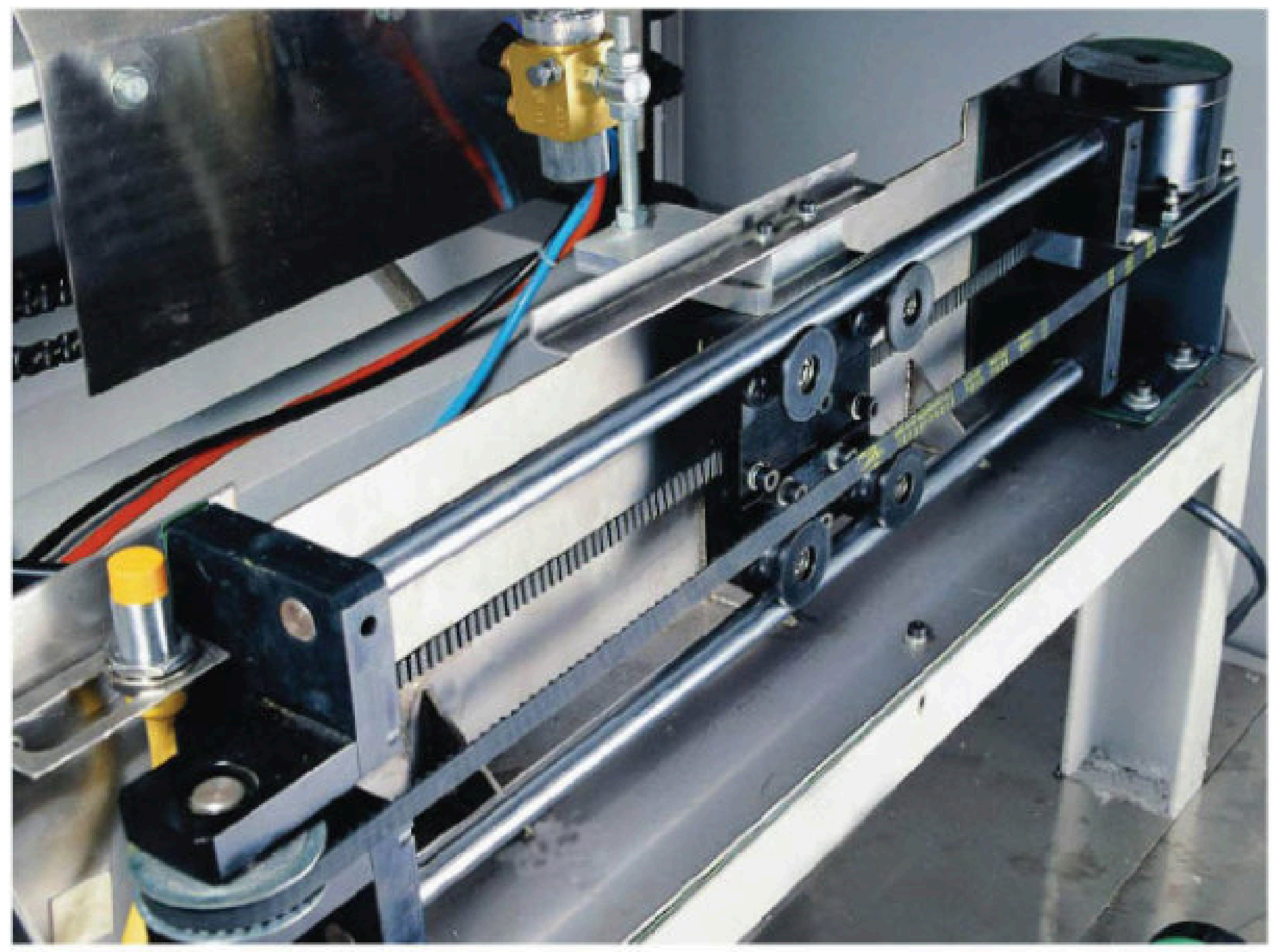
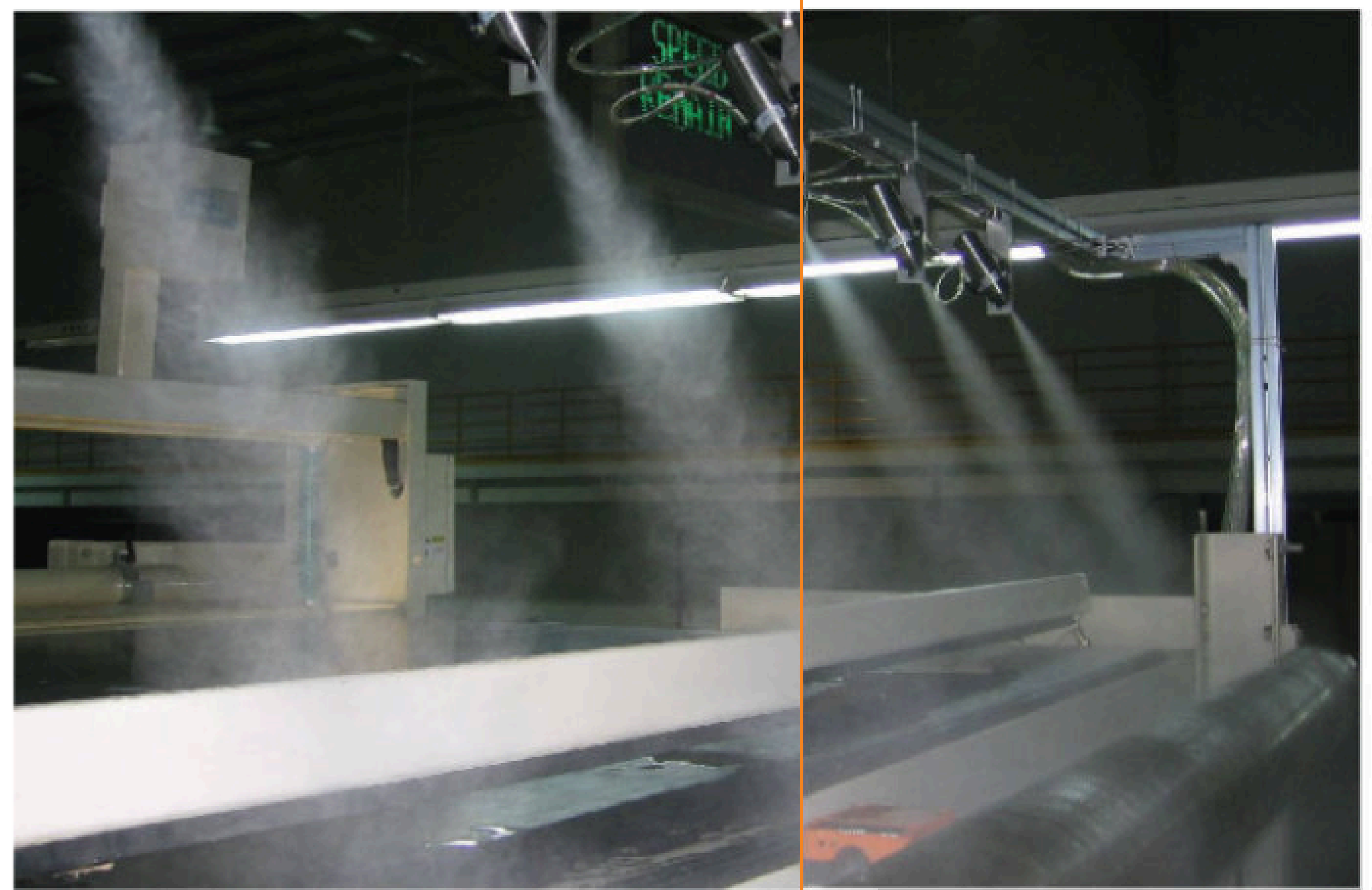
SPRAYING & PURIFICATION EQUIPMENT

Ekomaziva s.r.o.

Ekomaziva s.r.o. Product Catalogue

www.ekomaziva.cz | +420 374 802 803





Our products — Industrial nozzle

Nozzles are classified according to the following characters

1) According to material : Metal nozzle; Plastic nozzle.

2) According to structure: Adjustable ball nozzle; Air blowing nozzle ; Spiral nozzle; Quick release nozzle; Mixing eductor nozzle; Fine atomizing nozzle; One-piece nozzle.

3) According to shape of spray: Fan nozzle ; Full cone nozzle; Hollow cone nozzle; Liquid column nozzle.

4) According to purpose : Cleaning nozzle; Humidification nozzle; Dedusting nozzle; Spray drying nozzle; Spray coating nozzle; Strong cold air shower nozzle; strong hot air shower nozzle.

5) Application range: Coating; Electronics; Motor vehicle (Car); Food; Steel; Chemical industry; Paper making; Environmental protection.

Our Philosophy

"Quality is the essence of our existence, while credibility is the foundation of our growth." This principle has guided us from the outset, driving our commitment to delivering products that excel in both quality and affordability. Our ongoing efforts are geared towards enhancing resource efficiency, thereby generating greater value for our clients.

Our Dedication to Quality

Quality is the cornerstone of our enterprise. We meticulously adhere to the ISO 9001:2000 standard at every stage, from raw material procurement to production and inspection. Setting precedence in quality within our industry, we ensure our offerings are both high in quality and competitively priced. The resounding endorsement from our satisfied clientele serves as a testament to our unwavering focus on quality.

Our Pledge

We are steadfast in our pursuit of quality products. Placing quality above all else, we eschew shortcuts that compromise quality for lower costs. Quality serves as our assurance for longevity; we persist in elevating quality standards while maintaining competitive pricing. Our commitment remains unwavering: to deliver the utmost value by offering the most reasonable prices without compromising on quality.

About Ekomaziva s.r.o.

We are a commercial and manufacturing company delivering high-quality and innovative products to all industries since 2012. Our primary focus lies in metal processing and surface treatments. Our globally used products are sought after for their quality and cost-performance ratio. With a comprehensive product portfolio, we provide customized solutions, exceptional service, and technical consultancy. Offering top-notch products for optimal performance, our portfolio includes IRMCO technological lubricants, assembly and maintenance lubricants, spray application systems, a wide range of nozzles and valves, as well as surface treatment solutions like masking (covers, plugs, tapes), suspension equipment for painting, galvanizing, anodizing (for materials: steel, stainless steel, brass, copper, titanium, aluminum; PVC coating), contact and cleaning beds, galvanizing drums, drying centrifuges, equipment for oil removal from cleaning baths, active vacuum filters, filtration pumps, and much more.

