,39	3,15	3,70	4,54	5,20	6,00	510	930	
	460.646	CC				2,40	2,40	2,30	3,03	4,00	4,70	5,77	6,60	7,61	520	950	
	460.726	CC				3,20	2,80	3,62	4,77	6,30	7,41	9,09	10,40	11,99	530	970	
	460.746		CE			3,15	3,15	4,08	5,38	7,10	8,35	10,24	11,72	13,52	530	980	
	460.806		CE			3,90	3,90	5,74	7,58	10,00	11,76	14,43	16,51	19,04	550	990	
	460.886			CG		5,45	4,50	9,19	12,13	16,00	18,82	23,08	26,41	30,46	550	1010	
	460.926			CG		5,90	4,50	11,49	15,16	20,00	23,52	28,85	33,01	38,07	560	1010	
	460.966			CG		6,55	4,85	14,36	18,95	25,00	29,40	36,07	41,26	47,59	560	1020	
	491.146 1HHSS10 S				AM	11,00	7,50	40,78	53,81	71,00	83,50	102,43	117,19	135,16	560	1040	





Spray angle Axial-flow Full cone Nozzles  	Type	1/4 BSPT	3/8 BSPT	1/2 BSPT	1 BSPT	B Ø (mm)	E Ø (mm)	$\dot{V}$ (l/min)							Spray Diameter d at p=2 bar	
								p (bar)							 H=200 mm	H=500 mm
								0.5	1.0	2.0	3.0	5.0	7.0	10		
 120°	460.368	CC				0,85	0,65	0,36	0,48	0,63	0,74	0,91	1,04	1,20	700	1240
	460.408	CC				1,20	1,20	0,57	0,76	1,00	1,18	1,44	1,65	1,90	720	1260
	460.608	CC				2,10	2,05	1,81	2,39	3,15	3,70	4,54	5,20	6,00	820	1370
	460.648	CC				2,40	2,40	2,30	3,03	4,00	4,70	5,77	6,60	7,61	840	1400
	460.688	CC				2,75	2,75	2,87	3,79	5,00	5,88	7,21	8,25	9,52	850	1430
	460.728	CC				3,20	2,80	3,62	4,77	6,30	7,41	9,09	10,40	11,99	860	1470
	460.808		CE			3,90	3,90	5,74	7,58	10,00	11,76	14,43	16,51	19,04	900	1580





### **Full Cone**

316SS spray nozzle wide angle solid jet spray with a X vane

Spray Characteristics

- Thread size: 1/8", 1/4", 3/8"...10"
- Spray pattern: Wide angle full cone
- Material: 316SS

### **Product Details**

#### **Product feature:**

- Thread size from 1/8" to 10";
- Spray angle is wide angle full cone spraying, (biggest can reach up to 120 degree);
- Material are 316SS and PP;
- The vane can be removable;
- Produce wide angle full cone spray, the spray area is circular;
- Unlimited internal circulation channel and could produce uniform distribution under the high-pressure & large flow rate, easy to control the spraying flow, the blade design;
- Integral structure, fit for small to medium flow spray;

#### **Applications:**

- Phosphating of metal parts
- Car rain test
- High pressure washing
- Chemical cleaning of printed circuit boards
- Mirror-making silver plated
- Paper mill mesh roll cleaning
- Food Industry Beverage Bottle Cleaning
- SO2 removal
- Nitric oxide control
- Steelmaking and continuous casting cooling
- Exhaust gas scrubbing
- Quenching and Cooling
- Fire fighting and fire protection
- Dust control
- Defoaming
- Spray application