

Material Selection of the Nozzle

In various kinds of nozzles, Changyuan Spraying Products Co., Ltd. has marked the materials on the products, the ordinary engineering PP nozzles are marked with PP, stainless steel SS, brass BRASS, for see the table below for details:

Plastic	Poly(vinyl chloride)	PVC
	Poly propylene	PP
	Polyphenylene oxide	POPO
	Acrylonitrile butadiene styrene	ABS
	Polyvinylidene Fluoride	PVDF
	Polyphenylene styrene	PPS
	Poly Tetra Fluoro Ethylene	PTFE
	Epoxy Resin	ARALDITE
	Fibre Reinforced Plastic	FRP

Metal Special Material	BRASS	BRASS
	303 Stainless Steel	303SS
	304 Stainless Steel	304SS
	316 Stainless Steel	316SS
	316L Stainless Steel	316LSS
	Titanium	TN
	Hard Alloy	CCA
	Aluminum Alloy	ALMA
	Sapphire	SAS
	Carbuncle	RUS
	Graphite	GRS
	Ceramics	SIS

A range of application

The application scope is widespread, penetrates into various areas, the product has covered with surface treatment, electron, spinning and weaving, steel and iron, drugs manufacture. Increasing application scope evince that CYCO'S nozzle has been a dramatic influence

■Washing

Semiconductor wafer cleaning
Waste gas desulphurization
Cement mixer's high-pressure cleaning
Brewage barrel's self-cleaning
Processing chemical cleanings for automobile, - motorcycle, domestic electric appliances and so on
High pressure washing
Electronic circuit board cleaning
circuit chemical washing
Beer bottle cleaning
mirror industry glass cleaning
Clean the sand on the strainer
Sand ,coal ,gravel washing
The paper mill wool blanket and nettings clean
Tank ans inside surface of tank clean
biscuit packaging environment for food-processing
Strainer and filter
Fruit & vegetables washing
bottle capsule clean for food-processing
mirror industry glass cleaning
Clean industrial equipment
Clean the article suspension chain
Metal cleaning and processing
Container washing
High pressure water for dephosphorization on- the surface of rolled steel
barrels self-cleaning
plastic containers cleaning
Various of Containers and OilTank cleaning
Clean the floor in processing workshop.

■Cooling

Cancel factory's gas ignition
Steel continuous casting
skin coverage wire elongation project
plastic pipe forming
Cooling tower
conveyer belt cooling
heat treatment before quenching
Die casting cooling
PVC pipe extrude cooling
The secondary cooling of billet continuous casting machine
In Steel rolls cooling
storage tanks cooling
Roof cooling
spiral condenser cooling
chamber at kiln back end cooling
aluminum ware angioplast cooling
hoop rolling mill cooling
tool and material cooling
Before electrostatic precipitation cooling and humidifying
draper-type muller cooling
drinks cooling
Wire stretch project cooling
Plastic moldings cooling
Product direct and indirect cooling
Spray and temperature drop for equipment



steel rolls cooling



Humidify for space prevent electrostatic



Humidify for mushroom cultivates

■Spice additive industry

Products concoction
Hot water and gas involve in the steam



storage groove LNG

■Humidify for space and local resistance

Adjust air humidity printer
Prevent the plastic part Electrostatic thermal insulation in storeroom for bloat fresh fruit
Humidify for printer
silica gel and coating In press cylinder
oxygen chamber in hospital
twig cutting flowers freezing chamber
spray drying LCF-A facility adjust the temperature pavilion
spray pond

Prevents the coated paper cambered surface to split
mushroom cultivates
Humidify for textile workshop
Humidify for cellphone
Cold holdingroom
Humid room
System for paper humidify
Humidify for corrugated paper system
Man-power snows machine
mist producer for garden

■AntiVirus and disinfection

Bottle capsule's disinfection
Rice vessel's backwoods coli countermeasure

disinfected cloth for the food conveyor belt
Building clean

■Spraying & Coating

sirup spray on sponge cake
dustproof spray on iconoscope
sugar-coating
spray adhesives on construct plywood
phosphorize metal parts
airless spray and spray paint
tablet coating
antirust spray
papermaking material roll spray
spray dye on products to identify
cere, colophony and wet menstruum spray on medicament
baste before firing food
additive and condiment spray on food
safeguard coating on furniture
spray remover on mould
brick and color tile glazing
metal surface basting
wall spray of instrument and beverage tin
deodorization in chimney
glue coating on printing roller
egg-juice coating on cake and biscuit
separant coating on metal
glazing and painting on tile
liquor spray on brick

■Removing & Peel off

papermaking, clean paper edge
volume label peel off bottles
separate option of quality control
dust removing off glass board
paper machine finishing
metal sheet desorption before punch
replacing indication of air condition filter

■Dust prevention

grist deposite field conveying
prevent dust from clinging after coating
cement and mill factory
prevent dust when conveying foundation
garbage clearing vehicle push down ash to ground
wipe off dust from cupola
coal ash control when dumping coal
cement factory
dust let from chimney and incinerator

■Surface treatment

spray anti-rust oil on metal pipe
ceramic tile glazing
dye marker of making corrugating mould
separant coating on mould
protection spraying on glass board
cere spraying in glass bottle

■Agriculture & stockbreeding

farming irrigation
spray pesticide
fight a drought irrigation
vegetation protection
grow fungus
spray root of crops
large-scale spraying of crops

■Dust control

dust control when conveying coal ash and sand
humidify the top of tram
wipe off dust from gas tower
ferric oxide control in steel rolling
coal ash control when dumping coal
dust control at cement factory
dust control when conveying wooden bits
garbage clearing vehicle push down ash to ground
dust control in conveying, loading and unloading garbage
wipe off dust from cupola

■Lubricate

lubricating and rust prevention on iron board
lube coating on bottle
lube coating in punch project
lube coating on cable
lubricate gear
spray remover
lubricate conveyer belt and drive chain
lubricate wire rope
molding lubricate on large-scale forge press
hydraulic pressure machine oiling
lubricate reamer sleeve and spring
lubricate axis and axletree

■Fire protection

electric appliance fitting section
pressure vessel
coal store section
horizontal multilayer drier
rocket and missile test bed
house and common building
mine
convey belt channel
nuclear power station fire protection
oil trough and gas trough fire protection
oil station of tank car
rocket launcher fireproofing insulation
deposited jar
pipeline of steel mill and epurating mill
Liquefied petroleum gas trough and tank car
shipping and pigboat
offing oil field
transformer substation and farming machine substation
bin char prevention

■salt damage examination

salt damage test
salt damage examination
reaction test

■Gas control

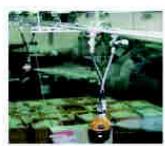
air scrubbing in spray-paint booth
air scrubbing in pipe and cleaning tower
remove sulfur dioxide (SO₂)
nitrogen oxides control (NOX)
deodorization of chimney
reactor cleanout system
air cleaning system of air control system
ferric oxide ash control in steel rolling
centrifugal damp dust picker
remove dust from chimney and incinerator
spray ammonia to eliminate static
spray lime slurry to remove sulfur dioxide



Tower desulfurization in power station



Pretoatment for car industry



Textile workshop humidification



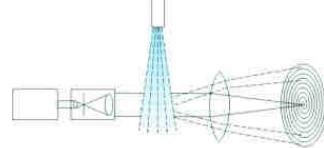
Coding in HongKong Ocean Park



Coding in HongKong Ocean Park

►► The principle of work of laser particle sizer in CYCO

1. The laser will scatter around the granule, it is a method to connect the refraction image with the interference of the light. The diameter tested is a bit smaller than the actual granule.
2. It forms two interference light stripes with crossing laser light, sense the scatters of the granule of the interference light with several light sensors in certain distance, thus calculating the diameter of the granule with the potential difference. This method is free of the influence of granule density and can test the speed of the granule simultaneously.



The material of the nozzle has different effect to the wearable resistance of the liquid

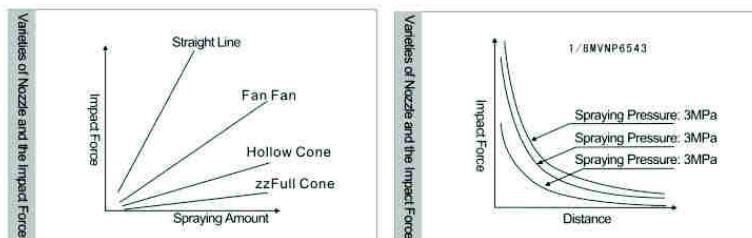
The liquid flows at high speed at the mouth of the nozzle, therefore, the nozzle mouth will be easily worn. Different chemical liquid has different PH value and viscosity, and has different friction to the nozzle. The friction to the nozzle is also different even the PH value and viscosity is the same if different materials are used. The hardness of ceramics (SIS) is 7, and the wearable resistance is 20-30 times of stainless steel, but ceramics is fragile and hard to make, alloy has high wearable resistance but also has high cost in making, stainless steel nozzle has a extremely wide application for it features high wearable resistance, though the price is higher than plastic but much lower than alloy and ceramic, therefore it is widely promoted. Engineering plastic nozzle has poor wearable resistance, but it features low cost with perfect performance in chemical resistance, therefore it is the nozzle with most application.

The spraying angle of the nozzle is different under different pressure

Under different pressure, the spraying angle will change. Under low pressure, the angle is small and the cleaning strength is also small, when the pressure is gradually increasing, the spraying angle is also increasing, so does the cleaning strength. Different materials have different performance in enduring pressure, therefore, it is common that the nozzle is required to be used under standard pressure. If the nozzle is wearable, the Flux of it will change and the spraying angle will also change, the flux increases, the pressure drops and the spraying angle will also be small, the wearable spraying mouth will change the spraying direction, thus largely dropping the using efficiency.

Impact Force

The injection force differs in different injection shape under same pressure. The solid stream features highest impact, and then the fat fan, hollow cone and full cone.



It is important to maintain the nozzle

Under different PH value, viscosity and pressure, nozzles made of different materials have different wearable resistance. Therefore, the clients should periodically clean and maintain even replace the nozzle according to the actual condition. The nozzle will be easily clogged when cleaning dirty work pieces. So you have to change the cleanliness of the solution, filter the liquid, and periodically clean the nozzle for achieving normal injection effect. If the PH value of the solution is extremely strong, it is required to select nozzle made of anti-corrosion materials (316F and PVDF), if the density of the solution is extremely high, it is required to select nozzle with high wearable resistance (Ceramics, alloy), if the nozzle is jammed, the workpiece can't be completely cleaned and the pump will run overloading, thus largely damaging the entire equipments, therefore, it is very important to maintain the nozzle.



Conversion Unit

Changyuan Company has provided the following conversion unit for the client's correct calculation when selecting the products.

Area			
cm ²	m ²	in ²	ft ²
1	1×10^{-4}	0.155	1.08×10^{-6}
1×10^4	1	1.55×10^3	10.8
6.45	6.45×10^{-4}	1	6.94×10^{-5}
9.30×10^3	9.30×10^{-2}	1.44×10^7	1

Length					
um	mm	cm	m	in	ft
1	1×10^3	1×10^{-4}	1×10^{-6}	3.94×10^{-5}	3.28×10^{-6}
1,000	1	0.1	1×10^{-3}	3.94×10^{-3}	3.28×10^{-3}
1×10^4	10	1	1×10^{-2}	3.94×10^{-1}	3.28×10^{-2}
1×10^7	1×10^3	100	1	3.94×10	3.28
2.54×10^4	25.4	2.54	2.54×10^{-2}	1	8.33×10^{-2}
3.05×10^4	3.05×10^3	3.05×10	3.05×10^{-1}	12	1

Flow rate						
/Min	m ³ /min	m ³ /hr	in ³ /hr	ft ³ /h	GAL: Metric GAL	GAL: British GAL
1	0.001	0.06	3.66×10^3	2.12	0.264	0.22
1,000	1	60	3.66×10^6	2.12×10^3	264	220
16.67	0.017	1	6.10×10^3	35.3	4.40	3.67
2.73×10^4	2.7×10^7	1.64×10^5	1	5.79×10^4	7.22×10^5	60.1×10^5
0.472	4.72×10^4	0.028	1.728	1	0.125	0.104
3.79	0.004	0.227	1.39×10^4	8.02	1	0.833
4.55	0.005	0.273	1.66×10^4	9.63	1.2	1

Pressure						
KPa	bar	kg/cm ²	lb/in ² (psi)	Atm	mHg	mH ₂ O(mAg)
1	0.01	0.01	0.145	9.87×10^{-3}	7.50×10^{-3}	0.102
100	1	1.020	14.5	0.987	0.750	10.2
98.07	0.981	1	14.22	0.968	0.736	10.01
6.89	0.069	0.070	1	0.068	0.052	0.704
1.01×10^5	1.013	1.033	14.7	1	0.76	10.34
1.33×10^4	1.33	1.36	19.3	1.32	1	13.61
9.807	0.098	0.10	1.42	0.097	0.073	1

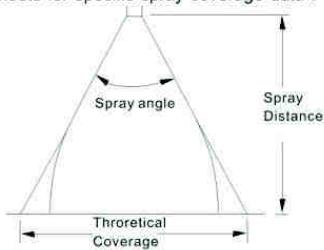
Dimension					
cm ³	l	M ³ (kl)	ft ³	GAL: British GAL	GAL: Metric GAL
1	1×10^{-3}	1×10^{-6}	3.53×10^{-6}	2.2×10^{-4}	2.64×10^{-4}
1,000	1	1×10^{-3}	3.53×10^{-3}	0.22	0.264
1×10^4	1,000	1	353	220	264
2.83×10^4	28.3	2.83×10^{-2}	1	0.623	0.749
4.55×10^4	4.55	4.55×10^{-3}	1.6	1	1.2
3.79×10^4	3.79	3.79×10^{-3}	1.34	0.833	1

Others	
Viscosity	$1P=100cP$
	$1St=100cSt$
Weight	$1kg=2.205lb$
	$1lb \approx 0.454kg$
Temperature	$[{}^{\circ}F] = [{}^{\circ}C] \times 1.8 + 32$
	$[{}^{\circ}C] = 5/9([{}^{\circ}F] - 32)$

Water Flow and Suitable Pipe Diameter				Water Flow and Suitable Pipe Diameter			
Pipes Diameter		Steel Tube		Pipes Diameter		Steel Tube	
A	B	Internal	External	A	B	Internal	External
6A	1/8B	6.5	10.5	1.3-2.2	40A	11/2B	41.6
8A	1/4B	9.2	13.8	3-5.2	50A	2B	52.9
10A	3/8B	12.7	17.3	7-12	65A	21/2B	67.9
15A	1/2B	16.1	21.7	12-21	80A	3B	80.7
20A	6B	21.6	27.2	22-38	100A	4B	105.3
25A	1B	27.6	34.0	38-65	125A	5B	130.8
32A	11/4B	35.7	42.7	70-120	150A	6B	155.2
							120-210
							215-370
							410-700
							680-1,200
							1,200-2,100
							2,100-3,600
							3,300-5,700

SPRAY ANGLE AND COVERAGE

Tabulated spray angles indicate approximate coverages based on spray of or distribution of water .In actual spraying ,the effective spray angle varies with spray distance. Liquids more than water form relatively smaller spray angles (or even a solid stream),depending upon viscosity , nozzle capacity and spraying pressure . Liquids with surface tensions lower than those listed for water .This table lists the theoretical coverage of spray patterns as calculated from the included spray angle of the spray and the distance . In actual practice, the tabulated spray angle does not hold for long spray distances ,if the spray coverage requirement is critical ,request data sheets for specific spray coverage data .



spray angle	The coverage under different distance(mm)											
	5cm	10cm	15cm	20cm	25cm	30cm	40cm	50cm	60cm	70cm	80cm	100cm
5°	0.4	0.9	1.3	1.8	2.2	2.6	3.5	4.4	5.2	6.1	7.0	8.7
10°	0.9	1.8	2.6	3.5	4.4	5.3	7.0	8.8	10.5	12.3	14.0	17.5
15°	1.3	2.6	4.0	5.3	6.6	7.9	10.5	13.2	15.8	18.4	21.1	26.3
20°	1.8	3.5	5.3	7.1	8.8	10.6	14.1	17.6	21.2	24.7	28.2	35.3
25°	2.2	4.4	6.7	8.9	11.1	13.3	17.7	22.2	26.6	31.0	35.5	44.3
30°	2.7	5.4	8.0	10.7	13.4	16.1	21.4	26.8	32.2	37.5	42.9	53.6
35°	3.2	6.3	9.5	12.6	15.8	18.9	25.2	31.5	37.8	44.1	50.5	63.1
40°	3.6	7.3	10.9	14.6	18.2	21.8	29.1	36.4	43.7	51.0	58.2	72.8
45°	4.1	8.3	12.4	16.6	20.7	24.9	33.1	41.4	49.7	58.0	66.3	82.8
50°	4.7	9.3	14.0	18.7	23.3	28.0	37.3	46.6	50.6	65.3	74.6	93.3
55°	5.2	10.4	15.6	20.8	26.0	31.2	41.7	52.1	62.5	72.9	83.3	104
60°	5.8	11.6	17.3	23.1	28.9	34.6	46.2	57.7	69.3	80.8	92.4	115
65°	6.4	12.7	19.1	25.5	31.9	38.2	51.0	63.7	76.5	89.2	102	127
70°	7.0	14.0	21.0	28.0	35.0	42.0	56.0	70.0	84.0	98.0	112	140
75°	7.7	15.4	23.0	30.7	38.4	46.0	61.4	76.7	92.1	107	123	153
80°	8.4	16.8	25.2	33.6	42.0	50.4	67.1	83.9	101	118	134	168
85°	9.2	18.3	27.5	36.7	45.8	55.0	73.3	91.6	110	128	147	183
90°	10.0	20.0	30.0	40.0	50.0	60.0	80.0	100	120	140	160	200
95°	10.9	21.8	32.7	43.7	54.6	65.5	87.3	109	131	153	175	218
100°	11.9	23.8	35.8	47.7	59.6	71.5	95.3	119	143	167	191	238
110°	14.3	28.6	42.9	57.1	71.4	85.7	114	143	171	200	229	286
120°	17.3	34.6	52.0	69.3	86.6	104	139	173	208	243		
130°	21.5	42.9	64.3	85.8	107	129	172	215	257			
140°	27.5	55.0	82.4	110	137	165	220	275				
150°	37.3	74.6	112	149	187	224	299					
160°	56.7	113	170	227	284							
170°	114	229										

The follow rate with the pressure

The spray performance are based on the same medium is corresponding to the square root of the pressure . Any nozzle can count the liquid at the pressure .

$$\frac{Q_1, \text{Flow rate(L/min)}}{Q_x, \text{Flow rate(L/min)}} = \frac{\sqrt{F_1, \text{Pressure (kg)}}}{\sqrt{F_x, \text{Pressure (kg)}}}$$

so it comes to

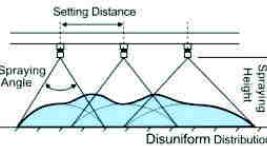
$$Q_x = Q_1 \sqrt{\frac{F_x, \text{Pressure (kg)}}{F_1, \text{Pressure (kg)}}}$$

Usage of Atomization Nozzle

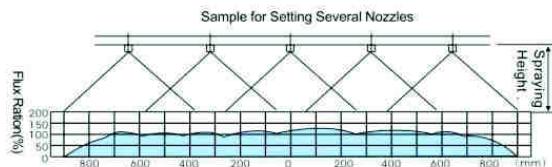
一、Usage of Flat Fan Nozzle

The liquid of the flat fan nozzle is sprayed in fan with higher impact force than hollow cone and full cone, in order to achieve even flux when installing several fan-shaped nozzles, they are installed in mountain-shaped.

The flux distribution, spraying height, distance of the installation positions, spraying pressure and the liquid nature are different, if the performances of several nozzles are different, then the designed value and the actual value will also vary. Changyuan Company assures that the nozzles feature adequately precise for achieving uniform distribution.



(1) If the performance is different



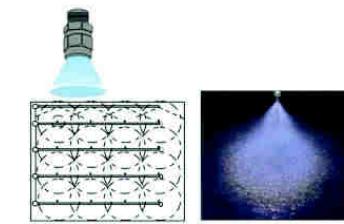
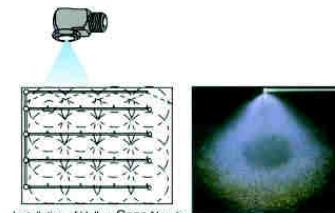
(2) Sample for setting several nozzles with precision assurance

二、Usage of Hollow Cone Nozzle

Under the condition that the spraying pressure, flux and angle are the same, the average granule of hollow cone nozzle is smallest. With average granule, the surface area of the workpiece exceeds and the surface is treated more fine, thus achieving smooth movement to the objects. The hollow cone nozzle has fine effect when it is used for gas cooling, air humidifying, metal treatment, dust control, gas cleaning and chemical reaction etc. In hollow cone nozzle, liquid is sprayed from the single hole under centrifugal effect, therefore, it has highest smooth diameter and is an ideal selection for the liquid which may easily deposit, for it can reduce clogging to the max.

* The clients may select suitable usage according to distribution.

Installation Distribution of Hollow Cone Nozzle



Installation of Solid Taper Nozzle

三、Usage of Full Cone Nozzle

Full Cone Nozzle consists of two varieties, the common type is equipped with built-in rotational flow leaves, but the special type not, it produce small-to medium-sized drops. The spraying area is round. Therefore, it is suitable for cleaning, bleaching, dust removing, distinguishing, corrosive carving and cleaning of electronic circuit board etc

* The clients may select suitable usage according to distribution.

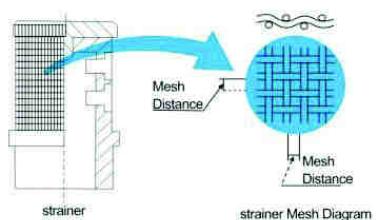
Installation Distribution of Hollow Cone Nozzle

四、Selection of Strainer

Nozzle will have use different strainer according to the using condition, rough strainer for the nozzle with big granule, and fine strainer for small granule. The specification of the strainer is confirmed according to the quantity, please refer to the table below:

The built-in strainer in the nozzle composes of strainer body, cap and strainer mesh.

Strainer mesh	Distance of Mesh	Granule (mm)
#200	0.07	Less than 0.2
#150	0.10	0.3-0.4
#100	0.15	0.5-0.7
#50	0.30	0.8-0.9



AA Series Corner Nozzle

Hollow Cone Spray
Nozzle/Corner Nozzle



female



male



Desulfurization Tower
Spraying Of Power Plant



Auto Spraying Before Painting

Performance data

Performance data

AA/A Metal Nozzles feature a hollow cone spray pattern with a ring-shaped impact area and spray angles of 51° to 144°.

They produce small-to medium sized drops at a wide range of flow rates and pressures.

AA/A Metal Nozzles are ideal choices for applications requiring good atomization of liquids at lower pressures or when quick heat transfer or effective airborne droplet impingement is required.

AA/A Metal Nozzles have special whirl chamber. They feature large and unobstructed flow passages, which minimize or eliminate clogging.

AA Metal Nozzles have outer screw thread connection, while **A Metal Nozzles** have inner screw thread connection.

Common applications

- Gas Washing and Gas Cooling
- Water Cooling
- Dust Control
- Metal Treating
- Chemical Reaction Treating
- Other Heat Transfer Applications

Ordering info

1 / 4 A A SS 1 0
 ↓ ↓ ↓ ↓
 Inlet Conn. Nozzle Material Capacity
 Conn. Type Code Size

Remark:Brass
SS-Stainless Steel
316SS-316 Stainless Steel

A Series Common Nozzle

Performance data

Desulfurization Tower
Spraying Of Power Plant

Auto Spraying Before Painting

Performance data

Capacity liters per minute

Capacity liters per minute

Capacity liters per minute

Nozzle Type

Nozzle Type

Nozzle Type

Material code

Material code

Material code

Body Dia. (mm)

Body Dia. (mm)

Body Dia. (mm)

Inlet Dia. (mm)

Inlet Dia. (mm)

Inlet Dia. (mm)

Rated Office bar

Rated Office bar

Rated Office bar

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39 bar

39 bar

40 bar

40 bar

40 bar

41 bar

41 bar

41 bar

42 bar

42 bar

42 bar

43 bar

43 bar

43 bar

44 bar

44 bar

44 bar

45 bar

45 bar

45 bar

46 bar

46 bar

46 bar

47 bar

47 bar

47 bar

48 bar

48 bar

48 bar

49 bar

49 bar

49 bar

50 bar

50 bar

50 bar

The design feature of mid-high flow rate foundry nozzle

AASR catamaran casting style 1- 1/4 " --4 " NPT or BSPT (Female)

The spraying style of mid-high spray pattern is hollow cone with ring impact area ; it has two series of spraying angle, narrow angles from 45° to 52° , standard angles from 60° to 86° .Spray tips can be made of carborundum .



AASR catamaran casting style

AAS catamaran casting style The size is 6" joint

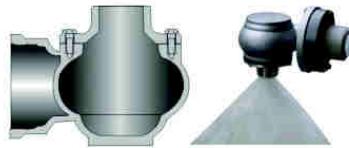
Spray pattern with uniform distribution ,small-to medium sized drops under a large-scale flow rate and pressure. AASR, AAS and AASB series assembly nozzles were made of casting brass, casting iron or 316 SS casting of refined polishing. The size of 1-1/4 " ,2" and 3 " nozzle were made of 316SS casting that has 304 SS spray tip.



AAS catamaran casting style

AASB catamaran casting style 2-6 inch joint

AASB nozzle of catamaran design can be made of several kinds of wearable material. The spray tip can be made of stainless steel or carborundum for harsh environment. These kinds of nozzle size has 2" ,3" ,4" and 6" . All of AASR, AASB and AAS nozzle had big and unblocked channel. Thereby, it avoids the clogging on the whole.



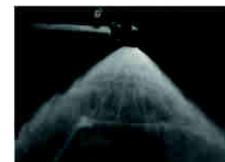
AASB catamaran casting style

Performance data

Nozzle Inlet Conn.	Nozzle Type			Inlet Dia. Norm. Size (mm)	Rated Orifice Dia. (mm)	Capacity (L/min)								Spray angle							
	inner connector AASR	Flange conn.				0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar			
		AASB	AAS			0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar			
1-1/4	●	10-45°		21.4	13.1	24	39	54	67	77	94	109	122	133	144	45°	49	52°			
	●	12-45°			14.3	29	46	65	80	92	113	131	146	160	173	45°	49	51°			
	●	14-45°			16.9	34	54	76	93	108	132	153	171	187	200	45°	48	51°			
	●	16-45°			19.1	39	62	87	107	123	151	174	195	215	230	45°	48	50°			
	●	20-45°			22.2	49	77	109	133	154	189	220	245	270	290	45°	47	49			
2	●	●	30-45°		36.5	23.8	73	116	163	200	230	285	325	365	400	430	45°	49	52°		
	●	●	35-45°			27.0	85	135	191	235	270	330	380	425	465	500	45°	49	51°		
	●	●	40-45°			30.2	97	154	220	265	310	375	435	490	530	580	45°	48	51°		
	●	●	45-45°			32.1	110	173	245	300	345	425	490	550	600	650	45°	48	50°		
	●	●	50-45°			34.9	122	193	270	335	385	470	540	610	670	720	45°	47	49		
	●	●	55-45°			36.9	134	210	300	365	425	520	600	670	730	790	45°	47	49		
3	●	●	●	70	57.2	34.9	171	270	380	465	540	660	760	850	930	1010	65°	66	69°		
	●	●	●	85		40.1	205	325	465	570	650	800	930	1040	1130	1230	67°	68	71°		
	●	●	●	100		44.5	245	385	540	670	770	940	1090	1220	1330	1440	69	72	74°		
	●	●	●	120		52.4	290	460	650	800	920	1130	1310	1460	1600	1730	71°	73	77		
	●	●	●	140		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	73°	75	80°		
	●	●	●	55-45°		34.9	171	270	380	465	540	660	760	850	930	1010	45°	49	52°		
4	●	●	●	85	79.4	40.1	205	325	465	570	650	800	930	1040	1130	1230	45°	49	51°		
	●	●	●	100		44.5	245	385	540	670	770	940	1090	1220	1330	1440	45°	48	51°		
	●	●	●	120		51.2	290	460	650	800	920	1130	1310	1460	1600	1730	45°	48	50°		
	●	●	●	140-45°		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	45°	47	49		
	●	●	●	150		59.1	365	580	820	1000	1160	1420	1630	1830	2000	2160	66°	67	70		
	●	●	●	175		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	68°	70	71		
6	●	●	●	200	124	68.3	485	770	1090	1330	1540	1890	2180	2440	2670	2880	70°	72	74°		
	●	●	●	225		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	72°	74	77		
	●	●	●	250		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	74°	76	81°		
	●	●	●	275		92.1	670	1060	1500	1840	2120	2600	3000	3350	3670	3960	78°	80	83		
	●	●	●	150-45°		50.8	365	580	820	1000	1160	1420	1630	1830	2000	3160	45°	49	52°		
	●	●	●	175-45°		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	45°	49	51°		
6	●	●	●	200-45°	124	68.3	485	770	1090	1330	1540	1890	2180	2440	2670	2880	45°	48	51°		
	●	●	●	225-45°		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	45°	48	50°		
	●	●	●	250-45°		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	45°	47	49		
	●	●	●	250		62.3	610	960	1360	1670	1930	2360	2720	3050	3340	3600	65	67	69		
	●	●	●	300		69.9	730	1160	1630	2000	2310	2830	3270	3650	4000	4320	66°	68	70		
	●	●	●	350		76.2	850	1350	1910	2340	2700	3300	3810	4260	4670	5050	68°	70	72		
6	●	●	●	400	124	82.6	970	1540	2180	2670	3080	3770	4380	4870	5340	5770	70°	73	75		
	●	●	●	450		88.1	1100	1730	2450	3000	3470	4250	4900	5480	6010	6490	72°	75	77		
	●	●	●	500		97.2	1220	1930	2720	3340	3850	4720	5440	6090	6670	7210	74°	76	79		
	●	●	●	550		108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	76°	79	83°		
	●	●	●	620		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	78°	81	86°		
	●	●	●	440-45°		88.1	1070	1700	2400	2940	3390	4150	4790	5360	5870	6340	60	61	62°		
6	●	●	●	550-45°	124	108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	64	65	66		
	●	●	●	625-45°		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	65	66	67°		

Design features of large flow carbide silicone spray nozzle

Large carbide silicone spray nozzle, with its spray pattern is hollow cone-shaped, can spray an annular area. It has two series of different spray angles, its standard angle is between 70°-90°. The whole spray nozzle is made of carborundum together with carborundum material. It can be applied under bad working condition, and can also produce uniform spray distribution of medium and larger sized drops under high pressure in a large-scale area. The large flux carborundum spray nozzle can be made into 4 different sizes: 2 inch, 3 inch, 4 inch and 6 inch. It can avoid clogging on the whole with its large and easy flow passages.



As a whole made of carborundum

Performance data

flange inlet	Capacity Size	Inlet Dia. Nom. Size (mm)	Orifice Dia. No. Size (mm)	Capacity liters per minute										Spray angle			
				0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar	
2	30-40°	36.5	23.8	73	116	163	200	230	285	325	365	400	430	70°	85°	90°	
	35-45°		27.0	85	135	191	235	270	330	380	425	465	500	70°	85°	90°	
	40-45°		30.2	97	154	220	265	310	375	435	490	530	580	70°	85°	90°	
	45-45°		32.1	110	173	245	300	345	425	490	550	600	650	70°	85°	90°	
	50-45°		34.9	122	193	270	335	385	470	540	610	670	720	70°	85°	90°	
	55-45°		36.9	134	210	300	365	425	520	600	670	730	790	70°	85°	90°	
3	70	57.2	34.9	171	270	380	465	540	660	760	850	930	1010	70°	85°	90°	
	85		40.1	205	325	465	570	650	800	930	1040	1130	1230	70°	85°	90°	
	100		44.5	245	385	540	670	770	940	1090	1220	1330	1440	70°	85°	90°	
	120		52.4	290	460	650	800	920	1130	1310	1460	1600	1730	70°	85°	90°	
	140		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	70°	85°	90°	
	55-45°		34.9	171	270	380	465	540	660	760	850	930	1010	70°	85°	90°	
	85-45°		40.1	205	325	465	570	650	800	930	1040	1130	1230	70°	85°	90°	
	100-45°		44.5	245	385	540	670	770	940	1090	1220	1330	1440	70°	85°	90°	
	120-45°		51.2	290	460	650	800	920	1130	1310	1460	1600	1730	70°	85°	90°	
	140-45°		58.7	340	540	760	930	1080	1320	1530	1710	1870	2020	70°	85°	90°	
4	150	79.4	50.8	365	580	820	1000	1160	1420	1630	1830	2000	2160	70°	85°	90°	
	175		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	70°	85°	90°	
	200		68.3	485	770	1090	1330	1540	1890	2180	2440	2670	2880	70°	85°	90°	
	225		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	70°	85°	90°	
	250		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	70°	85°	90°	
	275		92.1	670	1060	1500	1840	2120	2600	3000	3350	3670	3960	70°	85°	90°	
	150-45°		50.8	365	580	820	1000	1160	1420	1630	1830	2000	2160	70°	85°	90°	
	175-45°		59.1	425	670	950	1170	1350	1650	1910	2130	2340	2520	70°	85°	90°	
	200-45°		68.3	485	770	1090	1330	1540	1890	2180	2440	2670	2880	70°	85°	90°	
	225-45°		74.6	550	870	1230	1500	1730	2120	2450	2740	3000	3240	70°	85°	90°	
	250-45°		82.6	610	960	1360	1670	1930	2360	2720	3050	3340	3600	70°	85°	90°	
6	250	124	62.3	610	960	1360	1670	1930	2360	2720	3050	3340	3600	70°	85°	90°	
	300		69.9	730	1160	1630	2000	2310	2830	3270	3650	4000	4320	70°	85°	90°	
	350		76.2	850	1350	1910	2340	2700	3300	3810	4260	4670	5050	70°	85°	90°	
	400		82.6	970	1540	2180	2670	3080	3770	4360	4870	5340	5770	70°	85°	90°	
	450		88.1	1100	1730	2450	3000	3470	4250	4900	5480	6010	6490	70°	85°	90°	
	500		97.2	1220	1930	2720	3340	3850	4720	5450	6090	6670	7210	70°	85°	90°	
	550		108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	70°	85°	90°	
	620		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	70°	85°	90°	
	440-65°		88.1	1070	1700	2400	2940	3390	4150	4790	5380	5870	6340	70°	85°	90°	
	550-65°		108	1340	2120	3000	3670	4240	5190	5990	6700	7340	7930	70°	85°	90°	
	625-65°		130	1520	2410	3410	4170	4820	5900	6810	7610	8340	9010	70°	85°	90°	

N-sic material performance data

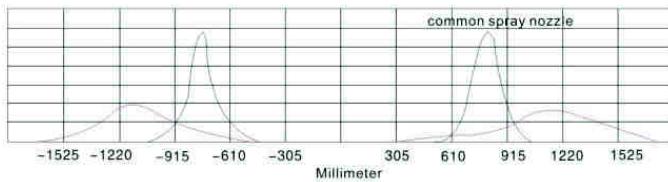
Temperature	Heat transfer parameter	multi-gap rate	heat expansion parameter	flexural strength	Mohs'scale of hardness	Acid corrosion
<1400°C	45w/m.k	<0.1%	4.5k ⁻¹ X10 ⁻⁶	600mPa	>13	Excellent

A Series Common Nozzle

Design features of AASW large flow carbide silicone spray nozzle

- 1.Spray consistency is uniform.
- 2.Spray liquid droplets distribute at a large range
- 3.The spray liquid droplet size is 20%-80% smaller than other hollow cone-shaped nozzles'.