Companies utilizing our nozzles

HONDA

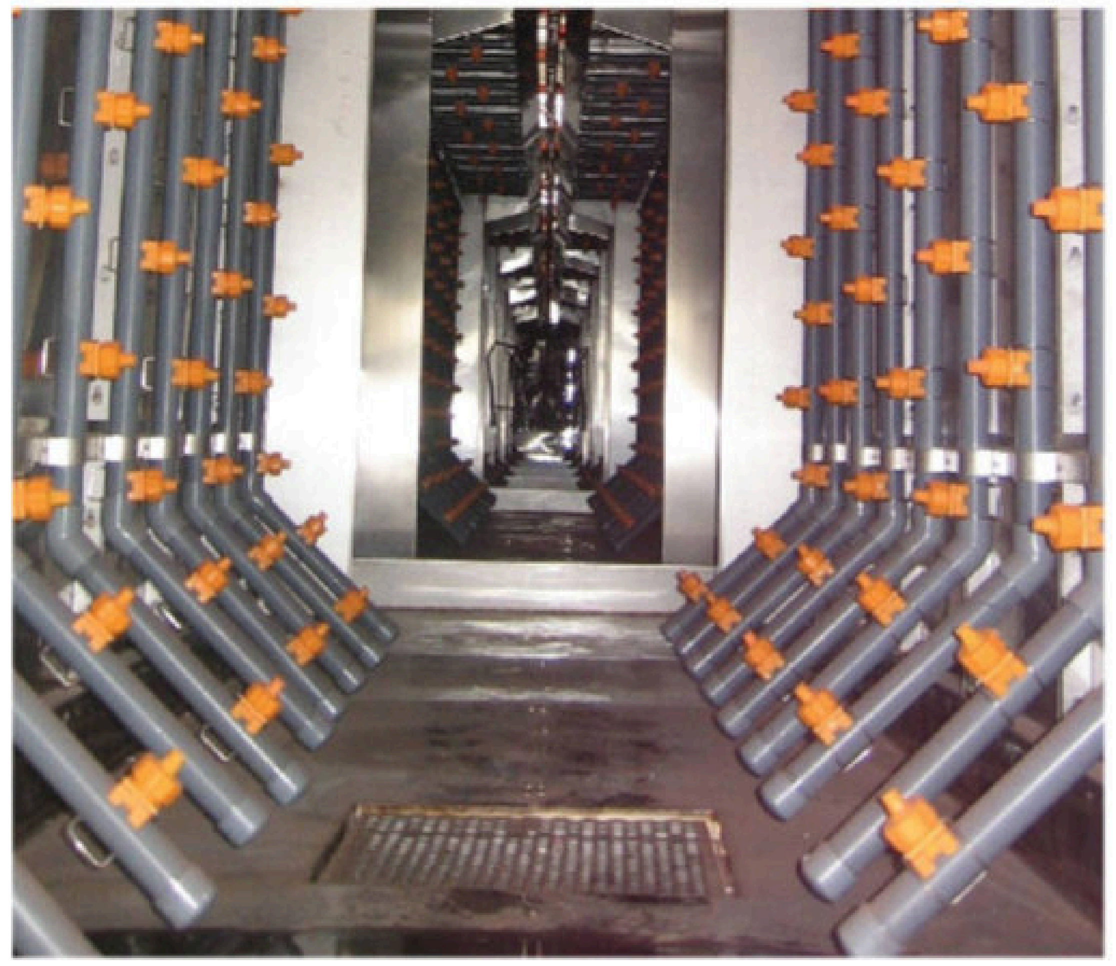
CHERY

BYD

NISSAN

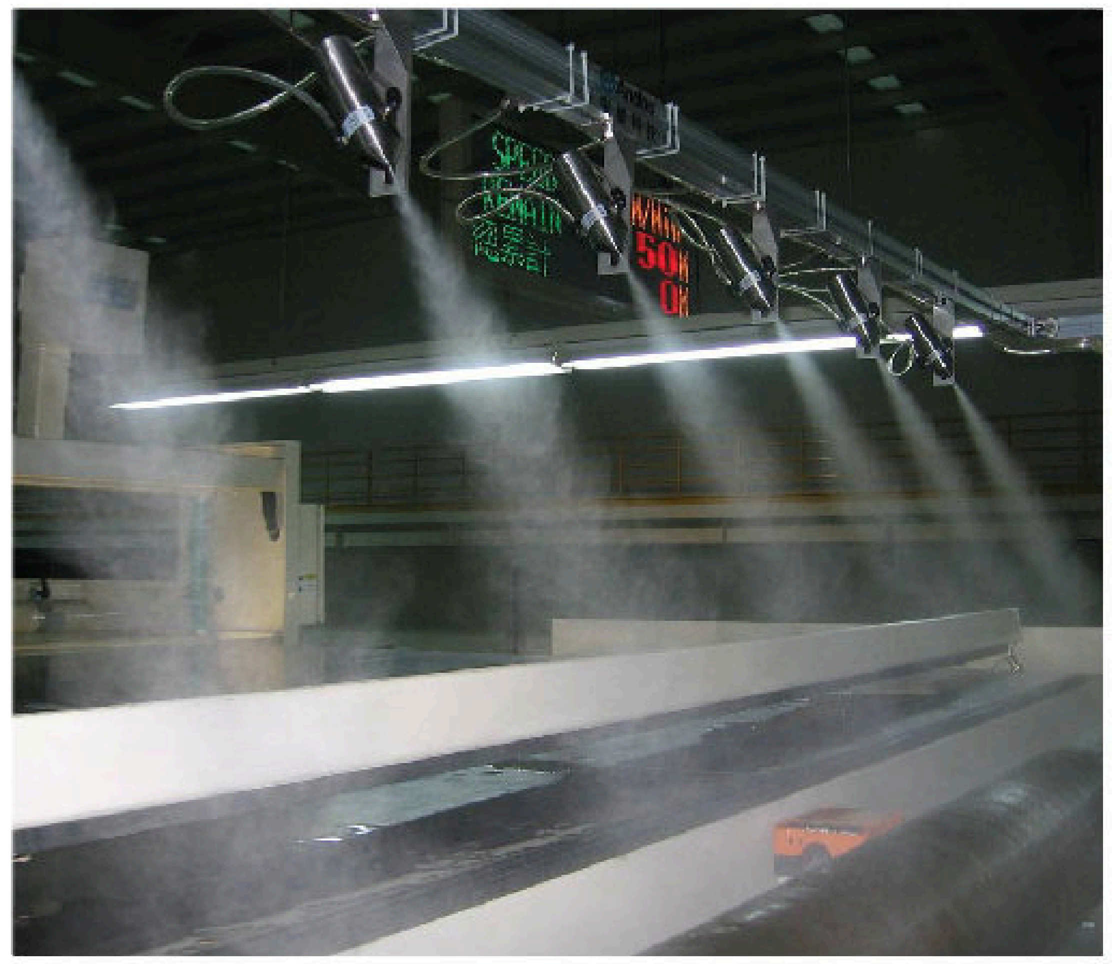
Used across the Globe

Nozzles's typical application



Spraying room

Strong cold room

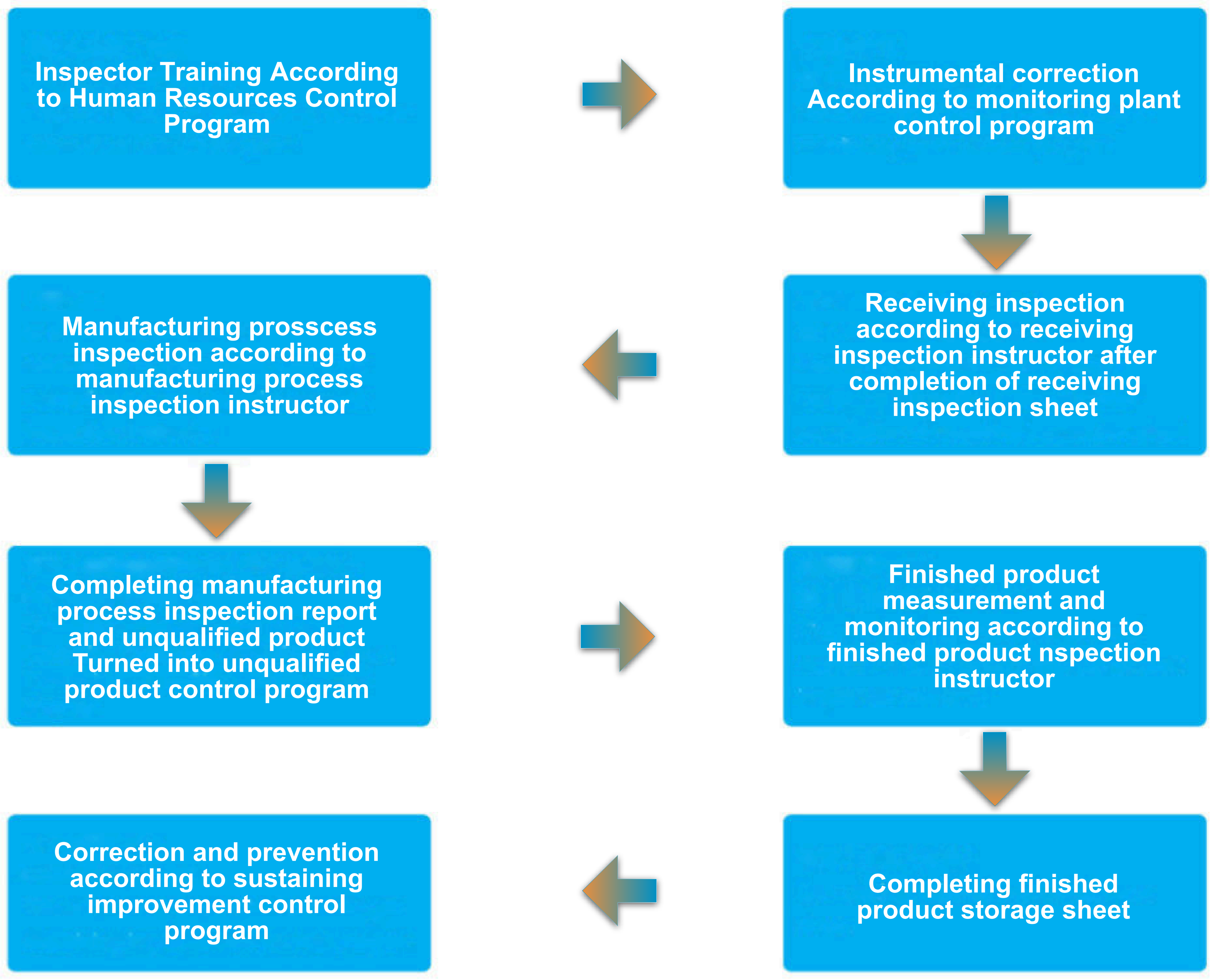


Spraying humidification

Spraying room

Quality Assurance System

Flow Chart



Quality Policy

Open up market with quality and credit.Produce products according ot first class standard organization ni domestic Meet clients' needs with variety, improve quality control to product development and design.

Develop by the way of sustaining improvement, Bring up great satisfaction to al our clients.

For abbreviation:Quality,winnng market,variety attracting customers, and sustaining improvement promoting development.

To carry out our quality policy,we take measures as following.

Organize the staff ot study and make discussions about our quality policy and assure that al the staff especially those managers understand completely. Place the quality policy ni public for any time study. Establish quality goals according ot the quality policy and pass ti to every department for quality target manadement

Our overall goals:clients satisfaction> 95%;Finished product percent of pass > 99%;Clients' complaint < 1%. Any document, process program.product etc, violated this quality policy shal be corrected according ot principles ni .ti Any one shall not vilate this quality policy.

Nozzle's Application Range

Nozzle's Application

Nozzles are widely used in all kinds of fields in industry.Products cover industries like surface treatment. Electronics, textile steel, pharmacy etc. More and more appliction range manifests that nozzle’s influence is extending.

Cleaning

- Car washing
- Cleaning gravel on the screen
- Inner tank cleaning
- Power PCB cleaning
- Disinfection equipment cleaning in food factory
- Blanket and mesh cleaning in paper mill
- Bottle washing in food factory
- High pressure washing
- Glass washing
- Industrial equipment washing
- Pretreatment for metal surface
- Tank cleaning

Coating

- Medicine coating
- Airless spraying
- Rust preventive spraying
- Additive and flavor spraying on food
- Mould release agent spraying
- Porcelain tile and color tile glazing
- Metal parts phosphating
- Metal surface coating

Cooling

- Steel secondary casting cooling
- Roll cooling for steel-making
- Conveyer belt cooling
- Cooling tower
- Quenching after heat treatment
- PVC pipe extrusion cooling
- Die casting cooling
- Gas cooling
- Aluminum profile cooling
- Spraying in cooling pond for interchange of heat

Nozzle Material And Application

Dust control

- Dust control in coal and sand convey
- Dust remove in washing tower
- Dust control of throw-off carriage
- Dust control for road cleaning machine
- Dust control in wood flour transport
- Dust control at cement transshipment point

Gas adjustment

- Air washing in air adjustment system
- Centrifugal wet-type collector
- Air washing in spray room
- Remove nitric oxide by spraying ammonia water
- Washing system for reactor
- Gas washing for pipe
- Space humidification to remove static
- Spraying lime slurry for desulfuration

Marking

- Non-woven products defect marking
- Building materials marking-out
- Product identify spraying
- Bar code spraying

Lubriaction

- Gear lubrication
- Pressed film lubrication
- Hydraulic machine refuel
- Lubricating blade and spring
- Conveyer belt and transmission chain lubrication
- Mould release agent spraying
- Wirerope lubrication
- Axle and bearing lubrication

Nozzle's common technical tips

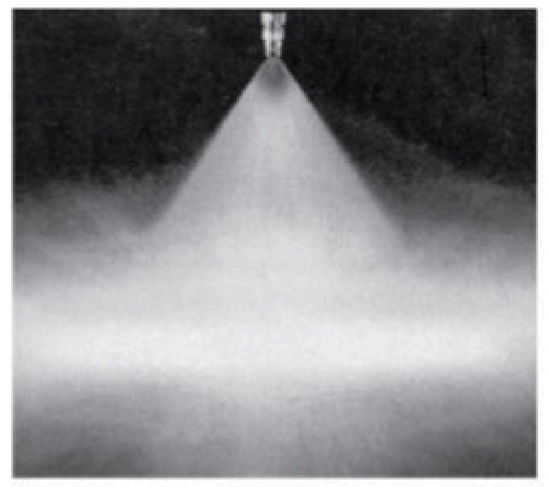
Choice Of Material For Nozzle

For all kinds of nozzles marks out the material, general engineering polypropylene use PP for code,SS for stainless steel,BRASS for brass, the details are as follows.

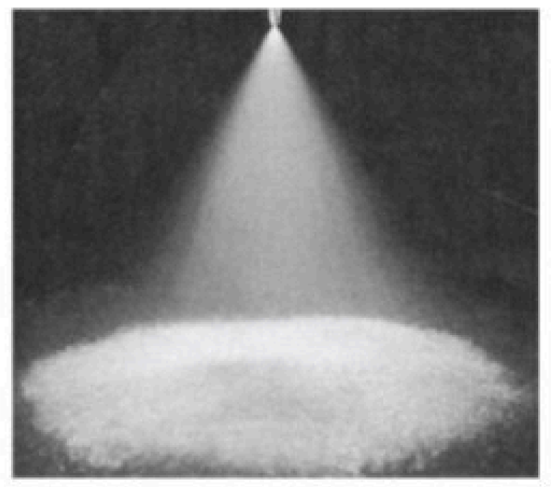
Pastic	Hard PVF	PVC
	Fiber Polypropylene	PP
	Polypropylene without fiber	PPO
	ABS Material	ABS
	PVDF	PPS
	Polytef	PVDF
	PPS	PTFE
	Epoxy resin	ARALDITE
	Toughered Fiberglass	FRP

Metal	BRASS	BRASS
	303 Stainless steel	303ss
	304 Stainless steel	304SS
	316 Stainless steel	316SS
	316L Stainle&s steel	316LSS
	Metallic titanium	TN
	Hard alloy	CCA
	Aluminium alloy	ALMA
Special material	Sapphire	SAS
	Ruby	RUS
	Graphite	GRS
	Ceramics	SIS

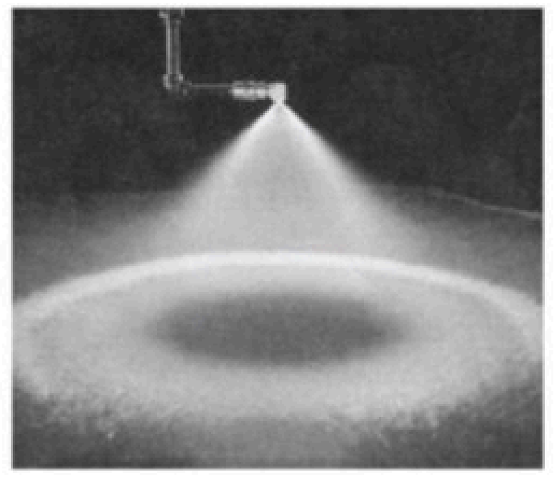
Nozzle's Application



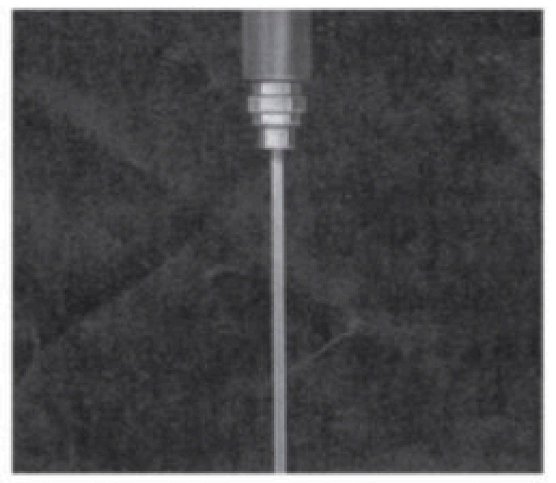
Fan shape



Full cone



Hollow cone



Pillar fluid

Tolerance and nozzle angle nozzle flow

Our nozzle's flow rate tolerance is ± 5.5%

Our nozzle's spray angle tolerance is ± 5°

Our pillar fluid's spray angle is ± 3°

Maintenance to nozzle is very important

In the conditions of different PH value,viscosity,and pressure,nozzles with different material wear differently.Customer should do cleaning and maintenance to,even change nozzles regularly according to actual usage condition.When cleaning workpiece is dirty,nozzle is easy to be blocked.On one handjiquid should be filtered to change the purity of solution,on the other hand,the nozzle should be cleaned regularly to make spraying working properly.When the solutionis high density.the material with strong resistant to corrosion should be used (316L,PVDF).When the solution's cleaned and the wear-resisting material should be used (Cerarmics, alloy). If nozzle is blocked without clearance.the workpiece can not be cleaned and press pump will be overloaded running, then the whole equipment working function will be damaged.So the maintenance to nozzle is very important.

Spray Angle And Coverage

The theoretic spray coverage listed as below is calculated according to the spray angle and the distance to spray tip.These datas are based on the hypothesis that the spray angle does not change in the whole spray distanceJn the practical applicationjisted spray angle is not not applicable to spray distance,actual spray coverage data sheet Listed spray angle based on water coverageJn the practical spraying,effective spray angle calculated by spray distanceJf the required spray coverage is important, the specific spray coverage data can be used.When liquid is thicker than water.the spray angle is relatively smaller.The angle depends on thickness, flow rate and jet pressure,The liquid whose surface pressure is lower than water can produce relatively wider angle than listed water spray angle.

Spray angle	The theoretic spray coverage (from jet tip) at different rtstance (cm)											
	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 relation between flow rate and pressure:

Spray fluid is in proportion to the square root of spray pressure in the same medium.Any flow rate is countable when the nozzle's flow and pressure is known. Set the known flow rate as Qvand corresponding pressure as Fvto solve the unknown Qx based on the known pressure F. The relation is as below:

$$\frac{Q_1 \text{ flow rate(L/min)}}{Q_x \text{ flow rate(L/min)}} = \frac{\sqrt{F_1 \text{ pressure (kg)}}}{\sqrt{F_2 \text{ pressure (kg)}}}$$

i.e.

$$Q_x = Q_1 \sqrt{\frac{F_2 \quad \text{target pressure (kg)}}{F_1 \quad \text{known pressure (kg)}}}$$

Unit Conversion

We here provide some unit conversion's. that our customers can use right calculating method when choosing 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^{-3}
9.30×10^2	9.30×10^{-2}	1.44×10^2	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^{-2}	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}
3.05×10^5	3.05×10^2	3.05×10	3.05×10^{-1}	12	1

Flow rate						
/Min	m^3/min	m^3/hr	in^3/hr	ft^3/h	米gal/min	英gal/min
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	6.10×10^4	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	ib/in^2/(p.si)	Atm	mHg	mH_2O(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
1.01×10^2	1.013	1.033	14.7	1	0.76	10.34
1.33×10^2	1.33	1.36	19.3	1.32	1	13.61
9.807	0.098	0.10	1.42	0.097	0.073	1

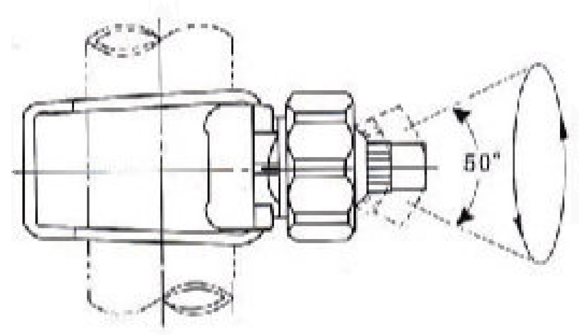
Volume					
cm^3	l	M^3(Kl)	ft^3	英gal	米gal
1	1×10^{-3}	1×10^{-6}	3.53×10^{-5}	2.2×10^{-4}	2.64×10^{-4}
1,000	1	1×10^{-3}	3.53×10^{-2}	0.22	0.264
1×10^6	1,000	1	353	220	264
2.83×10^4	28.3	2.83×10^{-2}	1	0.623	0.749
4.55×10^3	4.55	4.55×10^{-3}	1.6	1	1.2
3.79×10^3	3.79	3.79×10^{-3}	1.34	0.833	1

Others	
Viscosity	1P=100cP
	1St=100cSt
Weight	1kg=2.205lb
	1lb=0.454kg
Temperature	[°F]=([°C] × 5/9)+32
	[°C]=5/9([°F]−32)

Flow rate and matching pipe dia.					Flow rate and matching pipe dia.				
Pipe dia.		Pipe		Flow rate,when matching pipe 10m pressure loss, 0.11-0.03MPa(e/min)	Pipe dia.		Pipe		Flow rate,when matching pipe 10m pressure loss,0.11-0.03MPa(e/min)
A	B	Inner dia.	outer dia.		A	B	Inner dia.	outer dia.	
6A	1/8B	6.5	10.5	1.3−2.2	40A	1−1/2B	41.6	48.6	120−210
8A	1/4B	9.2	13.8	3−5.2	50A	2B	52.9	60.5	215−370
10A	3/8B	12.7	17.3	7−12	65A	2−1/2B	67.9	76.3	410−700
15A	1/2B	16.1	21.7	12−21	80A	3B	80.7	89.1	680−1,200
20A	6B	21.6	27.2	22−38	100A	4B	105.3	114.3	1,200−2,100
25A	1B	27.6	34.0	38−65	125A	5B	130.8	139.8	2,100−3,600
32A	11/4B	35.7	42.7	70−120	150A	6B	155.2	165.2	3,300−5,700

26988 Clip-eyelet nozzle

Clip-eyelet bodies	 26988 series double clamp	 26988 series single clamp	 155 series
Quick-connect tips	 Clip-eyelet ball tip	 Threaded ball plus threaded nozzle	



Material

Components	Texture
Cap	Carbon fiber reinforced polypropylene fiber content:25%
Spray tips	Max operating temperature is 82°C Excellent chemical resistance
Base	Excellent abrasion resistance
Spring clip	304 Stainless steel
Seal ring	Nitrile rubber, Fluorous rubber

Design Feature

• Adjustable ball-Type nozzle has two types of connection； Clamp type (26988 series) and Threaded type(155 series).Clamp spray nozzle is fixed on the pipe by clamp, threaded type is to be fixed by threaded connection.

• Adjustable ball-Type nozzle can offer three types of spraying； Full cone type,hollow cone type, fan type.You can precisely adjust the spray direction anytime and make it under the best working operation.

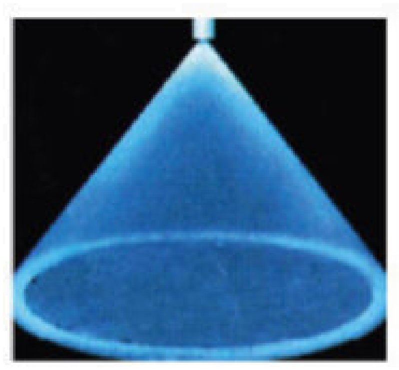
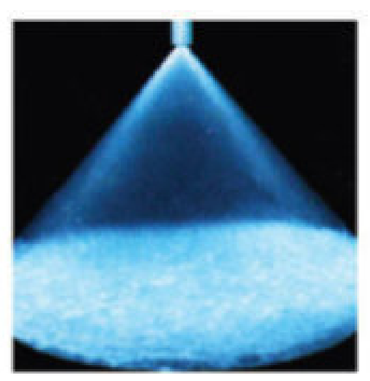
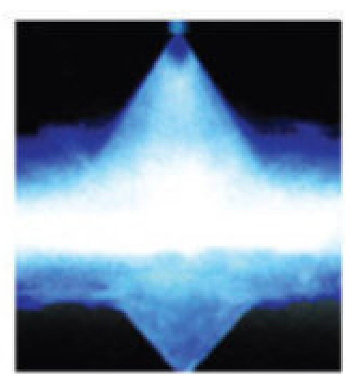
• Ball-type tip is very quick to detach or connect. It can be detached or connected without any tools,and connect new spray tip.

Size Of Clip-eyelet Nozzle

Style No.	Pipe dia. (Inch)	Pipe dia. (mm)	Pipe cut-out (mm)
26988	1	32-35	14
	1-1/4	38-43	16
	1-1/2	44-51	18
	2	54-60	20

Threaded Nozzle Size

Style No.	Connecting thread size(Inch)
155	1/8
	1/4
	3/8
	1/2

26988 Clip-eyelet nozzle

Performance Data

Hollow cone spray tip

	Flow rate (liters/minute)							Spray angle		
Style No.	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°

Fan shaped spray tip

Spray tip style (at 3bar spray angle)							Flow rate (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

	Flow rate (liters/minute)							Spray angle		
Style No.	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°

Threaded ball size

Style No.	Thread size(inch)
BL2	1/4
BL3	3/8

Common application

• Cleaning
• Coating
• Degreasing, phosphating in the process of surface of treament
• Other low pressure of application

Order information

26988	1	D14	PP	CT6530	PP
Nozzle type	Pipe size	Hole's dia. on pipe	Material	Spray tip type	Material

155	3/8	PP	QC6505	PP
Nozzle type	Thread size	Material	Spray tip type	Material

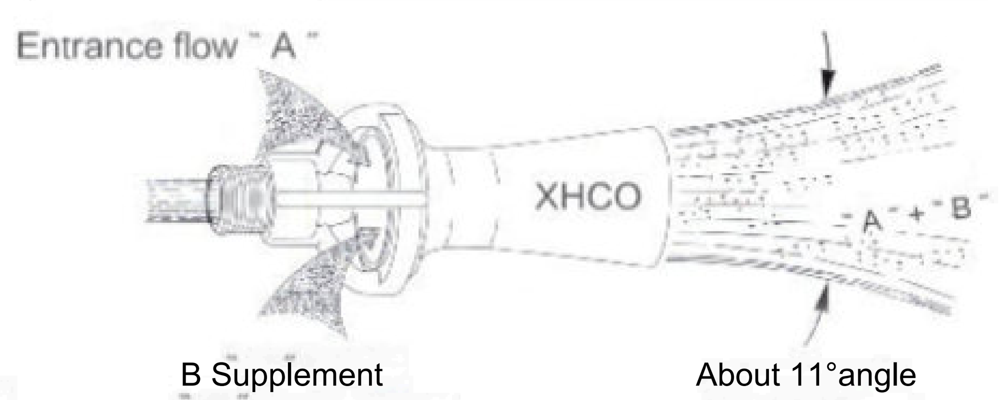
G Mixing Eductor nozzle

DESIGN FEATURE

This model is according to Berboullijet principle and designed by reasonable Geometric surface parameters.Liquid jet from cone nozzle at high speed,and cause a low pressure area around leading opening.Hight speed flow and liquid spray from mixing diffuser by 1:4

PERFORMANCE FEATURE

- mixing solution without air, reduce oxidation.
- Improve mixing effect.
- Improve evenness of solution and surface processing quality of workpiece.