The graph given below is the compare data between AASW spray nozzle and common hollow cone-shaped nozzles at the same flow rate. It's easy to find that the spray liquid droplets of AASW spray nozzle distribute at a larger range, so that it can minimize the spray consistency consumed; Meanwhile, its droplet size is 50% smaller than common hollow cone-shaped nozzles.



flow rate and size of AASW

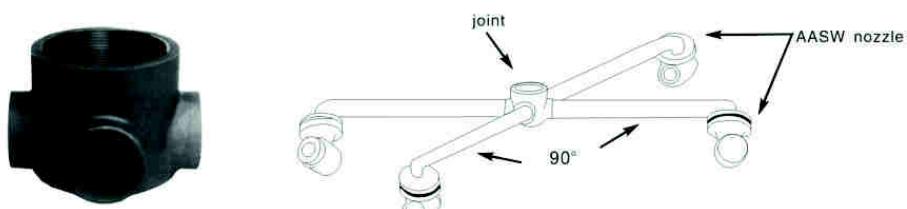
hollow cone-shaped, wide angle, 1" to 3" size BSP or NPT screw thread.

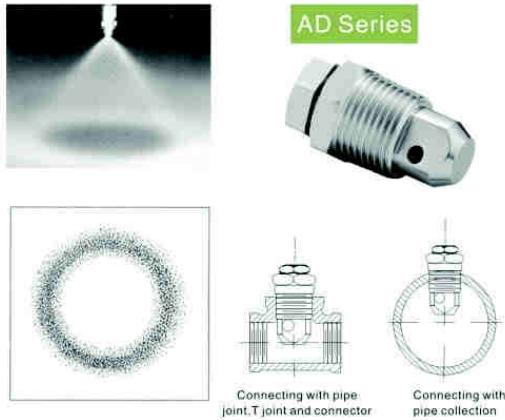
flange inlet	Nozzle Type	Spray angle			K coefficient	Capacity(L/min)									inlet size	Cap-acity size	Size				Weight
		0.3 bar	1 bar	3 bar		0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	A	B	C	D				
2	SW 8516	112	115	115	194	86.6	106	137	162	194	237	274	336	21.8	21.8	91.9	130	114	70.6	1.81	
	SW 10516	120	122	122	239	107	131	169	200	239	293	338	414	25.4	25.4						
	SW 12516	119	122	122	285	127	156	201	328	285	349	403	493	29.0	29.0						
	SW 14516	122	125	125	330	148	181	234	276	330	405	467	572	32.1	32.1						
	SW 17016	125	125	125	387	173	212	274	324	387	474	548	671	35.3	35.3						
	SW 19216	125	125	125	438	196	240	309	366	438	536	619	758	38.5	36.5						
	SW 20516	125	125	125	467	209	256	330	391	467	572	661	809	41.3	36.5						
2 1/2	SW 23016	125	125	125	524	234	287	371	439	524	642	741	908	44.5	36.5	125	172	143	88.1	2.90	
	SW 17020	117	120	120	387	173	212	274	324	387	474	548	671	33.7	33.7						
	SW 19020	117	120	120	433	194	237	306	362	433	530	612	750	36.1	36.1						
	SW 20520	117	120	120	467	209	256	330	391	467	572	661	809	37.3	37.3						
	SW 23020	123	125	125	524	234	287	371	439	524	642	741	908	40.1	40.1						
	SW 28020	128	130	130	638	285	349	451	534	638	781	902	1110	46.0	44.5						
	SW 32020	128	130	130	729	326	399	516	610	729	893	1030	1260	51.2	44.5						
3	SW 34020	128	130	130	775	347	424	548	648	775	949	1100	1340	53.2	44.5	145	200	173	109	4.08	
	SW 43520	128	130	130	991	443	543	701	829	991	1210	1400	1720	61.9	44.5						
	SW 18524	122	122	122	422	189	231	298	353	422	516	596	730	32.5	32.5						
	SW 23024	122	122	122	524	234	287	371	439	524	642	741	908	36.5	36.5						
	SW 28024	122	122	122	638	285	349	451	534	538	781	902	1110	41.3	41.3						
	SW 32024	125	125	125	729	326	399	516	610	729	893	1030	1260	45.2	45.2						
	SW 34024	125	125	125	775	347	424	548	648	775	949	1100	1340	46.8	46.8						
	SW 46924	129	132	135	1070	478	585	756	894	1070	1310	1510	1850	57.9	54.0						
	SW 52624	129	132	135	1200	536	657	848	1000	1200	1470	1700	2080	63.1	54.0						
	SW 56424	129	132	135	1290	575	704	909	1080	1290	1570	1820	2230	65.9	54.0						

flow rate L/M=K Bar

standard material: Brass, carbon steel and 316 stainless steel

The pic given below is AASW spray nozzle joint, to join many nozzles.





Design features of beeline type hollow cone-shaped spray nozzle

Beeline type hollow cone-shaped spray nozzle can produce hollow cone-shaped spraying, and spray area is annular with its uniform distribution.

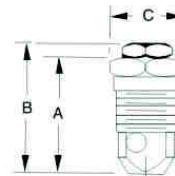
The nozzles spray into small liquid droplets and can avoid clogging with its large and easy passing routeway.

The spray cap can be interchanged between pipes of different size. It can produce a spray pattern of wide spray angle.

The section projection of this beeline nozzle is a bit of low when it's connected with T joint or pipe collection, it's widely used in coal ash control.

size and weight

Nozzle type	A (mm)	B (mm)	C (mm)	Net weight (Kilogram)
3/8AD-	28	32	17.5six angles	0.03
1/2AD-	32.5	37.5	22.2six angles	0.06
3/4AD-	38	44.5	27.0six angles	0.11
11/2AD-	60.5	66.5	50.8six angles	0.60



ordering info

AD—3/8—SS—10

↓ ↓ ↓ ↓
Nozzle type Inlet size Material code Capacity size

Performance data

Nozzle Inlet Conn. NPT or BSPT(out)	Nozzle Type	Inlet Dia. No. Size (mm)	Orifice Dia. Norm. Size (mm)	Capacity Spray Size	Capacity (L/min)										Spray angle			
					0.2 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
3/8	● 2	2.4	2.0		0.76	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4		60°	70°		
	● 3	2.4	2.4		0.96	1.1	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	52°	64°	77°	
	● 5	2.8	3.2	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	56°	67°	76°	
	● 8	4.0	4.0	1.6	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	56°	65°	70°	
	● 10	4.0	4.4	2.0	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	55°	65°	72°	
	● 20-10	*4.0	4.4		4.5	5.3	6.4	7.8	9.0	11.1	12.8	14.3	15.6	16.9	61°	65°	67°	
1/2	● 5	3.2	3.6	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	63°	73°	79°	
	● 8	4.0	4.0	1.6	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61°	69°	73°	
	● 10	4.4	4.4	2.0	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	63°	70°	74°	
	● 15	*4.4	5.2	3.1	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	60°	67°	70°	
	● 20	*4.8	6.0	4.1	6.4	7.5	9.1	11.2	12.9	15.8	18.2	20	22	24	63°	65°	69°	
	● 25	*5.2	7.1	5.1	8.1	9.5	11.4	14.0	16.1	19.7	23	25	28	30	59°	63°	68°	
3/4	● 5	3.6	3.2	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	64°	73°	79°	
	● 8	4.4	4.0	1.6	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61°	69°	73°	
	● 10	5.2	4.4	2.0	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	64°	72°	75°	
	● 15	6.4	5.6	3.1	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	64°	72°	74°	
	● 20	7.1	6.4	4.1	6.4	7.5	9.1	11.2	12.9	15.8	18.2	20	22	24	63°	70°	74°	
	● 25	7.1	7.5	5.1	8.1	9.5	11.4	14.0	16.1	19.7	23	25	28	30	63°	70°	74°	
1-1/2	● 50-50.3	*7.1	9.5	10.2	16.1	19.1	23	28	32	39	46	51	56	60	70°	72°	73°	
	● 40	*9.5	7.9	8.2	12.9	15.3	18.2	22	26	32	36	41	45	48	70°	73°	74°	
	● 50	*9.5	9.5	10.2	16.1	19.1	23	28	32	39	46	51	56	60	72°	75°	77°	
	● 60	*9.5	11.1	12.2	19.3	23	27	33	39	47	55	61	67	72	74°	76°	79°	
	● 70	*9.5	12.7	14.3	26	31	36	45	52	63	73	82	89	96	78°	82°	84°	
	● 80	*9.5	14.3	16.3	26	31	36	45	52	63	73	82	89	96	78°	82°	84°	
	● 90	*9.5	14.7	18.3	29	34	41	50	58	71	82	92	100	109	81°	84°	84°	
	● 100	*9.5	15.9	20	32	38	46	56	64	79	91	102	112	121	83°	86°	86°	
	● 110	*9.5	17.1	22	35	42	50	61	71	87	100	112	123	133	85°	88°	88°	
	● 120	*9.5	18.3	24	39	46	55	67	77	95	109	122	134	145	87°	90°	90°	

A Series Common Nozzle

standard angle series



single type(BB)

BB Series Full Cone Spray Nozzle

BB standard angle series spray nozzles feature a full cone spray pattern with a round impact area and spray angles between 43° and 106°.

They produce a uniform distribution of medium to large sized drops over a wide range of flow rates and pressures. Their uniform spray distribution result from a unique vane design, large and easy flow passages and superior spray control design.

Machined critically, BB series metal nozzles insure correct and dependable performance with exact sizes. They are ideal for applications requiring complete coverage to a certain area.

BB series metal nozzles have knock-down cap and vane, can be suitably connected with pipe collection and multi-pipe. Under this design way, its working-end(cap and vane) can be knocked down off the nozzle body to be overhauled and cleaned, without knocking down the nozzle body off the pipe.

standard angle series



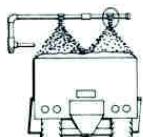
fission type(BBG)



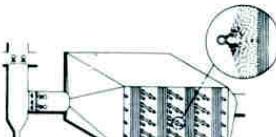
Nozzle Inlet Conn.	Capacity Size	Nozzle Type	Material code	Rated Orifice Dia. mm	Max. Hole Dia. mm	0.2 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar	Capacity (L/min)			Spray angle								
																			3/4 inches	1/2 inches	1/4 inches	3/16SS	SS	BRASS						
1/8	1	● ● ● ● ● ●	● ● ● ● ● ●	0.79	0.64	0.44	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.3	1.5	1.7	1.9	52°	65	59	58	53	53	53	53					
	1.5	● ● ● ● ● ●	● ● ● ● ● ●	1.2	0.64	0.49	0.69	0.81	0.93	1.1	1.3	1.4	1.5	1.7	1.9	2.0	2.2	2.6	43°	50	46	59	53	53	53	53				
	2	● ● ● ● ● ●	● ● ● ● ● ●	1.2	1.0	0.65	0.92	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50	46	59	53	53	53			
	3	● ● ● ● ● ●	● ● ● ● ● ●	1.5	1.0	0.98	1.4	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65	65	65	65	65	65	65	65	65	65	65			
	3.5	● ● ● ● ● ●	● ● ● ● ● ●	1.6	1.3	1.1	1.6	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50	50	50	50	50	50	50	50	50	50	50	50		
	3.9	● ● ● ● ● ●	● ● ● ● ● ●	2.0	1.0	1.3	1.8	2.1	2.4	2.9	3.3	3.7	4.0	4.3	5.1	77°	84	79	79	79	79	79	79	79	79	79	79	79	79	
	5	● ● ● ● ● ●	● ● ● ● ● ●	2.0	1.3	1.6	2.3	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	65	59	59	59	59	59	59	59	59	59	59	59	59	
	6.1	● ● ● ● ● ●	● ● ● ● ● ●	2.3	1.3	2.0	2.8	3.3	3.8	4.5	5.2	5.7	6.2	6.7	7.9	69°	74	68	68	68	68	68	68	68	68	68	68	68	68	
1/4	6.5	● ● ● ● ● ●	● ● ● ● ● ●	2.38	1.6	2.1	3.0	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50	46	46	46	46	46	46	46	46	46	46	46	46	46
	10	● ● ● ● ● ●	● ● ● ● ● ●	3.18	1.6	3.3	4.7	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	56°	67	61	61	61	61	61	61	61	61	61	61	61	61	61
	12.5	● ● ● ● ● ●	● ● ● ● ● ●	3.2	1.6	4.1	5.8	6.8	7.7	9.3	10.6	11.8	12.8	13.7	16.2	69°	74	68	68	68	68	68	68	68	68	68	68	68	68	68
	9.5	● ● ● ● ● ●	● ● ● ● ● ●	2.6	2.4	3.1	4.4	5.1	5.9	7.1	8.1	8.5	9.7	10.4	12.3	45°	50	46	46	46	46	46	46	46	46	46	46	46	46	46
3/8	15	● ● ● ● ● ●	● ● ● ● ● ●	3.6	2.4	4.9	6.9	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	64°	67	61	61	61	61	61	61	61	61	61	61	61	61	61
	20	● ● ● ● ● ●	● ● ● ● ● ●	4.0	2.8	6.8	9.2	10.8	12.4	14.9	17.0	18.8	20	22	26	76°	80	73	73	73	73	73	73	73	73	73	73	73	73	73
	22	● ● ● ● ● ●	● ● ● ● ● ●	4.5	2.8	7.2	10.2	11.9	13.6	16.4	18.7	21	23	24	28	87°	90	82	82	82	82	82	82	82	82	82	82	82	82	82
	16	● ● ● ● ● ●	● ● ● ● ● ●	3.5	3.2	5.2	7.4	8.7	9.9	11.9	13.6	15.1	16.4	17.6	21	48°	50	46	46	46	46	46	46	46	46	46	46	46	46	46
1/2	25	● ● ● ● ● ●	● ● ● ● ● ●	4.6	3.2	8.2	11.6	13.5	15.4	18.6	21	24	26	27	32	64°	67	61	61	61	61	61	61	61	61	61	61	61	61	61
	32	● ● ● ● ● ●	● ● ● ● ● ●	5.2	3.6	10.4	14.7	17.3	19.8	24	27	30	33	35	41	72°	75	68	68	68	68	68	68	68	68	68	68	68	68	68
	40	● ● ● ● ● ●	● ● ● ● ● ●	6.2	3.6	13.1	18.5	22	25	30	34	38	41	44	52	88°	91	83	83	83	83	83	83	83	83	83	83	83	83	83
	50	● ● ● ● ● ●	● ● ● ● ● ●	6.7	4.0	16.3	23.1	27	31	37	42	47	51	55	65	91°	94°	66	66	66	66	66	66	66	66	66	66	66	66	66

common application

- exhaust gas scrubbing
- quenching and cooling
- fire prevention and fire protection
- defoaming
- spraying applications



dust control



air washer

ordering info

BB 1 / 4 — SS 10

single nozzle type Inlet size material capacity code size

BBG 1 / 4 — SS 10

Fission nozzle type Inlet size material capacity code size

Remark:BRASS
SS-stainless steel
316SS-316 stainless steel

wide angle series



single type(BB)



fission type(BBG)

BB wide angle series spray nozzles feature a solid cone spray pattern with a round impact area and spray angles between 120° and 125°.

They produce a uniform distribution of medium to large sized drops over a wide range of flow rates and pressures. They are ideal choice for applications requiring complete coverage to a certain area.

With the uniform spray distribution resulting from a unique vane design and exact size, the nozzles insure correct and dependable performance.

wide angle series

Nozzle Inlet Conn.	Capacity Size	Nozzle Type	Material code	Rated Offsite dia. (mm)	Max. Hole Dia. (mm)	0.2 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar	Capacity (L/min)			Spray angle														
																			BRASS	SS	316SS	0.2 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar		
1/8	2.8W	● ● ● ● ●	● ● ● ● ●	1.6	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.7	2.9	3.5	116°	120°	102°																			
	4.3W	● ● ● ● ●	● ● ● ● ●	2.0	1.0	1.9	2.3	2.6	3.1	3.5	3.9	4.2	4.5	5.4	116°	120°	102°																			
	5.6W	● ● ● ● ●	● ● ● ● ●	2.4	1.0	1.8	3.1	3.4	4.0	4.6	5.1	5.5	5.9	7.1	116°	120°	102°																			
1/4	8W	● ● ● ● ●	● ● ● ● ●	2.4	1.3	2.6	3.6	4.4	4.8	2.8	6.6	7.2	7.8	8.4	10.1	116°	120°	103°																		
	10W	● ● ● ● ●	● ● ● ● ●	2.8	1.3	3.3	4.5	5.5	6.0	7.2	8.2	9.1	9.8	10.8	12.7	116°	120°	103°																		
	12W	● ● ● ● ●	● ● ● ● ●	3.2	1.3	3.9	6.5	7.3	8.7	9.8	10.9	11.8	12.7	15.2	117°	120°	103°																			
1/2	14W	● ● ● ● ●	● ● ● ● ●	3.6	1.6	4.6	6.2	7.6	8.5	10.1	11.5	12.7	13.7	14.8	17.7	117°	120°	103°																		
	17W	● ● ● ● ●	● ● ● ● ●	4.0	1.6	5.6	7.6	9.3	10.3	12.3	13.9	15.4	16.7	18.0	21.6	117°	120°	103°																		
	20W	● ● ● ● ●	● ● ● ● ●	4.4	2.4	6.6	8.9	10.9	12.1	14.5	16.5	18.1	19.6	21.2	25.3	117°	120°	104°																		
3/8	24W	● ● ● ● ●	● ● ● ● ●	4.8	2.4	7.9	10.7	13.1	14.5	17.3	19.7	22	24	25.9	31.0	117°	120°	104°																		
	27W	● ● ● ● ●	● ● ● ● ●	5.2	2.8	8.9	12.0	14.7	16.3	19.5	22	24	26	28.1	33.6	117°	120°	106°																		
	30W	● ● ● ● ●	● ● ● ● ●	5.6	2.8	9.9	13.4	16.4	18.1	22	25	27	29	31.3	37.4	117°	120°	108°																		
1/2	35W	● ● ● ● ●	● ● ● ● ●	6.0	3.2	11.5	15.6	19.1	21	25	29	32	34	36.7	43.9	117°	120°	108°																		
	40W	● ● ● ● ●	● ● ● ● ●	6.4	3.2	13.1	17.8	21.8	24	28	33	36	39	42.1	50.3	117°	120°	108°																		
	45W	● ● ● ● ●	● ● ● ● ●	6.4	3.6	14.8	20	24.5	27	33	37	41	44	47.5	56	117°	120°	110°																		
	50W	● ● ● ● ●	● ● ● ● ●	6.7	4.0	16.4	22	26.9	30	36	41	45	49	52.9	63.3	117°	120°	112°																		

common application

- Washing and drenching, exhaust gas scrubbing and cooling to remove dust and other burnt offspring.
- Quenching and cooling coke, primary metal and other material, burst apart and defoaming of foaming material, spray in chemical reaction.
- Dust control when transacting chunk ore, coal, limestone, sand and carbite.
- Dip the tinder and container to prevent a fire and put out a fire.

ordering info

BB 1/8—SS 2.8W

Single nozzle type Inlet size Material code Capacity size

ordering info

BBF 1/8 — SS 3.6

Single nozzle type Inlet size Material code Capacity size

quadrate standard angle series



single type(BB)



fission type(BBG)

standard angel series

Nozzle Inlet Conn. NPT or BSPT	Nozzle Type	Capacity Size	Rated Offsite dia. (mm)	Max. Hole Dia. (mm)	0.3 bar	0.5 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar	Capacity (L/min)			Spray angle													
																		0.3 bar	0.5 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar				
1/8	3.6	1.6	1.3	0.93	1.2	1.6	2.2	2.7	3.1	3.4	3.7	4.0	4.7	40°	52°	47°																		
	4.8	1.9	1.3	1.2	1.6	2.2	3.0	3.6	4.1	4.5	4.9	5.3	6.2	48°	63°	57°																		
	6	2.4	1.3	1.5	2.0	2.7	3.7	4.5	5.1	5.6	6.1	6.6	7.8	60°	66°	60°																		
1/4	10	2.8	1.6	2.6	3.3	4.5	6.2	7.4	8.5	9.4	10.2	11.0	13.0	62°	67°	61°																		
	12	3.2	1.6	3.1	3.9	5.4	7.4	8.9	10.2	11.3	12.3	13.2	15.5	70°	75°	68°																		
	14.5	3.9	1.6	3.7	4.7	6.5	9.0	10.8	12.3	13.7	14.8	15.9	18.8	78°	82°	75°																		
3/8	18	4.0	2.4	4.6	5.9	8.1	11.1	13.4	15.3	17.0	18.4	19.8	23	71°	75°	68°																		
	29	5.6	3.2	7.5	9.5	13.0	17.9	22	26	27	30	32	38	71°	75°	68°																		
	36	6.4	3.2	9.3	11.8	16.2	22	27	31	34	37	40	47	78°	82°	75°																		
1/2	50	6.7	4.4	12.9	16.3	22	31	37	42	47	51	55	65	71°	75°	68°																		
	106	9.9	5.6	27	35	48	65	79	90	100	109	117	137	78°	80°	73°																		
	177	12.7	6.4	46	58	79	109	132	150	167	181	195	230	78°	80°	73°																		
1-1/2	230	14.3	8.7	59	75	103	142	171	198	220	235	255	300	73°	77°	70°																		
	290	15.5	11.1	75	95	130	179	215	254	275	300	328	375	66°	70°	64°																		
	360	17.4	11.1	93	118	162	225	270	305	340	370	395	470	70°	74°	67°																		
2	480	21.0	11.1	124	157	215	300	360	410	455	495	530	630	79°	82°	74°																		
	490	19.8	14.3	126	160	220	305	365	420	465	510	540	640	62°	67°	61°																		

A Series Common Nozzle

Full wide angle nozzle



single type(BBF)

Wide angle quadratate shaped spray nozzle feature a full cone spray pattern with square impact area and spray angles of 93°-115°, small-to medium-sized drops.

Unique vane design provides uniform spray distribution.

They are idea choice for installations requiring uniform coverage of rectangular or square areas. Size 1-1/4" and larger are case-type nozzles with removable vanes.

Performance data

common application

- Air and gas washers
- Cooling /quenching
- Dust control
- Fire suppression /prevention
- Liquor washers
- Product washing /rinsing
- Scrubbers

Nozzle Inlet Conn. NPT or BSPT	Nozzle Type: single type case type	Capacity size inches mm	Rated Office Dia. (mm)	Max. Hole Dia. (mm)	Capacity (L/min)								Spray angle			
					0.3 bar	0.5 bar	0.7 bar	1 bar	.2 bar	3 bar	4 bar	5 bar	6 bar	0.5 bar	1.5 bar	6 bar
1/8	● ● 2.8W	1.6	1.0		1.1	1.2	1.7	2.0	2.3	2.5	2.7			120°	102°	
	● ● 4.3W	2.0	1.0		1.6	1.9	2.6	3.1	3.5	3.9	4.2			120°	102°	
	● ● 5.6W	2.4	1.0		1.8	2.1	2.5	3.4	4.0	4.6	5.1	5.5		120°	102°	
	● ● 8W	2.4	1.3	2.6	3.0	3.6	4.8	5.8	6.6	7.2	7.8			120°	102°	
	● ● 10W	2.8	1.3	2.6	3.3	3.8	4.5	6.0	7.2	8.2	9.1	9.8		112°	120°	103°
	● ● 12W	3.2	1.3	3.1	3.9	4.6	5.3	7.3	8.7	8.7	10.9	11.8		114°	120°	103°
1/4	● ● 14W	3.6	1.6	3.7	4.6	5.3	6.2	8.5	10.1	10.1	12.7	13.7		114°	120°	103°
	● ● 14W	3.6	1.6	3.7	4.6	5.3	6.2	8.5	10.1	10.1	12.7	13.7	99°	101°	93°	
	● ● 17W	4.0	1.6	4.5	5.6	6.5	7.6	10.3	12.3	13.9	15.4	16.7		114°	120°	103°
	● ● 17W	4.0	1.6	4.5	5.6	6.5	7.6	10.3	12.3	13.9	15.4	16.7	99°	101°	93°	
	● ● 20W	4.4	2.4	5.2	6.6	6.6	8.9	12.1	14.5	16.5	18.1	19.6		114°	120°	104°
	● ● 20W	4.4	2.4	5.2	6.6	6.6	8.9	12.1	14.5	16.5	18.1	19.6	104°	110°	94°	
3/8	● ● 24W	4.8	2.4	6.3	7.9	7.9	10.7	14.5	17.3	19.7	22	24		114°	120°	104°
	● ● 24W	4.8	2.4	6.3	7.9	7.9	10.7	14.5	17.3	19.7	22	24	104°	110°	94°	
	● ● 27W	5.2	2.8	7.1	8.9	8.9	12.0	16.3	19.5	22	24	26		114°	120°	106°
	● ● 27W	5.2	2.8	7.1	8.9	8.9	12.0	16.3	19.5	22	24	26	104°	110°	98°	
	● ● 30W	5.6	2.8	7.9	9.9	11.4	13.4	18.1	22	25	27	29		114°	120°	108°
	● ● 30W	5.6	2.8	7.9	9.9	11.4	13.4	18.1	22	25	27	29	104°	110°	102°	
1/2	● ● 35W	6.0	3.2	9.2	11.5	13.3	15.6	21	25	29	32	34		114°	120°	108°
	● ● 35W	6.0	3.2	9.2	11.5	13.3	15.6	21	25	29	32	34	104°	110°	102°	
	● ● 40W	6.4	3.2	10.5	13.1	15.2	17.8	24	29	33	36	39		114°	120°	108°
	● ● 40W	6.4	3.2	10.5	13.1	15.2	17.8	24	29	33	36	39	104°	110°	102°	
	● ● 45W	6.4	3.6	11.8	14.8	17.1	20	27	33	37	41	44		114°	120°	110°
	● ● 45W	6.4	3.6	11.8	14.8	17.1	20	27	33	37	41	44	104°	110°	102°	
3/4	● ● 50W	6.7	4.0	13.1	16.4	19.1	22	30	36	41	45	49		114°	120°	112°
	● ● 50W	6.7	4.0	13.1	16.4	19.1	22	30	36	41	45	49	104°	110°	102°	
1	● ● 6W	9.9	4.4	18.4	23	27	31	42	51	58	64	69		115°	120°	112°
	● ● 71W	9.9	4.4	18.4	23	27	31	42	51	58	64	69	105°	110°	102°	
1	● ● 11W	13.1	5.6	34	42	49	57	78	93	106	116	126		117°	120°	117°
	● ● 130W	13.1	5.6	34	42	49	57	78	93	106	116	126	107°	110°	107°	

ordering info

BBF 1/8 — SS 2.8W

Single nozzle type
Inlet size
Material code
Capacity size

A series of nozzles for 15°



single type(BBW)



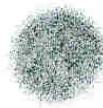
BB Series narrow angle nozzles feature a full cone spray pattern with a round impact area and spray angles of 30° or 15°.

They produce a uniform distribution of medium to large sized drops and provide significantly higher impact per unit area than wider angle nozzles at the same flow rate, and all have removable vanes.

The size 1/8" and 1-1/4" are made from steel bar while size 1-1/4" and larger are cast-in-block. Unique vane design provides superior control and uniform distribution.

Performance data

Nozzle Inlet Conn. NPT or BSPT	Nozzle Type	Capacity Size	Rated Orifice Dia. (mm)	Capacity (L/min)										Spray angle		
				0.7 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	0.7 bar	3 bar	7 bar
1/8	● ●	1507	1.6	1.3	2.0	2.3	2.8	3.2	3.6	3.9	4.2	5.0	7.1	13°	15°	15°
	● ●	1514	2.4	2.7	3.9	4.5	5.5	6.4	7.1	7.8	8.4	10.1	14.3	13°	15°	15°
1/4	● ●	1530	3.2	5.7	8.4	9.7	11.8	13.7	15.3	16.7	18.1	22	31	13°	15°	15°
3/8	● ● ●	1550	4.4	9.5	14.0	16.1	19.7	23	25	28	30	36	51	116°	15°	15°
1/2	● ●	1590	5.6	17.2	25	29	36	41	46	50	54	65	92	13°	15°	15°



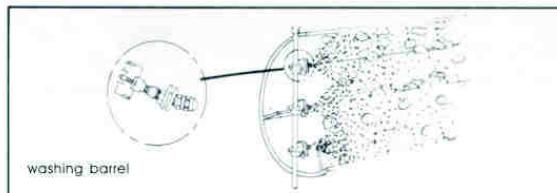
A series of nozzles for 30°

Performance data

Nozzle Inlet Conn. NPT or BSPT	Nozzle Type	Capacity Size	Rated Orifice Dia. (mm)	Capacity(L/min)										Spray angle		
				1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	15 bar	20 bar	0.5 bar	1.5 bar	6 bar
1/8	● ●	3001.4	0.79	0.32	0.45	0.55	0.64	0.71	0.78	0.84	1.0	1.2	1.4	17°	30°	31°
	● ●	3002.5	0.79	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.2	2.5	17°	30°	32°
	● ●	3004	1.2	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	3.5	4.1	26°	30°	32°
	● ● ●	3007	1.6	1.6	2.3	2.8	3.2	3.6	3.9	4.2	5.0	6.2	7.1	23°	30°	30°
1/4	● ●	3009	2.0	2.1	2.9	3.6	4.1	4.6	5.0	5.4	6.5	7.9	9.2	23°	30°	30°
3/8	● ●	3014	2.4	3.2	4.5	5.5	6.4	7.1	7.8	8.4	10.1	12.4	14.3	25°	30°	30°
1/2	● ●	3030	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	26	31	26°	30°	31°
3/4	● ●	3050	4.4	11.4	16.1	19.7	23	25	28	30	36	44	51	26°	30°	31°

common application

- Cleaning and washing that requires deep penetration and / or spray induced turbulence
- Desuperheating of stream
- cleaning and cooling the inside of ducts and pipes



ordering info

BBW 1/8 — SS 1507

↓ ↓ ↓ ↓
single nozzle inlet material capacity size

ordering info

BG 1/8 — SS — 3001.4

↓ ↓ ↓ ↓
Single nozzle inlet material capacity size

A Series Common Nozzle

CC series flat fan nozzle Series



Small capacity (CC)
1/8"-1/4"
NPT or BSPT(male)



Medium capacity (CC-N)
1/8"-3/4"
NPT or BSPT(male)



Large capacity (CC-M)
1"-2"
NPT or BSPT(male)



With strainer (CC-L)
1/8"-1/4"
NPT or BSPT(male)

CC Series Flat Fan Nozzle

Design features

CC flat fan spray nozzles feature a high impact solid stream or a flat fan spray pattern with the spray angles between 0°-110°.

They produce a uniform distribution of small to medium sized drops. Properly aligned, the specially tapered spray edges make a evenly coverage.

CC and CC-L series nozzles have external piping thread connector and their flow rate are lower than 3.9 l/min at 3 bar. Inner strainer is available for CC-L Series nozzle with male connector only.

Standard flow rates of CC-N and CC-M Series are 3.9 l/min or larger at 3 bar. All have external piping thread connector.



Common application

- Chemical cleaning
- Product washing/rinsing
- Pressure cleaning
- cooling and quenching
- Fire suppression/prevention
- Fire fighting
- Net blanket low pressure cleaning
- Spray coating
- Roller and scraper ordering

Fan ceramic core



Fan tungalloy



Jet stabilizer for reducing turbulence



ordering info

Jet stabilizer type
CY21370-SS-1/8x1/8

↓ Jet stabilizer type ↓ Material code ↓ Connection dimension

ordering info

CC 1/4-SS 6505

↓ Nozzle type ↓ Inlet size ↓ Material code ↓ Capacity size
Remark:
BRASS
SS-stainless steel
316SS-316 stainless steel

Jet stabilizer type

Jet stabilizer for reducing turbulence number	Inlet Conn. NPT or BSPT	Nozzle Inlet Conn. NPT or BSPT(in)	High(mm)	Net weight(kg)
CY21370-1/8x1/8	1/8	1/8	19	0.007
CY21370-1/4x1/4	1/4	1/4	24	0.01
CY21370-3/8x3/8	3/8	3/8	27	0.03
CY21370-1/8x1/8	1/2	1/2	32	0.05
CY21370-1/2x1/2	3/4	3/4	38	0.10
CY21370-1x1	1	1	46	0.18
CY21370-11/4x11/4	11/4	11/4	57	0.33

Design features

Jet stabilizers installed in the heads of flat fan spray nozzle increase the spray distance and the durative power. When spray nozzles are installed on T-shape pipe, branching pipe or bend pipe and the fluid swerve into the nozzle, turbulence occurs, which diffuses the jet flow. The stabilizer minimize the diffusion and concentrate the jet flow through a thinner and stabler way, offering a better performance in jet distance and durative power.