MATERIAL FEATURE

M Model mixing nozzle adopt high-performance material:Carbon fiber polypropylece die-casting, and also satinless steel,with excellent chemical resistance,ageing ｢esistanc^max performance temperature is 120℃.

BSPT(M) Inlet connector NPTor BSPT(M)	Large area of flow	Input hydraulic pressure 10 psi	15 psi	20 psi	25 psi	30 psi	35 psi	40 psi	45 psi
1/4	Entramce flow (L/min) “A”	3.5	4.3	5.0	5.5	6.1	6.6	7.0	7.8
3/8		9	11	12.5	14	16	17	18	20
3/4		13.5	17	19	21	23	25	27	30
1-1/2		33	40	47	53	58	63	66	75
1/4	Supplement (L/min) B	12.7	15.1	17.8	19.6	22	24	26	29
3/8		36	44	50	56	64	68	72	80
3/4		54	68	76	84	92	100	108	120
1-1/2		132	160	188	212	232	252	264	300
1/4	Total circulation (L/min) “A+B”	16.2	19.4	22.8	25.1	28.1	30.6	33	36.8
3/8		45	55	62.5	70	80	85	90	100
3/4		67.5	85	95	105	115	125	135	150
1-1/2		165	200	235	265	290	315	330	375
1/4	Effective range(m)	3	5	7	8.5	10	12	14	17
3/8		4	6	8	10	12	14	17	22
3/4		5	8	11	14	17	20	16	33
1-1/2		7.5	12	16	20	24	29	24	46

BSPT(M) Inlet connector NPTor BSPT(M)	Large area of flow	Input hydraulic pressure 0.5 psi	1 psi	1.5 psi	2 psi	2.5 psi	3 psi	3.5 psi	4 psi
1/4	Entramce flow (L/min) “A”	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		106	151	184	215	243	259	288	308
IM	Supplement (L/min) “B”	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		424	604	736	860	972	1036	1152	1232
1/4	Total circulation (L/min) “A+B”	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		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

Mixing Nozzle Size

Style No.	Inlet connector (Inch)	L(mm)	D(mm)	C(mm)
G40	1/4	70	30	23
G60	3/8	115	50	38
G90	1/2	115	50	38
G130	3/4	165	65	50

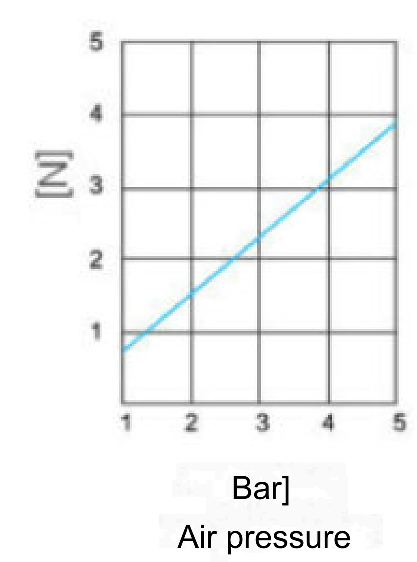
Order Information

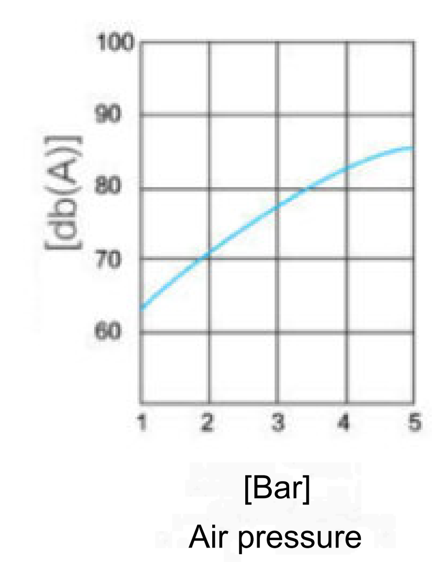
G40	1/4	PP
Model	Inlet size	Material

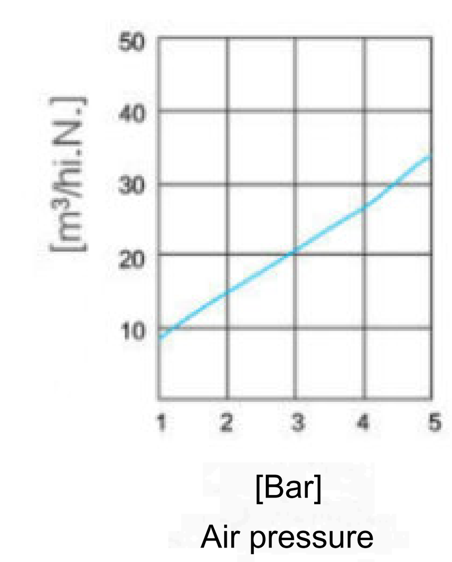
F Windjet nozzle

- F style wind jet nozzle generate efficient fan shaped air current
- Designed to maintain spray pattern integrity.
- Available in materials that withstand high temperaturejike ABS or aluminum alloy.
- F style wind jet nozzle is applicable to 1/4" BSPT made connector and designed with a locating hole（ABS spray nozzle）in order to be mounted side-by-side for air curtain applications.
- F style plastic wind jet nozzle can endure 7 bar air pressure, at this air pressure,max operating temperature is 77℃.
- F style aluminum alloy windjet nozzle can endure 30 bar pressure,at this air pressure,max operating temperature is 250℃.

Performance Data







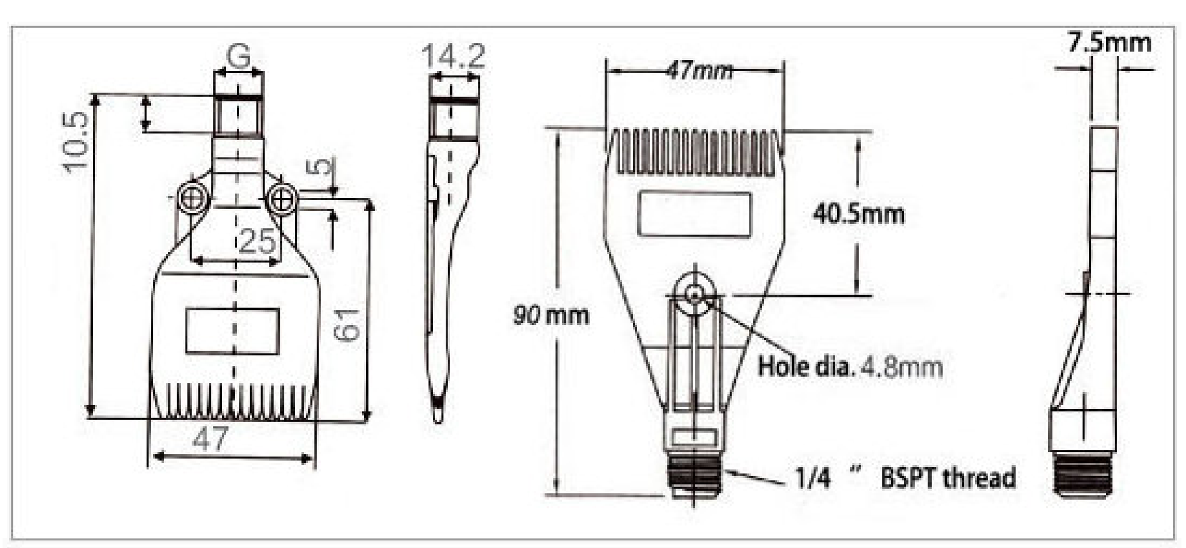
Common Application

- Cooling
- Drying
- Cleaning
- Moving material
- Direct paper

Order information

F1/4-ALMA	Aluminum alloy
F1/4-ABS	ABS

Product Size



Ekomaziva s.r.o. — SPJT Spiral nozzle

Design Feature

Spiral nozzle(SPJT)is a kind of full cone or hollow oone nozzle^spray angle range is 60°-170°.Liquid flow rate range is 5.5-4140 L/min.
This compact nozzle has design of smooth flow chanels which can minimize the block of liquid to make liquid reach max.flow in given size pipe.
Spiral nozzle can be installed or updated on most piping systemp.The available nozzle is NPT or BSPT(maJe)threaded type.Usually 1/4'-2"nozzle can separately use brass, 316 stainless steel casting,TEFLON.Other material can be used if they are applied to special fields.

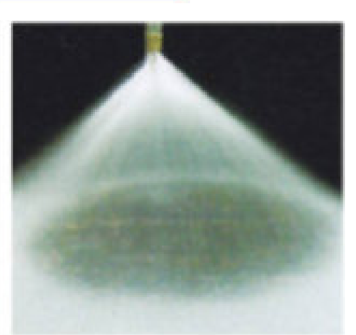
Performance Data

Thread size NPT or BSPT (male)	Spray angle (0.7 at 0.7bar)					Flow code	Spray hole Dia(mm)	Free flowing Dia.(mm)	Flow rate(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
	●	●	●	●	●	82	7.9	3.2	31	46	65	99	187
1/2	●	●	●	●	●	120	9.5	4.8	45	67	95	145	270
	●	●	●	●	●	164	11.1	4.8	62	92	129	198	370
3/4	●	●	●	●	●	210	12.7	4.8	80	117	166	255	480
1	●	●	●	●	●	340	15.9	6.4	130	190	270	410	775
	●	●	●	●	●	470	19.1	6.4	179	260	370	565	1070
1-1/2	●	●	●	●	●	640	22.2	7.9	245	355	505	770	1460
	●	●	●	●	●	820	25.4	7.9	310	455	645	990	1870
	●	●	●	●	●	960	28.6	7.9	365	535	755	1160	2190
2	●	●	●	●	●	1400	34.9	11.1	535	780	1105	1690	3190
	●	●	●	●	●	1780	38.1	11.1	680	995	1405	2150	4060
3	●	●	●			2560	44.5	14.3	980	1430	2020	3090	5830
	●	●	●			3360	50.8	14.3	1280	1880	2650	4050	7660
4	●	●	●			5250	63.5	15.9	2000	2930	4140	6330	11960

*Brass and casing 316 stainless steel should be used as materal when pressure is higher.

Spray Pattern

Full cone



Hollow cone

Order information

SPJT 14 — SS 120 07

Nozzle type | Pipe size | Material | Spray angle | Flow | Flow

Remark:
BRASS
SS- Stainless steel
316ss
Stainless steel
TEF-TEFLON
PP

Common Application

- Waste gas washing
- Gas cooling
- Washing and rinsing process
- Fire proof and extinguishment

Ekomaziva s.r.o. — QJJ/B Quick-connect nozzle

Design Feature

• QUICK CHANGE SPRAY TIPS

Quick-connect nozzle adopt new design.body and spray tip can be quickly detached without any tools, which reduce much maintenance time. There is a builtin link stopper inside spraytip which make sure to fix precise location when connecting with the body.It avoid wasting time to adjust by hand.

• RESISITANCE TO CHEMICAL CORROSION AND ABRASIVE WEAR

Quick-connect nozzle made by new design,adopt glass fiber reinforced polypropylene (fiber content:25%) and PVDF.Both have advantage of resistance ot chemical corrosion.

and abrasive wear. Glass fiber reinforced polypropylene max operating temperature is 82℃. PVDF si a high purity material, which nac kep highly purified processing enviroment and max operating temperature is 148℃.

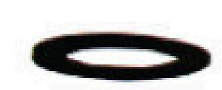
• WIDE OPTIONS OF FLOW RATE

The quick-connect nozzle has three size 1/8",1/4" and 3/4". The Nitrile rubber O ring can make sure absolute seal between body and spray tip. The spray tip can provide three types of spraying,Flat fan,full cone and hollow cone,with several flow rate and angle for your choices.

Plastic nozzle

Plastic spray tip

Seal ring

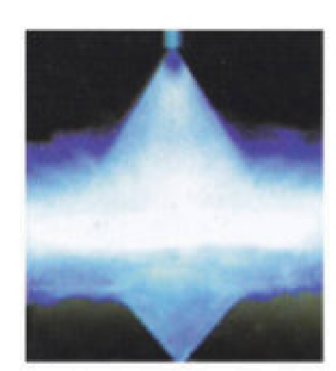


Seal ring

Nozzle body

Nozzle body

Quick-connect Flat Fan Tip

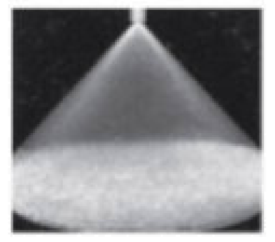


Style No. (spary angle at 3bar)					Flowrate(Liters/minute)								
50°	65°	80°	95°	110°	0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	14bar
QC5001	QC6501	QC8001	QC9501	QC11001	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.85
QC5002	QC6502	QC8002	QC9502	QC11002	0.25	0.45	0.64	0.79	0.91	1.0	1.1	1.2	1.7
QC5003	QC6503	QC68003	QC69503	QC611003	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
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

Ekomaziva s.r.o.

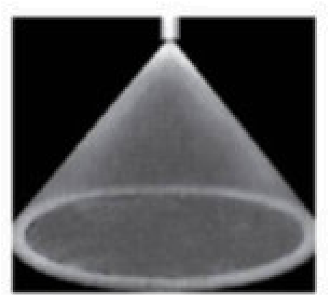
QJJ/B Quick-connect nozzle

Quick-connect Full Cone Tip



	Flow rate (liters/minute)										Spray angle		
Style No.	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°

Quick-connect Hollow Cone Nozzle



	Flow rate (liters/minute)										Spray angle		
Style No.	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

- Production of print circuit board
- Cleaning or rinsing
- Phosphating of metal components
- Cooling
- Humidifying
- Chemical manufacturing
- Dedusting, dust control

Nozzle body Model	Inter connector(inch)
QJJ 1/8	1/8
QJJ 1/4	1/4
QJJ 3/8	3/8
QJJB 1/4	1/4

Order information

Please note Nozzle body Model and spray tip style No.	
Nozzle body Model QJJ 1/4-PP	QJJ 1/4-PP
Spray tip style No. QB5-PP	QB5-PP

Ekomaziva s.r.o.

BB/CC/HAX/HBX One-piece nozzle

HAX

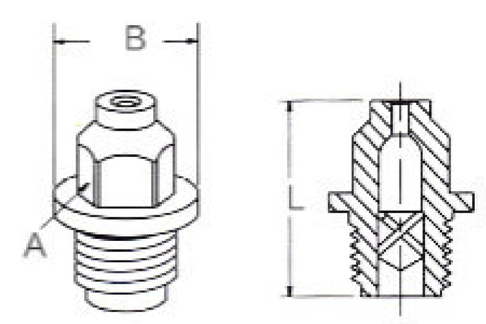
HBX

HAX and HBX style nozzle have big and clear inside flow pass,which minimizes the block inside.The design of tangent vortex brings the uniform atomized particles, hollow cone spray.

BB

CC

PVDF One-piece Full Cone Nozzle Size



Nozzle type	Nozzle inlet size	"A"Sexangle	"B" Dia	"C"Length
BB 1/8-KY	1/8"	9.5mm	15.9mm	22.2mm
BB 1/4-KY	1/4"	12.7mm	19.1mm	25.4mm
BB 3/8-KY	3/8"	12.7mm	19.1mm	26.2mm

Performance Data

			Flow rate (liters/minute)							Spray angle		
Inlet size	Flow code	Orifice Dia	0.7bar	1.5bar	2bar	3bar	4bar	6bar	7bar	0.7bar	1.5bar	6bar
1/8"	KY1.3	1.0mm	0.50	0.70	0.80	0.97	1.1	1.3	1.4	52°	65°	59°
	KY3	1.5mm	1.1	1.6	1.9	2.2	2.5	3.1	3.3	52°	65°	59°
	KY4	1.9mm	1.5	2.2	2.5	3.0	3.4	4.1	4.4	52°	65°	59°
	KY6	2.3mm	2.3	3.2	3.7	4.5	5.1	6.1	6.6	67°	75°	82°
1/4"	KY6	2.3mm	2.3	3.2	3.7	4.5	5.1	6.1	6.6	67°	75°	82°
	KY8	2.4mm	3.0	4.3	4.9	6.0	6.8	8.2	8.8	58°	70°	64°
3/8"	KY6	2.3mm	2.3	3.2	3.7	4.5	5.1	6.1	6.6	67°	75°	82°
	KY8	2.4mm	3.0	4.3	4.9	6.0	6.8	8.2	8.8	58°	70°	64°
	KY10	2.8mm	3.8	5.4	6.2	7.4	8.5	10.2	11.0	58°	70°	64°

Common Application

- Cleaning
- Etching
- Developing film

Order information

Nozzle type+Flow code

BB 1/8-KY1.3

One-piece nozzle

Performance Data

Flat Fan Spray

Spray angle at 3 bar							spray orifice Dia	Flow rate (L/min)										
40°	50°	65°	80°	95°	110°	120°		0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar
		6502	8002	9502	11002		0.91mm	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7
		6503	8003	9503	11003		1.1mm	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0
		6504	8004	9504	11004		1.3mm	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4
		6505	8005	9505	11005		1.4mm	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7
		6506	8006	9506	11006		1.6mm	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1
		6508	8008	9508	11008		1.8mm	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8

Flat Fan Spray

Spray angle at 3 bar							spray orifice Dia	Flow rate (L/min)										
40°	50°	65°	80°	95°	110°	120°		0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar
		6510	8010	9510	11010		2.0mm	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5
		6515	8015	9515	11015		2.4mm	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20
		6520	8020	9520	11020		2.8mm	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27
		6530	8030	9530	11030		3.6mm	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40
		6540						5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54
		6550						6.2	11.4	16.1	19.7	23	25	28	30	36	51	68

Order information

Nozzle type+Flow code

CC-H1/4U-KY6501 CCH1/4U-KY6501

CC-HB1/4U-KT6510 CC-HB1/4U-KY6510

Feature Of Nozzle With Ceramics Embeded In PVDF

High purity and intensity ceramics
embeded in PVDF
Long life time Spray angle:65° and 90°
Flow rate range:2.0-3.0L/min(at 3 bar)

Common Application

- PCB cleaning
- LCD plate cleaning
- The ash flushing

Material

- Inlay: Ceramic
- Shell: PVDF

Nozzle With Ceramics Embeded In PVDF

Style	Flow rate (L/min)								Spray angle(At 3 bar)
	0.05	0.1	0.2	0.3	0.4	0.6	0.8	1.0	
YB 1/4P MVD FVP-6520I	0.8	1.2	1.6	2.0	2.3	2.8	3.3	3.7	65°
YB 1/4P MVD FVP-6530I	1.2	1.7	2.4	3.0	3.5	4.2	4.9	5.5	
YB 1/4P MVD FVP-9020I	0.8	1.2	1.6	2.0	2.3	2.8	3.3	3.7	90°
YB 1/4P MVD FVP-9030I	1.2	1.7	2.4	3.0	3.5	4.2	4.9	5.5	

Strong cold/hot air nozzle

Ekomaziva s.r.o.

Strong cold/hot nozzle

Design Feature

QH adjustable hot air shower nozzle | QH fixed hot air shower nozzle

QY beveled hot air shower nozzle | BQ adjustable cold air shower nozzle

QH series circulation strong hot nozzles are made by special process of mechanical stretching long necked bell-mouth opening and adjustable base. The flow of hot air spread around quickly to function as hot air circulation and stirring air.Ifs ideal nozzle for the tunnel continuous lines,larger workpiece drying,local air supply and purification.

The material can be 304 stainless steel plate, galvanized plate,aluminized Steel plate.aluminum plate,electrolytic plate etc.

BQ adjustable cool air shower nozzle is composed of openingjnner base,outer base and fixed flange. There is seal strip between two bases and fixed nozzle position for sealing and noise reduction.According to the theory that under fix air pressure,the air speed is bigger,while the nozzle hole cross-sectional area is smaller(V=F/SF is air speed,and S is cross-sectional area).

The decreasing of air inlet and outlet speed up,which gets the nozzle called "Strong cool air nozzle" .Material is press forming metal galvanized sheet, aluminized Steel Sheet,aluminum sheet.electro-Galvanized Steel. At special demands.the material is by forming and polishing process.

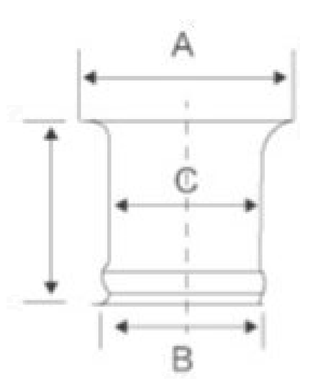
Hot/cold Air Shower Nozzle Performance Data

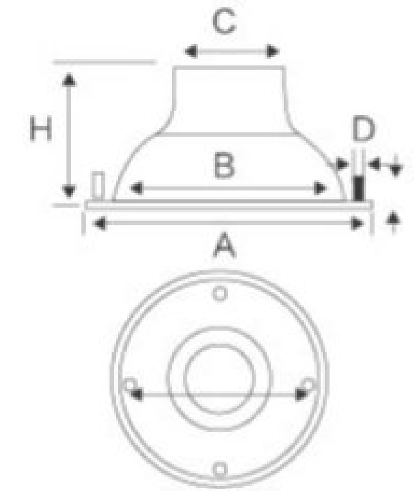
Model Spec.		BQ-40	BQ-50	BQ-60	BQ-70	QH-70	QH-100
effective area		0.00126	0.00196	0.00331	0.00385	0.00385	0.0085
Air volume m³/h	V=2m/h	9	14	24	28	27	58
	V=3m/h	14	21	36	40	42	92
	V=4m/h	18	28	48	55	56	123
	V=5m/h	23	35	60	69	70	154
	V=6m/h	27	42	72	83	84	184
	V=7m/h	32	49	84	97	98	215
Dimenskj)n(mm)	A	Φ143	Φ143	Φ143	Φ143	Φ115	Φ165
	B	Φ110	Φ110	Φ110	Φ110	Φ100	Φ156
	C	Φ40	Φ40	Φ40	Φ40	Φ70	Φ100
	H	Φ85	Φ85	Φ85	Φ85	100	145
	N	3	3	3	3	-	-
	Φ	M5	M5	M5	M5	115	Φ145

Order information

QH + 70 — AL

Nozzle type | Spray hole Dia. | Material



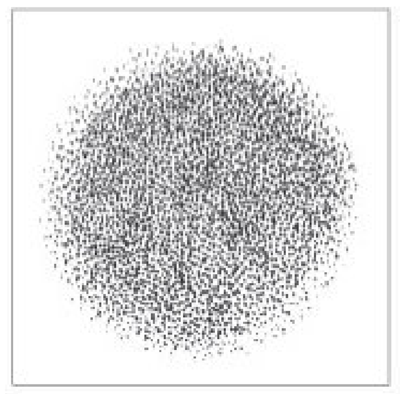


Ekomaziva s.r.o.

Full Cone Nozzle-round Spray Area

			
G	**GG**	**H**	**BB**
Detachable cap and vane	Detachable cap and vane	BSPT: one-piece	BSPT: one-piece
1/8"-1/2" NPT or BSPT(female)	1/8"-1/2"- NPT or BSPT(male)	3/4"- 1" NPT or BSPT(female)	1/8"-1" NPT or BSPT(male)

Design Feature



Standard fulljet nozzle can generate full cone spray. The spray area is round.Spray angle is 43°-106°.

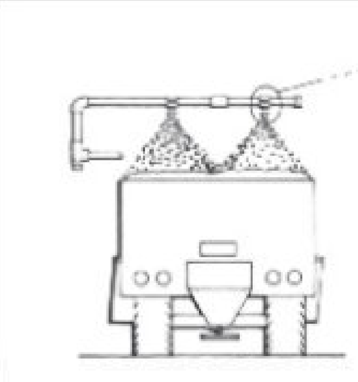
Fulljet nozzle can spray uniformly, droplets are from medium to big.This well distributed spray benefits from distinct vane design, big and clear channel, excellent control feature.

Fulljet nozzle made as precise dimension,which assure accurate and reliable performance.

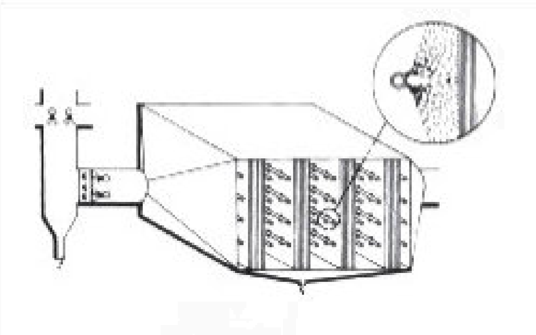
G and GG series have detachable cap and vane,can match both headers and multibranch pipe.This design makes it possible that the cap and vane can be detached from nozzle to be maintained and cleaned,instead of nozzle body. The vane of H series standard nozzle(size is more than 1") is fixed by positioning screw, which is easy to be detached. HH series standard nozzle's vane is not detachble.

Common Application

- Washing and rinsing
- Quenching and cooling
- Control dust
- Waste gas washing and cooling
- Defoaming
- The generation and elimination of the droplets in the process of chemical reaction.