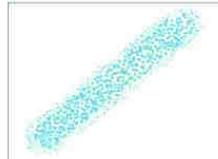
A Series Common Nozzle

Performance data

Spray angle (3 bar)	Capacity Size	Nozzle Type / Inlet Conn. NPT	Capacity (L/min)														Capacity (L/min)							Spray angle												
			CC		CC-L		CC-N				CC-M				Capacity (L/min)							Spray angle														
			1/8	1/4	1/8	1/4	1/8	1/4	3/8	1/2	3/4	1	1/14	2	0.3	1	2	3	4	5	6	7	8	10	20	35	1.5	3	6	14						
110°	11001	● ● ● ●	0.86	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94	110	121	124	1.3	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100	110	119	122						
	11005	● ● ● ●	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97	110	121	124	1.4	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100	110	118	122				
	11002	● ● ● ●	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98	110	120	123	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99	110	120	123		
	11003	● ● ● ●	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100	110	119	122	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100	110	118	122		
	11004	● ● ● ●	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100	110	118	122	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101	110	117	122		
	11005	● ● ● ●	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102	110	117	121	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103	110	117	119		
	11006	● ● ● ●	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90	95	105	113	2.4	2.5	4.6	5.5	6.0	7.2	10.2	13.5	20	27	30	36	51	68	93	95	105	
	11008	● ● ● ●	2.8	2.5	4.6	8.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105	110	117	118	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99	110	120	123		
	11010	● ● ● ●	2.8	2.5	4.6	8.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105	110	117	118	2.8	2.5	4.6	8.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105	110	117	118		
	11015	● ● ● ●	2.8	2.5	4.6	8.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105	110	117	118	2.8	2.5	4.6	8.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105	110	117	118		
	11020	● ● ● ●	0.46	0.316	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	81	95	105	113	95050	● ● ● ●	0.46	0.316	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	81	95	105	113				
95°	9501	● ● ● ●	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81	95	105	113	95015	● ● ● ●	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	82	95	105	113
	9502	● ● ● ●	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82	95	105	113	9503	● ● ● ●	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83	95	104	111
	9504	● ● ● ●	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84	95	103	108	9505	● ● ● ●	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84	95	102	107
	9506	● ● ● ●	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86	95	101	106	9508	● ● ● ●	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87	95	100	105
	9510	● ● ● ●	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89	95	100	105	9515	● ● ● ●	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90	95	100	105
	9520	● ● ● ●	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90	95	100	105	9530	● ● ● ●	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	91	95	101	105
	9540	● ● ● ●	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92	95	100	105	9550	● ● ● ●	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93	95	99	103
	9560	● ● ● ●	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93	95	99	103	9570	● ● ● ●	5.2	8.7	16.0	23	28	32	38	39	42	50	71	94	93	95	99	103
	95100	● ● ● ●	6.4	12.5	23	32	39	46	51	56	60	72	102	135	93	95	99	102	95150	● ● ● ●	7.5	18.7	34	48	59	68	76	84	90	108	153	205	93	95	99	102
	95050	● ● ● ●	0.46	0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.38	0.51	0.67	61	80	85	95	101	95067	● ● ● ●	0.53	0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	87	80	94	99	
80°	8001	● ● ● ●	0.66	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	88	90	95	100	105	80015	● ● ● ●	0.79	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	68	80	89	92	
	8002	● ● ● ●	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	69	80	88	91	8003	● ● ● ●	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	70	80	87	90
	8004	● ● ● ●	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	71	80	86	89	8005	● ● ● ●	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	71	80	86	89
	8006	● ● ● ●	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	81	72	80	85	88	8008	● ● ● ●	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	72	80	87	90
	8010	● ● ● ●	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	73	80	84	87	8015	● ● ● ●	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	74	80	83	
	8020	● ● ● ●	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	74	80	83	86	8030	● ● ● ●	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	74	80	83	86
	8040	● ● ● ●	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	74	80	83	86	8050	● ● ● ●	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	74	80	83	
	8060	● ● ● ●	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	75	80	83	85	8070	● ● ● ●	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	75	80	83	
	80100	● ● ● ●	6.4	12.5	23	32	39	46	51	56	60	72	102	135	75	80	83	86	80150	● ● ● ●	7.5	18.7	34	48	59	68	76	84	90	108	153	205	73	80	84	
	80200	● ● ● ●	8.7	25	36	64	79	91	102	112	121	144	205	270	74	80	82	85	80400	● ● ● ●	12.7	50	91	129	158	205	225	240	290	410	540	78	80	81	83	
73°	730077	● ● ● ●	0.56	0.18	0.25	0.30	0.35	0.39	0.43	0.46	0.55	0.78	1.0	1.3	53	73	86	92	730154	● ● ● ●	0.81	0.19	0.35	0.50	0.61	0.70	0.78	0.86	0.93	1.1	1.6	2.1	55	73	84	88
	730231	● ● ● ●	1.0	0.29	0.53	0.74	0.91	1.1	1.2	1.3	1.4	1.7	2.4	3.1	56	73	83	87	730308	● ● ● ●	1.1	0.36	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58	7		

A Series Common Nozzle

Spray angle (3 bar)	Capacity Size	Nozzle Type /Inlet Conn. NPT										Capacity(L/min)										Spray angle																									
		CC		CC-L		CC-N				CC-M		0.3		1		2		3		4		5		6		7		10		20		35		1.5		3		6		14							
		1/8	1/4	1/8	1/4	1/8	1/4	3/8	1/2	3/4	1	1/14	2	0.66	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	3.7	50°	59°	65°	0.91	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°				
50°	5001	●	●	●	●	●	●	●	●	●	●	●	●	0.66	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	3.7	50°	59°	65°	0.91	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°				
	5002	●	●	●	●	●	●	●	●	●	●	●	●	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	56°	62°	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	44°	50°	56°	61°		
	5003	●	●	●	●	●	●	●	●	●	●	●	●	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	45°	50°	56°	60°	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	45°	50°	55°	60°		
	5004	●	●	●	●	●	●	●	●	●	●	●	●	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	45°	50°	55°	59°	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	45°	50°	55°	59°		
	5005	●	●	●	●	●	●	●	●	●	●	●	●	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	45°	50°	55°	59°	3.6	3.7	6.6	9.7	11.8	13.7	15.3	16.7	18.1	22	31	49	45°	50°	55°	59°		
	5006	●	●	●	●	●	●	●	●	●	●	●	●	4.0	5.0	9.1	13.9	15.8	18.2	20	22	24	29	41	54	46°	50°	54°	59°	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°		
	5007	●	●	●	●	●	●	●	●	●	●	●	●	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	46°	50°	54°	59°	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	46°	50°	54°	59°		
	5010	●	●	●	●	●	●	●	●	●	●	●	●	6.4	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	52°	54°	6.7	12.2	23.3	32.2	39.3	46.2	51.1	56.0	60.9	72.8	102.7	135.6	44°	50°	51°	53°		
	50120	●	●	●	●	●	●	●	●	●	●	●	●	6.7	15.0	27	39	47	55	61	67	72	86	122	162	44°	50°	53°	55°	7.5	18.7	34	48	59	68	76	84	90	108	153	205	45°	50°	52°	55°		
	50150	●	●	●	●	●	●	●	●	●	●	●	●	8.7	25	46	64	79	91	102	112	121	144	205	270	46°	50°	52°	55°	12.7	15.0	91	129	158	181	205	225	249	290	410	540	46°	50°	52°	55°		
	50200	●	●	●	●	●	●	●	●	●	●	●	●	13.1	1.62	114	161	197	230	255	280	306	360	510	680	49°	50°	51°	54°	13.9	9.72	132	187	230	265	295	325	350	420	600	780	49°	50°	51°	53°		
	50400	●	●	●	●	●	●	●	●	●	●	●	●	14.0	5.0	9.1	13.9	15.8	18.2	20	22	24	29	41	54	46°	50°	54°	59°	14.6	8.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°		
	50500	●	●	●	●	●	●	●	●	●	●	●	●	14.7	1.50	91	129	158	181	205	225	249	290	410	540	46°	50°	52°	55°	15.2	1.62	114	161	197	230	255	280	306	360	510	680	49°	50°	51°	54°		
	50580	●	●	●	●	●	●	●	●	●	●	●	●	15.9	9.94	171	240	295	340	385	420	455	540	770	1010	49°	50°	51°	53°	15.9	9.94	171	240	295	340	385	420	455	540	770	1010	49°	50°	51°	53°		
	50750	●	●	●	●	●	●	●	●	●	●	●	●	16.4	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	52°	54°	16.7	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	51°	53°		
	501000	●	●	●	●	●	●	●	●	●	●	●	●	17.5	15.0	27	39	47	55	61	67	72	86	122	162	44°	50°	53°	55°	18.3	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	51°	53°		
	501500	●	●	●	●	●	●	●	●	●	●	●	●	18.4	22.6	187	340	485	600	690	770	840	910	1080	1530	2020	49°	50°	51°	52°	18.7	25	46	64	79	91	102	112	121	144	205	270	36°	40°	42°	44°	
	502000	●	●	●	●	●	●	●	●	●	●	●	●	26.2	250	460	650	790	910	1020	1120	1210	1440	2040	2700	49°	50°	51°	52°	26.6	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	26°	40°	52°	59°				
40°	4001	●	●	●	●	●	●	●	●	●	●	●	●	0.66	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	3.7	50°	59°	65°	0.91	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°				
	40015	●	●	●	●	●	●	●	●	●	●	●	●	0.79	0.1	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	27°	40°	52°	59°	0.91	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°				
	4002	●	●	●	●	●	●	●	●	●	●	●	●	1.1	0.91	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	39°	50°	57°	63°	1.1	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°				
	4003	●	●	●	●	●	●	●	●	●	●	●	●	1.3	1.1	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°	1.3	1.1	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	30°	40°	50°	57°		
	4004	●	●	●	●	●	●	●	●	●	●	●	●	1.4	1.3	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	57°	1.4	1.3	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	57°		
	4005	●	●	●	●	●	●	●	●	●	●	●	●	1.4	1.1	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	57°	63°	1.4	1.1	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	40°	50°	57°	63°		
	4006	●	●	●	●	●	●	●	●	●	●	●	●	1.6	1.4	1.2	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	55°	1.8	1.6	1.2	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	55°
	4010	●	●	●	●	●	●	●	●	●	●	●	●	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	32°	40°	45°	48°	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	32°	40°	45°	48°		
	4015	●																																													


V

1/8 inch-3/4inch NPT
or BSPT(male)



V Common Narrow Spray Nozzle design features

V series spray nozzle features a very high impact flat fan spray pattern with narrow spray angles. They produce a uniform spray distribution of medium-sized drops.

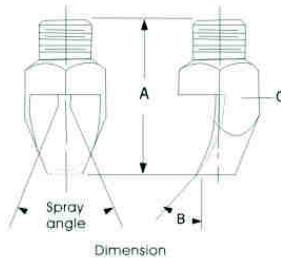
Its V spray pattern has sharply defined edges.

It is one-piece design with male screw thread. A large, unobstructed flow passage minimizes clogging problems.

All V spray nozzles offer a precision-designed deflector surface which produces a uniform, high impact spray pattern.

common application

- Crushed stone gravel washing
- High impact washing
- Oil Removing
- Fruit and vegetable washing
- Paper machine deckle spraying



ordering info

V - 3/8 - SS - 5060

Nozzle type	Inlet size	Material code	Capacity size
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Remark:Brass

SS-stainless steel

316SS-316 stainless steel

Performance data

Spray angle (3 bar)	Nozzle Inlet Conn. NPT or BSPT					Capacity Size Office Dia. No Size (mm)	Capacity (L/min)							Spray angle 1 bar 2 bar 3 bar 4 bar 5 bar 6 bar 7 bar 10 bar 1 bar 3 bar 7 bar	Dimension								
	1/8	1/4	3/8	1/2	3/4		1	2	3	4	5	6	7	10	1	3	7	A (mm)	B (mm)	C Square bar size (mm)	net weight (kg)		
	●	●	●	●	●		5010	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	34°	50°	60	31	60	15.9	0.03
50°	●	●	●	●	●	5025	2.8	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	42°	50°	59	41.5	42	91.1	0.09	
	●	●	●	●	●	5040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	39°	50°	60	47	45	19.1	0.09	
	●	●	●	●	●	5060	4.8	13.7	19.3	24	27	31	33	36	43	42°	50°	53	55	37	25.4	0.14	
	●	●	●	●	●	50100	6.0	23	32	39	46	51	56	60	72	43°	50°	55	72	40	31.8	0.33	
	●	●	●	●	●	50125	6.7	28	40	49	57	64	70	75	90	38°	50°	59	72	38	31.8	0.31	
	●	●	●	●	●	50160	7.5	36	52	63	73	82	89	96	115	44°	50°	55	72	37	31.8	0.31	
	●	●	●	●	●	50200	8.3	46	64	79	91	102	112	121	144	46°	50°	53	72	32	31.8	0.31	
40°	●	●	●	●	●	4040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	31°	40°	50	60	5	35	22.2	0.14
	●	●	●	●	●	4050	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	40°	49	63.5	33	25.4	0.20	
	●	●	●	●	●	4060	4.4	13.7	19.3	24	27	31	33	36	43	32°	40°	49	72	33	25.4	0.23	
	●	●	●	●	●	4070	5.2	16.0	23	28	32	36	39	42	50°	40°	49	75.5	29	25.4	0.26		
	●	●	●	●	●	4080	5.2	18.2	26	32	36	41	45	48	52°	40°	48	77	26	25.4	0.26		
	●	●	●	●	●	4090	5.6	21	29	36	41	46	50	54	65°	34°	40°	44	77	28	25.4	0.23	
	●	●	●	●	●	40100	6.0	23	32	39	46	51	56	60	72	35°	40°	44	86.5	28	25.4	0.26	
35°	●	●	●	●	●	3504	1.2	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	20°	35	41	23	40	11.1	0.01	
	●	●	●	●	●	3510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	18°	35	39	36.5	36	15.9	0.06	
	●	●	●	●	●	3520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	14.4	24°	35	40	42	30	19.1	0.06		
	●	●	●	●	●	3525	2.8	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	24°	35	39	49	28	19.1	0.09	
	●	●	●	●	●	3530	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22°	35	41	52.5	28	19.1	0.09		
	●	●	●	●	●	3540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	28°	35	38	58	26	22.2	0.11	
	●	●	●	●	●	3550	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	35	38	63.5	23	22.2	0.14	
30°	●	●	●	●	●	3560	4.4	13.7	19.3	24	27	31	33	36	43	29°	35	39	73	27	25.4	0.23	
	●	●	●	●	●	3580	5.2	18.2	26	32	36	41	45	48	58°	35	40	81	24	25.4	0.26		
	●	●	●	●	●	35100	6.0	23	32	39	46	51	56	60	72	26°	35	40	89	19	25.4	0.26	
	●	●	●	●	●	35160	7.5	36	52	63	73	82	89	96	115	26°	35	40	114	23	31.8	0.57	
	●	●	●	●	●	35200	8.3	46	64	79	91	102	112	121	144	25°	35	40	122	22	31.8	0.57	
	●	●	●	●	●	2540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	15°	25	34	65	25	19.1	0.11	
	●	●	●	●	●	1510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	15°	23	47.5	22	15.9	0.06		
25°	●	●	●	●	●	1520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	15°	19	54	19	15.9	0.06		
	●	●	●	●	●	1530	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	6°	15°	24	72	25	19.1	0.11	
	●	●	●	●	●	1540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	8°	15	21	92	18	22.2	0.23	
	●	●	●	●	●	1550	4.4	11.4	16.1	19.7	23	25	28	30	36	9°	15°	20	90.5	15	22.2	0.17	
	●	●	●	●	●	1560	5.2	13.7	19.3	24	27	31	33	36	43	10°	15	19	125	14	25.4	0.34	
	●	●	●	●	●	1580	6.0	18.2	26	32	36	41	45	48	58	11°	15	18	130	14	25.4	0.34	
	●	●	●	●	●	15100	7.5	23	32	39	46	51	56	60	72	11°	15	18	137	14	25.4	0.40	
	●	●	●	●	●	15200	8.3	46	64	79	91	102	112	121	144	12°	15	18	191	14	31.8	0.91	

A Series Common Nozzle

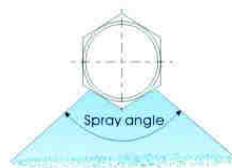
Common Wide-angle Spray Nozzle

W

1/8"-1" NPT
or BSPT(male)

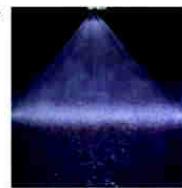
Nozzle Dimension

Nozzle type		
Nozzle Dimension	Hexagona l(mm)	Nozzle length (mm)
1/8	14.3	31
1/4	14.3	34



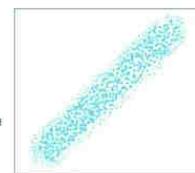
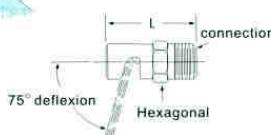
Common application

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



Dimension and weight

For the biggest for each style:



W Common Wide-angle Spray Nozzle design features

W Common Wide-angle Spray Nozzle can produce secondary wide-angle sector spraying shape and uniform spraying drop. The round spray hole and large flow channel offer you least barrier.

It can also be applied in spraying of air or steam. The nozzles have precise diversion area, to well master the slanting angle and spraying angle.

It is made of firm stick with a outer inlet joint.

Performance data

Air and steam

Capacity Size	Orifice Dia. No. Size (mm)	Air capacity (L/m)				Steam capacity (L/min)				The coverage of 150mm	
		0.7bar	1.5bar	3bar	3.5bar	0.7bar	1.5bar	3bar	3.5bar	0.7bar	1.5bar
0.50	0.61	4.5	6.4	10.5	11.6	0.16	0.23	0.37	0.41	51	127
0.75	0.71	6.2	9.1	14.7	16.7	0.23	0.33	0.53	0.66	64	140
1	0.84	9.6	13.7	22	25	0.34	0.49	0.80	0.90	76	152
1.5	1.04	15.3	22	36	40	0.54	0.78	1.3	1.5	89	165
2	1.17	19.3	28	45	51	0.68	1.0	1.6	1.8	102	190
2.5	1.32	27	37	60	71	0.95	1.3	2.1	2.5	102	190
3	1.45	31	47	77	85	1.1	1.7	2.7	3.0	127	203
4	1.65	40	57	85	108	1.4	2.0	3.1	3.9	127	228
5	1.85	54	76	124	139	1.9	2.7	4.5	5.0	152	267
7.5	2.31	79	117	189	210	2.9	4.2	6.8	7.6	152	267
10	2.64	110	159	255	290	3.9	5.7	9.2	10.4	178	279
15	3.28	181	260	420	475	6.5	9.3	15.0	17.1	178	305
20	3.76	225	325	520	590	8.0	11.6	18.8	21	216	368
30	4.57	320	465	760	850	11.6	16.8	27	30	216	394

A Series Common Nozzle

Liquid

Nozzle Inlet Conn. NPT or BSPT(male)	Capacity Size	Rated Orifice Dia. (mm)	Capacity (L/min)								Spray angle			
			0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
1/8	1/4	3/8	1/2	3/4	1	0.25	0.41			0.11	0.14	0.16	0.20	0.23
●						0.50	0.61			0.23	0.28	0.32	0.39	0.46
●	●					0.75	0.71			0.29	0.34	0.42	0.48	0.59
●	●	●				1	0.84			0.38	0.46	0.56	0.64	0.79
●	●	●				1.5	1.0			0.48	0.57	0.68	0.84	0.97
●	●	●				2	1.2			0.64	0.76	0.91	1.1	1.3
●	●	●				2.5	1.3			0.62	0.81	0.95	1.1	1.4
●	●	●				3	1.4			0.75	0.97	1.1	1.4	1.7
●	●	●				4	1.7			1.0	1.3	1.5	1.8	2.2
●	●	●				5	1.9	1.0	1.2	1.6	1.9	2.3	2.8	3.2
●	●	●				7.5	2.3	1.5	1.9	2.4	2.9	3.4	4.2	4.8
●	●	●				10	2.6	2.0	2.5	3.2	3.8	4.6	5.6	6.4
●	●	●				12	2.9	2.4	3.0	3.9	4.6	5.5	6.7	7.7
●	●	●				15	3.3	3.1	3.7	4.8	5.7	6.8	8.4	9.7
●	●	●				18	3.6	3.7	4.5	5.8	6.9	8.2	10.0	11.6
●	●	●				20	3.8	4.1	5.0	6.4	7.6	9.1	11.2	12.9
●	●	●				22	4.0	4.5	5.5	7.1	8.4	10.0	12.3	14.2
●	●	●				24	4.1	4.9	6.0	7.7	9.2	10.9	13.4	15.5
●	●	●				27	4.4	5.5	6.7	8.7	10.3	12.3	15.1	17.4
●	●	●				30	4.6	6.1	7.5	9.7	11.4	13.7	16.7	19.3
●	●	●				35	5.0	7.1	8.7	11.3	13.3	16.0	19.5	23
●	●	●				40	5.3	8.2	10.0	12.9	15.3	18.2	22	26
●	●	●				45	5.6	9.2	11.2	14.5	17.2	21	25	29
●	●	●				50	6.0	10.2	12.5	16.1	19.1	23	28	32
●	●	●				60	6.5	12.2	15.0	19.3	23	27	33	39
●	●	●				70	7.1	14.3	17.5	23	27	32	39	45
●	●	●				80	7.5	16.3	20	26	31	36	45	52
●	●	●				90	8.0	18.3	22	29	34	41	50	58
●	●	●				100	8.4	20	25	32	38	46	56	64
●	●	●				110	8.8	22	27	35	42	50	61	71
●	●	●				120	9.3	24	30	39	46	55	67	77
●	●	●				140	10.3	29	35	45	53	64	78	90
●	●	●				160	11.1	33	40	52	61	73	89	103
●	●	●				180	11.5	37	45	58	69	82	100	116
●	●	●				210	12.3	43	52	68	80	96	117	135
●	●	●				300	14.7	61	75	97	114	137	167	193
●	●	●				450	17.9	92	112	145	172	205	250	290

ordering info

W—1/8—SS 0.50

Nozzle type Inlet size Material code Capacity size

Remark:

BRASS

SS-stainless steel

316SS-316 stainless steel

PVC-Poly(vinyl chloride)

PP-Poly propylene

B series spray nozzle

SJV Three-piece Full Cone Flat Fan Spray Nozzle



SJVC spray tip



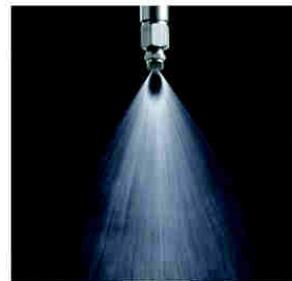
SJVW
Wide angle spray tip



SJVB
Full cone spray tip



SJVA
Hollow cone spray tip



Design features



MG
Tip retainer



GLQ
Screen strainer



SJVE
MALE body

High pressure, High impact solid stream or flat fan spray pattern with spray angles of 0° to 110°.

Spray pattern with uniform distribution, Small-to-medium sized drops. Specially uniform distribution with spray area is ideal for use in manifold and header applications.

All SJV nozzle are finish machining. It can provide the accurate flow and spray angle.

SJVW provide wide angle flat fan atomization, SJVB provide standard solid cone atomization and SJVA provide taper atomization.

common application

- Low pressure washing
- Chemotherapy coating
- Metal cleaning and precessing
- Spray coating
- Degreasing and rinsing
- Parts washing /cleaning
- Spray cooling
- Pressure cleaning
- Sand,coal ,gravel washing

Nozzle body

Nozzle and gasket's material consist of brass .303SS and 316SS. The inlet connection thread (NPT or BSPT) size is 1/8", 1/4", 3/8" and 1/2" (Male or female.)

Inlet Conn. NPT or BSPT	Nozzle parts order NO.		Material
	(female)	(male)	
1/8	1/8QJ	1/8QJJ	Brass
	1/8QJ-SS	1/8-QJJ-SS	ss
1/4	1/4QJ	1/4QJJ	Brass
	1/4QJ-SS	1/4QJJ-SS	ss
3/8	3/8QJ	3/8QJJ	Brass
	3/8QJ-SS	3/8QJJ-SS	ss
1/2	1/2QJ	1/2QJJ	Brass
	1/2QJ-SS	1/2QJJ-SS	ss

Strainer information

The choice for the orifice of the strainer	
Equivalent spray orifice	Suggested size of steel strainer's orifice
less than 0.46mm	200
47mm -0.79mm	100
0.8mm or larger	50

ordering info



SJVL
Female body

SJVE + SJVC - 11001 - SS

Thread body	Nozzle type	Capacity size	Material code	Thread body	Strainer	Nozzle type	Capacity size	Material code
SJVE	+ SJVC	- 11001	- SS	SJVE	+ GLQ	+ SJVC+	11001	- SS

SJVE + GLQ + SJVW+ 11005 - SS

Thread body	Strainer	Wide angle spray tip	Capacity size	Material code
SJVE	+ GLQ	+ SJVW+	11005	- SS

Performance data

Spray angle (3 bar)	Capacity Size	Rated Orifice Dia. (mm)	Capacity (L/min)												Spray angle					
			0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	1.5bar	3bar	6bar	14bar			
110°	11001	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°			
	110015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97°	110°	121°	124°			
	11002	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98°	110°	120°	123°			
	11003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99°	110°	120°	123°			
	11004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	119°	122°			
	11005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	118°	122°			
	11006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	117°	122°			
	11008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	110°	117°	121°			
	11010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	117°	119°			
	11015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	117°	118°			
	11020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	117°	118°			
	11030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	105°	110°	117°	118°			
	01	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81°	95°	105°	113°			
	015	0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	82°	95°	105°	113°			
	02	0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105°	113°			
	03	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104°	111°			
	04	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103°	108°			
	05	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	101°	107°			
	06	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	100°	106°			
	08	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100°	105°			
	10	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100°	105°			
	15	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100°	100°			
	20	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90°	95°	95°	105°			
	30	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	91°	95°	95°	105°			
	40	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92°	95°	95°	105°			
	50	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93°	95°	95°	103°			
	60	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93°	95°	95°	103°			
	70	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	93°	95°	95°	103°			
	0000090	0.20	0.01	0.02	0.03	0.035	0.04	0.045	0.05	0.06	0.07	0.09	0.12							
	000012	0.25	0.02	0.03	0.04	0.05	0.055	0.06	0.067	0.08	0.09	0.12	0.16							
	000019	0.30	0.02	0.04	0.06	0.08	0.09	0.10	0.11	0.12	0.14	0.19	0.26							
	000021	0.34	0.03	0.05	0.07	0.08	0.10	0.11	0.12	0.13	0.15	0.21	0.28							
	000050	0.51	0.06	0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67							
	000067	0.58	0.08	0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90							
	0001	0.71	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3							
	00015	0.84	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0							
	0002	0.99	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7							
	0003	1.2	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0							
	0004	1.4	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4							
	0005	1.5	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7							
	0006	1.7	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1							
	0008	2.0	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8							
	0010	2.2	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5							
	0015	2.7	1.9	2.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20							
	0020	3.2	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27							
	0030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40							
	0040	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54							



B series spray nozzle

Wide angle fan cone performance data

Nozzle Inlet Conn. NPT or BSPT(male)	Capacity Size	Rated Orifice Dia. (mm)	Capacity (L/min)								Spray angle				
1/8	1/4		0.2bar	0.3bar	0.5bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	0.5bar	1.5bar	4bar	
●		0.25										83°	117°		
●		0.50	0.41									89°	122°		
●		0.75	0.61									106°	125°		
●		1	0.84									109°	128°		
●		1.5	1.0									108°	125°		
●	●	2	1.2									113°	129°		
●	●	2.5	1.3	0.62	0.81	0.95	1.1	1.4	1.6	2.0	2.3	98°	122°	133°	
●	●	3	1.4									112°	126°		
●	●	4	1.7									123°	132°		
●	●	5	1.9	1.0	1.2	1.6	1.9	2.3	2.8	3.2	3.9	4.6	114°	128°	
●	●	7.5	2.3	1.5	1.9	2.4	2.9	3.4	4.2	4.8	5.9	6.8	101°	119°	134°
●	●	10	2.6	2.0	2.5	3.2	3.8	4.6	5.6	6.7	7.9	9.1	115°	133°	145°
●	●	12	2.9	2.4	3.0	3.9	4.6	5.5	6.7	7.7	9.5	10.9	128°	139°	153°
●	●	15	3.3	3.1	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	98°	113°	123°
●	●	18	3.6	3.7	4.5	5.8	6.9	8.2	10.0	11.6	14.2	16.4	106°	120°	131°
●	●	20	3.8	4.1	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	110°	122°	133°
●	●	22	4.0	4.5	5.5	7.1	8.4	10.0	12.3	14.2	17.4	20	113°	125°	136°
●	●	24	4.1	4.9	6.0	7.7	9.2	10.9	13.4	15.5	18.9	22	115°	131°	144°
●	●	27	4.4	5.5	6.7	8.7	10.3	12.3	15.1	17.4	21	25	119°	135°	148°

C Series Quick Dismantling Nozzle

QJJ SS Dismantling Nozzle

QB



full cone quick dismantling nozzle tip

QC



flat fan quick dismantling nozzle tip

QCL



narrow angle flat fan nozzle tip

QV



narrow angle flat fan quick dismantling nozzle tip



Gasket



Gasket



Gasket



Gasket



1/4-1/2QJJ
Male nozzle body



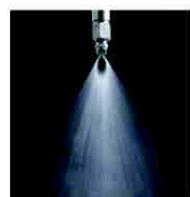
1/4-1/2QJJ
male nozzle body



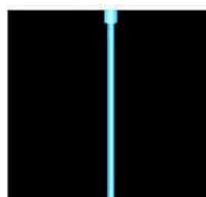
1/8-1/2 QJ
female nozzle body



1/8-1/2 QJ
female nozzle body



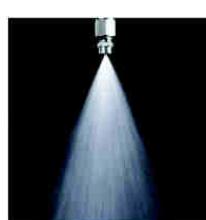
standard flat fan



solid stream



narrow angle flat fan



full cone

Design features

Flat fan spray nozzle is time-saving, which is quick-install with inlet connect size of 1/4" and 1/8", and automatically adjusting spray pattern. QCL nozzle can have the flow rate of 3.9 l/min under 3 bar pressure . QC/QB can have the flow rate of 3.9 l/min or above. They are the perfect choice when the device is small and light.

Common application

- chemical spraying
- low pressure washing
- PCB manufacturing
- product washing and rinsing
- cooling
- moistening
- chemical manufacturing
- dust control

inlet connection NPT or BSPT	standard model of nozzle body	
	(Female)	(Male)
QJ	●	QJJ
1/8		
1/4		●
3/8	●	
1/2	●	

ordering info

QB — 1/4 — SS — 11010

Nozzle type	Inlet size	Material code	Capacity size
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C Series Quick Dismantling Nozzle

Performance data

Spray angle (3 bar)	Capacity Size	Quick spray tip		Orifice of nozzle (mm)	Capacity (L/min)												Spray angle								
		QCL	QC		0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	14 bar						
110°	11001			0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94	110°	121	124°						
	110015			0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	97	110°	121	124°						
	11002			0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	98	110°	121	123°						
	11003	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	99	121°	123°									
	11004	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	100°	110°	121	122°								
	11005	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	100°	110°	121	122°								
	11006	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	101°	110°	121	122°								
	11008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	102°	121°	121°									
	11010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	103°	110°	121	119°								
	11015	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	104°	110°	121	118°								
	11020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	105°	110°	121	118°								
95°	9501			0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	81°	95°	105	113°						
	95015			0.79	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	82°	95°	105	113°						
	9502			0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	82°	95°	105	113°						
	9503	1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	83°	95°	104	111°								
	9504	1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	84°	95°	103	108°								
	9505	1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	84°	95°	102	107°								
	9506	1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	86°	95°	101	106°								
	9508	1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	87°	95°	100	105°								
	9510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	89°	95°	100	105°								
	9515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	90°	95°	100	105°								
	9520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	90°	95°	100	105°								
80°	9530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	17.1	18.1	22	31	40	91°	95°	101	105°							
	9540	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	92°	95°	100	105°								
	9550	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	93°	95°	99	103°								
	9560	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	93°	95°	99	103°								
	9570	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	93°	95	99	103°								
	95100	6.4	12.5	23	32	39	46	51	56	60	72	102	135	93°	95	99	102°								
	95150	7.5	18.7	34	48	59	68	76	84	90	108	153	205	93°	95	99	102°								
	000009	●	0.20	0.01	0.02	0.03	0.05	0.04	0.05	0.06	0.07	0.09	0.12												
	000012	●	0.25	0.02	0.03	0.14	0.05	0.055	0.06	0.067	0.08	0.09	0.12	0.16											
	000019	●	0.30	0.02	0.04	0.06	0.08	0.09	0.10	0.11	0.12	0.14	0.19	0.26											
0°	000021	●	0.34	0.03	0.05	0.07	0.08	0.10	0.11	0.12	0.13	0.15	0.21	0.28											
	000050	●	0.51	0.06	0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67											
	000067	●	0.58	0.08	0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90											
	00001	●	0.71	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3											
	000015	●	0.84	0.19	0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0											
	00002	●	0.99	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7											
	00003	●	1.2	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0											
	00004	●	1.4	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4											
	00005	●	1.5	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7											
	00006	●	1.7	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1											
	00008	●	2.0	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8											
0° solid stream	00010		2.2	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5											
	00015		2.7	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20											
	00020		3.2	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27											
	00030		3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40											
	00040		4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54											
	00050		4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68											
	00060		4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81											
	00070		5.2	8.7	16.0	23	28	32	36	39	42	50	71	94											
	00080		5.2	10.0	18.2	26	32	36	41	45	48	58	82	108											
	000100		6.0	12.5	23	32	39	46	51	56	60	72	102	135											
	000120		6.4	15.0	27	39	47	55	61	67	72	86	122	162											
	000150		7.5	18.7	34	48	59	68	76	84	90	108	153	205											
	000200		8.3	25	46	64	79	91	102	112	121	144	205	270											
	000250		9.5	31	57	81	99	114	127	140	151	180	255	340											

The right size of nozzle body and the right capacity of nozzle tip can guarantee the best spray pattern.