Dust control



Air washer

Order information

Standard nozzle

G — 1/4 — SS 10

Nozzle type | Inlet pipe connector size | Material code | Flow

Performance Data

Inlet connector NPT or BSPT	Nozzle type										The Flow code	Rated orifice Dia (mm)	Max expedite Dia (mm)	Flow rate (L/min)										Spray angle		
	Standard					For wall installation			Angular type																	
	(F) Connector		(M) Connector		*	(F) Connector*		(M) Connector	(F) Connector	(M) Connector																
	G	H	GG	HH	HF	GD	HD	GGD	GA	GGA				0.5 bar	0.7 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	●		●			●		●			1	0.79	0.64		0.38	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.3		58°	53°
	●		●								1.5	1.2	0.64	0.49	0.57	0.81	0.93	1.1	1.3	1.4	1.5	1.7	1.9	52°	65°	59°
	●		●			●		●	●	●	2	1.2	1.0	0.65	0.76	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
	●		●			●		●	●	●	3	1.5	1.0	0.98	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
	●		●			●		●	●	●	3.5	1.6	1.3	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
									●	●	3.9	2.0	1.0	1.3	1.5	2.1	2.4	2.9	3.3	3.7	4.0	4.3	5.1	77°	84°	79°
	●		●			●		●	●	●	5	2.0	1.3	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	65°	59°
									●	●	6.1	2.3	1.3	2.0	2.3	3.3	3.8	4.5	5.2	5.7	6.2	6.7	7.9	69°	74°	68°
1/4	●		●			●		●	●	●	6.5	2.38	1.6	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
	●		●	●		●		●	●	●	10	3.18	1.6	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°
				●					●	●	12.5	3.2	1.6	4.1	4.8	6.8	7.7	9.3	10.6	11.8	12.8	13.7	16.2	69°	74°	68°
3/8	●		●			●		●	●	●	9.5	2.6	2.4	3.1	3.6	5.1	5.9	7.1	8.1	8.9	9.7	10.4	12.3	45°	50°	46°
	●		●	●		●		●	●	●	15	3.6	2.4	4.9	5.7	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	64°	67°	61°
				●					●	●	20	4.0	2.8	6.5	7.6	10.8	12.4	14.9	17.0	18.8	20	22	26	76°	80°	73°
	●		●						●	●	22	4.5	2.8	7.2	8.4	11.9	13.6	16.4	18.7	21	23	24	28	87°	90°	82°
1/2	●		●	●		●		●	●	●	16	3.5	3.2	5.2	6.1	8.7	9.9	11.9	13.6	15.1	16.4	17.6	21	48°	50°	46°
	●		●			●		●	●	●	25	4.6	3.2	8.2	9.5	13.5	15.4	18.6	21	24	26	27	32	64°	67°	61°
	●		●	●					●	●	32	5.2	3.6	10.4	12.2	17.3	19.8	24	27	30	33	35	41	72°	75°	68°
	●		●						●	●	40	6.2	3.6	13.1	15.2	22	25	30	34	38	41	44	52	88°	91°	83°
				●					●	●	50	6.7	4.0	16.3	19.1	27	31	37	42	47	51	55	65	91°	94°	86°
3/4											2.5	4.9	4.4	9.6	11.2	15.9	18.2	22	25	28	30	32	38	48°	50°	46°
		●		●							4	6.4	4.4	15.4	18.0	26	29	35	40	44	48	52	61	67°	70°	63°
		●		●			●				7	9.5	5.2	27	31	45	51	61	70	78	84	91	107	89°	92°	84°
1		●		●			●				4.2	6.0	5.6	16.2	18.9	27	31	37	42	47	51	54	64	48°	50°	46°
		●		●							7	8.3	5.6	27	31	45	51	61	70	78	84	91	107	67°	68°	62°
		●		●			●				8	9.5	5.6	31	36	51	58	70	80	89	97	104	122	72°	81°	82°
		●		●			●				10	11.9	5.6	38	45	64	73	88	100	111	121	130	153	78°	90°	94°
1-1/4		●		●							12	11.9	6.4	46	54	77	87	105	120	133	145	155	183	89°	92°	84°
		●		●							6	7.4	6.4	23	27	38	44	53	60	67	72	78	92	48°	50°	44°
		●									10	9.6	6.4	38	45	64	73	88	100	111	121	130	153	64°	67°	58°
		●									12	10.7	6.4	46	54	77	87	105	120	133	145	155	183	66°	70°	60°
		●					●				14	12.3	6.4	54	63	89	102	123	140	155	169	181	215	77°	80°	70°
1-1/2		●					●				20	15.1	7.9	77	90	128	146	175	200	220	240	260	305	90°	93°	81°
		●									10	9.5	8.7	38	45	64	73	88	100	111	121	130	153	48°	50°	44°
		●									16	12.7	8.7	62	72	102	116	140	160	178	193	210	245	72°	74°	64°
		●									20	14.3	8.7	77	90	128	146	175	200	220	240	260	305	74°	76°	66°
		●					●				30	18.3	10.3	115	135	191	220	265	300	330	360	390	460	91°	94°	82°
2		●					●				17	12.7	11.1	65	76	108	124	149	170	189	205	220	260	49°	50°	44°
		●									30	17.3	11.1	115	135	191	220	265	300	330	360	390	460	72°	74°	64°
		●									35	19.2	11.1	135	157	225	255	310	350	390	425	455	540	75°	77°	68°
		●					●				40	21.0	11.1	154	180	255	295	350	400	445	485	520	610	78°	80°	70°
		●					●				50	23.8	14.3	192	225	320	365	440	500	560	610	650	770	83°	85°	75°
		●					●				60	28.6	14.3	230	270	385	440	530	600	670	730	780	920	98°	100°	86°

G-SQ

Detachable cap and vane

1/8" -1/2" NPT or BSPT(female)

GG-SQ

Detachable cap and vane

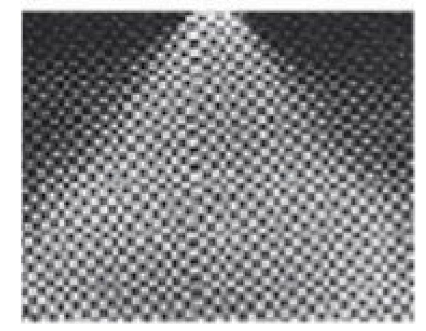
1/8" -1/2" NPT or BSPT(male)

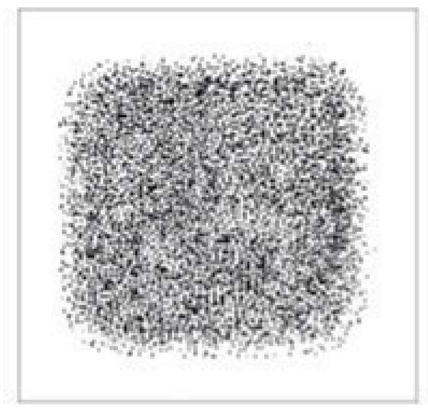
HH6Q

Whole

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

Design Feature

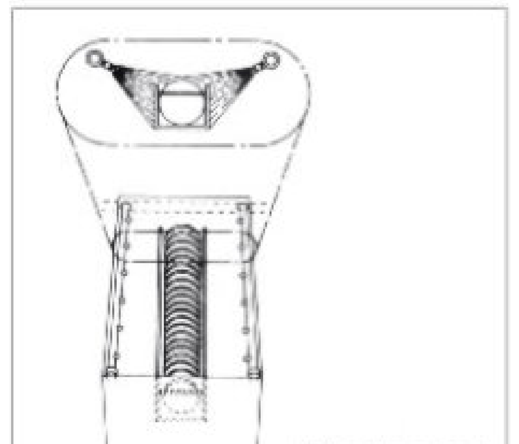




The feature about square spray nozzle is that it generates full cone spray.the spraying area is square.Spray angle is 40° - 105° Full jet square spray nozzle can spray uniformly, roplets are from medium to big under big range of pressure and flow rate. This well distributed spray benefits from distinct vane desig"big and clear and excellent control features.This kind of nozzle is suitable to be installed at the rectangle area that needs to be completely covered by spray. G-SQ and GG-SQ series square spray nozzle have detachable cap and vane, so there is no need to remove nozzle body from header or multibranch pipe in maintenance.

Common Application

- Washing and cleaning
- Quenching and cooling
- Control dust
- Air and gas washing
- Scrubbing
- Fire-extinguishing
- Fireproof



Rinsing pool

Attachment

Splice bore connector

Adjustable ball connector

Ekomaziva s.r.o.

Full Cone Nozzle-Square Spray Area

Performance Data

BSPT Inlet connected NPT or BSPT	Nozzle type (F) Connector G	H	(M) Connector GG	HH	The Flow	Rated orifice Dia(mm)	Max expedite Dia(mm)	Flow rate(L/min) 0.3bar	0.5bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	Spray angle 0.5bar	1.5bar	6bar
1/8	●		●	●	3.6SQ	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°
				●	4.8SQ	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°
	●		●	●	6SQ	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	●		●	●	10SQ	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°
	●		●	●	12SQ	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°
				●	14.5SQ	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	●		●	●	18SQ	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°
1/2	●		●	●	29SQ	5.6	3.2	7.5	9.5	13.0	17.9	22	25	27	30	32	38	71°	75°	68°
				●	36SQ	6.4	3.2	9.3	11.8	16.2	22	27	31	34	37	40	47	78°	82°	75°
3/4				●	50SQ	6.7	4.4	12.9	16.3	22	31	37	42	47	51	55	65	71°	75°	68°
1		●			106SQ	9.9	5.6	27	35	48	65	79	90	100	109	117	137	78°	80°	73°
1-1/4		●			177SQ	12.7	6.4	46	58	79	109	132	150	167	181	195	230	78°	80°	73°
1-1/2		●			230SQ	14.3	8.7	59	75	103	142	171	195	220	235	255	300	73°	77°	70°
2		●			290SQ	15.5	11.1	75	95	130	179	215	250	275	300	320	375	66°	70°	64°
		●			360SQ	17.4	11.1	93	118	162	225	270	305	340	370	395	470	70°	74°	67°
		●			480SQ	21.0	11.1	124	157	215	300	360	410	455	495	530	630	79°	82°	74°
2-1/2		●			490SQ	19.8	14.3	126	160	220	305	365	420	465	510	540	640	62°	67°	61°
		●			590SQ	22.2	14.3	152	193	265	365	440	510	560	610	650	770	75°	78°	71°
		●			950SQ	28.6	17.5	245	310	430	590	710	810	900	980	1050	1230	81°	84°	76°
5		●			2980SQ	47.6	28.6	770	980	1340	1840	2220	2540	2810	3060	3280	3860	89°	91°	83°
6		●			5690SQ	81.8	44.5	1470	1860	2560	3520	4240	4840	5360	5830	6260	7370	102°	105°	95°

G	H	GG	HH	Material
●	●	●	●	**BRASS**
●	●	●	●	**I** = Soft stainless steel
●		●	●	**SS** = 303 Stainless steel(bar)
	●			**SS** = 316 Stainless steel(Die-casting)
●		●	●	**316SS** = 316 Stainless steel(bar)
			●	**PVC**

Order information

Standard spray nozzle

G — 1/4 — SS — 12SQ

Nozzle type | Inlet pipe connector size | Material code | Flow

Ekomaziva s.r.o.

Full Cone Nozzle-Narrow angle 15°series

G15

Detachable cap and vane

1/8"-1/2 NPT or BSPT(female)

GG15

Detachable cap and vane

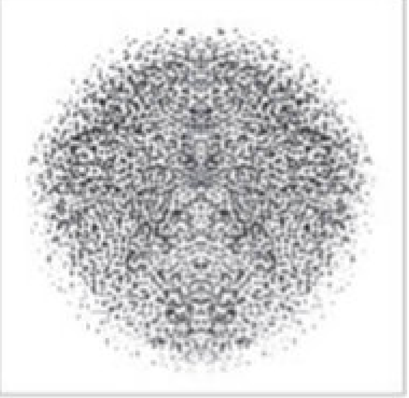
1/8" T/2 NPT or BSPT(male)

H15

Whole

3/4"—2-1/2" NPT or BSPT(Female)

Design Feature



The feature about square narrow angle spray nozzle is that it generates full cone spray, the spraying area is round. Narrow angle series generate well distributed and coarser particles spray. 15 ° series have more of this feature. Impact force on unit area is distinctly larger than that on wider angle full jet nozzle under same flow rate. G and GG series nozzle have detachable cap and vane. H and HH narrow angle series nozzle have detachable vane. 1/8" -1-1/4 " nozzles are made by stainless steel bar,while 1-1/2 " or bigger nozzles are made through moulding or casting.Full jet nozzle is made through fine craftsmanship and this assure perfect perfomance. This well distributed spray benefits from distinct vane design,big and clear and excellent control features.

Performance Data

BSPT Inlet connector NPT or BSPT	Nozzle type (F) Connector G	H	(M) Connector GG	The Flow	Rated orifice Dia(mm)	Flow rate(L/min) 0.7bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	Spray angle 0.7bar	3bar	7bar
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	13°	15°	15°
1/2	●		●	1590	5.6	17.2	25	29	36	41	46	50	54	65	92	13°	15°	15°
3/4		●		15150	7.5	29	42	48	59	68	76	84	90	108	153	13°	15°	15°
1		●		15280	9.9	53	78	90	111	128	143	156	169	200	285	13°	15°	15°
1-1/4		●		15430	12.3	82	120	139	170	196	220	240	260	310	440	14°	15°	15°
1-1/2		●		15630	15.1	120	176	205	250	290	320	350	380	455	640	14°	15°	15°
2		●		151150	20.2	220	320	370	455	530	590	640	700	830	1170	14°	15°	15°
2-1/2		●		151750	24.6	335	490	570	690	800	890	980	1060	1260	1780	14°	15°	15°

Common Application

- Washing and cleaning
- Cooling
- Cooling and cleaning pipe through spraying the inner side of pipe

Order information / Attachment

Standard nozzle

G — 1/4 — SS — 1530

Nozzle type | Inlet pipe connector size | Material code | Flow

Splice bore connector

Adjustable ball connector

Ekomaziva s.r.o.