The nozzle body must fit for the tips capacity.

Remark: Parameters of QB refer to the form on paper 15;

Parameters of QV refer to the form on paper 22;

QJJ Plastic Dismantling Nozzle

Design features

Easy nozzle replacement

Easy dismantling nozzle design, the nozzle and spray head can be quickly dismantled. You can rotate the spray head by 90 degree to install it or split it from nozzle by hand. So it can significantly downtime during maintenance.



Auto orienting spray head

There is an interior block, which can keep nozzle in right position without manual adjustment. Therefore, it can avoid quality problem caused by wrong orientation of nozzle.

Anti-corrosion and wearable

Easy split nozzle; Made of Glass Fiber PP (25%), Carbon Fiber PP (40%) and PVDF, featured high intensity, wearability and anticorrosion; Suitable for washing and rinsing of corrosive solution, such as phosphate, acid & solvent; Max temperature for Glass Fiber PP is 82°C; Max temperature for Carbon Fiber is 120°C; While PVDF is high pure without pigment which can keep high purity in processing, and the max temperature is 148°C under 7kg pressure.

Widely capacity choice.

Available sizes: 1/8", 1/4" and 3/8"; Absolutely windtight between nozzle and spray head with an interior O-shaped NBR windtight circle; Easy Split Nozzle; Special appearance of spray head for grasp; Available spray head shapes: QC flat fan, QB full cone and QA hollow cone; and various capacities & angles are available.

Performance data



Easy-dismantling Flat Fan Spray Tip

nozzle type (Spraying angle under 3 bar pressure)					Capacity (L/min)								
50°	65°	80°	95°	110°	0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	14bar
QC5001	QC6501	QC8001	QC9501	QC11001	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.85
QC5002	QC6502	QC8002	QC9502	QC11002	0.25	0.45	0.64	0.79	0.91	1.0	1.1	1.2	1.7
QC5003	QC6503	QC8003	QC9503	QC11003	0.37	0.69	0.97	1.2	1.4	1.5	1.7	1.8	2.6
QC5004	QC6504	QC8004	QC9504	QC11004	0.50	0.92	1.3	1.6	1.8	2.0	2.2	2.4	3.4
QC5005	QC6505	QC8005	QC9505	QC11005	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	4.3
QC5006	QC6506	QC8006	QC9506	QC11006	0.75	1.3	1.9	2.4	2.7	3.1	3.3	3.6	5.1
QC5008	QC6508	QC8008	QC9508	QC11008	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	6.8
QC5010	QC6510	QC8010	QC9510	QC11010	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	8.5
QC6015	QC6515	QC8015	QC9515	QC11015	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	12.8
QC5020	QC6520	QC8020	QC9520	QC11020	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	17.1
QC5030	QC6530	QC8030	QC9530	QC11030	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	26

Easy-dismantling Full Cone Spray Tip



nozzle type	Capacity (L/min)										Spray angle		
	0.5bar	0.7bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	0.5bar	1.5bar	6bar
QB1	0.25	0.38	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.3	—	58°	53°
QB2	0.65	0.76	1.0	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
QB3	0.98	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
QB3.5	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
QB5	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	65°	59°
QB6.5	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
QB10	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°

Easy-dismantling Hollow Cone Spray Tip



Hollow Cone

nozzle type	Capacity (L/min)										Spray angle		
	0.2bar	0.5bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
QA0.5	—	0.16	0.23	0.28	0.32	0.39	0.46	0.51	1.56	0.60	—	58°	69°
QA1	—	0.32	1.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2	—	65°	76°
QA2	—	0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	53°	70°	80°
QA3	—	0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	55°	79°	80°
QA5	—	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	70°	75°	79°
QA8	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	65°	72°	74°
QA10	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	70°	76°	75°
QA15	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	70°	72°	75°
QA5W	—	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	125°	112°	98°
QA8W	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	112°	100°	87°
QA10W	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	111°	97°	89°
QA15W	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	110°	98°	90°

common application

- PCB
- Wash & Rinse
- Phosphatization for metal parts
- Cooling
- Moistening
- Chemical Manufacture
- Dust Removing

ordering info

nozzle type	Nozzle Inlet Conn. (inch)
QJJ1/8	1/8
QJJ1/4	1/4
QJJB1/4	1/4(ngle fitting)
QJJ3/8	3/8

Please mark out nozzle model and spray tip model.

For Example:
Nozzle Model:QJJ1/4-PP
Spray tip Model:QB5-PP
Complete nozzle model:
QJJ1/4-PP+QB5-PP



Plastic nozzle



Plastic nozzle tip



Gasket



Gasket



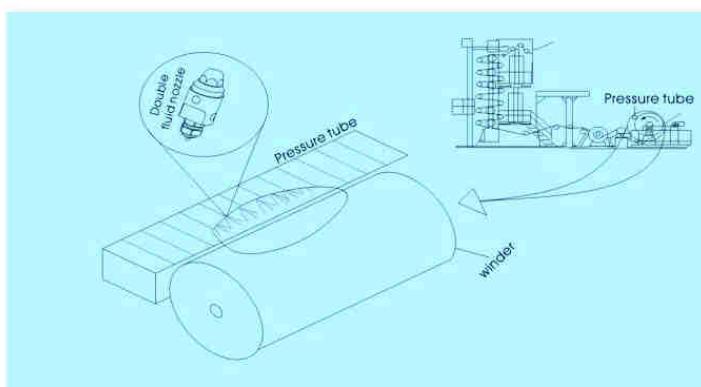
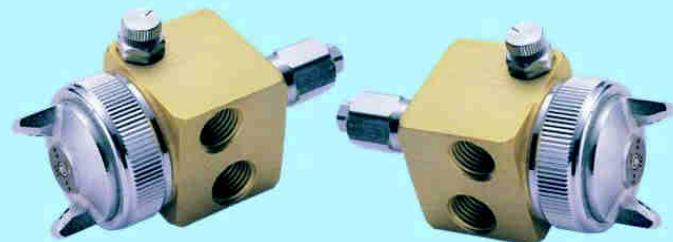
Nozzle body



Nozzle body

C Series Quick Dismantling Nozzle

D Series Atomizing Nozzle



Air Atomizing Nozzle

Design features

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



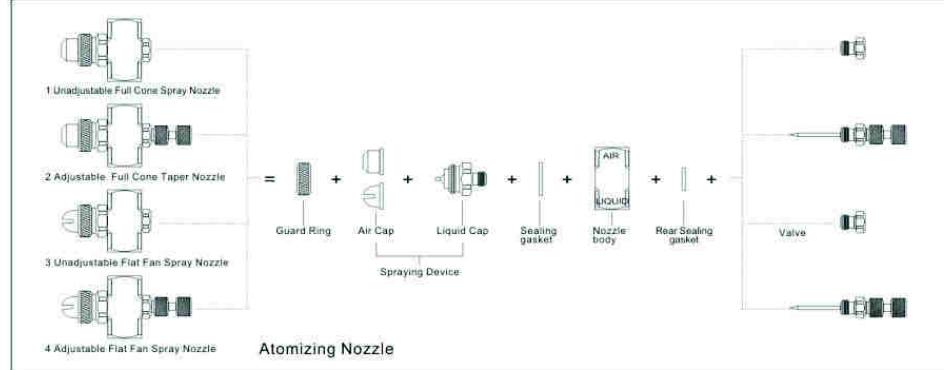
common application

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



Efficient Moisture
Ideal choice of location with
efficient moisture

Structure

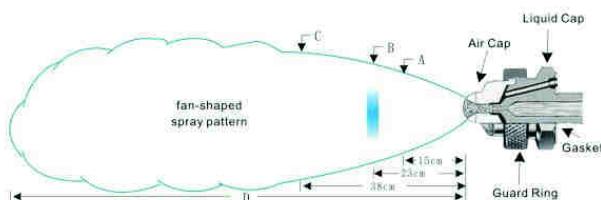


D Series Air Atomizing Nozzle

Pressure Air Atomizing

Performance data

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



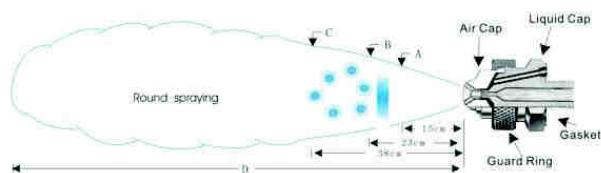
D Series Air Atomizing Nozzle

flat Spray

spray device device model	spray device consists of air cap and fluid cap	liquid flow (L/min) and flow (L/min)												Size				
		Water pressure (bar)						Air pressure (bar)										
		0.7bar			1.5bar			2bar			3bar			4bar				
SUC13A	Liquid Cap 2050 and Air Cap 73328	0.7 5.5 0.8 5.5 1.0 6.1 1.1 6.1 1.3 6.6 1.5 6.6 1.7 7.0 1.9 7.0 2.1 7.4 2.3 7.4 2.5 7.6 2.7 7.6 2.9 7.8 3.1 7.8 3.3 8.1 3.5 8.1 3.7 8.4 3.9 8.4 4.1 8.7 4.3 8.7 4.5 9.0 4.7 9.0 4.9 9.3 5.1 9.3 5.3 9.6 5.5 9.6 5.7 9.9 5.9 9.9 6.1 10.2 6.3 10.2 6.5 10.5 6.7 10.5 6.9 10.8 7.1 10.8 7.3 11.1 7.5 11.1 7.7 11.4 7.9 11.4 8.1 11.7 8.3 11.7 8.5 12.0 8.7 12.0 8.9 12.3 9.1 12.3 9.3 12.6 9.5 12.6 9.7 12.9 9.9 12.9 10.1 13.2 10.3 13.2 10.5 13.5 10.7 13.5 10.9 13.8 11.1 13.8 11.3 14.1 11.5 14.1 11.7 14.4 11.9 14.4 12.1 14.7 12.3 14.7 12.5 15.0 12.7 15.0 12.9 15.3 13.1 15.3 13.3 15.6 13.5 15.6 13.7 15.9 13.9 15.9 14.1 16.2 14.3 16.2 14.5 16.5 14.7 16.5 14.9 16.8 15.1 16.8 15.3 17.1 15.5 17.1 15.7 17.4 15.9 17.4 16.1 17.7 16.3 17.7 16.5 18.0 16.7 18.0 16.9 18.3 17.1 18.3 17.3 18.6 17.5 18.6 17.7 18.9 17.9 18.9 18.1 19.2 18.3 19.2 18.5 19.5 18.7 19.5 18.9 19.8 19.1 19.8 19.3 20.1 19.5 20.1 19.7 20.4 19.9 20.4 20.1 20.7 20.3 20.7 20.5 21.0 20.7 21.0 20.9 21.3 21.1 21.3 21.3 21.6 21.5 21.6 21.7 21.9 21.9 21.9 22.1 22.2 22.3 22.2 22.5 22.5 22.7 22.5 22.9 22.9 23.1 22.9 23.3 23.3 23.5 23.3 23.7 23.3 23.9 23.3 24.1 23.3 24.3 23.3 24.5 23.3 24.7 23.3 24.9 23.3 25.1 23.3 25.3 23.3 25.5 23.3 25.7 23.3 25.9 23.3 26.1 23.3 26.3 23.3 26.5 23.3 26.7 23.3 26.9 23.3 27.1 23.3 27.3 23.3 27.5 23.3 27.7 23.3 27.9 23.3 28.1 23.3 28.3 23.3 28.5 23.3 28.7 23.3 28.9 23.3 29.1 23.3 29.3 23.3 29.5 23.3 29.7 23.3 29.9 23.3 30.1 23.3 30.3 23.3 30.5 23.3 30.7 23.3 30.9 23.3 31.1 23.3 31.3 23.3 31.5 23.3 31.7 23.3 31.9 23.3 32.1 23.3 32.3 23.3 32.5 23.3 32.7 23.3 32.9 23.3 33.1 23.3 33.3 23.3 33.5 23.3 33.7 23.3 33.9 23.3 34.1 23.3 34.3 23.3 34.5 23.3 34.7 23.3 34.9 23.3 35.1 23.3 35.3 23.3 35.5 23.3 35.7 23.3 35.9 23.3 36.1 23.3 36.3 23.3 36.5 23.3 36.7 23.3 36.9 23.3 37.1 23.3 37.3 23.3 37.5 23.3 37.7 23.3 37.9 23.3 38.1 23.3 38.3 23.3 38.5 23.3 38.7 23.3 38.9 23.3 39.1 23.3 39.3 23.3 39.5 23.3 39.7 23.3 39.9 23.3 40.1 23.3 40.3 23.3 40.5 23.3 40.7 23.3 40.9 23.3 41.1 23.3 41.3 23.3 41.5 23.3 41.7 23.3 41.9 23.3 42.1 23.3 42.3 23.3 42.5 23.3 42.7 23.3 42.9 23.3 43.1 23.3 43.3 23.3 43.5 23.3 43.7 23.3 43.9 23.3 44.1 23.3 44.3 23.3 44.5 23.3 44.7 23.3 44.9 23.3 45.1 23.3 45.3 23.3 45.5 23.3 45.7 23.3 45.9 23.3 46.1 23.3 46.3 23.3 46.5 23.3 46.7 23.3 46.9 23.3 47.1 23.3 47.3 23.3 47.5 23.3 47.7 23.3 47.9 23.3 48.1 23.3 48.3 23.3 48.5 23.3 48.7 23.3 48.9 23.3 49.1 23.3 49.3 23.3 49.5 23.3 49.7 23.3 49.9 23.3 50.1 23.3 50.3 23.3 50.5 23.3 50.7 23.3 50.9 23.3 51.1 23.3 51.3 23.3 51.5 23.3 51.7 23.3 51.9 23.3 52.1 23.3 52.3 23.3 52.5 23.3 52.7 23.3 52.9 23.3 53.1 23.3 53.3 23.3 53.5 23.3 53.7 23.3 53.9 23.3 54.1 23.3 54.3 23.3 54.5 23.3 54.7 23.3 54.9 23.3 55.1 23.3 55.3 23.3 55.5 23.3 55.7 23.3 55.9 23.3 56.1 23.3 56.3 23.3 56.5 23.3 56.7 23.3 56.9 23.3 57.1 23.3 57.3 23.3 57.5 23.3 57.7 23.3 57.9 23.3 58.1 23.3 58.3 23.3 58.5 23.3 58.7 23.3 58.9 23.3 59.1 23.3 59.3 23.3 59.5 23.3 59.7 23.3 59.9 23.3 60.1 23.3 60.3 23.3 60.5 23.3 60.7 23.3 60.9 23.3 61.1 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23.3 81.3 23.3 81.5 23.3 81.7 23.3 81.9 23.3 82.1 23.3 82.3 23.3 82.5 23.3 82.7 23.3 82.9 23.3 83.1 23.3 83.3 23.3 83.5 23.3 83.7 23.3 83.9 23.3 84.1 23.3 84.3 23.3 84.5 23.3 84.7 23.3 84.9 23.3 85.1 23.3 85.3 23.3 85.5 23.3 85.7 23.3 85.9 23.3 86.1 23.3 86.3 23.3 86.5 23.3 86.7 23.3 86.9 23.3 87.1 23.3 87.3 23.3 87.5 23.3 87.7 23.3 87.9 23.3 88.1 23.3 88.3 23.3 88.5 23.3 88.7 23.3 88.9 23.3 89.1 23.3 89.3 23.3 89.5 23.3 89.7 23.3 89.9 23.3 90.1 23.3 90.3 23.3 90.5 23.3 90.7 23.3 90.9 23.3 91.1 23.3 91.3 23.3 91.5 23.3 91.7 23.3 91.9 23.3 92.1 23.3 92.3 23.3 92.5 23.3 92.7 23.3 92.9 23.3 93.1 23.3 93.3 23.3 93.5 23.3 93.7 23.3 93.9 23.3 94.1 23.3 94.3 23.3 94.5 23.3 94.7 23.3 94.9 23.3 95.1 23.3 95.3 23.3 95.5 23.3 95.7 23.3 95.9 23.3 96.1 23.3 96.3 23.3 96.5 23.3 96.7 23.3 96.9 23.3 97.1 23.3 97.3 23.3 97.5 23.3 97.7 23.3 97.9 23.3 98.1 23.3 98.3 23.3 98.5 23.3 98.7 23.3 98.9 23.3 99.1 23.3 99.3 23.3 99.5 23.3 99.7 23.3 99.9 23.3 100.1 23.3 100.3 23.3 100.5 23.3 100.7 23.3 100.9 23.3 101.1 23.3 101.3 23.3 101.5 23.3 101.7 23.3 101.9 23.3 102.1 23.3 102.3 23.3 102.5 23.3 102.7 23.3 102.9 23.3 103.1 23.3 103.3 23.3 103.5 23.3 103.7 23.3 103.9 23.3 104.1 23.3 104.3 23.3 104.5 23.3 104.7 23.3 104.9 23.3 105.1 23.3 105.3 23.3 105.5 23.3 105.7 23.3 105.9 23.3 106.1 23.3 106.3 23.3 106.5 23.3 106.7 23.3 106.9 23.3 107.1 23.3 107.3 23.3 107.5 23.3 107.7 23.3 107.9 23.3 108.1 23.3 108.3 23.3 108.5 23.3 108.7 23.3 108.9 23.3 109.1 23.3 109.3 23.3 109.5 23.3 109.7 23.3 109.9 23.3 110.1 23.3 110.3 23.3 110.5 23.3 110.7 23.3 110.9 23.3 111.1 23.3 111.3 23.3 111.5 23.3 111.7 23.3 111.9 23.3 112.1 23.3 112.3 23.3 112.5 23.3 112.7 23.3 112.9 23.3 113.1 23.3 113.3 23.3 113.5 23.3 113.7 23.3 113.9 23.3 114.1 23.3 114.3 23.3 114.5 23.3 114.7 23.3 114.9 23.3 115.1 23.3 115.3 23.3 115.5 23.3 115.7 23.3 115.9 23.3 116.1 23.3 116.3 23.3 116.5 23.3 116.7 23.3 116.9 23.3 117.1 23.3 117.3 23.3 117.5 23.3 117.7 23.3 117.9 23.3 118.1 23.3 118.3 23.3 118.5 23.3 118.7 23.3 118.9 23.3 119.1 23.3 119.3 23.3 119.5 23.3 119.7 23.3 119.9 23.3 120.1 23.3 120.3 23.3 120.5 23.3 120.7 23.3 120.9 23.3 121.1 23.3 121.3 23.3 121.5 23.3 121.7 23.3 121.9 23.3 122.1 23.3 122.3 23.3 122.5 23.3 122.7 23.3 122.9 23.3 123.1 23.3 123.3 23.3 123.5 23.3 123.7 23.3 123.9 23.3 124.1 23.3 124.3 23.3 124.5 23.3 124.7 23.3 124.9 23.3 125.1 23.3 125.3 23.3 125.5 23.3 125.7 23.3 125.9 23.3 126.1 23.3 126.3 23.3 126.5 23.3 126.7 23.3 126.9 23.3 127.1 23.3 127.3 23.3 127.5 23.3 127.7 23.3 127.9 23.3 128.1 23.3 128.3 23.3 128.5 23.3 128.7 23.3 128.9 23.3 129.1 23.3 129.3 23.3 129.5 23.3 129.7 23.3 129.9 23.3 130.1 23.3 130.3 23.3 130.5 23.3 130.7 23.3 130.9 23.3 131.1 23.3 131.3 23.3 131.5 23.3 131.7 23.3 131.9 23.3 132.1 23.3 132.3 23.3 132.5 23.3 132.7 23.3 132.9 23.3 133.1 23.3 133.3 23.3 133.5 23.3 133.7 23.3 133.9 23.3 134.1 23.3 134.3 23.3 134.5 23.3 134.7 23.3 134.9 23.3 135.1 23.3 135.3 23.3 135.5 23.3 135.7 23.3 135.9 23.3 136.1 23.3 136.3 23.3 136.5 23.3 136.7 23.3 136.9 23.3 137.1 23.3 137.3 23.3 137.5 23.3 137.7 23.3 137.9 23.3 138.1 23.3 138.3 23.3 138.5 23.3 138.7 23.3 138.9 23.3 139.1 23.3 139.3 23.3 139.5 23.3 139.7 23.3 139.9 23.3 140.1 23.3 140.3 23.3 140.5 23.3 140.7 23.3 140.9 23.3 141.1 23.3 141.3 23.3 141.5 23.3 141.7 23.3 141.9 23.3 142.1 23.3 142.3 23.3 142.5 23.3 142.7 23.3 142.9 23.3 143.1 23.3 143.3 23.3 143.5 23.3 143.7 23.3 143.9 23.3 144.1 23.3 144.3 23.3 144.5 23.3 144.7 23.3 144.9 23.3 145.1 23.3 145.3 23.3 145.5 23.3 145.7 23.3 145.9 23.3 146.1 23.3 146.3 23.3 146.5 23.3 146.7 23.3 146.9 23.3 147.1 23.3 147.3 23.3 147.5 23.3 147.7 23.3 147.9 23.3 148.1 23.3 148.3 23.3 148.5 23.3 148.7 23.3 148.9 23.3 149.1 23.3 149.3 23.3 149.5 23.3 149.7 23.3 149.9 23.3 150.1 23.3 150.3 23.3 150.5 23.3 150.7 23.3 150.9 23.3 151.1 23.3 151.3 23.3 151.5 23.3 151.7 23.3 151.9 23.3 152.1 23.3 152.3 23.3 152.5 23.3 152.7 23.3 152.9 23.3 153.1 23.3 153.3 23.3 153.5 23.3 153.7 23.3 153.9 23.3 154.1 23.3 154.3 23.3 154.5 23.3 154.7 23.3 154.9 23.3 155.1 23.3 155.3 23.3 155.5 23.3 155.7 23.3 155.9 23.3 156.1 23.3 156.3 23.3 156.5 23.3 156.7 23.3 156.9 23.3 157.1 23.3 157.3 23.3 157.5 23.3 157.7 23.3 157.9 23.3 158.1 23.3 158.3 23.3 158.5 23.3 158.7 23.3 158.9 23.3 159.1 23.3 159.3 23.3 159.5 23.3 159.7 23.3 159.9 23.3 160.1 23.3 160.3 23.3 160.5 23.3 160.7 23.3 160.9 23.3 161.1 23.3 161.3 23.3 161.5 23.3 161.7 23.3 161.9 23.3 162.1 23.3 162.3 23.3 162.5 23.3 162.7 23.3 162.9 23.3 163.1 23.3 163.3 23.3 163.5 23.3 163.7 23.3 163.9 23.3 164.1 23.3 164.3 23.3 164.5 23.3 164.7 23.3 164.9 23.3 165.1 23.3 165.3 23.3 165.5 23.3 165.7 23.3 165.9 23.3 166.1 23.3 166.3 23.3 166.5 23.3 166.7 23.3 166.9 23.3 167.1 23.3 167.3 23.3 167.5 23.3 167.7 23.3 167.9 23.3 168.1 23.3 168.3 23.3 168.5 23.3 168.7 23.3 168.9 23.3 169.1 23.3 169.3 23.3 169.5 23.3 169.7 23.3 169.9 23.3 170.1 23.3 170.3 23.3 170.5 23.3 170.7 23.3 170.9 23.3 171.1 23.3 171.3 23.3 171.5 23.3 171.7 23.3 171.9 23.3 172.1 23.3 172.3 23.3 172.5 23.3 172.7 23.3 172.9 23.3 173.1 23.3 173.3 23.3 173.5 23.3 173.7 23.3 173.9 23.3 174.1 23.3 174.3 23.3 174.5 23.3 174.7 23.3 174.9 23.3 175.1 23.3 175.3 23.3 175.5 23.3 175.7 23.3 175.9 23.3 176.1 23.3 176.3 23.3 176.5 23.3 176.7 23.3 176.9 23.3 177.1 2																

D Series Air Atomizing Nozzle

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



Wide-angle round spray

Performance data

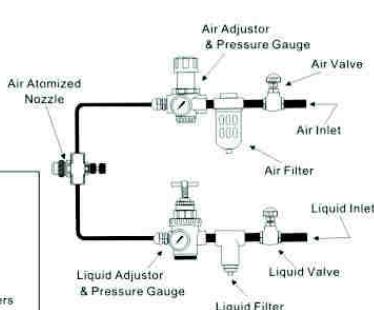
spray device model	spray device consists of oil cap and fluid cap	liquid flow (L/min) and flow (L/min)												Size									
		Water pressure (bar)																					
		0.7bar		1.5bar		2bar		3bar		4bar		Water (L/min)		Air (L/min)		Water (bar)		Air (cm)		B (cm)		C (cm)	
SUK16	Liquid Cap 2050 and Air Cap 67-6-20-70	0.6 0.85 1.0	5.3 3.0 1.7	10.2 14.2 17.0	1.1 1.4 2.4	6.1 6.4 5.5	13.3 17.0 19.0	1.5 2.1 2.4	8.1 4.9 3.2	16.4 21 29	2.4 1.9 3.4	8.9 1.9 4.2	22 26 34	3.1 3.0 4.2	10.5 9.7 6.1	24 28 42	0.7 1.4 4.2	0.7 1.5 3.0	14 19 42	18 24 30	23 24 30	1.5 1.8 4.0	
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.85 1.0	7.0 2.1	5.0 62	1.7 1.8	9.8 9.8	79 79	2.0 2.2	18.5 11.7	68 89	2.8 2.2	25 28	84 92	3.7 3.8	31 28	96 105	0.85 0.85	0.7 0.7	18 19	24 25	31 33	1.8 2.4	
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.85 1.0	13.6 7.6	5.4 5.7	4.4 5.7	35 28	49 61	2.2 2.4	2.6 18.9	78 89	3.1 3.1	46 39	87 99	3.8 4.2	68 41	79 130	1.85 4.2	0.7 2.0	19 21	25 20	37 33	3.2 3.2	
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.85 1.0	13.6 7.6	4.4 5.7	4.4 5.7	35 28	49 61	2.2 2.4	2.6 18.9	78 89	3.1 3.1	46 39	87 99	3.8 4.2	68 41	79 130	1.85 4.2	0.7 2.0	19 21	25 20	37 33	3.2 3.2	
SUK26	Liquid Cap 60100 and Air Cap 140-6-37-70	0.7 0.85 1.0	24 13.6 7.6	32 44 57	1.4 1.5 1.7	43 35 28	37 49 71	2.1 2.2 2.5	33 26 11.7	66 78 100	2.8 3.0 3.2	52 46 33	76 83 99	3.7 3.9 4.2	63 52 41	68 79 111	3.7 1.5 2.4	0.7 1.5 2.0	24 20 27	36 37 38	3.6 3.7 4.1		
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.7 0.85 1.0	24 13.6 7.6	32 44 57	1.4 1.5 1.7	43 35 28	37 49 71	2.1 2.2 2.5	33 26 11.7	66 78 100	2.8 3.0 3.2	52 46 33	76 83 99	3.7 3.9 4.2	63 52 41	68 79 111	3.7 1.5 2.4	0.7 1.5 2.0	24 20 27	36 37 38	3.6 3.7 4.1		
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.7 0.85 1.0	24 13.6 7.6	32 44 57	1.4 1.5 1.7	43 35 28	37 49 71	2.1 2.2 2.5	33 26 11.7	66 78 100	2.8 3.0 3.2	52 46 33	76 83 99	3.7 3.9 4.2	63 52 41	68 79 111	3.7 1.5 2.4	0.7 1.5 2.0	24 20 27	36 37 38	3.6 3.7 4.1		
	Liquid Cap 60100 and Air Cap 140-6-37-70	0.7 0.85 1.0	24 13.6 7.6	32 44 57	1.4 1.5 1.7	43 35 28	37 49 71	2.1 2.2 2.5	33 26 11.7	66 78 100	2.8 3.0 3.2	52 46 33	76 83 99	3.7 3.9 4.2	63 52 41	68 79 111	3.7 1.5 2.4	0.7 1.5 2.0	24 20 27	36 37 38	3.6 3.7 4.1		
SUK29	Liquid Cap 60100 and Air Cap 140-6-52-70	1.3 1.5 1.8 2.0 2.1 2.3 2.4	36 29 23 19.7 16.7 14.0 11.4	85 102 117 125 133 142 149	2.1 2.4 2.7 3.0 3.2 3.5 4.2	57 51 45 39 33 28 58	116 130 145 157 170 185 220	3.1 3.2 3.4 3.5 3.9 4.6 4.7	53 50 47 45 38 25 95	156 130 143 170 100 220	4.2 4.9 5.6 5.6 6.3 	64 51 47 34 31 25 47	197 230 170 265 135 245 245	5.6 5.1 4.6 5.6 6.7 6.7 5.0	74 60 62 260 142 22 167	245 260 280 300 315 320 335	245 260 280 300 315 320 335	0.7 0.7 1.5 2.0 3.0 4.0 5.5	1.5 1.5 2.0 2.0 3.0 4.0 5.5	24 27 34 37 41 41 41			
	Liquid Cap 60100 and Air Cap 140-6-52-70	1.3 1.5 1.8 2.0 2.1 2.3 2.4	36 29 23 19.7 16.7 14.0 11.4	85 102 117 125 133 142 149	2.1 2.4 2.7 3.0 3.2 3.5 4.2	57 51 45 39 33 28 58	116 130 145 170 185 220 220	3.1 3.2 3.4 3.5 3.9 4.6 4.7	53 50 47 45 38 25 95	156 130 143 170 100 220	4.2 4.9 5.6 5.6 6.2 	64 51 47 34 31 25 167	197 230 170 265 135 22 167	5.6 5.1 4.6 5.6 6.7 6.7 5.0	74 60 62 260 142 22 167	245 260 280 300 315 320 335	0.7 0.7 1.5 2.0 3.0 4.0 5.5	1.5 1.5 2.0 2.0 3.0 4.0 5.5	24 27 34 37 41 41 41				
	Liquid Cap 60100 and Air Cap 140-6-52-70	1.3 1.5 1.8 2.0 2.1 2.3 2.4	36 29 23 19.7 16.7 14.0 11.4	85 102 117 125 133 142 149	2.1 2.4 2.7 3.0 3.2 3.5 4.2	57 51 45 39 33 28 58	116 130 145 170 185 220 220	3.1 3.2 3.4 3.5 3.9 4.6 4.7	53 50 47 45 38 25 95	156 130 143 170 100 220	4.2 4.9 5.6 5.6 6.2 	64 51 47 34 31 25 167	197 230 170 265 135 22 167	5.6 5.1 4.6 5.6 6.7 6.7 5.0	74 60 62 260 142 22 167	245 260 280 300 315 320 335	0.7 0.7 1.5 2.0 3.0 4.0 5.5	1.5 1.5 2.0 2.0 3.0 4.0 5.5	24 27 34 37 41 41 41				
	Liquid Cap 60100 and Air Cap 140-6-52-70	1.3 1.5 1.8 2.0 2.1 2.3 2.4	36 29 23 19.7 16.7 14.0 11.4	85 102 117 125 133 142 149	2.1 2.4 2.7 3.0 3.2 3.5 4.2	57 51 45 39 33 28 58	116 130 145 170 185 220 220	3.1 3.2 3.4 3.5 3.9 4.6 4.7	53 50 47 45 38 25 95	156 130 143 170 100 220	4.2 4.9 5.6 5.6 6.2 	64 51 47 34 31 25 167	197 230 170 265 135 22 167	5.6 5.1 4.6 5.6 6.7 6.7 5.0	74 60 62 260 142 22 167	245 260 280 300 315 320 335	0.7 0.7 1.5 2.0 3.0 4.0 5.5	1.5 1.5 2.0 2.0 3.0 4.0 5.5	24 27 34 37 41 41 41				
SUK30	Liquid Cap 40100 and Air Cap 120-6-35-60	1.1 1.3 1.4 1.5 1.6 1.7 1.8	12.3 9.9 7.9 5.0 3.0 2.0 1.4	40 45 50 50 54 54 54	2.0 2.5 2.7 3.0 3.0 3.0 3.0	40 45 50 50 54 54 54	60 71 71 79 83 83 83	2.7 3.2 3.2 3.2 3.4 3.4 3.4	21 22 22 26 34 34 34	69 78 83 93 107 107 107	4.2 4.6 5.0 5.0 5.1 5.1 5.1	19.3 11.3 10.8 12.3 13.4 13.4 13.4	5.6 6.0 6.3 6.3 6.4 6.4 6.4	21 23 24 26 34 34 34	22 26 30 36 40 40 40	130 142 152 162 170 170 170	0.5 1.5 2.0 2.5 3.0 3.5 4.0	0.7 1.5 2.0 2.5 3.0 3.5 4.0	24 25 27 28 30 32 34	33 34 36 37 38 39 40	5.5 6.4 6.6 7.3 7.9 8.2 9.4		
	Liquid Cap 40100 and Air Cap 120-6-35-60	1.1 1.3 1.4 1.5 1.6 1.7 1.8	12.3 9.9 7.9 5.0 3.0 2.0 1.4	40 45 50 50 54 54 54	2.0 2.5 2.7 3.0 3.0 3.0 3.0	40 45 50 50 54 54 54	60 71 71 79 83 83 83	2.7 3.2 3.2 3.2 3.4 3.4 3.4	21 22 22 26 34 34 34	69 78 83 93 107 107 107	4.2 4.6 5.0 5.0 5.1 5.1 5.1	19.3 11.3 10.8 12.3 13.4 13.4 13.4	5.6 6.0 6.3 6.3 6.4 6.4 6.4	21 23 24 25 30 32 34	22 26 30 36 40 40 40	130 142 152 162 170 170 170	0.5 1.5 2.0 2.5 3.0 3.5 4.0	0.7 1.5 2.0 2.5 3.0 3.5 4.0	24 25 27 28 30 32 34	33 34 36 37 38 39 40	5.5 6.4 6.6 7.3 7.9 8.2 9.4		
	Liquid Cap 100150 and Air Cap 189-6-62-70	1.7 1.8 1.9 2.0 2.1 2.2 2.3	25 16.7 16.7 16.7 16.7 16.7 16.7 16.7	156 167 167 167 167 167 167	3.0 3.1 3.1 3.1 3.1 3.1 3.1	39 33 33 33 33 33 33	230 240 240 240 240 240 240	3.4 3.5 3.5 3.5 3.5 3.5 3.5	50 43 43 43 43 43 43	250 260 275 275 275 275 275	4.6 6.2 6.7 6.7 6.7 6.7 6.7	19.3 12.5 10.8 10.8 10.8 10.8 10.8	6.0 6.3 6.7 6.7 6.7 6.7 6.7	6.0 7.7 12.5 12.5 12.5 12.5 12.5	320 320 375 375 375 375 375	6.0 6.3 7.7 7.7 7.7 7.7 7.7	93 125 425 425 425 425 425	395 425 395 395 395 395 395	2.0 1.5 2.5 2.5 2.5 2.5 2.5	0.7 1.5 2.0 2.5 3.0 3.5 4.0	24 25 34 37 38 39 40	33 34 36 37 38 39 40	46 47 54 54 54 54 54
	Liquid Cap 100150 and Air Cap 189-6-62-70	1.7 1.8 1.9 2.0 2.1 2.2 2.3	25 16.7 16.7 16.7 16.7 16.7 16.7 16.7	156 167 167 167 167 167 167	3.0 3.1 3.1 3.1 3.1 3.1 3.1	39 33 33 33 33 33 33	230 240 240 240 240 240 240	3.4 3.5 3.5 3.5 3.5 3.5 3.5	50 43 43 43 43 43 43	250 260 275 275 275 275 275	4.6 6.2 6.7 6.7 6.7 6.7 6.7	19.3 12.5 10.8 10.8 10.8 10.8 10.8	6.0 6.3 6.7 6.7 6.7 6.7 6.7	6.0 7.7 12.5 12.5 12.5 12.5 12.5	320 320 375 375 375 375 375	6.0 6.3 7.7 7.7 7.7 7.7 7.7	93 125 425 425 425 425 425	2.0 1.5 2.5 2.5 2.5 2.5 2.5	0.7 1.5 2.0 2.5 3.0 3.5 4.0	24 25 34 37 38 39 40	33 34 36 37 38 39 40	46 47 54 54 54 54 54	

Typical Moisturization Design

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

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

Remark:
BRASS
SS-stainless steel
316SS-316 stainless steel
 Please contact our sales engineers for detail. Besides, customized order is available.



ordering info

D-1/4-SS+SUC13-SS

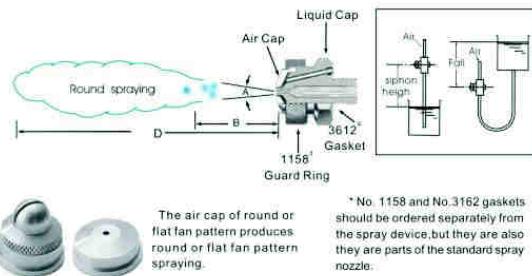
↓ nozzle type ↓ inlet size ↓ material code ↓ the number of spraying device ↓ capacity size

Siphon Gravity-Fed Air Atomizing Nozzle

Design features

For those nozzle of round and flat spray pattern, the spray can maintain the spray angle of A when it is within the distance of B. If beyond the distance of B, the spray would turn to torrent, and jet to the distance of D.

When using siphon or gravity-fed fluid system, it can be supplied to the fluid by siphon or gravity-fed. In these devices, the fluid is absorbed and sent to the gas stream through conveyor where it is atomized in the gas stream.



* No. 1158 and No.3162 gaskets
should be ordered separately from
the spray device, but they are also
they are parts of the standard spray
nozzle.

round spray

spray device model	spray device consists of air cap and fluid cap	atomized air		fluid volum(L/H)									spray dimensions of 20cm siphon height					
		air pressure bar	air volum(L/MIN)	Gravity-head			siphon height						air pressure bar	Spray angle A	B (CM)	D (CM)		
				45 (CM)	30 (CM)	15 (CM)	10 (CM)	20 (CM)	30 (CM)	60 (CM)	90 (CM)							
SU1A	Liquid Cap1650 and Air Cap 64	0.7	11.3	1.5	1.3	1.1	0.87	0.68	0.53	0.76	0.7	18°	28	1.8				
		1.5	17.0	1.8	1.7	1.5	1.3	1.2	1.1	0.62	0.87	1.5	18°	28	1.9			
		3.0	28	2.1	1.9	1.7	1.5	1.4	1.3	1.1	3.0	18°	30	2.3				
SU1	Liquid Cap2050 and Air Cap64	4.0	36	2.2	2.0	1.8	1.6	1.5	1.4	1.2	4.0	18°	36	2.6				
		0.7	13.3	2.4	2.1	1.7	1.5	1.2	0.79	0.7	18°	30	2.1					
		1.5	20	2.8	2.6	2.4	2.1	1.9	1.6	0.91	1.5	18°	33	2.3				
SU2A	Liquid Cap2050 and Air Cap 70	3.0	32	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.2	3.0	18°	38	2.6			
		4.0	41	3.7	3.4	3.3	3.1	2.9	2.7	2.1	2.0	4.0	19°	43	3.0			
		0.7	23	2.5	2.3	2.0	1.6	1.4	1.1			18°	30	2.4				
SU2	Liquid Cap2850 and Air Cap 70	1.5	36	2.9	2.8	2.5	2.2	2.0	1.7	0.89		18°	33	2.7				
		3.0	58	3.4	3.3	3.2	2.9	2.6	2.5	1.9		19°	38	3.4				
		4.0	74	3.7	3.6	3.5	3.4	3.3	3.0	2.5	1.1	1.2	20°	43	4.0			
SU4	Liquid Cap 2850 and Air Cap 70	0.7	19.3	4.5	4.0	3.4	2.1	1.8	1.4		1.5	2.0	21°	38	4.6			
		1.5	31	5.3	4.9	4.4	3.5	2.9	2.7	1.8	1.2	21°	41	3.0				
		3.0	50	6.0	5.6	5.0	4.4	4.0	2.4	2.4	2.0	21°	46	3.4				
SU5	Liquid Cap 60100 and Air Cap 120	4.0	65	5.7	5.4	5.0	4.2	3.9	3.5	2.8	1.2	22°	51	4.6				
		1.5	58	22	19.9	16.3	12.3	10.5	8.3	2.8	1.2	1.9	17°	46	3.7			
		3.0	88	25	23	19.5	16.7	14.2	11.5	6.4	1.9		18°	51	4.3			
SUF4B	Liquid Cap100150 and Air Cap 180	4.0	111	26	24	21	18.4	15.7	12.9	7.9	2.8	2.8	18°	53	4.9			
		5.6	147	26	24	22	19.7	17.0	14.6	9.8	4.5	4.5	19°	58	5.5			
		2.0	144				27	22	16.8		6.1	6.1	20°	51	6.7			
SUF5	Liquid Cap100150 and Air Cap 180	3.0	190				30	26	21				20°	53	7.0			
		4.0	240				43	40	31	28	23	11.0		21°	58	7.6		
		5.6	315	44	42	39	31	28	24	16.7	8.3	8.3	22°	63	8.2			

flat spray

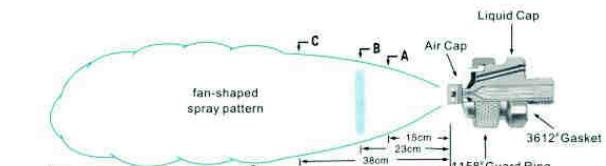
spray device model	spray device consists of air cap and fluid cap	atomized air		fluid volum(L/H)									spray dimensions of 20cm siphon height				
		air pressure bar	air volum(L/MIN)	Gravity-head			siphon height						air pressure bar	A (CM)	B (CM)	C (CM)	D (CM)
				45 (CM)	30 (CM)	15 (CM)	10 (CM)	20 (CM)	30 (CM)	60 (CM)	90 (CM)						
SUF1	Liquid Cap2850 and Air Cap 73420	0.7	28	1.3	1.2	1.1	1.0	0.95	0.83	0.64	0.49	0.7	20	26	38	2.1	
		1.5	43	1.2	1.1	1.0	0.90	0.86	0.78	0.66	0.54	1.5	21	29	38	2.1	
		2.0	50	0.82	0.76	0.68	0.57	0.50				2.0	23	30	38	1.8	
SUF2C	Liquid Cap35100 and Air Cap 120432	1.5	58	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	
SUF3B	Liquid Cap 40100 and Air Cap 122435	4.0	110	1.9	1.8	1.6	1.5	1.3	1.2			4.0	28	39	48	2.7	
		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	
SUF4B	Liquid Cap40100 and Air Cap 122440	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							21°	58	7.6	3.4	
		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	
SUF5	Liquid Cap40100 and Air Cap 122440	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										

D Series Air Atomizing Nozzle

Flat Pressure Air Atomizing(external mix)

Design features

With the external mixing, the air pressure can be changed to control atomizing without changing the liquid flow rate. As the picture shown, size 'A' is the flow width of fan-shaped spraying, 'D' is the total distance from the nozzle body to the maximum dispersing area.



Exterior composite air cap
The exterior composite air cap, used in these spray equipments, produce fan-shaped spraying.

Remark: No.1158 guard ring and No.3612 gasket should be ordered separately from spray device, but they are also parts of the standard spray nozzle

fan-shaped spraying. (exterior composite)

spray device model	spray device consists of air cap and fluid cap	liquid flow (L/min)and flow (L/min)										Size							
		Water pressure (bar)					Air pressure (bar)												
		0.2bar		0.3bar		0.7bar		1.5bar		4bar		Air (bar)	Liquid (bar)	A (cm)	B (cm)	C (cm)	D (cm)		
SUE 15B	Liquid Cap 1650 and Air Cap 67228-45°	0.2	25.2	0.35	26.3	0.7	31.2	1.4	45.3	2.8	73.6	0.2	0.2	9	15	23	0.9		
		0.35	26.3	0.7	31.2	1.05	39.6	1.75	53.8	3.5	85.0	0.05	0.2	9	15	23	1.2		
		0.7	31.2	1.05	39.6	1.4	45.3	2.1	59.4	4.2	102	0.4	0.35	10	15	23	1.2		
		1.05	39.6	1.4	45.3	1.75	53.8	2.8	73.6	5.3	127.5	1.75	0.7	11.5	15	24	1.5		
		1.4	45.3	1.75	53.8	2.1	59.4	3.5	85.0	5.6	139	2.8	1.4	13	18	26	1.8		
		1.75	53.8	2.1	59.4	2.8	73.6	4.2	102	6.3	159	4.9	2.6	15	18	24	2.4		
SUE 18B	Liquid Cap 1650 and Air Cap 67228-45°	0.35	22	0.35	22	0.4	25	0.6	28	0.6	28	0.7	34	0.4	0.3	20	28	33	1.2
		0.4	25	0.4	25	0.6	28	0.7	34	1.1	45	0.6	0.7	23	30	40	1.8		
		0.5	27.5	0.6	28	0.7	34	0.85	40	1.4	54	1.1	45	0.8	1.5	28	35	46	1.8
		0.6	28	0.7	34					1.8	62	2.5	79	1.1	1.5	28	33	43	2.4
										2.5	79			1.2	2.0	28	35	48	2.6
										6.7	164			1.4	3.0	30	38	51	2.7
SUE 15A	Liquid Cap 2050 and Air Cap 67228-45°	0.35	26.3	0.7	31.2	1.05	39.6	1.75	53.8	3.15	82	0.35	0.2	7.5	14	22	1.0		
		0.7	31.2	1.05	39.6	1.4	45.3	2.1	59.4	3.5	85	1.4	0.2	9	15	22	1.7		
		1.05	39.6	1.4	45.3	1.75	53.8	2.8	73.6	4.2	102	1.75	0.35	10	16.5	23	1.8		
		1.4	45.3	1.75	53.8	2.1	59.4	3.5	85.0	5.6	119	2.1	0.7	13	18	25	1.8		
		1.75	53.8	2.1	59.4	2.8	73.6	4.2	102	6.3	159	3.5	1.4	13	22	0	2.4		
		2.1	59.4	2.8	73.6	3.5	85.0	4.2	102	6.3	159	5.3	2.8	15	19	25	3.0		
SUE 18A	Liquid Cap 2050 and Air Cap 62240-60°	0.35	22	0.35	22	0.6	28	0.7	34	0.7	34	1.1	45	0.7	0.2	13	16.5	25	1.2
		0.6	28	0.7	34	0.7	34	1.1	45	1.4	54	1.4	54	1.75	0.2	13	16.5	25	1.8
		0.7	34	1.1	45	1.4	54	2.1	71	2.1	71	2.1	71	2.1	0.35	13	18.0	24	1.8
		1.1	45	1.4	54	2.1	71	2.5	79	2.5	79	2.5	79	2.5	1.4	14	20	32	1.8
										2.5	79			2.8	0.7	14	19	30	2.3
										5.3	159			4.2	1.4	14	20	36	3.0
SUE 15	Liquid Cap 2850 and Air Cap 67228-45°	0.7	31.2	1.05	39.6	1.4	45.3	2.5	68	3.5	85	0.7	0.2	13	16.5	25	1.2		
		1.05	39.6	1.4	45.3	1.75	53.8	2.8	73.6	4.2	102	1.75	0.2	13	16.5	25	1.8		
		1.4	45.3	1.75	53.8	2.1	59.4	3.5	85	4.9	119	2.1	0.35	13	18.0	24	1.8		
		1.75	53.8	2.1	59.4	2.8	73.6	3.5	85.0	4.9	119	2.5	1.4	14	20	32	1.8		
		2.1	59.4	2.8	73.6	3.5	85	4.2	102	5.6	139	2.8	0.7	14	19	30	2.3		
		2.8	73.6	3.5	85	4.2	102	6.3	159	6.3	159	4.2	1.4	14	20	36	3.0		
SUE 18	Liquid Cap 2850 and Air Cap 62240-60°	3.5	85	4.2	102	4.9	119	7.0	176	7.0	176	5.3	2.8	16.5	20	30	4.0		
										7.0	176			6.6	0.3	35	48	61	1.8
										7.0	176			6.6	0.7	35	48	63	1.5
		0.4	25	0.4	25	0.6	28	0.6	28	0.85	40	1.1	45	0.7	1.5	38	48	63	1.8
		0.5	27.5	0.6	28	0.65	31	0.7	34	0.85	40	1.1	45	0.7	1.5	41	51	66	2.1
		0.6	28	0.7	34					1.4	54	2.1	71	1.4	1.5	43	53	66	2.4

Air Atomizing Nozzle Parts

Thick wall



Using thick wall commutator instead of guard ring on spray nozzle discreteness, put it into the screw thread inlet to fix the spray nozzle at a proper position hard. They are available for 1/8" and 1/4" nozzle, who has outer discreteness sized 3/4 inch NPT or BSPT, 1/2" nozzle who has outer discreteness sized 1 1/4 inch NPT or BSPT, and 1" nozzle who has outer discreteness sized 1 1/2 inch NPT or BSPT, including the nozzles that have cut-out and clean-out accessorial settings.

Top inlet



1/8-2 type double sprayer discreteness has two rightabout spray fittings, its air and liquid inlet is vertical to the spray line. The size of discreteness inlet is 1/8 inch NPT or BSPT(female).

Back connect



On the back, the center line of air and liquid inlet comes into the spray nozzle back, and horizontal to the spray line. The size of inlet connection are 1/4 and 1/2 inch NPT or BSPT(female).

D Series Air Atomizing Nozzle

Air Atomizing Nozzle Device

fan-shaped spraying. (extenal mix)

spray device model	spray device consists of air cap and fluid cap	liquid flow (L/min) and flow (L/min)										Size					
		Water pressure (bar)					Water pressure (bar)										
		0.2bar		0.3bar		0.7bar		1.5bar		4bar		Air (bar)	Liquid (bar)	A (cm)	B (cm)	C (cm)	D (cm)
SUE 25B	Liquid Cap 35100 and Air Cap 134255-45°	0.7 85	1.0 102	1.4 116	2.1 156	4.2 178	25	2.5 178	3.2 212	0.7 0.2 13 19 25 1.7	52	1.8 0.2 13 19 25 2.7	2.1 0.35 15 19 28 3.0	2.5 1.4 16.5 23 36 3.7	4.2 1.4 16.5 23 37 4.3	4.9 2.8 16.5 22 32 4.9	
		1.0 102	1.4 116	1.8 139	2.1 156	2.5 178	25	2.8 195	3.5 232	1.8 0.2 13 19 25 2.7		2.1 0.35 15 19 28 3.0	2.5 1.4 16.5 23 36 3.7	4.2 1.4 16.5 23 37 4.3	4.9 2.8 16.5 22 32 4.9		
		1.4 116	1.8 139	2.1 156	2.8 195	2.8 195	25	3.5 227	4.9 314	2.1 0.7 15 22 28 3.5		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		1.8 139	2.1 156	2.8 195	3.5 227	4.2 266	25	4.9 314	5.6 360	2.5 1.4 16.5 23 36 3.7		2.8 1.4 16.5 25 37 4.0	4.2 2.1 16.5 25 37 4.9	4.9 2.8 18 29 36 5.8			
		2.1 156	2.8 195	3.5 227	4.2 266	4.2 266	25	5.6 360	6.3 411	2.1 0.7 15 19 27 3.0		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 64 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		2.8 195	3.5 227	4.2 266	4.2 266	6.3 411	25	6.3 411	7.0 453	2.1 0.7 15 19 27 3.0		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 64 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
SUE 28B	Liquid Cap 35100 and Air Cap 122281-60°	0.6 91	0.7 102	1.4 116	2.1 156	2.8 195	25	2.1 210	3.2 285	1.4 0.3 33 38 48 3.8	52	2.1 0.7 33 40 56 4.3	2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6	
		0.7 102	1.1 130	2.1 156	2.8 195	3.5 227	25	2.8 260	4.2 360	2.1 0.7 33 40 56 4.3		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		1.4 116	1.8 139	2.1 156	2.8 195	3.5 227	25	3.5 310	5.3 430	2.1 0.7 33 38 48 3.8		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		1.8 139	2.1 156	2.8 195	3.5 227	4.2 266	25	4.2 340	6.3 411	2.1 0.7 33 38 48 3.8		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		2.1 156	2.8 195	3.5 227	4.2 266	4.2 266	25	5.3 340	6.6 428	2.1 0.7 33 38 48 3.8		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
		2.8 195	3.5 227	4.2 266	4.2 266	6.3 411	25	6.3 411	7.0 453	2.1 0.7 33 38 48 3.8		2.5 1.5 35 46 58 4.0	3.2 1.5 38 48 66 4.6	4.2 1.5 38 48 64 5.2	4.9 2.0 41 51 69 4.6		
SUE 25A	Liquid Cap 40100 and Air Cap 134255-45°	0.7 85	1.4 116	1.8 139	2.1 156	2.8 195	33	2.8 195	3.5 232	0.7 0.35 15 19 27 3.0	68	1.8 0.7 15 19 27 3.0	2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8	
		1.0 102	1.8 139	2.1 156	2.8 195	3.5 227	33	3.2 212	4.9 314	1.1 0.2 33 38 51 3.5		2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8		
		1.4 116	1.8 139	2.1 156	2.8 195	3.5 227	33	4.2 266	5.6 360	1.1 0.2 33 38 51 3.5		2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8		
		1.8 139	2.1 156	2.8 195	3.5 227	4.2 266	33	5.3 340	6.3 411	1.1 0.2 33 38 51 3.5		2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8		
		2.1 156	2.8 195	3.5 227	4.2 266	4.2 266	33	6.3 411	7.0 453	1.1 0.2 33 38 51 3.5		2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8		
		2.8 195	3.5 227	4.2 266	4.2 266	6.3 411	33	7.0 453	8.7 500	1.1 0.2 33 38 51 3.5		2.5 1.4 15 22 33 3.4	3.2 1.4 15 22 36 3.8	4.2 1.4 15 22 36 3.8	4.9 2.8 18 29 36 5.8		
SUE 28A	Liquid Cap 40100 and Air Cap 122281-60°	0.6 91	0.7 102	1.1 130	1.4 156	1.8 184	22	1.1 130	2.5 235	1.8 0.7 35 48 64 3.0	68	2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
		1.1 130	1.4 156	1.8 184	2.1 210	2.5 235	22	1.8 184	3.2 285	2.1 0.7 35 48 64 3.0		2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
		1.4 156	1.8 184	2.1 210	2.5 235	2.8 260	22	2.5 235	3.9 330	2.1 0.7 35 48 64 3.0		2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
		1.8 184	2.1 210	2.5 235	2.8 260	3.2 285	22	3.9 330	4.6 380	2.1 0.7 35 48 64 3.0		2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
		2.1 210	2.5 235	2.8 260	3.2 285	3.2 285	22	4.6 380	5.3 430	2.1 0.7 35 48 64 3.0		2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
		2.5 235	2.8 260	3.2 285	3.2 285	6.3 411	22	5.3 430	6.0 475	2.1 0.7 35 48 64 3.0		2.5 1.5 38 46 64 3.8	3.2 1.5 33 43 61 4.3	4.2 1.5 30 43 58 4.9	4.9 3.0 33 43 61 4.0	5.6 3.8 33 43 61 4.0	
SUE 28	Liquid Cap 60100 and Air Cap 122281-60°	0.7 102	1.1 130	1.4 156	2.1 210	2.5 235	45	1.1 130	2.5 285	2.8 0.7 46 56 81 4.0	141	2.8 0.7 46 56 81 4.0	3.2 1.5 48 58 79 4.3	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
		1.1 130	1.4 156	2.1 210	2.5 235	2.8 260	45	1.8 184	3.2 285	3.2 1.5 48 56 81 4.0		2.8 0.7 46 56 81 4.0	3.2 1.5 48 56 81 4.0	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
		1.4 156	2.1 210	2.5 235	2.8 260	3.2 285	45	2.1 210	3.5 310	3.2 1.5 48 56 81 4.0		2.8 0.7 46 56 81 4.0	3.2 1.5 48 56 81 4.0	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
		1.8 184	2.1 210	2.5 235	2.8 260	3.2 285	45	3.2 285	4.9 405	3.2 1.5 48 56 81 4.0		2.8 0.7 46 56 81 4.0	3.2 1.5 48 56 81 4.0	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
		2.1 210	2.5 235	2.8 260	3.2 285	3.2 285	45	4.9 405	5.6 455	3.2 1.5 48 56 81 4.0		2.8 0.7 46 56 81 4.0	3.2 1.5 48 56 81 4.0	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
		2.5 235	2.8 260	3.2 285	3.2 285	6.3 411	45	5.6 455	7.0 453	3.2 1.5 48 56 81 4.0		2.8 0.7 46 56 81 4.0	3.2 1.5 48 56 81 4.0	4.6 1.5 43 53 76 4.9	5.6 1.5 38 51 66 5.8	6.3 2.0 48 64 84 4.3	
SUE 25	Liquid Cap 60100 and Air Cap 134255-45°	1.0 102	1.8 139	2.1 156	2.8 195	3.5 227	45	2.5 178	3.2 212	1.0 0.2 15 20 25 2.7	141	1.0 0.2 15 20 25 2.7	2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5
		1.4 116	2.1 156	2.8 195	3.5 227	3.2 212	45	3.2 212	4.9 314	1.0 0.2 15 20 25 2.7		2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5	
		1.8 139	2.1 156	2.8 195	3.5 227	3.2 212	45	3.9 246	5.6 360	1.0 0.2 15 20 25 2.7		2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5	
		2.1 156	2.8 195	3.5 227	3.2 212	4.2 266	45	4.6 297	6.3 600	1.0 0.2 15 20 25 2.7		2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5	
		2.5 178	3.2 212	4.2 266	4.2 266	4.2 266	45	4.9 314	5.6 360	1.0 0.2 15 20 25 2.7		2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5	
		3.2 212	4.2 266	4.2 266	4.2 266	4.2 266	45	5.6 360	7.0 453	1.0 0.2 15 20 25 2.7		2.5 1.4 20 29 3.0	3.2 1.4 20 28 36 3.5	4.6 1.4 20 28 36 3.5	5.6 1.4 20 28 36 3.5	6.3 1.4 20 28 36 3.5	
SUE 45B	Liquid Cap 60150 and Air Cap 200278-45°	2.1 260	2.8 300	3.2 355	4.2 360	4.6 480	45	2.8 300	3.2 355	2.1 0.2 17 24 34 3.5	175	2.1 0.2 17 24 34 3.5	3.2 0.2 18 24 36 4.3	4.9 0.7 17 22 32 4.3	5.6 0.7 17 22 34 4.6	6.3 1.0 17 23 33 4.7	7.0 1.0 17 23 33 4.7
		2.5 300	3.2 355	3.2 355	3.2 355	4.6 480</td											

DJ Automatic Air Atomizing Nozzle

Standard type

1/4 DJ nozzle has air and liquid screw thread with the inlet size of 1/4 inch NPT or BSPT(female), and screw thread gas driver inlet size of 1/8 inch NPT or BSPT (female). This type of nozzle is used with small-flow liquid cap.



Compact types

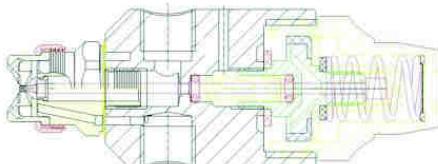
1/8 DJ spray nozzle is a compact, automatic atomizing nozzle, with a pipeline for single gas, it's designed to be used in small area. The size of screw thread air and liquid inlet is 1/8 inch NPT or BSPT(inner).



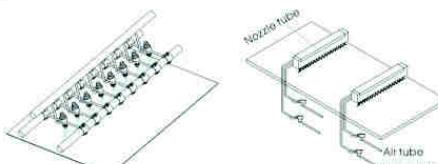
Design features

DJ automatic air atomizing nozzle has an inner gas driver to control 'on-off', and can circulate 180 times per minute. When 'on-off' runs, only the liquid of the sprayer will be shut off. The liquid flow can be carried to the nozzle body by siphon, gravity or pressure.

All the parts of spray nozzle are made accurately at strict quality control standard, to insure running smoothly and long service lifetime. The nozzle can be made of nickel-plating brass or stainless steel. Each nozzle has a stainless steel needle valve, a stainless steel flow cap and a stainless steel spring.



common application



Lubricate

corrugating board humidity

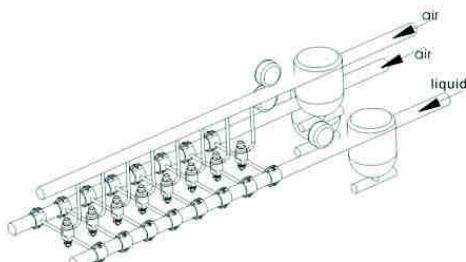
45°

1/8 DJ spray nozzle is a compact, automatic atomizing nozzle, with a single inlet for atomizing gas and driver gas. It keeps 45 degree angle between the inlet line and spray line.



Single gas pipeline type

With a single gas pipeline, 1/4 DJ nozzle can be used in atomizing and driving gas. It controls the pressure to drive the atomizing gas and liquid during 'on-off' period. This type of nozzle requires 2 bar gas pressure at least, and could circulate 180 times per minute.



ordering info

1/8DJ—316SS+SUCB-316SS

Nozz
type

Material code

Nozzle device number
*Referring to D series

Remarks

BRAS

BRASS

33-stainless steel

D Series Air Atomizing Nozzle

DK Automatic Fine Misting Nozzle



The nozzle is used for moistening and coating which requires accurate spraying and coating area.

common application

- Coating
- Moistening
- Viscous liquid spraying
- Circulation system

Design features

Automatic fine atomizing nozzle could independently control liquid atomizing gas pressure and fan gas pressure to adjust flow rate, droplet size, spraying distribution and coverage area accurately. Resulting from the scientific and rational design, the nozzle can spray viscous liquid ideally.

Also, the single gas atomizing pipeline can be adjusted to alter the droplet size without altering the flow rate. With an accessional entrance/exit passage, the viscous liquid circles to keep itself flowing.

Any one of these seven different spray devices is available, the flow rate is between 2.8 L/H and 179 L/H. The flow rate of atomizing gas, fan gas and liquid can be adjusted and readjusted within several seconds. So the nozzle can be adjusted to adapt various of spray application. The 'on-off' of timing controller can run automatically at the rate of 180 cycles per minute. The cylinder works only when the air pressure reaches 2.4 bar at least.

Performance data

spray device model	Liquid flow rate (L/H)		Data numbers
	0.21bar	1.4bar	
SX-CC001A	2. 8	7. 3	924M-001A
SX-CC002C	4. 2	11. 1	924M-002C
SX-CC004	8. 1	21	924M-004
SX-CC004B	13. 6	35	924M-004B
SX-CC005	18. 4	48	924M-005
SX-CC006	38	99	924M-006
SX-CC006D	69	179	924M-006D

Remark: The data of fitting SX-CC006 is a typical example of concerned performance info supplied by each spray fitting in point.

1/8K spray nozzle	air atomizing air pressure (bar) (inch) (psi)	Spray area(cm) under fan air pressure when the distance to the nozzle is designated													
		0bar			0.3bar			0.7bar			1.5bar			3bar	
		0.2	7.6	10.2	12.7	11.4	15.2	20	17.8	25	33	30	41	51	
spray device model: SX-CC006	0.7	0.2	7.6	10.2	12.7	11.4	15.2	20	17.8	25	33	30	41	51	
		0.7										28	38	56	53 66 84
		1.5												43	56 76
	1.5	0.2	7.6	10.2	12.7	7.6	10.2	15.2	12.7	17.8	23	23	30	41	36 46 66
		0.7				7.6	12.7	15.2	12.7	17.8	25	20	30	41	36 48 66
		1.5												33	48 64
	2	0.2	7.6	10.2	12.7	8.9	11.4	16.5	10.2	15.2	20	15.2	20	28	30 36 53
		0.7	6.4	8.9	12.7	7.6	10.2	14.0	10.2	15.2	22	17.8	23	38	30 41 56
		1.5												28	38 53
	3	0.2	7.6	10.2	14.0	7.6	11.4	15.2	8.9	12.7	17.8	15.2	20	28	25 30 43
		0.7	6.4	8.9	12.7	8.9	11.4	15.2	10.2	12.7	17.8	15.2	20	27	28 36 51
		1.5	6.4	8.9	12.7	7.6	10.2	16.5	7.6	12.7	20	15.2	20	28	23 33 43

When the fan air pressure is 0 bar, the spray area is circular.

Ordering info

1/8K—316SS+SX-CC006

↓ Nozzle type	↓ Material code	↓ Spray device model	Remark:
SS-stainless steel	316SS-316 stainless steel		

DE Large flow Air Atomizing Nozzle

DE series large flow air atomizing nozzle adopts multi-atomizing,with its powerful function , is widely used for dust removing and desulfurizing in fire-power plant,dust removing and environment protection in chemical plant and cement plant .



Design features

- The nozzle can be a double liquid spray nozzle,with steam or air as its second liquid
- Third class - atomizing to achieve optimum atomizing capability
- Working with high dependability even under the worst condition
- Reducing the dosage of compressed air with its high efficiency

Spraying performance

- Spray area:Hollow cone-shaped and flat fan-shaped
- Spray angle:20 degree to 90 degree
(Other angles are available according to the requirement)Flow rate:2.0 to 80 L/M

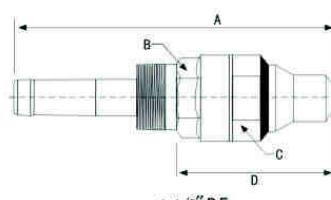
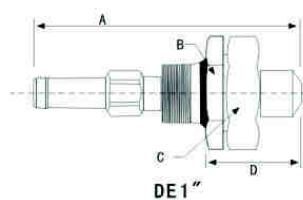


DE spray equipment,spiral tip and size

Tube diameter	spray angle	spray nozzle number	spray angle	spray pattern	maximum droplet size/mm	spary tip number	Dimension mm				Weight (kg)
							A	B	C	D	
1"	14	DE101	20°	narrow round angle	3.30	14	148	50.8	50.8	64	0.64
		DE308	90°		2.69						
		DE310	60°	wide round angle	2.69						
		DE402	90°		4.22						
		DE404	60°	flat round	4.22						
	20	DE103	20°	narrow round angle	6.60	20	148	50.8	50.8	50.8	0.64
		DE307	90°		3.48						
		DE309	60°	wide round angle	3.48						
		DE401	90°		5.21						
		DE403	60°	flat round	5.21						
1 1/2"	28	DE2100	20°	narrow round angle	9.27	28	229	50.8	55.6	113	1.5
		DE2310	90°	wide round angle	4.65						
		DE2303	60°		4.65						

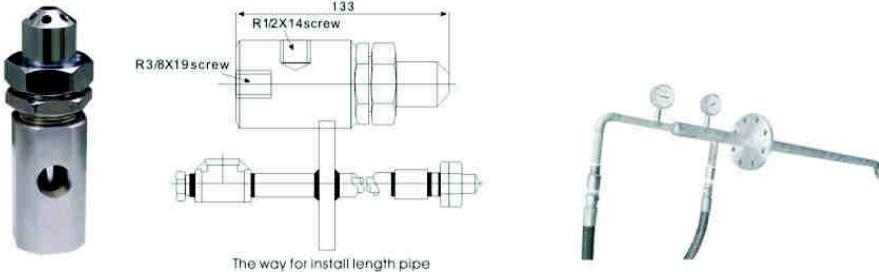
D Series Air Atomizing Nozzle

Standard material:316 stainless steel with cobalt metal wearable jacket



D Series Air Atomizing Nozzle

DE can be installed in all ways, as the picture shows. These applications of the device is just for individual customers. If you need more information, please contact the engineering department of CYCO. We can offer a engineering manual of the DE series.



Since when the pressure of the fluid has a tiny change, the flow rate would have a big variation, CYCO kindly advice that you should control the flow rate with metering pump or other metering equipment which would be better.