Full Cone Nozzle Narrow Angle 30°series

G30

Detachable cap and vane

1/8" -3/4" NPT or BSPT(female)

GG30

Detachable cap and vane

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

HH30

Whole

1" -2-1/2" NPT or BSPT(male)

Performance Data

BSPT Inlet connector NPT or BSPT	Nozzle type (F) Connector		Nozzle type (M) Connector	The Flow	Rated orifice Dia(mm)	Flow rate (L/min)										Spray angle		
	G	GG	HH			1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	15bar	20bar	0.5bar	1.5bar	6bar
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°
1			●	**3070**	5.2	16.0	23	28	32	36	39	42	50	62	71	27°	30°	30°
			●	**30100**	6.4	23	32	39	46	51	56	60	72	88	102	27°	30°	30°
1-1/4			●	**30150**	7.5	34	48	59	68	76	84	90	108	132	153	27°	30°	30°
			●	**30200**	8.7	46	64	79	91	102	112	121	144	177	205	27°	30°	30°
1-1/2			●	**30250**	9.5	57	81	99	114	127	140	151	180	220	255	27°	30°	30°
			●	**30300**	10.3	68	97	118	137	153	167	181	220	265	305	27°	30°	30°
2			●	**30350**	11.1	80	113	138	160	178	195	215	255	310	360	28°	30°	30°
			●	**30400**	11.9	91	129	158	182	205	225	245	290	355	410	28°	30°	30°
			●	**30500**	13.5	114	161	197	230	255	280	305	360	445	510	28°	30°	30°
2-1/2			●	**30600**	14.7	137	193	235	275	305	335	365	435	530	620	28°	30°	30°
			●	**30700**	15.9	160	225	280	320	360	390	425	510	620	720	28°	30°	30°
			●	**301000**	19.1	230	325	395	455	510	560	610	720	890	1020	28°	30°	30°
			●	**301100**	19.8	250	355	435	510	560	620	670	800	970	1120	28°	30°	30°
			●	**301200**	20.6	275	390	475	550	620	670	730	870	1060	1230	28°	30°	30°

Material

Brass

303

stainless steel=303SS

316

stainless steel=316SS

Attachment

Splice bore connector

Adjustable ball connector

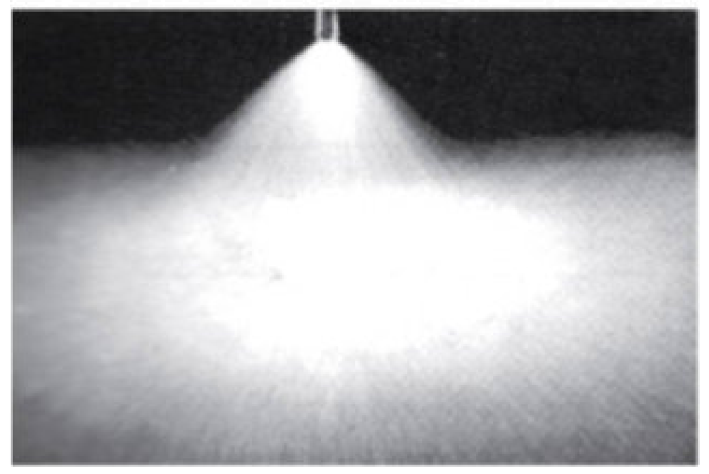
Order information

Standard spray nozzle

GG	1/2	SS	3030
Nozzle type	Inlet pipe connector size	Material code	Flow

Ekomaziva s.r.o.

SMP Full Cone Nozzle



SMP Full Cone Nozzle

Application Area: Chemical industry.petroleum,power station,environmental protection,smoke washing, dedusting, cooling,spraying

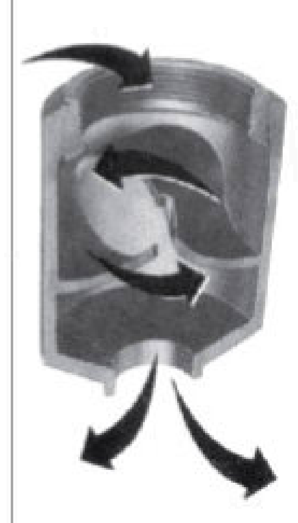
SMP

120° SMP

120° SMP nozzle picture

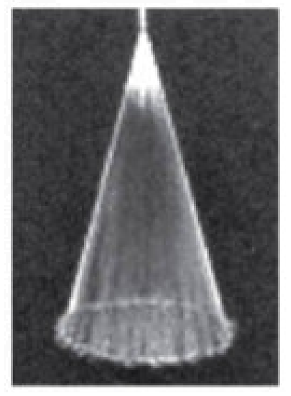
Design Feature

- Integral sturcture Two inner S vanes make max.unblocked access,and becomes Integral mould with nozzle body.The advantage to use this structure is: at same flow rate, SMP nozzle can allow particle 3 times dia.more than normal full cone nozzle.
- The unique design avoid the usual blocking problem quite a lot under bad working condition,it especially fits for spraying seriflux which contains much grain impurity,and conveys dreggy liquid easily, like lime slurry.
- It sprays effecticety at 0.2bar.Inner channels are streamline,whcih makes fluid smooth,no dead corner and clogging,and the liquid atomization pressure is reduced effectively.
- S shape guide vane avoid layered spraying.the spraying is uniform and comprehensive.
- There are male amd female connection,from 3/8" to 4" .And flanged connection is also available.
- The choice of material：brass, 303 stainless steel, 316 stainless steel, Teflon and PP.
- Spraying angle：30°, 60°,90° and 120°.
- Flow rate is from 2.45L/min to 3400L/min,and can reach 17000L/min as required.

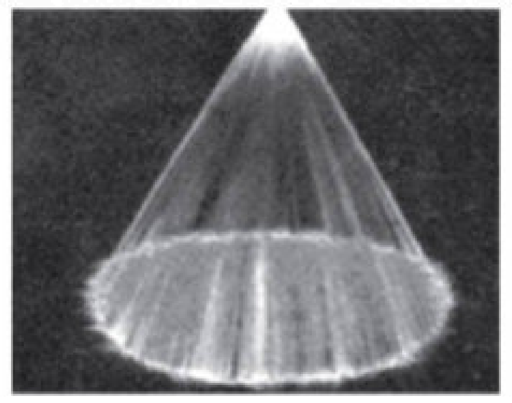


From the SMP transverse picture,2 S-vane structure can be seen This structure can convey seriflux which contains much grain impurity easily without blocking.

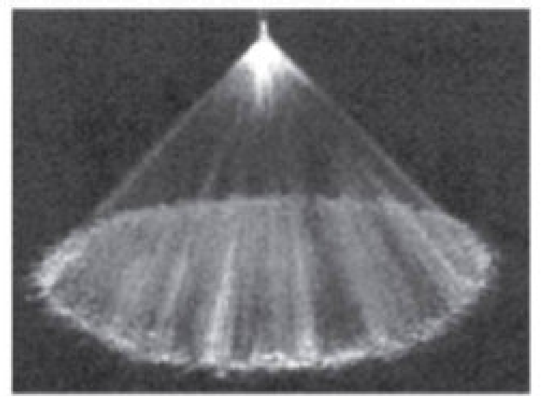
Spray Sketch



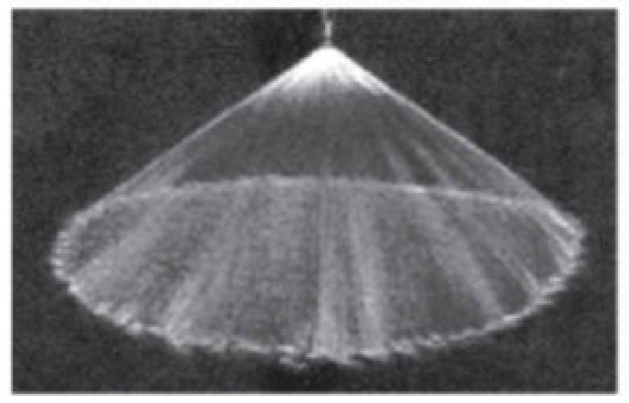
Full cone 30°



Full cone 60°



Full cone 90°



Full cone 120°

Performance Data

Flange dia	Nozzle No.	Flow rate L/min - Pressure bar								Open dia (mm)
		0,2bar	0.3bar	0.5bar	0.7bar	1.0bar	2.0bar	3.0bar	5.0bar	
3/8	SMP125	2.60	3.14	3.99	4.68	5.53	7.66	9.27	11.8	3.18
	SMP156	4.13	4.99	6.35	7.43	8.79	12.2	14.7	18.7	3.97
	SMP187	5.96	7.21	9.17	10.7	12.7	17.6	21.3	27.1	4.76
1/2	SMP187	5.96	7.21	9.17	10.7	12.7	17.6	21.3	27.1	4.76
	SMP218	9.48	11.5	14.6	17.1	20.2	28.0	33.9	43.0	5.56
	SMP250	10.7	12.9	16.4	19.2	22.7	31.4	38.0	48.4	6.35
3/4	SMP281	13.1	15.8	20.1	23.6	27.9	38.6	46.8	59.4	7.14
	SMP312	15.9	19.2	24.4	28.6	33.8	46.8	56.6	72.0	7.94
	SMP343	19.4	23.5	29.9	35.0	41.4	57.3	69.4	88.2	8.73
	SMP375	22.9	27.7	35.2	41.3	48.8	67.6	81.8	104	9.53
1	SMP375	22.9	27.7	35.2	41.3	48.8	67.6	81.8	104	9.53
	SMP406	27.6	33.3	42.3	49.3	58.6	81.1	98.1	126	10.3
	SMP437	34.0	40.6	50.9	59.0	69.0	93.6	112	140	11.1
1-1/4	SMP437	34.0	40.6	50.9	59.0	69.0	93.6	112	140	11.1
	SMP500	43.7	52.2	65.4	75.8	88.7	120	144	180	11.1
	SMP531	48.5	58.0	72.7	84.2	98.6	134	160	200	12.7
	SMP562	53.4	63.8	79.9	92.7	108	147	176	220	13.5
1-1/2	SMP562	53.4	63.8	79.9	92.7	108	147	176	220	14.3
	SMP593	60.7	72.5	90.9	105	123	167	200	250	15.1
	SMP625	64.7	77.4	96.9	112	131	178	213	267	15.9
	SMP656	78.5	93.5	117	136	159	216	258	324	16.7
	SMP687	82.5	98.7	124	143	168	227	272	340	17.5
2	SMP750	100	120	150	174	204	276	333	414	19.1
	SMP812	110	132	165	191	223	303	362	454	20.6
	SMP875	136	162	203	236	276	374	448	560	22.2
	SMP937	152	182	228	264	309	419	501	627	23.8
	SMP1000	178	213	266	309	361	490	586	734	25.4
	SMP1125	206	249	317	371	439	608	736	935	28.6
2-1/2	SMP1125	206	249	317	371	439	608	736	935	28.6
	SMP1250	247	299	381	446	527	730	883	1120	31.8
	SMP1375	297	359	456	535	632	875	1060	1350	34.9
	SMP1500	363	440	559	655	774	1070	1230	1650	38.1
3	SMP1500	363	440	559	655	774	1070	1230	1650	38.1
	SMP1625	428	517	658	770	911	1260	1530	1940	41.3
	SMP1750	488	591	751	880	1040	1440	1740	2220	44.5
4	SMP1750	488	591	751	880	1040	1440	1740	2220	44.5
	SMP1825	550	660	845	990	1170	1620	1960	2490	47.6
	SMP2000	643	778	989	1160	1370	1900	2300	2920	50.8
	SMP2125	719	870	1100	1290	1530	2100	2550	3250	54.0
	SMP2250	780	944	1200	1400	1660	2300	2780	3540	57.2

Common Application

- Quick cooling of high-temperature flue gas
- Flue gas washing
- Flue gas dust removal
- Wet desulphurization
- Fire protection or extinguishment
- Leaching tower
- Coke quenching
- Washing and bleaching
- Chemical tower spraying
- Cooling water and fractionating tower spraying
- Defoaming

Order information

ZG	4	SMP2000	120	316L
Connecting standard	Connecting size	Nozzle No.	Spray angle	Material

Connecting standard:

Z: US taper pipe thread (NPT)
ZG: British taper pipe thread (BSPT) —— Recommend
FL: Flange connection (Above 2")

Material:

316L: 316 Stainless steel
BRASS: BRASS
PP: Polypropylene
TEF: Teflon

Note : SMP nozzle' s connection defaults to internal thread connection. If outer thread connection is needed, please note specially.