BSP NPT	capacity	1.0 bar air pressure			2.0 bar air pressure			3.0 bar air pressure			4.0 bar air pressure			5.0 bar air pressure			6.0 bar air pressure			7.0 bar air pressure				
		Liquid l/min	Liquid bar	Air nm ³ /h																				
1"	14	2	0.9	25.0	2	1.9	45.0	2	2.8	60.2	2	3.7	86.3	2	4.6	105	2	5.7	137	2	6.4	149		
		3	0.9	20.2	3	1.9	39.0	3	2.8	56.8	3	3.8	79.8	3	4.7	97.9	3	5.7	136	3	6.5	146		
		4	1.0	17.3	4	2.0	29.1	4	2.9	50.8	4	3.8	73	4	4.8	88.9	4	5.9	123	4	6.5	134		
				5	2.0	26.8	5	3.0	43.8	5	3.9	64.8	5	4.8	82.6	5	5.9	110	5	6.6	117			
				6	2.1	24.4	6	3.0	41.2	6	3.9	57.9	6	4.9	78.3	6	6.1	100	6	6.7	112			
				7	2.1	21.9	7	3.0	38.5	7	4.0	53.2	7	5.0	69.9	7	6.2	94.9	7	6.8	107			
						8	3.1	35.4	8	4.1	49.9	8	5.0	66.7	8	6.2	88.9	8	6.9	100				
								9	4.1	47.0	9	5.1	64.1	9	6.3	79.8	9	7.0	93.2					
									10	4.2	45.3	10	5.1	60.5	10	6.4	75.2	10	7.1	86.0				
										12	4.4	39.3	12	5.3	53.2	11	6.6	69.6	11	7.2	83.6			
2"	20																		12	6.6	68.4	12	7.3	80.3
		4	0.2	34.9	4	1.5	64.4	4	2.4	91.7	4	3.2	117	4	4.0	140	4	4.8	161	4	5.6	180		
		8	0.8	24.3	8	1.7	45.9	8	2.6	68.1	8	3.5	91.0	8	4.4	114	8	5.2	139	8	6.0	163		
				11	1.9	35.8	11	2.9	56.3	11	3.8	78.0	11	4.6	101	11	5.3	125	11	6.0	151			
				15	2.1	26.8	15	3.0	45.8	15	3.9	65.2	15	4.8	85.2	15	5.6	105	15	6.4	126			
				19	2.2	23.6	19	3.1	39.0	19	4.1	55.9	19	5.0	74.4	19	5.8	94.3	19	6.7	116			
				23	2.4	21.8	23	3.3	36.7	23	4.2	51.6	23	5.1	67.2	23	5.9	82.8	23	6.8	96.7			
						26	3.5	31.8	26	4.4	46.9	26	5.2	61.6	26	6.1	76.1	26	6.9	90.2				
								30	4.5	42.9	30	5.4	55.6	30	6.2	70.4	30	7.1	87.4					
								34	4.7	37.0	34	5.6	50.6	34	6.5	62.7	34	7.3	73.2					
3"	28								38	5.0	32.4	38	5.9	47.2	38	6.7	57.8	38	7.5	64.2				
									40	3.1	76.3	40	4.0	107	40	5.0	142	40	6.0	183	40	7.0	229	
									45	3.2	69.0	45	4.2	97.4	45	5.2	130	45	6.2	167	45	7.3	208	
									50	3.3	61.8	50	4.2	88.4	50	5.2	118	50	6.3	152	50	7.3	189	
									55	3.4	55.5	55	4.3	80.7	55	5.3	109	55	6.3	141	55	7.4	175	
									60	3.5	49.1	60	4.4	73.2	60	5.4	100	60	6.4	130	60	7.5	162	
									65	3.6	43.1	65	4.6	66.3	65	5.6	92.3	65	6.6	121	65	7.6	152	
									70	3.8	37.5	70	4.8	60.2	70	5.8	85.8	70	6.8	114	70	7.9	145	
									75	4.0	32.1	75	5.0	54.6	75	6.1	80.2	75	7.1	109	75	8.2	141	
									80	4.2	27.1	80	5.2	49.8	80	6.2	76.0	80	7.2	106	80	8.2	139	

standard material :316 stainless steel, co alloy 6 weared sheath. Other material please find the stock list as reference.
Please clearly indicate: the pipe diameter, way of connection, nozzle type, spray angle and material.

Hollow Cone, Full Cone Spiral Nozzle

Design features

SPJT Nozzle is hollow/full cone with spraying angle from 60°C to 170°C. Under 3 Bar pressure, the flowing rate of liquid is 5.5-4140 L/min.

It has an expedite flow channel design, which can decrease liquid barrier formax. capacity with certain size. Rotary spray nozzle can be installed or updated in lots of pipe system.

NPT/BSPT (male) Thread are provided. The common 1/4"-2" nozzles are made of brass, SS316, Teflon or PVC. Other selective materials can be used for special application.



Spraying shapes



Full cone



Hollow cone

common application

- Exhaust gas filtration
- Gas cooling
- Washing and rinsing
- Fireproofing and fire extinguishment

Performance data

pipe connection NPT or BSPT (out)	Spray angle (0.7bar)					Capacity Size	orifice size (mm)	Diameter of nozzle without block(mm)	Capacity (L/min)				
	60°	90°	120°	150°	170°				0.7bar	1.5bar	3bar	7bar	25bar**
1/4	●	●	●			07	2.4	2.4	2.6	3.9	5.5	8.4	16
	●	●	●	●	●	13	3.2	3.2	4.9	7.3	10.3	15.7	30
	●	●	●	●	●	20	4.0	3.2	7.6	11.2	15.8	24	46
3/8	●	●	●	●	●	07	2.4	2.4	2.6	3.9	5.5	8.4	16
	●					13	3.2	3.2	4.9	7.3	10.3	15.7	30
	●					20	4.0	3.2	7.6	11.2	15.8	24	46
	●	●	●	●	●	30	4.8	3.2	11.4	16.7	24	36	68
	●	●	●	●	●	40	5.6	3.2	15.1	22	32	48	91
	●	●	●	●	●	53	6.4	3.2	20	30	42	64	121
1/2	●	●	●	●	●	82	7.9	3.2	31	46	65	99	187
	●	●	●	●	●	120	9.5	4.8	45	67	95	145	270
3/4	●	●	●	●	●	164	11.1	4.8	62	92	129	198	370
1	●	●	●	●	●	210	12.7	4.8	80	117	166	255	480
1-1/2	●	●	●	●	●	340	15.9	6.4	130	190	270	410	775
2	●	●	●	●	●	470	19.1	6.4	179	260	370	565	1070
2-1/2	●	●	●	●	●	640	22.2	7.9	245	355	505	770	1460
	●	●	●	●	●	820	25.4	7.9	310	455	645	990	1870
3	●	●	●	●	●	960	28.6	7.9	365	535	755	1160	2190
	●	●	●	●	●	1400	34.9	11.1	535	780	1105	1690	3190
4	●	●	●	●	●	1780	38.1	11.1	680	995	1405	2150	4060
	●	●	●	●	●	2560	44.5	14.3	980	1430	2020	3090	5830
5	●	●	●	●	●	3360	50.8	14.3	1280	1880	2650	4050	7660
6	●	●	●	●	●	5250	63.5	15.9	2000	2930	4140	6330	11960

** Brass or SS316 for higher pressure.

ordering info

1/4 SPJT — SS 120 07

Inlet size Nozzle type Material code Spray angle Capacity size

Remark:

BRASS

SS-stainless steel

316SS-316 stainless steel

TEF-TEFLON Poly Tetra Fluoro Ethylene

PP-Poly propylene

Nozzle Inlet Conn.	Nozzle length (mm)	Spray angle
1/4	53.9	60°, 150° and 170°
1/4	47.6	90° and 120°
3/8	60.3	60°, 150° and 170°
3/8	47.6	90° and 120°
1/2	79.4	60°, 150° and 170°
1/2	63.5	90° and 120°
3/4	87.3	60°, 150° and 170°
3/4	69.9	90° and 120°
1	116	60°, 150° and 170°
1	92.1	90° and 120°
1 1/2	171	60°, 150° and 170°
1 1/2	111	90° and 120°
2	175	60° and 170°
3	302	60°
3	203	90° and 120°
4	229	60°, 90° and 120°

accessories



E series Spiral Nozzle

Design features

The flanging spray nozzle, with a hollow cone spray pattern, fixes on the polyester flange, having a cuspidal stucture which is made of carborundum. It also can be made of an alternative material. The flange connection size of this nozzle have 2", 3" and 4". Under pressure of 0.7 bar, the flow rate can spread from 535l/min to 2000l/min. Spray angle: 2" is 60° to 180°, 3" and 4" is 60° to 120°.

These high flow rate spray nozzles take a great effect in pollution control, cooling and air infalling. Because of the big and fluent flow channel, it is seldom clogged.

It also have a precise blade, which makes the partical well distributed and gets the best coverage area. The flanging spray nozzle can OEM accoding to customers requirement as several kinds of material for are available.

Flanged Silicone Carbide Spray Nozzle

SPJT



common application

- Flue gas desulfurizing
- Dust removing
- Gas cooling

Performance data

Nozzle Inlet Conn.	Spray angle(0, 7bar)				Capacity Size	Rated Orifice Dia. (mm)	Diameter of nozzle without block(mm)	Capacity (L/m)				
	60°	90°	120°	180°				0.7bar	1.5bar	3bar	7bar	25bar
2 inch Flange	●	●	●	●	1400	34.9	11.1	535	780	1105	1690	3190
	●	●	●	●	1780	38.1	11.1	680	995	1405	2150	4060
3 inch Flange	●	●	●	●	2560	44.5	14.3	980	1430	2020	3090	5830
	●	●	●	●	3360	50.8	14.3	1280	1880	2650	4050	7660
4 inch Flange	●	●	●	●	5250	63.5	15.9	2000	2930	4140	6330	11960

ordering info

4 — SPJT — SiC — 90 — 5250
 ↓ ↓ ↓ ↓ ↓
 Flange size Nozzle type Material code Spray angle Capacity size

A AZ Fine Atomized Nozzle

A AZ - W



Strainer built-in,
wide spray angle
1/4 inch NPT
or BSPT (male)

A AZ - N



Strainer built-in,
1/4 inch NPT
or BSPT (female)

A AZ - M



calamaran design
1/4 inch NPT
or BSPT (male)

Design features

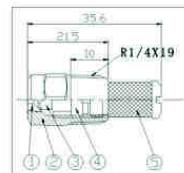
Fine atomizing nozzle utilizes the fluid pressure to produce the extremely fine particle, and the spray pattern is a uniform hollow cone, which can make the spray like fogs.

All the parts are precisely composed. The inlay of orifice, the taper core and the strainer are easy to dismantled for excaming and washing.

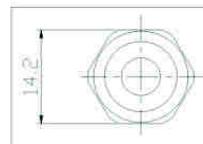
All the above nozzles have strainers.

Common application

- Moistening in air control chamber
- Cooling for gas and metal
- Liquid medicine spraying
- humidity conditioning
- evaporative cooling



1.Orifice 2.Body 3.Cyclone Core 4.Plug 5.strainer mesh



Performance data

A AZ - W	A AZ - N	A AZ - M	Rated Orifice Dia. (mm)	Core Type	Capacity(L/min)								Spray angle				
					2bar	5bar	10bar	15bar	20bar	30bar	40bar	50bar	70bar	3bar	6bar	20bar	
1/4AAZ-W0.60	1/4AAZ-N0.60	1/4AAZ-M0.60	0.41	206			4.3	5.3	6.1	7.5	8.6	9.7	11.4	35°	65°		
1/4AAZ-W1	1/4AAZ-N1	1/4AAZ-M1	0.51	210			5.1	7.2	8.8	10.2	12.5	14.4	16.1	19.1	45°	62°	72°
1/4AAZ-W1.5	1/4AAZ-N1.5	1/4AAZ-M1.5	0.51	216	4.8	7.6	10.8	13.2	15.3	18.7	22	24	29	65°	70°	72°	
1/4AAZ-W2	1/4AAZ-N2	1/4AAZ-M2	0.71	216	6.4	10.2	14.4	17.7	20	25	29	32	38	70°	75°	77°	
1/4AAZ-W3	1/4AAZ-N3	1/4AAZ-M3	0.71	220	9.7	15.3	22	26	31	37	43	48	57	65°	70°	73°	
1/4AAZ-W4	1/4AAZ-N4	1/4AAZ-M4	1.1	220	12.9	20	29	35	41	50	58	64	76	72°	81°	84°	
1/4AAZ-W6	1/4AAZ-N6	1/4AAZ-M6	1.1	225	19.3	31	43	53	61	75	86	97	114	73°	79°	81°	
1/4AAZ-W8	1/4AAZ-N8	1/4AAZ-M8	1.5	225	26	41	58	71	82	100	115	129	153	85°	89°	91°	
1/4AAZ-W10	1/4AAZ-N10	1/4AAZ-M10	1.6	420	32	51	72	88	102	125	144	161	191	82°	84°	86°	
1/4AAZ-W12	1/4AAZ-N12	1/4AAZ-M12	1.9	420	39	61	86	106	122	150	173	193	230	78°	82°	85°	
1/4AAZ-W14	1/4AAZ-N14	1/4AAZ-M14	1.9	421	45	71	101	124	143	175	200	225	265	85°	88°	90°	
1/4AAZ-W18	1/4AAZ-N18	1/4AAZ-M18	1.9	422	58	92	130	159	183	225	260	290	345	81°	84°	86°	
1/4AAZ-W22	1/4AAZ-N22	1/4AAZ-M22	1.9	625	71	112	159	194	225	275	320	355	420	70°	72°	75°	
1/4AAZ-W26	1/4AAZ-N26	1/4AAZ-M26	2.2	625	84	133	187	230	265	325	375	420	495	73°	74°	77°	

ordering info

1/4 — A AZ - W — 206

↓ ↓ ↓
Inlet size Nozzle type Core No.

FD Anti-drop Misting Nozzle

Nozzle body is made of brass, with stainless steel nozzle core and stainless steel flow leading vane(include a leakproof device) inside. Under hydraulic pressure of 70kg to 120kg, it flows with high speed and forms centrifugal volution in flow leading vane. Then it sprays tiny hollow spraying drop of around 50um with Teflon mesh, which can be widely applied in moisturization and man-made mist. It introduced American driller for drill of spray hole, with hole diameter of 0.1mm to 0.15mm. Compared with air moisturization, it cuts cost by ten times.



FD Series

	FD Series
Structure	It is composed of brass body, SS paneling, O-shaped sealing ring and leakproof globe.
Material	Brass or SS303

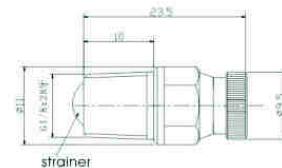
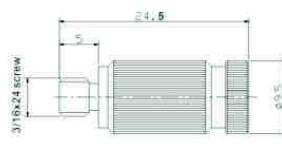
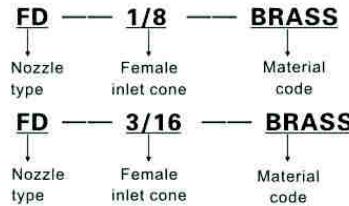
Performance data

Brass nozzle	Orifice	Operation pressure	Spray volume
FD 1	0.15mm		20~46cc/min
FD 2	0.20mm		49~89 cc/min
FD 3	0.30mm		80~145 cc/min
FD 4	0.40mm		95~178 cc/min
FD 5	0.50mm		130~243cc/min

common application

- Wetting & rust removal
- Humidify for space
- Chemical treatment
- Chemical agent spraying
- Liquid coating
- Humidify for tobacco leaf
- Pill coating
- Evaporative cooling for flue gas
- Disinfection & sterilization
- Parts cooling
- Fruit wax injection
- Ceramic tile glazing
- Humidify for factory
- Salt fog test
- Artificial fog
- Humidify for other place

ordering info



FE Plastic Fine Misting Nozzle

Design features

Material: PP

Features: All the parts are precisely manufactured, the spray particles is 20-40micro

Spray angle: 80-90 degrees,

Water output: 1.6-3.4/hr,

Water system pressure: 3-14kg

The coverage area of each spray nozzle is 3-4 square meter.

Cooling capacity: 5-10°C

Advantages: It features a strainer inside which can guarantee no-clogging being blocked and more durable. It also has the function of anti-drip that the nozzle will not drip when the pressure system is closed.



common application

- Cooling and humidifying in the factory and greenhouse
- Industry: Humidifying in textile mill building, cigarette factory building, electronic factory building, paper mill building, printing house building, auto coating plant building, wood/ furniture processing factory building, explosive plant building and so on. Cooling in power plant building and steelworks building. Humidifying and cooling in brewing and food service industry.
- Agriculture: Humidifying and cooling in refrigeratory, greenhouse, livestock production, plant nursery, edible fungi cultivation, fruit-vegetable cultivation, electrostatic prevention, disinfection, haze injury control, dust abatement.
- Landscape spraying: The fog spraying out from the nozzle like a cloud, floating with wind in the air, sometimes visible, and sometimes fading away, very beautiful. Meanwhile, there are a lot of negative ion in the spray particles, which can increase the oxygen content in the air, making a most friendly-environmental place to live.

Spray applications



G Series Adjustable Clamp Nozzle

Adjustable Clamp nozzle



Design features

Adjusting Ball-Type Nozzle have got two types: clamp connection type(26988/27988 series) and thread connection type(155series). The clamp connection type nozzle is positioned on the pipe with spring clamp while the thread connection type nozzle is positioned by the way of thread connection.

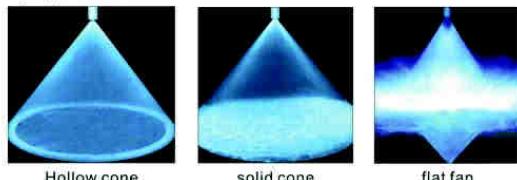
Adjusting Ball-Type Nozzle provides hollow cone spray pattern, solid cone spray pattern and flat fan spray pattern. It meets various needs by directly connecting ball spray tip or by indirectly connecting spray tip with threaded ball or quick dismantling ball. It permits accurate alignment and convenient nozzle positioning without disturbing pipe connection.

Adjusting Ball-Type Nozzle allows for quick and easy tip replacement. Spray tips can be removes without the use of tools, removing the existing spray tip by hand and installing the new tip.

Clamp Nozzle Specification

Type	Clamp Size (inch)	Clamp Outer Dia. (mm)	Pipe Orifice Dia. (Mm)
26988	1	32-35	14
	1-1/4	38-43	16
	1-1/2	44-51	18
	2	54-60	20
27988	1/2	21	
	3/4	27	14
	2	54-60	

Spray Pattern



Threaded Nozzle Specification

Type	Connection Thread Size (inch)
155	1/8
	1/4
	3/8
	1/2

common application

- Metal Cleaning
- Degreasing and phosphatizing in surface treatment
- Other Low Pressure Applications

material characteristics

Parts	Materials
Cap	Fiber-glass-reinforced PP(25%fiber) with maximum temperature of 82°C good performance on chemical resistance
Spray Tip	carbon fiber-glass-reinforced PP(40%fiber) with maximum temperature of 120°C good performance on chemical resistance and abrasion resistance
Base	Spring Clamp/hardened 304 stainless steel
Spring Clamp	butadiene acrylonitrile rubber
Gasket	fluorine rubber

Performance data

Hollow Cone Spray Tip



nozzle type	Capacity liters per minute								Spray angle		
	0.3bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	0.5bar	1.5bar	4bar	
AT15-30.1	6. 2	8. 8	10. 4	12. 6	14. 5	17. 6	20. 2	46°	49°	51°	
AT25-30.1	7. 5	10. 7	12. 7	15. 4	17. 6	21. 4	24. 6	45°	47°	50°	
AT55-50.1	13. 5	19. 0	22. 7	27. 8	32. 0	39. 2	45. 2	38°	46°	48°	
AT55-50.3	13. 5	19. 0	22. 7	27. 6	31. 8	38. 7	44. 4	75°	45°	76°	



Flat Fan Spray Tip

Spray Tip Type (spray angle at 3 bar)						Capacity(L/min)							
15°	25°	40°	50°	65°	80°	0.3bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	
				CT6510	CT8010	1. 2	1. 9	2. 3	2. 8	3. 2	3. 9	4. 6	
			CT4020	CT5020	CT6520	2. 5	3. 8	4. 6	5. 6	6. 5	7. 9	9. 1	
CT2530	CT4030	CT5030	CT6530			3. 7	5. 7	6. 8	8. 4	9. 7	11. 8	13. 7	
	CT4040	CT5040	CT6540	CT8040		5. 0	7. 6	9. 1	11. 2	12. 9	15. 8	18. 2	
CT550	CT4050	CT5050	CT6550			6. 2	9. 5	11. 4	14. 0	16. 1	19. 7	23	
CT2560	CT4060	CT5060	CT6560	CT8060		7. 5	11. 4	13. 7	16. 7	19. 3	24	27	
CT1570	CT1570	CT4070	CT5070	CT6570	CT8070	8. 7	13. 3	16. 0	19. 5	23	28	32	
CT15100	CT15100	CT40100	CT50100	CT65100	CT80100	12. 5	19. 1	23	28	32	39	46	



Full Cone Spray Tip

nozzle type	Capacity(L/min)								Spray angle		
	0.3bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	0. 5bar	1. 5bar	4bar	
BT6	1. 6	2. 3	2. 6	3. 2	3. 7	4. 5	5. 1	69°	74°	68°	
BT12. 5	3. 4	4. 8	5. 4	6. 8	7. 7	9. 3	10. 6	69°	74°	68°	
BT25	6. 7	9. 5	10. 9	13. 5	15. 4	18. 6	21	64°	67°	63°	
BT50	13. 5	19. 1	21. 9	27	31	37	42	91°	94°	88°	



Quick Dismantling Ball Specification

Quick Dismantling Ball Type	Connection Object
B L Q	Quick Dismantling Object



Threaded Ball Specification

Threaded Ball Type	Thread Size inch
BL1	1/8
BL2	1/4
BL3	3/8



Flat Fan Quick Dismantling Spray Tip

Spray Tip Type (spray angle at 3 bar)					Capacity(L/min)								
50°	65°	80°	95°	110°	0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	14bar
QC5001	QC6501	QC8001	QC9501	QC11001	0. 12	0. 23	0. 32	0. 39	0. 46	0. 51	0. 56	0. 60	0. 85
QC5002	QC6502	QC8002	QC9502	QC11002	0. 25	0. 45	0. 64	0. 79	0. 91	1. 0	1. 1	1. 2	1. 7
QC5003	QC6503	QC8003	QC9503	QC11003	0. 37	0. 69	0. 97	1. 2	1. 4	1. 5	1. 7	1. 8	2. 6
QC5004	QC6504	QC8004	QC9504	QC11004	0. 5	0. 92	1. 3	1. 6	1. 8	2. 0	2. 2	2. 4	3. 4
QC5005	QC6505	QC8005	QC9505	QC11005	0. 62	1. 1	1. 6	2. 0	2. 3	2. 5	2. 8	3. 0	4. 3
QC5006	QC6506	QC8006	QC9506	QC11006	0. 75	1. 3	1. 9	2. 4	2. 7	3. 1	3. 3	3. 6	5. 1
QC5008	QC6508	QC8008	QC9508	QC11008	1. 0	1. 8	2. 6	3. 2	3. 6	4. 1	4. 5	4. 8	6. 8
QC5010	QC6510	QC8010	QC9510	QC11010	1. 2	2. 3	3. 2	3. 9	4. 6	5. 1	5. 6	6. 0	8. 5
QC5015	QC6515	QC8015	QC9515	QC11015	1. 9	3. 4	4. 8	5. 9	6. 8	7. 6	8. 4	9. 0	12. 8
QC5020	QC6520	QC8020	QC9520	QC11020	2. 5	4. 6	6. 5	7. 9	9. 1	10. 2	11. 2	12. 1	17. 1
QC5030	QC6530	QC8030	QC9530	QC11030	3. 7	6. 8	9. 7	11. 8	13. 7	15. 3	16. 7	18. 1	26



Full Cone Quick Dismantling Spray Tip

nozzle type	Capacity(L/min)								Spray angle				
	0.5bar	0.7bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	0. 5bar	1. 5bar	6bar
QB1	0. 25	0. 38	0. 54	0. 62	0. 74	0. 85	0. 94	1. 0	1. 1	1. 3	—	58°	53°
QB2	0. 65	0. 76	1. 0	1. 2	1. 5	1. 7	1. 9	2. 0	2. 2	2. 6	43°	50°	46°
QB3	0. 98	1. 1	1. 6	1. 9	2. 2	2. 5	2. 8	3. 1	3. 3	3. 9	52°	65°	59°
QB3. 5	1. 1	1. 3	1. 9	2. 2	2. 6	3. 0	3. 3	3. 6	3. 9	4. 5	43°	50°	46°
QB5	1. 6	1. 9	2. 7	3. 1	3. 7	4. 2	4. 7	5. 1	5. 5	6. 5	52°	65°	59°
QB6. 5	2. 1	2. 5	3. 5	4. 0	4. 8	5. 5	6. 1	6. 7	7. 1	8. 4	45°	50°	46°
QB10	3. 3	3. 8	5. 4	6. 2	7. 4	8. 5	9. 4	10. 2	11. 0	13. 0	58°	67°	61°

ordering info

26988 — 1 — D14 — PP + CT 6530 — PP

Nozzle type
clamp size orifice Dia.
Material code

Spray Tip Type
Material code

155 — 3/8 — PP — BLQ — PP + QC 6505 — PP

Nozzle type
Inlet size
Material code
Quick Dismantling Ball type
Material code

Spray Tip Type
Material code

26988RS Adjustable Global spray Nozzle

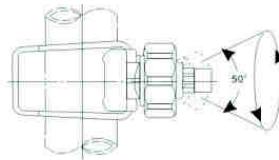
Available spraying modes:hollow cone,full cone and flat fan.Available spray tip:connecting type and whole type.The body can be made of Brass or SS,while the screw thread can be made of PVDF,Brass,SS or Titanium.

The spray tip can be quickly oriented and direct disassembled without other tools.

Available sizes of water pipe for body listed as follows:

26988RS Series

Model	Clamp size (inch)	Outer Dia. of pipe(mm)	Orifice of pipe(mm)
26988RS	1	32-35	14
	1-1/4	38-43	16
	1-1/2	44-51	18
	2	54-60	20



Flat Fan Spray Tip

Spray Tip Type (spray angle at 3 bar)						Capacity (L/min)						
15°	25°	40°	50°	65°	80°	0.3bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar
				CT6510	CT8010	1.2	1.9	2.3	2.8	3.2	3.9	4.6
		CT4020	CT5020	CT6520		2.5	3.8	4.6	5.6	6.5	7.9	9.1
CT2530	CT4030	CT5030	CT6530			3.7	5.7	6.8	8.4	9.7	11.8	13.7
	CT4040	CT5040	CT5040	CT8040	5.0	7.6	9.1	11.2	12.9	15.8	18.2	
CT550	CT4050	CT5050	CT6550			6.2	9.5	11.4	14	16.1	19.7	23
CT2560	CT4060	CT5060	CT6560	CT8060		7.5	11.4	13.7	16.7	19.3	24	27
CT1570	CT1570	CT4070	CT5070	CT6570	CT8070	8.7	13.3	16.0	19.5	23	28	32
CT15100	CT15100	CT40100	CT50100	CT65100	CT80100	12.5	19.1	23	28	32	39	46

Hollow Cone Spray Tip

nozzle type	Capacity (L/min)						Spray angle			
	0.3bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	0.5bar	1.5bar	4bar
AT15-30.1	6.2	8.8	10.4	12.6	14.5	17.6	20.2	46°	49°	51°
AT25-30.1	7.5	10.7	12.7	15.4	17.6	21.4	24.6	45°	47°	50°
AT55-50.1	13.5	19.0	22.7	27.8	32.0	39.2	45.2	38°	46°	48°
AT55-50.3	13.5	19.0	22.7	27.6	31.8	38.7	44.4	75°	75°	76°

Full Cone Spray Tip

nozzle type	Capacity (L/min)							Spray angle		
	0.35bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	0.5bar	1.5bar	4bar
BT6	1.6	2.3	2.6	3.2	3.7	4.5	5.1	69°	74°	68°
BT12.5	3.4	4.8	5.4	6.8	7.7	9.3	10.6	69°	74°	68°
BT25	6.7	9.5	10.9	13.5	15.4	18.6	21	64°	67°	63°
BT50	13.5	19.1	21.9	27	31	37	42	91°	94°	88°

ordering info

26988RS — 1-1/4 — D14 — SS + BI2 — SS + CC1/4 — SS 6505

Nozzle series Clamp size Pipe orifice Dia. Material code Threaded Ball Material code Nozzle type

PVDF nozzle

Design features

High purity

PVDF nozzle is made of PVDF, which is a sort of natural & pure material without pigment. It can keep high clarification in processing and meet the requirements high.

Heat Resistance

Max temperature of PVDF nozzle is 148°C with 7kg press; Suitable for PCB printing course, including development, plating, etching and film removal.

Anticorrosive

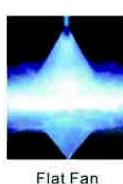
PVDF has good anti corrosion; The PVDF nozzle can be widely used in spraying of chlorid, acid, alkali and amidocyanogen with good antiaging performance.

Performance Data



BB-KY Nozzle

Inlet Joint	Capacity	Capacity (L/min)							Spray angle		
		0.7Bar	1.5Bar	2Bar	3Bar	4Bar	6Bar	7Bar	0.7Bar	1.5Bar	6Bar
1/8	1.3	0. 5	0. 7	0. 8	0. 97	1. 1	1. 3	1. 4	52°	65°	59°
	3	1. 1	1. 6	1. 9	2. 2	2. 5	3. 1	3. 3	52°	65°	59°
	4	1. 5	2. 2	2. 5	3. 0	3. 4	4. 1	4. 4	52°	65°	59°
	6	2. 3	3. 2	3. 7	4. 5	5. 1	6. 1	6. 6	67°	75°	82°
1/4	6	2. 3	3. 2	3. 7	4. 5	5. 1	6. 1	6. 6	67°	75°	82°
	8	3. 0	4. 3	4. 9	6. 0	6. 8	8. 2	8. 8	58°	70°	64°
	6	2. 3	3. 2	3. 7	4. 5	5. 1	6. 1	6. 6	67°	75°	82°
	8	3. 0	4. 3	4. 9	6. 0	6. 8	8. 2	8. 8	58°	70°	64°
3/8	10	3. 8	5. 4	6. 2	7. 4	8. 5	10. 2	11. 0	58°	70°	64°



CC-KY Series

Inlet Joint	Spray Angle					Capacity (L/min)							
	65°	80°	95°	120°	0.3Bar	1Bar	2Bar	3Bar	4Bar	5Bar	6Bar	7Bar	10Bar
1/8	6502	8002	9502	12002	0. 25	0. 46	0. 64	0. 79	0. 91	1. 0	1. 1	1. 2	1. 4
	6503	8003	9503	12003	0. 37	0. 68	0. 97	1. 2	1. 4	1. 5	1. 7	1. 8	2. 2
	6504	8004	9504	12004	0. 50	0. 91	1. 3	1. 6	1. 8	2. 0	2. 2	2. 4	2. 9
	6505	8005	9505	12005	0. 62	1. 1	1. 6	2. 0	2. 3	2. 5	2. 8	3. 0	3. 6
	6506	8006	9506	12006	0. 75	1. 4	1. 9	2. 4	2. 7	3. 1	3. 3	3. 6	4. 3
	6508	8008	9508	12008	1. 0	1. 8	2. 6	3. 2	3. 6	4. 1	4. 5	4. 8	5. 8
1/4	6510	8010	9510	12010	1. 2	2. 3	3. 2	3. 9	4. 6	5. 1	5. 6	6. 0	7. 2
	6515	8015	9515	12015	1. 9	3. 4	4. 8	5. 9	6. 8	7. 6	8. 4	9. 0	10. 8
	6520	8020	9520	12020	2. 5	4. 6	6. 5	7. 9	9. 1	10. 2	11. 2	12. 1	14. 4
	6530	8030	9530	12030	3. 7	6. 8	9. 7	11. 8	13. 7	15. 3	16. 7	18. 1	22

Ordering Information

BB-KY—1/8—4	Nozzle series	Inlet connection	Flow rate code	CC-KY—1/4—6510	Nozzle series	Inlet connection	Flow rate code
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Wide scope and long life

Available sizes of PVDF nozzle: 1/8", 1/4" & 3/8"
 Three available size for common pipes with different spraying capacity and angle to meet various requirements.
 As high hardness material, it is wearable and impact resistant with high-intensity.

Application

- PCB
- Wash & Rinse
- Dust Removing
- Quenching & Cooling
- Gas Filtration
- Oxidization, Froth
- Extinguishment & aeration

J Series Spray Nozzle

J Series Of Plastic Clamp Nozzle



KC-01
1" clamp



KC-02
1/2" lamp



KC-03
3/4" lamp



KC-04
3/4" lamp



JK Series

It is installed in the pipe size of 1/2" 3/4" or 1" with the size of orifice is 3/8". The pressure is 320 bar for accessories.

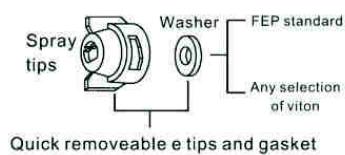


The standard material for gasket is PP while Viton is available. Gaskets fixed in spray caps are installed on spray tips.

The interchangeable spray tips whose operating pressure limit is 20 bar, are made from PP/SS/BRASS.

Grooves are designed in spray caps to fix the lugs. The spray caps are made from nylon.

Part No	Folder tube
JK7421-1/2-NYB	1/2" lamp
JK7421-3/4-NYB	3/4" lamp
JK7421-1-NYB	1" clamp



Quick removable e tips and gasket

Spray tips tips are replaced used		Quick removable e tips	Part No	
Spray tips	Quick removable e tips and gasket		Spray tips	Quick removable e tips and gasket
	Standard model No of flat fan spray tip (on the small side flow) to SJC-CC-08		CP25611-NY	25612-NYR
	Standard model Noflat fan spray tip(comparativelylarge flow) is SJC-CC-10 to SJC-CC-20		CP25609-NY	25610-NYR

Metal clamp connector

Design features

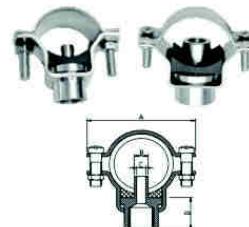
Connector provides quick and economical method for the nozzle and other parts installation at piping. Only to drill a hole of fitting diameter, along the pipeline to slip the connector and screw the bolt tightly, lock up it at proper place. This special design not only avoids the jointing of screw thread, but also reduces the cost. It also can use to install the nozzle in the sustain pipe which without screw thread.

Connector body was made of steel bar , the joint size of exit can be choosing. If it must uninstall the nozzle after the connector installation, then this design prevents the connector running in the clip button.

This connector entrance can embed the pipeline, it avoid deposit enter into it and make the block reduce minimum. DingQing rubber tight fix the cushions that can make most material erode, it provides a well airproof condition.

Performance Data

The model No. are based on the max. size and heaviest weight



Ordering Information				
7521 — B — 1 X 1/4	Connector Model	Material code	Clamp size	Outlet connection NPT or BSPT (Outside)

Folder deduction connectors	Clamp size		Outlet connection NPT or BSPT	Common material			Max. Pressure (bar)	Max. liquid (L/MIN)	Size				Net weight (kg)
	Pipe size (inch)	Outer pipe dia.(mm)		A	B	C			A (mm)	B Pipe orifice dia.	C Body inlet dia.	D (mm)	
7521	1/2	20-22	1/8	1/4			●	●	●	48			0.06
	3/4	25-27	1/8	1/4			●	●	●	54	7.1mm		
	1	32-35	1/8	1/4			●	●	●	57			
8370	1 1/4	39-43	1/4	3/8	1/2	●	●	●	70				0.17
	1 1/2	44-51	1/4	3/8	1/2	●	●	●	81	17.5mm	11.1 or 14.3mm	20	
	2	54-60	1/4	3/8	1/2	●	●	●	88				

A standard for galvanize metal clamp & bolt used in brass connector :B standard for SS :C standard for galvanize metal clamp & bolt used in SS connector

K1 Air Absorption Flat Fan Spray Nozzle

Features

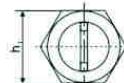
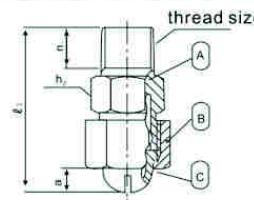
- Air or steam flat fan spraying
 - The shortest continuing distance for the effective spray angle, which is different from liquid
 - Compressed air: cleaning, dust-removing, drying, air curtain
 - Steam: humidifying, temperature-adjusting, humidity-adjusting and so on.
- standard pressure 3 bar

Major application

- Compressed air: cleaning, dust-removing, drying, air curtain
- Steam: humidifying, temperature-adjusting, humidity-adjusting and so on.

K1 Series

	K1 Series
Construction	consists of jet tip, cap and joint parts, only the cap of the nozzle tip can be changed, the joint parts can be changed with the standard flat fan spray nozzle (for liquid)
Material	brass, Ss303 ss316 and others.



A. combined base B. Cap C. spray tip

(Note: It may look a little different because of different model material.)

K Series Spray Nozzle For Special Purpose

Series	thread size	Size (mm)				Weight (gr.)		
		l_1	h_1	h_2	a	n	BRASS	S303
K1	1/4	43	19	17	6.5	10.5	47	44
	3/8	48.5	23	21	9.5	11	78	73

Performance Data

Nozzle type	slot width	Air Capacity liters per minute				Steam flow rate				The coverage of nozzle for distance is 150mm	
		1 Bar	2 Bar	4 Bar	7 Bar	1 Bar	2 Bar	4 Bar	7 Bar	1 Bar	4 Bar
		Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar
L	0.20	21	38	65	102	0.75	1.4	2.3	3.7	275	419
P	0.33	41	60	99	153	1.5	2.1	3.6	5.5	152	254
Q	0.58	77	111	190	305	2.8	4.0	6.8	11.5	228	330
R	1.1	132	198	345	540	4.7	7.1	12.3	19.5	158	241
U	1.1	210	335	570	880	7.6	12.0	20.3	32	275	368
V	2.3	430	700	1150	1725	15.3	25	42	63	238	343

Ordering info

1/4 — k1 — L — SS

↓ ↓ ↓ ↓
Specifications Nozzle Capacity Material
1/4 3/8 series code BRASS
 SS 303

K2 Mixing Fluid Nozzle

material characteristic

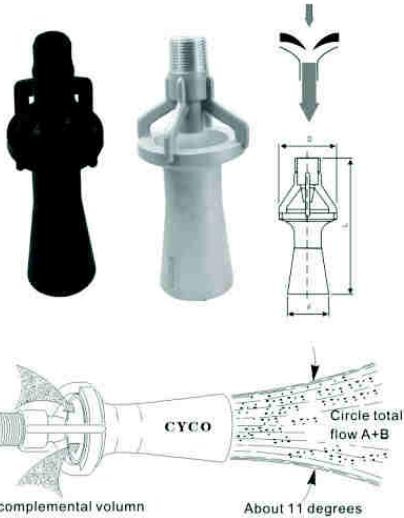
- Constructed of carbon fiber-glass-reinforced Polypropylene or SS316.
- maximum operation temperature 120°C, 300°C for stainless steel.
- Corrosion resistance and aging resistance.

Functions

- provides a homogeneous fluid mix without the use of air agitation precluding oxidative decomposition of air agitation of the solutions.
- improves circulation of the turbulent flow and optimized mixture of the solutions.
- assures uniform mixture of solutions and improve product quality.

Design features

- Designed on the basis of the bernoulli theory, fluid under pressure is pumped into the nozzle through its large flow opening, as the liquid exits the nozzle at high velocity, it draws surrounding solution through the nozzle's "flow-through" chamber that's designed to eliminate internal material build-up. The additional liquid flow mixes with the pumped solution. That is, the nozzle can pull in 4 gallons of surrounding solution for every 1 gallon pumped through the nozzle.



Performance Data

Inlet conn NPT or BSPT(M)	large acreage flow rate	hydraulic pressure input							
		0.5 Bar	1 Bar	1.5 Bar	2 Bar	2.5 Bar	3 Bar	3.5 Bar	
1/4	Inlet flow rate(L/min)	11.3	16.0	19.5	23	25	28	30	32
3/8		29	42	51	59	65	70	77	82
3/4		43	64	74	85	97	106	116	124
1-1/2	"A"	106	151	184	215	243	259	288	308
1/4	complemental volume(L/min)	42	59	72	84	93	102	110	118
3/8		116	168	204	236	260	280	308	328
3/4		172	256	298	340	388	424	464	496
1-1/2	"B"	424	604	736	860	972	1036	1152	1232
1/4	Circle total flow (L/min)	53.3	75	91.5	107	118	130	140	150
3/8		145	210	255	295	325	350	385	410
3/4		215	320	370	425	485	530	580	620
1-1/2	A+B	530	755	920	1075	1215	1295	1440	1540
1/4	Effective range(m)	0.91	1.5	2.1	2.6	3.0	3.7	4.3	5.2
3/8		1.2	1.8	2.4	3.0	3.7	4.3	4.9	6.7
3/4		1.5	2.4	3.4	4.3	5.2	6.1	7.3	10.1
1-1/2		2.3	3.7	4.9	6.1	7.3	8.8	10.4	14.0

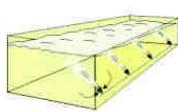
K2 Series

Model	Inlet conn (Inch)	L(mm)	D(mm)	D(mm)
K2 40	1/4	70	30	23
K2 60	3/8	115	50	38
K2 90	1/2	115	50	38
K2 130	3/4	165	65	50

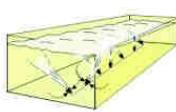
Ordering info

K2 40 — 3/8 — PP
 ↓ Model ↓ Entrance Material size

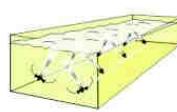
In large solution tank, annular distribution of the mix fluid nozzle is more effective than mono-distribution, and horizontal arrangement is the lowest efficiency. The mixing fluid nozzle should be installed at the bottom of the tank in order to get to a maximum circulation rate. Below are some of the typical distribution of the mixing fluid nozzle.



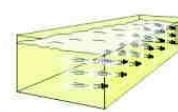
Rectangle or square
stirred tank



Stratification
stirred tank



Spare parts
rinse bath



Grid structured
plating bath

F Wind Jet Nozzle

Design Features

F WindJet Nozzle features a high impact, flat fan distribution of compressed air.

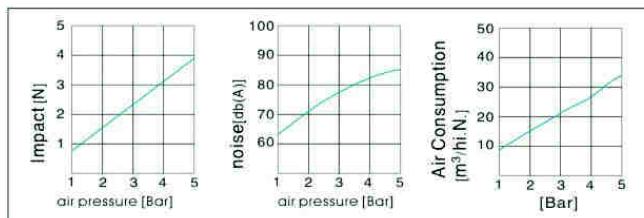
It is available in durable ABS plastic or aluminum alloy. It produces a quiet, efficient, controlled flat fan distribution of compressed air. The air stream is discharged through 16 precision orifices that ensure uniform distribution and spray pattern integrity.

It fits through 1/4 inch inlet connection with BSPT male screw thread. Two convenient mounting holes on the ABS model ensure correct positioning on the header or manifold or fixed applications, offering uniform distribution of air curtain.

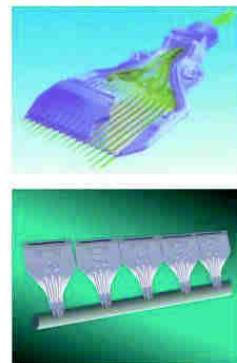
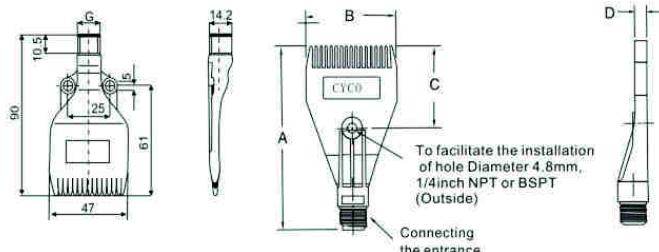
Plastic F WindJet Nozzle withstands temperatures up to 77°C at 7 bar.

While aluminum alloy F WindJet Nozzle withstands temperature of 250°C and pressure about 30 bar.

Performance data



Dimensions



Application

- Parts cooling
- Parts drying
- Parts washing
- Material moving
- Threading

Ordering info

F1/4-ALMA Aluminum alloy material

F1/4-ABS Plastic material

K Series Spray Nozzle For Special Purpose

K4 Tank Wash Nozzle

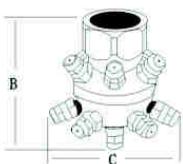
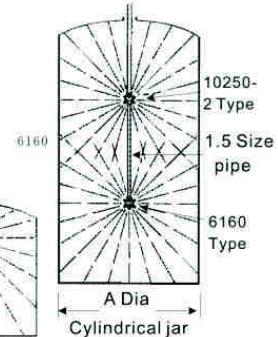
Design features

The 6160 fixed tank washing nozzle assembly features a large flow capacity for cleaning tanks up to 3.1 meters in diameter.

The flow rates can be changed by using the size of 1/4" or 1/8" full cone spray nozzle. The 6160 nozzle can pass through tank mouth of 130mm of large in diameter.

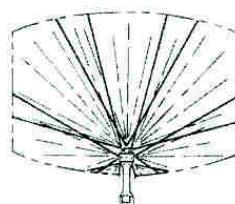
For cleaning large tanks where extra-large flow capacity is used to clean the tank which diameter reaches 6.7 meter. It uses size of 1/2", 3/4" or 1" full cone to change the flow rates.

The 10250-1 nozzle assembly can pass through tank mouth of 230mm in diameter. For deep tanks the 10250-1 version is available with a 1.5 inch bottom outlet connection for use with a pipe extension and a 6160 nozzle assembly.



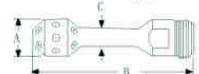
On Application

- Washbox defoaming
- Stock tank cleaning



Dimensions and weight

Based on largest/heaviest version of each type



Performance data

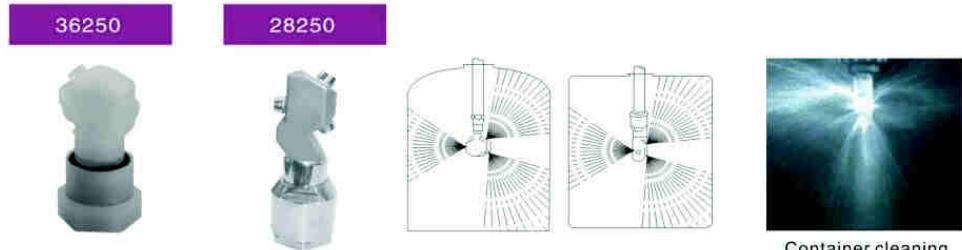
The 9800 washing nozzle is designed for effective cleaning of small containers. The nozzles are available in a choice of 15 or 21 full cone spray tips that can provide complete coverage of the interior surface of the small containers at pressure up to 10 bar.

The 9800 nozzle fits through a standard drum mouth. It can be installed on a self-driven drum washer. The biggest diameter of the spray tip is 35mm with a 16mm reduced neck design. Constructed of SS, this nozzle is an ideal application when max. corrosion resistance is required.

Performance data

Nozzle order number	Capacity (L/min)							
	1Bar	2Bar	3Bar	4Bar	5Bar	6Bar	7Bar	10Bar
9800-15-SS	—	—	—	20	23	25	26	31
9800-21-SS	—	—	—	28	31	34	36	43

Nozzle serial number	9800-
Pipe joints NPT or BSPT(male)	1 Inch
A(mm)	35
B(mm)	156
C(mm)	16
Net Weight(Kg)	0.51



Design features

Feature of 36250/28250
Compact Nozzle:

There are three high-pressure flat fan spray nozzles at the rotary spray head. The spray tip should be precisely oriented, in order to well wash all inner surface.

Therefore, there two models of nozzle can be used to effectively wash inner of small bottle, jar and barrel.

Performance Data

Nozzle Order Number	Capacity (L/min)					
	1Bar	1.5Bar	2Bar	2.5Bar	3Bar	4Bar
36250-STCN16-PP	49	59	68	76	84	94
36250-STCN18-PP	101	121	140	159	179	201
28250-STCN27-316SS	22	27	32	38	43	49
28250-STCN29-316SS	40	48	55	62	70	79

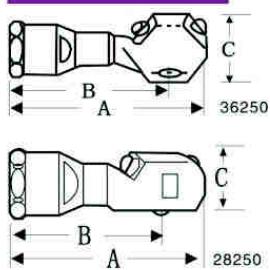
Design features

19250 Compact Nozzle can generate self-rotary drive for side spraying by two flat fan spray tip with 25 mm hole. The top hatch makes a whole global spraying available.

36250 Nozzle body is made of anticorrosive plastic, and bearing spring is made of hard stainless steel for max. wearable life and high pressure washing with max. Pressure of 5 bar.

28250 Impact Nozzle can pass inlet with diameter of 42 mm. The sector spray head with low flux has good effect to wash small container. The spray body is made of 316 stainless steel for max. wearable life and high pressure washing with max. pressure of 7 bar.

Size and weight



K Series Spray Nozzle For Special Purpose

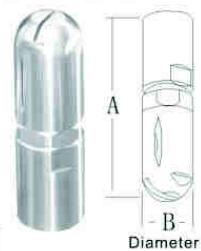
Performance Data

Nozzle Order Number	Capacity (L/min)							
	1.5Bar	3Bar	4Bar	5Bar	6Bar	8Bar	10Bar	12Bar
19250-STCN5-316SS	14.0	19.7	23	25	28	32	36	39
19250-STCN6-316SS	15.9	22	26	29	32	37	41	45
19250-STCN7-316SS	19.5	28	32	36	39	45	50	55
19250-STCN8-316SS	22	32	36	41	45	52	58	63
19250-STCN9-316SS	28	39	46	51	56	64	72	79

Size and weight

Nozzle Number	19250
A(mm)	89
B(mm)	25.4
Net Weight(KG)	0.23

19250



Ordering info

The above three models can be made of brass. For other materials, please mark out.

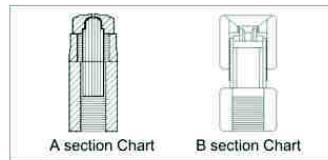
K5 Spray-Dry Nozzle

The nozzle body is mainly made of stainless steel, with harden SS, alloy or gem for accessories. With a swirl leading chest inside, the liquid is changed into centrifugal mist with little spraying drop. It can close contact with hot air, and widely applied in food, ceramic, pharmacy, Chemical, dyeing and metallurgy, etc.



K5 for drying spraying Nozzle

K5 Series									
Structure	SS 303 for nozzle body, and selective materials for cover, taper or spray hole.								
Material	SS303, SS316, Harden SS, Alloy or Gem								
A Spec	Inlet joint female/male screw thread			Size					
	1/4Inch	3/8Inch		AHexagon(mm)	B length	Net Weight			
				25.4	41.5or47.6	0.142/0.1156			



Performance Data

Inlet conn NPT or BSPT(M)	Capacity	Rating Spray Hole Dia. (mm)	Capacity (L/min)															
			3Bar	4Bar	5.5Bar	7Bar	10Bar	15Bar	20Bar	35Bar	50Bar	70Bar	100Bar	135Bar	170Bar	210Bar	275Bar	340Bar
1/4	1	1.4	0.67	0.77	0.91	1.0	1.2	1.5	1.7	2.3	2.7	3.2	3.9	4.5	5.1	5.6	6.4	7.1
3/8			68°	72°	73°	74°	75°	76°	71°	67°	62°	57°	55°	53°	51°	50°	48°	46°
1/4	1.5	1.8	1.1	1.2	1.4	1.6	1.9	2.4	2.8	3.6	4.4	5.1	6.2	7.2	8.0	8.9	10.2	11.4
3/8			78°	82°	83°	84°	80°	77°	75°	72°	65°	59°	57°	55°	53°	51°	49°	47°
1/4	2	2.0	1.3	1.5	1.8	2.1	2.5	3.0	3.5	4.6	5.5	6.5	7.8	9.0	10.1	11.2	12.9	14.3
3/8			77°	81°	81°	81°	80°	79°	73	68°	62°	57°	55°	53°	51°	50°	48°	46°
1/4	3	2.4	2.1	2.4	2.8	3.1	3.7	4.6	5.3	7.0	8.4	9.9	11.9	13.8	15.5	17.2	20	22
3/8			78°	79°	79°	78°	77°	76°	67°	59°	53°	48°	46°	44°	41°	39°	37°	35°
1/4	4	2.8	2.6	3.0	3.5	4.0	4.8	5.8	6.7	8.9	10.6	12.6	15.0	17.5	19.6	22	25	28
3/8			76°	76°	77°	78°	77°	76°	67°	59°	53°	48°	46°	44°	41°	38°	35°	33°
1/4	5	3.3	3.4	3.9	4.5	5.1	6.1	7.5	8.7	11.5	13.7	16.2	19.4	23	25	28	32	36
3/8			91°	91°	88°	86°	82°	79°	71°	63°	56°	50°	46°	45°	43°	40°	37°	34°
1/4	6	3.5	4.0	4.6	5.4	6.1	7.3	8.9	10.3	13.6	16.3	19.3	23	27	30	33	38	42
3/8			89°	89°	86°	83°	80°	78°	69°	61°	56°	52°	48°	46°	43°	42°	40°	38°
1/4	7	3.6	4.3	5.0	5.8	6.6	7.9	9.6	11.1	14.7	17.6	21	25	29	32	36	41	46
3/8			91°	88°	85°	83°	80°	78°	69°	60°	59°	58°	55°	53°	51°	48°	45°	42°
1/4	8	4.0	5.4	6.2	7.3	8.2	9.8	12.0	13.9	18.3	22	26	31	36	40	45	51	57
3/8			92°	89°	86°	83°	78°	74°	65°	57°	54°	52°	51°	50°	48°	46°	44°	42°
1/4	10	4.5	7.1	8.3	9.7	10.9	13.0	16.0	18.4	24	29	35	41	48	54	60	68	76
3/8			94°	87°	85°	83°	79°	75°	67°	59°	57°	55°	48°	46°	44°	42°	40°	38°
1/4	15	5.4	11.6	13.4	15.7	17.7	21	26	30	40	47	56	67	78	87	97	111	123
3/8			86°	82°	80°	78°	73	68°	60°	52°	51°	50°	46°	44°	43°	40°	36°	32°
1/4	20	6.4	17.8	21	24	27	32	40	46	61	73	86	103	119	134	149	170	189
3/8			80°	80°	80°	80°	72°	64°	55°	47°	46°	45°	42°	39°	37°	35°	30°	32°

Ordering info

K5 — 1/4(Inside) — 1.5 — SS

Nozzle Model 1/4 Interior Screw Thread Capacity Material

High pressure ceramic solid stream nozzle & Deckle edge trimming solid stream nozzle

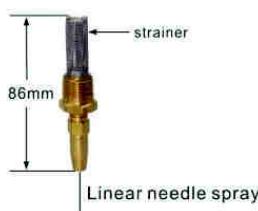


This kind of nozzle is used for the trimming of the paper that supply a precise, clean cut. It can produce a straight needle solid stream. It can work at high pressure of 140bar. This nozzle orifice material we have the SS316 and ceramic.

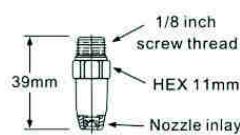
Performance Data

nozzle type	Serial number	orifice dia. (mm)	Capacity (L/min)									
			7Bar	10Bar	20Bar	30Bar	40Bar	50Bar	60Bar	70Bar	100Bar	138Bar
The only aperture ruby	15	0.38	0.17	0.21	0.29	0.36	0.41	0.46	0.50	0.54	0.65	0.76
CY38170/CY38171	20	0.51	0.31	0.36	0.52	0.63	0.73	0.82	0.89	0.96	1.2	1.4
CY38170/CY38171	25	0.64	0.48	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.1
CY38170/CY38171	30	0.76	0.69	0.82	1.2	1.4	1.6	1.8	2.0	2.2	2.6	3.1
CY38170/CY38171	35	0.89	0.93	1.1	1.6	1.9	2.2	2.5	2.7	3.0	3.5	4.2
CY38170/CY38171	40	1.0	1.2	1.5	2.1	2.5	2.9	3.3	3.6	3.9	4.6	5.4
CY38170/CY38171	45	1.1	1.5	1.9	2.6	3.2	3.7	4.1	4.5	4.9	5.8	6.9
CY38170/CY38171	50	1.3	1.9	2.3	3.2	4.0	4.6	5.1	5.6	6.0	7.2	8.5
CY38170/CY38171	60	1.5	2.8	3.3	4.6	5.7	6.6	7.3	8.0	8.7	10.4	12.2

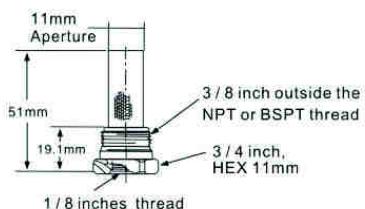
Dimension



CY 28170 model header with strainer



CY 38171 Type
Needle without water strainer



CY 38172 Type
Adapter / strainer combination

Note Material

CY 38170 brass nozzles for the main materials, filter materials for stainless steel, ceramic nozzle for the inlay.

Ordering info

Order package

CY38170 — 20 — CER
Model Serial Ceramic
number number inlay

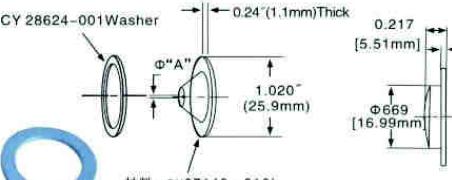
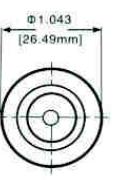
Only ordered water needle

CY38171 — 20 — CER
Model Serial Ceramic
number number inlay

Only order strainer

CY38172 — 20
Model Serial
number number

L Series Paper and pulp Nozzle

CY 27149 Type	CY64160Type	CY50709 Type	CY48546/CY39350 Type	Application
				<ul style="list-style-type: none"> High pressure cleaning of long net part High pressure cleaning of squeezing part Cleaning of blind hole roller Cleaning of groove roller
nozzle without gasket type	nozzle with gasket type	Nozzle without gasket type	nozzle with gasket type	
				
CY 28624-001Washer Φ"A": 1.020" (25.9mm) Thickness: 0.24" (1.1mm)		0.217 [5.51mm] Φ669 [16.99mm] 0.059 [1.50mm]	Φ1.043 [26.49mm]	CY27149/CY39350/CY48546 Type Common SS SS with ceramic SS with ruby 50709Type SS with ruby
材料: CY27149-316L CY39350-316SS CY48546-316SS				

CY27149 Performace Data

Nozzle size	Orifice diameter (mm)	Capacity(L/min)					Spray angle 4bar
		1.5Bar	3Bar	7Bar	20Bar	55Bar	
CY27149-00004	0. 3	0. 11	0. 16	0. 24	0. 41	0. 68	0°
CY27149-00007	0. 4	0. 20	0. 28	0. 42	0. 71	1. 2	
CY27149-00009	0. 5	0. 25	0. 36	0. 54	0. 92	1. 5	
CY27149-0001	0. 6	0. 36	0. 51	0. 78	1. 3	2. 2	
CY27149-0002	1. 0	0. 64	0. 91	1. 4	2. 3	3. 9	
CY27149-0003	1. 2	0. 92	1. 3	2. 0	3. 4	5. 6	
CY27149-0004	1. 5	1. 2	1. 7	2. 6	4. 4	7. 3	
CY27149-0008	1. 9	2. 2	3. 1	4. 8	8. 1	13. 4	
CY27149-0012	2. 4	3. 5	4. 9	7. 5	12. 6	21	
CY27149-0020	3. 2	5. 5	7. 8	11. 9	20	33	

CY39350 Performace Data

Nozzle size	Orifice diameter (mm)	Capacity (L/min)					Spray angle 4bar
		1.5Bar	3Bar	7Bar	20Bar	55Bar	
CY39350-00005	0. 5	0. 14	0. 20	0. 31	0. 52	0. 86	0°
CY39350-00008	0. 64	0. 22	0. 31	0. 45	0. 81	1. 34	
CY39350-0001	0. 76	0. 32	0. 45	0. 69	1. 16	1. 93	
CY39350-00015	0. 9	0. 43	0. 61	0. 94	1. 58	2. 62	
CY39350-0002	1. 0	0. 56	0. 80	1. 22	2. 06	3. 42	
CY39350-00025	1. 1	0. 72	1. 01	1. 54	2. 61	4. 33	
CY39350-0003	1. 3	0. 88	1. 25	1. 91	3. 22	5. 34	
CY39350-00045	1. 5	1. 27	1. 80	2. 75	4. 64	7. 7	

CY48546 Performace Data

Nozzle Model	Inch
CY48546-00003-316RBY	0. 015" [0. 38mm]
CY48546-00005-316RBY	0. 020" [0. 51mm]
CY48546-00008-316RBY	0. 025" [0. 64mm]
CY48546-00011-316RBY	0. 030" [0. 76mm]
CY48546-00015-316RBY	0. 035" [0. 89mm]
CY48546-00020-316RBY	0. 040" [1. 02mm]
CY48546-00025-316RBY	0. 045" [1. 14mm]

CY50709 Performace Data

Nozzle Model	Inch
CY50709-00003-316RBY	0. 015" [0. 38mm]
CY50709-00005-316RBY	0. 020" [0. 51mm]
CY50709-00008-316RBY	0. 025" [0. 64mm]
CY50709-00011-316RBY	0. 030" [0. 76mm]
CY50709-00015-316RBY	0. 035" [0. 89mm]
CY50709-00020-316RBY	0. 040" [1. 02mm]
CY50709-00025-316RBY	0. 045" [1. 14mm]

Ordering info

When ordering ordinary stainless steel nozzles

CY27149—0002—316L

Model Series Material

When ordering ceramic inlay nozzle

CY39350—0002—316SS

Model Series Material

When ordering Ruby inlay nozzle

CY48546—00020—316RBY

Model Size 316SS+Ruby inlay

When asked order pads with the nozzle size one, please indicate special.

CY50709—00020—316RBY

Model Size 316SS+Ruby inlay

Pagoda High Pressure Needle Nozzle

一、 Basic Style

CY19124/CYB1/4PT



Common stainless steel

CYB1/4 PTL



Common stainless steel for lengthen type

CYB1/4PT-SSCER



Standard SS with ceramic

CYB1/4PTL-SSCER



Common SS with ceramic for lengthen type

CY48460/CYB1/4PT-SSRBY



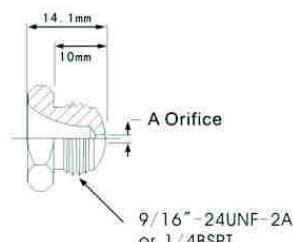
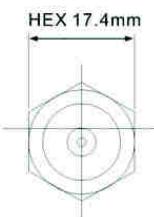
Standard SS with ruby

CYB1/4PTL-SSRBY



Common SS with ruby for lengthen type

二、 Basic size



Application

- High pressure swing cleaning of long net part
- High pressure swing cleaning of squeezing part
- Cleaning of blind hole roller
- Cleaning of groove roller

Performance Data

Nozzle size	Equivalent diameter nozzle	Capacity liters per minute								
		3Bar	4Bar	5Bar	7Bar	15Bar	30Bar	40Bar	50Bar	60Bar
CY19124-14-316SS	0.36	0.12	0.13	0.15	0.17	0.25	0.37	0.42	0.47	0.51
CY19124-28-316SS	0.71	0.42	0.48	0.54	0.63	0.93	1.3	1.5	1.7	1.9
CY19124-33-316SS	0.84	0.62	0.73	0.81	0.95	1.4	2.0	2.4	2.7	2.9
CY19124-40-316SS	1.02	0.89	1.0	1.1	1.4	2.0	2.8	3.2	3.6	3.9
CY19124-55-316SS	1.40	1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0
CY19124-70-316SS	1.78	2.7	3.1	3.5	4.2	6.1	8.8	10	11	13
CY19124-94-316SS	2.39	4.5	5.2	5.9	7.0	10	15	18	20	22
CY19124-125-316SS	3.18	7.3	8.5	9.6	11	17	25	30	33	37

L Series Paper and pulp Nozzle

PT Performance Data <BSPT1/4 Thread>

Nozzle Model		Orifice diameter (mm)	Capacity(L/min)											
Standard	lengthen		3Bar	5Bar	7Bar	10Bar	15Bar	20Bar	30Bar	40Bar	50Bar	60Bar	70Bar	80Bar
CYB1/4PT-SS	CYB1/4PTL-SS	0.8	0.54	0.70	0.83	1.00	1.22	1.41	1.73	2.00	2.23	2.45	2.64	2.83
		0.9	0.69	0.89	1.05	1.26	1.55	1.79	2.19	2.53	2.83	3.10	3.35	3.58
		1.0	0.85	1.10	1.30	1.56	1.91	2.21	2.70	3.12	3.49	3.83	4.13	4.42
CYB1/4PT-SSCER	CYB1/4PTL-SSCER	1.2	1.23	1.59	1.88	2.25	2.75	3.18	3.90	4.50	5.03	5.51	5.95	6.36
		1.5	1.92	2.48	2.94	3.51	4.30	4.97	6.09	7.03	7.86	8.61	9.30	9.95
		1.8	2.77	3.58	4.23	5.06	6.20	7.16	8.77	10.1	11.3	12.4	13.4	14.3
CYB1/4PT-RBY	CYB1/4PTL-RBY	2.0	3.42	4.42	5.23	6.25	7.66	8.84	10.8	12.5	13.9	15.3	16.4	17.6

CY 48460 Ruby Inlay

Nozzle Model	Inch	Nozzle Model	Inch
CY48460-15-316RBY	0.015" [0.38mm]	CY48460-35-316RBY	0.035" [0.89mm]
CY48460-20-316RBY	0.020" [0.51mm]	CY48460-40-316RBY	0.040" [1.02mm]
CY48460-25-316RBY	0.025" [0.64mm]	CY48460-40-316RBY	0.045" [1.14mm]
CY48460-30-316RBY	0.030" [0.76mm]		

Ordering info

一、Stainless Steel Series

1、CYM19124—40—316SS(M14x1.0 thread connection)

Model Aperture Material
Series

2、CYB19124—40—316SS (BSPT 1/4 Thread Interface)

Model Aperture Material
Series

3、CY19124—40—316SS(9/16-24UNF-2A thread connection)

Model Aperture Material
Series

4、CYB1/4PT—SS1.0 (BSPT 1/4 Thread Interface)

Standard Aperture
Series

二、Ceramic inlay Series

6、CYB1/4PT—SSCER—1.0(BSPT1/4 Thread Interface)

Standard Ceramic Aperture
inlay stainless steel

5、CYB1/4PTL—SS1.0 (BSPT 1/4 Thread Interface)

lengthen Ceramic Aperture
inlay stainless steel

三、Ruby Series

8、CYB1/4PT—SSRBY—1.0(BSPT1/4 Thread Interface)

Standard Ruby the Aperture
main stainless steel inlay

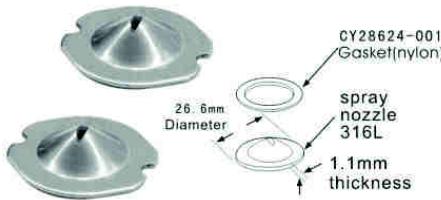
9、CYB1/4PTL—SSRBY—1.0 (BSPT 1/4 Thread Interface)

lengthen Ruby the Aperture
main stainless steel inlay

10、CY48460—20—316RBY(9/16-24UNF-2A Thread Interface)

Model Aperture 316 stainless
Series steel main
Ruby inlay

CCTC Series disc flat fan nozzle



CCTC nozzle is specially designed for brush type showers. Spray angle of 0°, 30°, 60° and 75° are available. It needs to use the CCTC28624-001 gasket when install the nozzle.

Ordering info

CCTC — CY6008 — 316L
Model Spray angle Material
 and Capacity
 code

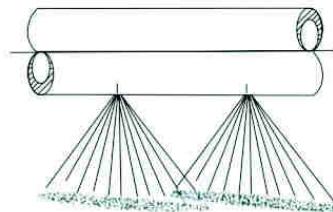
Performance Data

Nozzle size	Orifice diameter (mm)	Capacity(L/min)					Spray angle 4bar
		1.5Bar	3Bar	7Bar	20Bar	55Bar	
CCTC-0002	1.0	0.64	0.91	1.4	2.3	3.9	
CCTC-0003	1.2	0.92	1.3	2.0	3.4	5.6	
CCTC-0004	1.5	1.2	1.7	2.6	4.4	7.3	
CCTC-0006	1.8	1.7	2.4	3.7	6.2	10.3	0°
CCTC-0008	2.0	2.2	3.1	4.8	8.1	13.4	
CCTC-0010	2.2	2.8	4.0	6.2	10.4	17.2	
CCTC-3012	2.5	3.5	4.9	7.5	12.6	21	
CCTC-3016	2.8	4.5	6.3	9.7	16.4	27	30°
CCTC-3020	3.0	5.5	7.8	11.9	20	33	
CCTC-3025	3.5	7.2	10.1	15.5	26	43	
CCTC-3031	4.0	8.8	12.4	18.9	32	53	
CCTC-3040	4.5	11.3	15.9	24	41	68	30°
CCTC-3049	5.0	13.7	19.4	30	50	83	
CCTC-3078	6.0	22	31	48	81	135	
CCTC-3099	7.0	29	39	60	101	167	
CCTC-30124	8.0	35	49	75	126	210	30°
CCTC-6002	1.0	0.64	0.91	1.4	2.3	3.9	
CCTC-6003	1.2	0.92	1.3	2.0	3.4	5.6	
CCTC-6004	1.5	1.2	1.7	2.6	4.4	7.3	
CCTC-6006	1.8	1.7	2.4	3.7	6.2	10.3	
CCTC-6008	2.0	2.2	3.1	4.8	8.1	13.4	60°
CCTC-6010	2.2	2.8	4.0	6.2	10.4	17.2	
CCTC-6012	2.5	3.5	4.9	7.5	12.6	21	
CCTC-6016	2.8	4.5	6.3	9.7	16.4	27	
CCTC-6020	3.0	5.5	7.8	11.9	20	33	
CCTC-6025	3.5	7.2	10.1	15.5	26	43	60°
CCTC-6031	4.0	8.8	12.4	18.9	32	53	
CCTC-3040	4.5	11.3	15.9	24	41	68	
CCTC-6049	5.0	13.7	19.4	30	50	83	
CCTC-6078	6.0	22	31	47	80	133	60°
CCTC-6099	7.0	28	39	60	101	167	
CCTC-60124	8.0	35	49	75	126	210	
CCTC-7502	1.0	0.64	0.91	1.4	2.3	3.9	
CCTC-7503	1.2	0.92	1.3	2.0	3.4	5.6	75°
CCTC-7504	1.5	1.2	1.7	2.6	4.4	7.3	
CCTC-7506	1.8	1.7	2.4	3.7	6.2	10.3	
CCTC-7508	2.0	2.2	3.1	4.8	8.1	13.4	
CCTC-7510	2.2	2.8	4.0	6.2	10.4	17.2	75°
CCTC-7512	2.5	3.5	4.9	7.5	12.6	21	
CCTC-7516	2.8	4.5	6.3	9.7	16.4	27	
CCTC-7520	3.0	5.5	7.8	11.9	20	33	
CCTC-7525	3.5	7.2	10.1	15.5	26	43	75°
CCTC-7531	4.0	8.8	12.4	18.9	32	53	
CCTC-7541	4.5	11.3	15.9	24	41	68	
CCTC-7549	5.0	13.7	19.4	30	50	83	
CCTC-7578	6.0	22	31	48	81	133	75°
CCTC-7599	7.0	28	39	60	101	167	
CCTC-75124	8.0	35	49	75	126	210	

L Series Paper and pulp Nozzle

Low Pressure Flat Fan Spray Nozzle

CTC Fan Spray Nozzle



Product Description

When the distance between the spray poles and the nets or the blanket is small, this nozzle is your best choice. It is made of SS303 or SS316 which is durable and incorrodible.

一、CTC Performance Data

Model of Nozzle	Equivalent aperture (mm)	Material		Capacity(L/min)								Spray angle under pressure of 3kg
		*SS	316SS	1Bar	2Bar	3Bar	4Bar	5Bar	6Bar	7Bar	10Bar	
CTC-2510		-		2. 3	3. 2	3. 9	4. 6	5. 1	5. 6	6. 0	7. 2	25°
CTC-3580	6. 4	-		18. 2	26	32	36	41	45	48	58	35°
CTC-4040		-		9. 1	12. 9	15. 8	18. 2	20	22	24	29	
CTC-4047	4. 7	-		10. 7	15. 1	18. 6	21	24	26	28	34	40°
CTC-4067		-		15. 3	22	26	31	34	37	40	48	
CTC-4070	5. 5	-		16. 0	23	28	32	36	39	42	50	
CTC-4085	6. 4	-	-	19. 4	27	34	39	43	47	51	61	43°
CTC-4308	1. 9	-		1. 8	2. 8	3. 2	3. 6	4. 1	4. 5	4. 8	5. 8	
CTC-4313	2. 4	-	-	3. 0	4. 2	5. 1	5. 9	6. 6	7. 3	7. 8	9. 4	
CTC-50033	1. 2	-		0. 75	1. 1	1. 3	1. 5	1. 7	1. 8	2. 0	2. 4	50°
CTC-5024	3. 2	-		5. 5	7. 7	9. 5	10. 9	12. 2	13. 4	14. 5	17. 3	
CTC-5033	4. 0	-		7. 5	10. 6	13. 0	15. 0	16. 8	18. 4	19. 9	24	
CTC-5037		-		8. 4	11. 9	14. 6	16. 9	18. 9	21	22	27	55°
CTC-55054	1. 6	-		1. 2	1. 7	2. 1	2. 5	2. 8	3. 0	3. 3	3. 9	
CTC-5508	1. 9	-		1. 8	2. 6	3. 2	3. 6	4. 1	4. 5	4. 8	5. 8	58°
CTC-5824	3. 2	-	-	5. 5	7. 7	9. 5	10. 9	12. 2	13. 4	14. 5	17. 3	
CTC-5833	4. 0	-	-	7. 5	10. 6	13. 0	15. 0	16. 8	18. 4	19. 9	24	60°
CTC-60054	1. 6	-		1. 2	1. 7	2. 1	2. 5	2. 8	3. 0	3. 3	3. 9	
CTC-65054	1. 6	-		1. 2	1. 7	2. 1	2. 5	2. 8	3. 0	3. 3	3. 9	
CTC-6513	2. 4	-	-	3. 0	4. 2	5. 1	5. 9	6. 6	7. 3	7. 8	9. 4	65°
CTC-6519	2. 8	-	-	4. 3	6. 1	7. 5	8. 7	9. 7	10. 6	11. 5	13. 7	
CTC-6533	4. 0	-		7. 5	10. 6	13. 0	15. 0	16. 8	18. 4	19. 9	24	
CTC-6550	4. 7	-		11. 4	16. 1	19. 7	23	25	28	30	36	
CTC-6570	5. 5	-		16. 0	23	28	32	36	39	42	50	
CTC-6824	3. 2	-		5. 5	7. 7	9. 5	10. 9	12. 2	13. 4	14. 5	17. 3	68°
CTC-6840		-		9. 1	12. 9	15. 8	18. 2	20	22	24	29	
CTC-6864		-		14. 6	21	25	29	33	36	39	46	
CTC-6870	5. 5	-		16. 0	23	28	32	36	39	42	50	70°
CTC-70023	1. 0	-		0. 52	0. 74	0. 91	1. 0	1. 2	1. 3	1. 4	1. 7	
CTC-80032	1. 2	-		0. 73	1. 0	1. 3	1. 5	1. 6	1. 8	1. 9	2. 3	
CTC-80054	1. 6	-		1. 2	1. 7	2. 1	2. 5	2. 8	3. 0	3. 3	3. 9	
CTC-8008	1. 9	-		1. 8	2. 6	3. 2	3. 6	4. 1	4. 5	4. 8	5. 8	
CTC-80084	1. 9	-		1. 9	2. 7	3. 3	3. 8	4. 3	4. 7	5. 1	6. 1	
CTC-8013	2. 4	-		3. 0	4. 2	5. 1	5. 9	6. 6	7. 3	7. 8	9. 4	
	-	-										
CTC-8024	3. 2	-		5. 5	7. 7	9. 5	10. 9	12. 2	13. 4	14. 5	17. 3	
CTC-8033	4. 0	-		7. 5	10. 6	13. 0	15. 0	16. 8	18. 4	19. 9	24	
CTC-8040		-		9. 1	12. 9	15. 8	18. 2	20	22	24	29	
CTC-90016	0. 79	-		0. 36	0. 52	0. 63	0. 73	0. 82	0. 89	0. 96	1. 2	
CTC-90054	1. 6	-		1. 2	1. 7	2. 1	2. 5	2. 8	3. 0	3. 3	3. 9	90°
CTC-9013	2. 4	-		3. 0	4. 2	5. 1	5. 9	6. 6	7. 3	7. 8	9. 4	

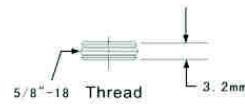
Dimension and the installation



Front side



Back side



Cut Side

二、CTY Performance Data

Model of Nozzle	Equivalent aperture (mm)	Capacity(L/min)								spray angle under pressure of 3kg
		10Bar	20Bar	30Bar	40Bar	60Bar	80Bar	100Bar	150Bar	
CTY-35084	0.076	0.42	0.59	0.73	0.84	1.0	1.2	1.3	1.6	35°
CTY-3524	0.125	1.2	1.7	2.0	2.45	2.9	3.3	3.7	4.6	35°
CTY-3572	0.218	3.5	5.0	6.2	7.2	8.8	10.1	11.3	14.0	35°
CTY-4513	0.093	0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5	43°
CTY-3513	0.093	0.65	0.93	1.1	1.3	1.6	1.8	2.0	2.5	50°
CTY-3524	0.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6	50°
CTY-55054	0.062	0.27	0.38	0.47	0.54	0.66	0.76	0.84	1.0	55°
CTY-6513	0.093	0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5	65°
CTY-6824	0.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6	68°
CTY-70054	0.062	0.27	0.38	0.47	0.54	0.66	0.76	0.84	1.0	70°
CTY-8013	0.093	0.65	0.93	1.1	1.3	1.6	1.8	2.0	2.5	80°
CTY-8024	0.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6	80°
CTY-8054	0.187	2.7	3.8	4.7	5.4	6.6	7.6	8.5	10.5	80°
CTY-90054	0.062	0.27	0.38	0.47	0.54	0.66	0.76	0.84	1.0	90°
CTY-9013	0.093	0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5	90°

Application

- Low pressure washing
- knife sopping and lubricating

Ordering info

CTC — 6513 — SS

nozzle model Serial number code

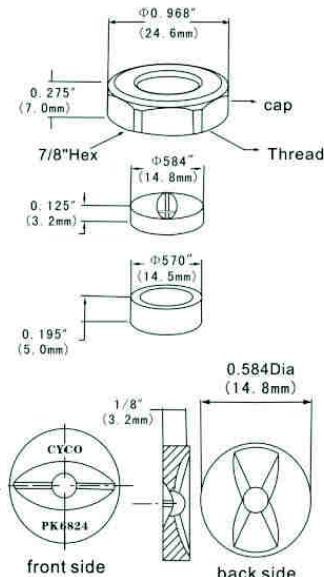
Material : 303SS-SS
316SS-316SS

CTY — 6513 — SS

nozzle model Serial number code

Material : 303SS-SS
316SS-316SS

Dimension and the installation



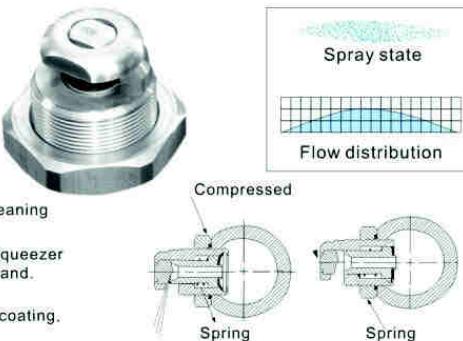
EQ Series Self-clean Spay Nozzle

Features

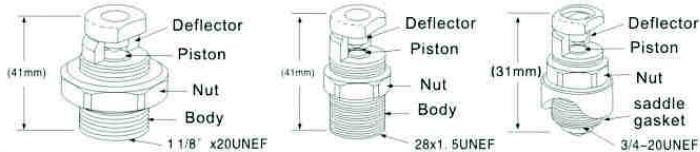
It features an automatic increase of pressure in case of orifice clogging, thus the orifice diameter is enlarged and the clogging matthers are cleared away. Then the spray orifice returns to normal. In the elliptical orifice design, the axis of the spray pattern is a continuation of the axis of the inlet pipeconnection. The tapering edges of the flat fan spray nozzles are useful in establishing overlapping patterns between adjacent sprays on a multiple nozzle header.

Common applications:

- Paper making:meshwork cleaning,felt cleaning and roller cleaning
- Steel plate cleaning in Continuous Casting Machine.
- Water treatment:filter screen squeezer cleaning,conveyor,squeezer cleaning,deairating and surface cleaning of aerating filter-sand.
- Electronics:PCB cleaning
- Automotive and household appliances:pretreatment before coating.



Ordering info		
EQ —	1506 —	316SS
nozzle type	Orifice diameter	Material



Performance Data

spray angle at 2.8 Bar	Orifice diameter	Capacity(L/min)														
		1.5Bar	2Bar	2.5Bar	3Bar	3.5Bar	4Bar	4.5Bar	5Bar	4.5Bar	6Bar	7Bar	8Bar	10Bar	15Bar	
0°	00012	0.034	0.039	0.043	0.047	0.051	0.055	0.058	0.061	0.064	0.067	0.072	0.077	0.086	0.11	
	000026	0.073	0.084	0.094	0.10	0.11	0.12	0.125	0.13	0.14	0.15	0.16	0.17	0.19	0.23	
	000053	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.27	0.28	0.30	0.32	0.34	0.38	0.47	
	00007	0.20	0.23	0.25	0.28	0.30	0.32	0.34	0.36	0.37	0.39	0.42	0.45	0.50	0.62	
	0001	0.28	0.32	0.36	0.39	0.43	0.46	0.48	0.51	0.53	0.56	0.60	0.64	0.72	0.88	
	00017	0.47	0.55	0.61	0.67	0.72	0.77	0.82	0.87	0.91	0.95	1.0	1.1	1.2	1.5	
	0002	0.56	0.64	0.72	0.79	0.85	0.91	0.97	1.0	1.07	1.1	1.2	1.3	1.4	1.8	
	00025	0.70	0.81	0.90	0.99	1.0	1.1	1.2	1.3	1.34	1.4	1.5	1.6	1.8	2.2	
	00032	0.89	1.0	1.2	1.3	1.4	1.5	1.55	1.6	1.7	1.8	1.9	2.1	2.3	2.8	
	00043	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.6	2.8	3.1	3.8	
	0005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4	
	0006	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3	
	0008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1	
	0010	2.8	3.2	3.6	3.9	4.3	4.6	4.8	5.1	5.3	5.6	6.0	6.4	7.2	8.8	
15°	1506	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3	
	305	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4	
30°	3013	3.6	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5	
	3014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4	
	3040	11.2	12.9	14.4	15.8	17.1	18.2	19.3	20	21	22	24	26	29	35	
	4012	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.4	6.7	7.2	7.7	8.6	10.6	
	1013	3.6	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5	
	4014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4	
	4020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7	
	4032	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.1	17.9	19.3	21	23	28	
	4045	12.6	14.5	16.2	17.8	19.2	21	22	23	24	22	27	29	32	40	
45°	4516	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1	
	4525	7.0	8.1	9.0	9.9	10.7	11.4	12.1	12.7	13.4	14.0	15.1	16.1	18.0	22	
	4542	11.7	13.5	15.1	16.6	17.9	19.1	20	21	22	23	25	27	30	37	
50°	5032	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.1	17.9	19.3	21	23	28	
	6016	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1	
60°	6031	8.7	10.0	11.2	12.2	13.2	14.1	15.0	15.8	16.6	17.3	18.7	16.1	22	27	
	6038	10.6	12.2	13.7	15.0	16.2	17.3	18.4	19.4	20	21	23	27	27	34	
	8003	0.84	0.97	1.1	1.2	1.3	1.4	1.45	1.5	1.6	1.7	1.8	1.9	2.2	2.6	
	8003	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4	
	8011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7	
	8019	5.3	6.1	6.8	7.5	8.1	8.7	9.2	9.7	10.2	10.6	11.5	12.2	13.7	16.8	
	8030	8.4	9.7	10.8	11.8	12.8	13.7	14.5	15.3	16.0	16.7	18.1	19.3	22	26	
	8036	10.0	11.6	13.0	14.2	15.3	16.4	17.4	18.3	19.2	20	22	23	26	32	
	8046	12.8	14.8	16.6	18.2	19.6	21	22	23	25	26	28	30	33	41	
100°	10011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7	
	10020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7	
120°	12008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1	
	13016	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1	

155RS Metal Adjustable Spray Nozzle

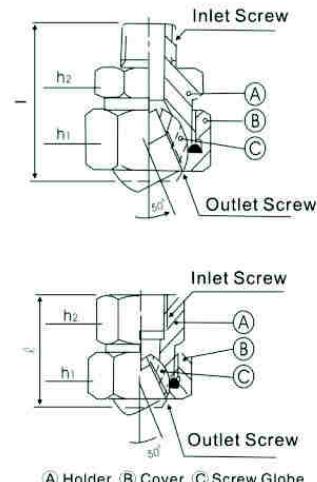
155RS Metal Adjustable Global Spray Nozzle is made of 304#, 303#, 316# stainless steel or brass(Depending on customers requirement).With the connecting of globe and metal sprayhead,you can precisely adjust the spraying direction to keep it in best state. The spray head can be disassembled directly without tools.It is widely applied in auto show testin,such as shower testing line of Yantai General Motors bodywork Factory,Shuzhou Hangtian Automobile Factory,Wuhu Qurui Auto-mobile Factory an Beijing.Modern Automobile Factory.

155RS Series

155RS Series						
Material	BRASS、S303(SUS303)material S316(SUS316),other					

Screw thread type	Nozzle	Screw on base	Screw on Spray tip	Size(mm)		Weight(gr.)		
				L	h/h ₁ /Subtense			
male	155RS	1/8	1/8	32	22	21	60	56
male	155RS	1/4	1/4	36	22	21	65	60
male	155RS	1/4	1/4	39	29	24	110	110
male	155RS	3/8	3/8	40	29	24	115	105
male	155RS	3/8	3/8	47	35	30	205	190
male	155RS	1/2	1/2	54	41	41	350	325
male	155RS	3/4	3/4	61	50	46	525	490
Female	155RS	1/8	1/8	28	22	21	69	63
Female	155RS	1/4	1/8	28	22	21	63	58
Female	155RS	1/4	1/4	33	29	24	120	110
Female	155RS	3/8	1/4	33	29	24	110	100
Female	155RS	3/8	3/8	44	35	30	235	220
Female	155RS	1/2	1/2	48	41	41	405	375
Female	155RS	3/4	3/4	55	50	46	600	560

Nozzle specifications	Model
Selective;and you can check our catalogue for details (Common Metal Spray Nozzle)	Brass,SS



N Series Nozzle pipe Line Accessories

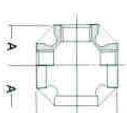
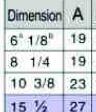
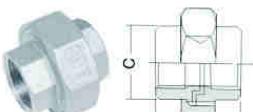
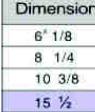
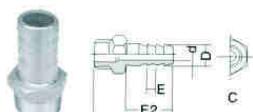
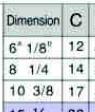
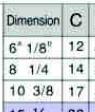
Ordering Information

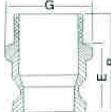
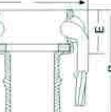
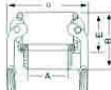
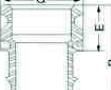
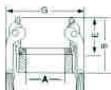
155RS —— 3/8(Outside) —— CT 6540 —— 3/8 —— SS —— SS

↓ ↓ ↓ ↓ ↓ ↓ ↓
Spray Outer Model Spray Body Spray tip
Nozzle Size tip Size Material Material

Metal Connectors

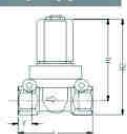
Screwed Nipple Spare Parts List

		<table border="1"> <thead> <tr> <th>Dimension</th><th>A</th></tr> </thead> <tbody> <tr><td>6¹/₈</td><td>19</td></tr> <tr><td>8 1/4</td><td>23</td></tr> <tr><td>10 3/8</td><td>27</td></tr> <tr><td>15 1/2</td><td>32</td></tr> <tr><td>20 3/4</td><td>38</td></tr> <tr><td>25 1</td><td>38</td></tr> </tbody> </table>	Dimension	A	6 ¹ / ₈	19	8 1/4	23	10 3/8	27	15 1/2	32	20 3/4	38	25 1	38			<table border="1"> <thead> <tr> <th>Dimension</th><th>L</th><th>Dimension</th><th>L</th></tr> </thead> <tbody> <tr><td>6¹/₈</td><td>20</td><td>32¹/₄</td><td>50</td></tr> <tr><td>8 1/4</td><td>26</td><td>40 1¹/₂</td><td>50</td></tr> <tr><td>10 3/8</td><td>28</td><td>50 2</td><td>58</td></tr> <tr><td>15 1/2</td><td>34</td><td>65 2¹/₂</td><td>70</td></tr> <tr><td>20 3/4</td><td>38</td><td>80 3</td><td>78</td></tr> <tr><td>25 1</td><td>43</td><td>100 4</td><td>90</td></tr> </tbody> </table>	Dimension	L	Dimension	L	6 ¹ / ₈	20	32 ¹ / ₄	50	8 1/4	26	40 1 ¹ / ₂	50	10 3/8	28	50 2	58	15 1/2	34	65 2 ¹ / ₂	70	20 3/4	38	80 3	78	25 1	43	100 4	90																																																																																																																																																																																																																																						
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A	21	21	34	28.5	36	45	56.5	73	98	122	148		
B	56	56	72	80	84	88	100	106	114	121	130		
C	32	32	40	48	56	67	83	96	127	154	190		
E	38	38	48	56	60	62	69	73	78	81	86		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
A	14	14	20	25	31	43	55	67	92	115	140		
B	92	92	105	118	121	138	155	164	175	187	214		
D	20	20	26	33	39	52	65	77	103	130	155		
E	32	32	40	48	49	54	59	60	62	62	72		
G	53	54	61	79	83	94	109	130	158	184	219		
		DIM		3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
B	45	45	54	65	69	78	83	88	94	94	112		
E	35	35	42	51	52	59	64	65	70	70	82		
G	53	54	61	79	83	94	109	130	158	184	219		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
B	37	37	44	55	64	68	70	80	80	80	98		
E	26	25	32	41	44	48	50	57	56	56	66		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
A	14	19	24	28	35	48	58	72	98	122	145		
B	52	52	64	72	73	80	90	94	101	102	118		
E	32	32	40	48	49	54	59	60	62	62	72		
G	53	54	61	79	83	94	109	130	158	184	219		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
A	14	14	20	25	31	43	55	67	92	115	140		
B	98	98	110	121	125	140	158	170	182	196	220		
C	33	33	39	48	56	66	80	102	132	154	184		
D	20	20	26	33	39	52	65	77	102	130	155		
E	40	40	46	53	56	60	64	66	69	71	78		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
A	16	19	26	33	39	50	61	75	92	122	145		
B	52	52	62	68	71	78	85	90	96	102	118		
E	32	32	40	48	49	54	59	60	62	62	72		
G	53	41	61	79	83	94	109	130	158	184	219		
		DIM	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
A	16	21	24	28.5	36	45	56.5	73	98	122	150		
B	38	38	48	56	60	64	87	73	78	95	86		
C	32	32	40	48	56	67	83	96	127	154	190		

Solenoid Valves

piloted two-way type



Path	Female inlet connection	External Dimensions				
		L	H1	H2	A	F
4-8	1/4					
10	3/8	70	75	65	97	16
15	1/2					
20	3/4	91	96	117	56	16
25	1	115	98	122	71	22

direct-acting two-position and 3-way type



Path	Female inlet connection	External Dimensions				
		L1	L2	H	A	B
1	1/8-1/4	25		56	20	
		32	34	67	32	34
			25	56		20
2	1/8-1/4		32	34		
				46	48	67
				32	34	34
3						
4	1/4					
5						

standard specification

Model	Dimension	Female (BSPT) Thread	Body material	Sealing material	Valve action model	Maximum pressure bar	Orifice size
Two-way type	CY-2CF-1/8	1/8	Brass or stainless steel	nitrile rubber or fluorizate rubber	Direct-acting	16	2
	CY-2CF-1/4	1/4				6	5
	CY-2CF-3/8	3/8			pilote type	10	10
	CY-2CF-1/2	1/2					15
	CY-2CF-3/4	3/4				16	20
	CY-2CF-1	1					25
3-way type	CY-3CF-1/8	1/8			Direct-acting	16	1
	CY-3CF-1/4	1/4					3

Product application

Electromagnetic valve is used for automatic operation system which requires switch flowing. It is widely used in the corillary equipment of air compressor, bottle blowing machine, fire safety, stage equipment, Food processor, cleaning equipment, ordnance equipment, petrochemical equipment, machinofacture as well as other autocontrol equipment of related industry.

Design Features

Electromagnetic valve, with a structure of piston, is durable, hasing a compact and fine design. It is also low-temparature and noiseless, leakless, gleg and high frequency. As the medium has impurities, the filter should be install in front of the valve, (mesh 82mesh/m2),then it would not solidify and crystallize. The piston is usually close. Between 5 oC to90 oC, it can be safely used in air and liquid channel. The material of the valve can be stainless steel and brass. The sealing element can be nitrile rubber or fluorizate rubber. The action model can be direct-acting, multiple step acting and pilote type. The connection type can be two-way type and two-position-and-three-way type.

Choosing requirements

If you haven't decide the model, please offer relative parameter for us, like inside nominal diameter, tpye of medium, operating pressure, voltage rating connection style, installation way, medium temparature, environmental temparature, valve material, and other specific function such as normal open or normal close,signal feedback or non-return, hand priming device, viscosity and corrosivity of the medium.

Choosing considerations

- 一、 According to the parameter of channel: DN and way of connection
- ▲ with reference to the diameter and the flow rate of the practical channel to decide DN
- ▲normally choosing flanged joint when it is lager than DN50, otherwise it can be freely chosen by customers.
- 二、 According to the parameter of fluid: material and temparature group.
- ▲ corrosive fluid: choosing corrosive magnetic valve and that of fully-made by stailess steel. Edible superclean fluid: choosing magnatic valve made by edible grade stailess steel
- ▲ high-temparature fluid: choosing the piston-type magnetic valve made by high temperature resistance material and sealing material
- ▲ fluid state: normally has gaseity, liquid and mixed state, please distinguishing when you order
- ▲ fluid viscosity: usually can be randomly chosen the the viscosity is below 50ost, otherwise you shoud choose high viscosity magnetic valve.
- 三、 According to the parameter of pressure: principle and structure
- ▲ nominal pressure :this parameter is the same as other definition of common valve which is set by the nominal pressure of the channel.
- ▲ operating pressure: if it is low, then you must choose direct-acting or multiple step acting type. When the differential pressure is more than 0.04mpa, all types can be used.
- 四、 Electric chosen: voltage specification should be AC220V or DC24 which is more convenient.
- 五、 According to the length of working hours: normal close, nomal open or sustainable electrified.
- ▲ when the magnatic valve should be opened for a long time and seldom closed, normal open type should be chosen.
- ▲ if the duration is short and not opened frequently, normal close type should be chosen.
- ▲ sometime when it is used for safeguards, like monitoring the stove and fire, then it can be chosen as nomal open type, but the long term current carrying type.

Liquid Filter

To1-PP



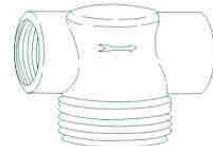
Polypropylene strainer body and strainer head, 10 bar, 1/2 inch-3/4 inch NPT or BSPT(inner)

To2-PC



Polycarbonate strainer body and Polypropylene strainer head, 10 bar, 1/2 inch-3/4 inch NPT or BSPT(inner)

Liquid filter



Polypropylene filter head



The framework of polypropylene with stainless steel mesh filter with a variety of sizes.



Polypropylene strainer body

Strainer porthole	
Mesh size	Porthole size
16	1.1mm
30	0.53mm
50	0.28mm
80	0.18mm
100	0.15mm
200	0.08mm

Design features

To1 type water filter ideal for small container under medium pressure .

To1-PP type has polypropylene strainer body and strainer head,so it's unattakable and chemical resistant

Both of their strainer body can be taken down by hand.The size of their strainer are various.

The maximum pressure of 1/2 type strainers is 10 bar.They have inlet connection whose size is 1/2 inch or 3/4 inch NPT or BSPT(inner).

To2-PC type has polypropylene strainer head and transparent polycarbonate strainer body which is resistant to ultraviolet radiation,so that it's convenient to check-up inner strainer by eye.

Dimension and weight

Strainer type	Inlet joint: NPT or BSPT (female)	Crust material	Strainer			Total area	Size		Net Weight (KG)	Approximate flow rate when the pressure is reduced by 0.35 bar
			Single strength mesh	Strainer	Open space		Main-cm	By intake acreage		
To1-1/2-PP	1/2	Polypropylene	16	16nets-1-304SS		49.7	25	13		
			30	30nets-2-304SS			20	10.5		
		Polycarbonate	50	50nets-3-304SS			15	7.7		
			80	80nets-4-304SS			15.5	8.0	45	
To2-1/2-PC	1/2	Polycarbonate	100	100nets-5-304SS			15.4	8.0		
			200	200nets-7-304SS			16.4	8.5		
		Polypropylene	16	16nets-1-304SS			25	13		
			30	30nets-2-304SS			20	10.5		
To1-3/4-PP	3/4	Polypropylene	50	50nets-3-304SS			15	7.7		
			80	80nets-4-304SS			15.5	8.0	60	
		Polycarbonate	100	100nets-5-304SS			15.4	8.0		
			200	200nets-7-304SS			16.4	8.5		

Ordering info

CYT01—1/2—PP—50

Strainer type Entrance Exit size Material code Strainer size

Y Shape Liquid Strainer

Y shape thread-connection



Y shape flanged connection



product features

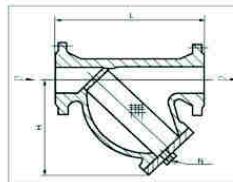
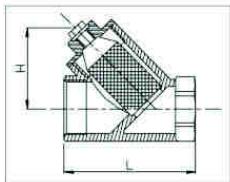
The strainer inside is made of stainless steel which is double decked, it is very durable. It also has the features of advanced structure, large flow area, small flow resistance, easy blowdown and soon. It can be used in water, steam, oil, nitric acid and other corrosive liquids. Our clients can set the mesh number according to their requirement. Normally, the mesh number of hydrographic net is 18-30, and that of aeration net is 100-480. It is one of the necessary device which are used for conveying fluid. It is usually installed in the entrance end of hydraulic control valve, reducing valve, relief valve, definite-level valve and so on, which is used to remove the impurities from the medium and prevent the particulate medium from entering and blocking the channel. So it can keep the parts that are in the channel not being worn away and jammed.

Application range

It is applied to steam, air, water, oil and other duct system, protecting various devices such as metrologic instrument, pump, valve and all kinds of spray nozzles. When washing it, it is easy and convenient that take the withdrawable filter cartridge out, cleaning the medium on it, and reinstalling it again.

technical parameter

Hard surface material	Brass/SS	Way of connection	Threads. Flange
frame and mesh material	Stainless steel	nominal pressure(Mpa)	0.6~5.0
sealing element material	flexible graphite, polyfluorotetraethylene	filter fineness(mesh/in)	10~300
environmental temperature	-30~400		



Dimension

Inside nominal diameter	Screw threads	Dimension L	Dimension H
6	1/4	63. 5	42
10	3/8	64	42
15	1/2	65	43
20	3/4	80	50
25	1	89	60
32	1-1/4	107	64
40	1-1/2	118	70
50	2	140	88
65	Flange 2-1/2 inch	260	165
80	Flange 3 inch	280	195
100	Flange 4 inch	320	230
125	Flange 5 inch	350	300
150	Flange 6inch	380	335

Ordering info

Y1/2 — SS — 30
 ↓ Model and thread connection size ↓ Materials ↓ Mesh number

Pressure Gauge

Common type



Stainless steel aseismatic type



Design Features

This watch joint and its accessory which contact liquid are all made of brass, it use for test copper and copper-alloy non-caustic, non-volatile, non-crystal, non-deposit gas or liquid pressure. This watch when it is working, it work place should plumb installation, loading steady, plus or minus loading should even, surrounding environment temperature is 20 ± 5 C. (if use temperature departure 20 ± 5 C. the temperature error less than 0.4% 10°C

Model	Outer dia	Measuring range	Accuracy grade	Join thread
Y40	φ 40	0.6,1,1.6,2.5,4,6	2. 5	M10x1
Y60	φ 60		2. 5	M10X1或M14x1.5
Y100	φ 100	0.6,1,1.6,2.5,4	1. 6	M20x1.5
Y150	φ 150	6,10,16,25,40	1. 6	M20x1.5
Y200	φ 200	60,100	1. 6	M20x1.5
Y250	φ 250		1. 6	M20x1.5

Design Features

This watch was close structures and the housing was whole stainless steel, it efficient protect the inner accessory avoid the environment effect and dirtiness inrush, for the watch which fill liquid (As, silicon oil and glycerin) in the housing, it can resist the work environment shake and reduce the pulsant impact of medium pressure. It is extensive use for industry department of oil, chemical industry, chemical fiber, metallurgy, electricity station etc. it is aim at endure erodent, aseismatic -those special craftwork process measure the pressure of all kinds of liquid material.

Model	Outer dia	Measuring range	Accuracy grade	Join thread
Y60	φ 60	0.6,1,1.6,2.5,4	2. 5	M10x1 or G1/4
Y100	φ 100	6,10,16,25,40	1. 6	M20X1.5 or G1/2
Y150	φ 150	60	1. 6	M20x1.5 or G1/2

N Series Nozzle pipe Line Accessories