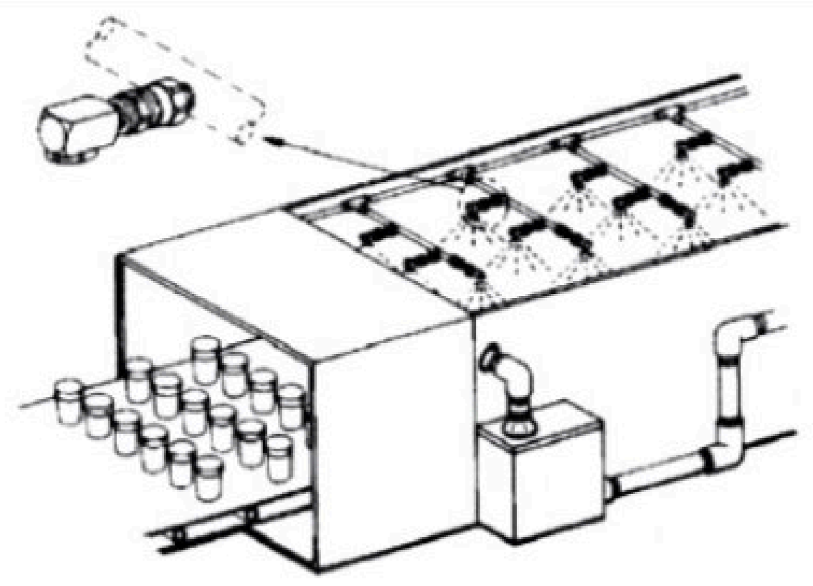
GA/GGA Full cone nozzle-Corner type

GA

Detachable cap,female thread

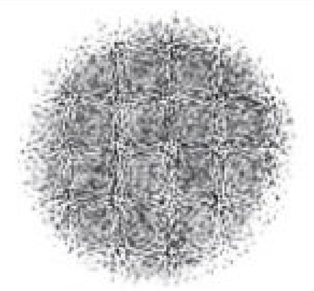
GGA

Detachable cap,male thread



Spray cooling sketch

Design Feature



Spray shape is round full cone

- Corner type spray design
- Spray shape is round full cone
- The spray effect is same as universal full cone nozzle
- Very stuitable for Sprinker pipe with side hole
- Spray angle have standard angle and wide angle

Recommended Accessories

Connector

Can replace threded weld base,with leakproof joint ring

Adjustable ball connector

Adjustable position in all direction,easy to control the spray angle

Common Application

- Cleaning
- Cooling
- Coating
- Spraying
- Dusting

Order information

GA	1/4 —	SS	10W
Nozzle type	Connect size	Matercial code	Flow code

SS : 303 stainless steel

316SS : 316stainless steel

BRASS:

GA/GGA Full cone nozzle-Corner type

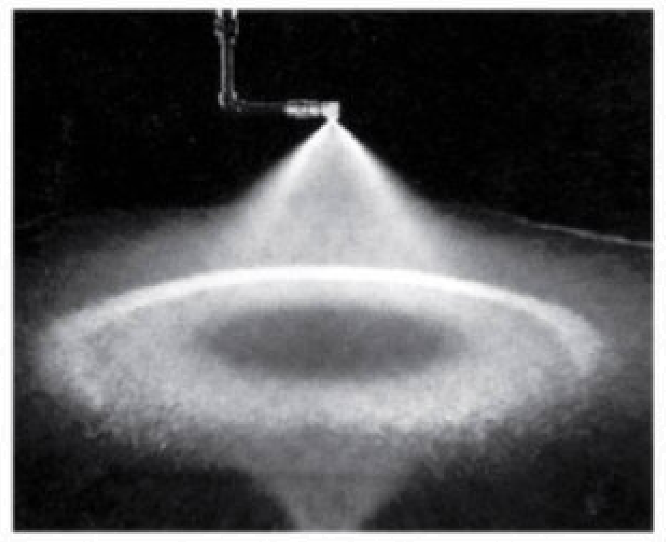
Performance Data

Standard Angle

Inlet Connector Size	Nozzle type (F)connector	Nozzle type (M)connector	Flow code	Rated spray hole Dia (mm)	Max expedite Dia(mm)	Ftow rate L/min @ Pressure bar										Spray angle		
	GA	GGA				0.5bar	0.7bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	0.5bar	1.5bar	6bar
1/8	●	●	1	0.79	0.64		0.38	0.54	0.62	0.74	0.85	0.94	1.0	1.1	1.3		58°	53°
	●	●	1.5	1.2	0.64	0.49	0.57	0.81	0.93	1.1	1.3	1.4	1.5	1.7	1.9	52°	65°	59°
	●	●	2	1.2	1.0	0.65	0.76	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
	●	●	3	1.5	1.0	0.98	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
	●	●	3.5	1.6	1.3	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
	●	●	3.9	2.0	1.0	1.3	1.5	2.1	2.4	2.9	3.3	3.7	4.0	4.3	5.1	77°	84°	79°
	●	●	5	2.0	1.3	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	65°	59°
1/4	●	●	6.5	2.38	1.6	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
	●	●	10	3.18	1.6	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°
3/8	●	●	9.5	2.6	2.4	3.1	3.6	5.1	5.9	7.1	8.1	8.9	9.7	10.4	12.3	45°	50°	46°
	●	●	15	3.6	2.4	4.9	5.7	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	64°	67°	61°
	●	●	20	4.0	2.8	6.5	7.6	10.8	12.4	14.9	17.0	18.8	20	22	26	76°	80°	73°
	●	●	22	4.5	2.8	7.2	8.4	11.9	13.6	16.4	18.7	21	23	24	28	87°	90°	82°
1/2	●	●	16	3.5	3.2	5.2	6.1	8.7	9.9	11.9	13.6	15.1	16.4	17.6	21	48°	50°	46°
	●	●	25	4.6	3.2	8.2	9.5	13.5	15.4	18.6	21	24	26	27	32	64°	67°	61°
	●	●	32	5.2	3.6	10.4	12.2	17.3	19.8	24	27	30	33	35	41	72°	75°	68°
	●	●	40	6.2	3.6	13.1	15.2	22	25	30	34	38	41	44	52	88°	91°	83°

Wide Angle

Inlet Connector size	Flow code	Nozzle Type		Rated spray hole Dia (mm)	Max clear Dia(mm)	Flow rate L/min @ Pressure bar									Spray angle		
		GA	GGA			0.3bar	0.5bar	0.7bar	1bar	2bar	3bar	4bar	5bar	6bar	0.3bar	0.7bar	6bar
1/8	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	3.6	4.8	5.8	6.6	7.2		120°	103°
1/4	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	9.8	10.9	11.8	114°	120°	103°
	14W	●	●	3.6	1.6	3.7	4.6	5.3	6.2	8.5	10.1	11.5	12.7	13.7	114°	120°	103°
3/8	20W	●	●	4.4	2.4	5.2	6.6	7.6	8.9	12.1	14.5	16.5	18.1	19.6	114°	120°	104°
	24W	●	●	4.8	2.4	6.3	7.9	9.1	10.7	14.5	17.3	19.7	22	24	114°	120°	104°
	27W	●	●	5.2	2.8	7.1	8.9	10.3	12.0	16.3	19.5	22	24	26	114°	120°	106°
1/2	35W	●	●	6.0	3.2	9.2	11.5	13.3	15.6	21	25	29	32	34	114°	120°	108°
	40W	●	●	6.4	3.2	10.5	13.1	15.2	17.8	24	29	33	36	39	114°	120°	108°
	45W	●	●	6.4	3.6	11.8	14.8	17.1	20	27	33	37	41	44	114°	120°	110°
	50W	●	●	6.7	4.0	13.1	16.4	19.1	22	30	36	41	45	49	114°	120°	112°

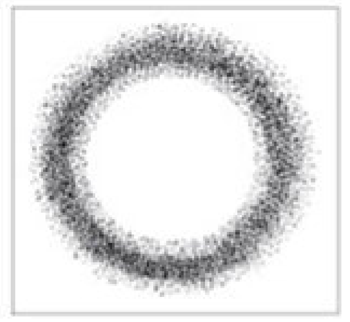


Mediun And Low Flow Rate Hollow Cone Nozzle—A/AA Series

Applicable industries:

Papermaking environmental protection, Air conditioning

humidification.gas cooling and defoaming.etc^

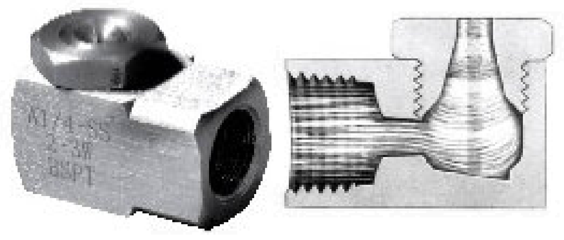


WHF Design Feature

- Spray shape is hollow cone,spray area become hollow circle.
- Spray granule is tiny and well-distributed.
- Water enter in from entry,vertically spray out through eddy flow channeLwithocrt any jam internally,So nozzle is difficult to be blocked.
- Nozzle cap is able to be detached.
- There is two choices Standard angle and wide angle.

A

Female connect , medium and small flow



AA

Male connect, medium and small flow

Common Application

- Defoaming
- Smoke washing
- Conditioning humidification
- Spray starch
- Gas cooling
- Dedusting
- Chemical treatment
- Cleaning

Recommended Accessories

Connector

Can replace threded weld base,with leakproof joint ring

Adjustable ball connector

Adjustable position in all direction,easy to control the spray angle

Order information

A	1/4 —	SS	10
Nozzle type	Connect Dia	Matercal code	Flow rate code

Ekomaziva s.r.o.

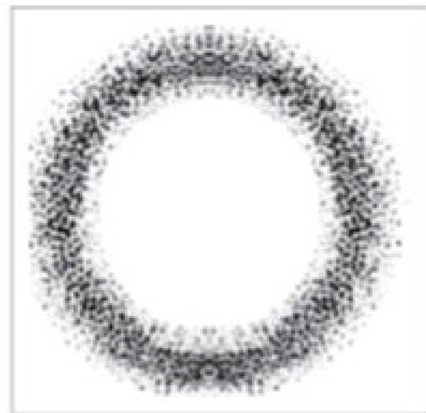
Performance Data

Standard Angle

Inlet Connector	Flow	Nozzle Type		Material code			Main inlet Dia(mm)	Rated spray hole Dia (mm)	Flow rate (L/min)										Spray angle		
		AA	A	BRASS	SS	316SS			0.2bar	0.5bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
1/8	0.5	●	●	●	●	●	0.79	1.2		0.16	0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.60		58°	69°
	1	●	●	●	●	●	1.6	1.6		0.32	0.46	0.56	0.61	0.79	0.91	1.1	1.1	1.2		64°	76°
	2	●	●	●	●	●	2.0	2.0		0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	52°	61°	69°
	3	●	●	●	●	●	2.4	2.4		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	52°	64°	77°
	5	●	●	●	●	●	3.2	3.2	1.0	1.6	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	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	56°	65°	70°
	10	●	●	●	●	●	4.4	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	55°	65°	72°
1/4	1	●	●	●	●	●	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2		53°	67°
	2	●	●	●	●	●	2.0	2.0		0.64	0.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4		62°	71°
	3	●	●	●	●	●	2.4	2.4		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	51°	65°	78°
	5	●	●	●	●	●	3.6	3.6	1.0	1.6	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	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	61°	69°	73°
	10	●	●	●	●	●	4.8	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	63°	70°	74°
	15	●	●	●	●	●	5.9	5.2	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.1	16.7	18.1	63°	71°	72°
3/8	5	●	●	●	●	●	3.6	3.2	1.0	1.6	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	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	62°	70°	74°
	10	●	●	●	●	●	5.2	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	64°	72°	75°
	15	●	●	●	●	●	5.9	5.6	3.1	4.6	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	9.1	11.2	12.9	15.8	18.2	20	22	24	63°	70°	74°
	25	●	●	●	●	●	7.5	7.5	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63°	70°	74°
	30	●	●	●	●	●	8.3	7.9	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	63°	70°	74°
1/2	25	●	●	●	●	●	9.5	6.4	5.1	8.1	11.4	14.0	16.1	19.7	23	25	28	30	63°	66°	71°
	30	●	●	●	●	●	9.5	7.5	6.1	9.7	13.7	16.7	19.3	24	27	31	33	36	67°	71°	75°
	40	●	●	●	●	●	9.5	9.1	8.2	12.9	18.2	22	26	32	36	41	45	48	72°	76°	78°
	50	●	●	●	●	●	9.5	11.1	10.2	16.1	23	28	32	39	46	51	56	60	74°	79°	82°
	60	●	●	●	●	●	9.5	13.1	12.2	19.3	27	33	39	47	55	61	67	72	77°	82°	86°

Wide Angle

Inlet Connector	Flow	Nozzle Type		Material code			Main inlet Dia(mm)	Rated spray hole Dia (mm)	Flow rate(L/min)										Spray angte		
		AA	A	BRASS	SS	316SS			0.2bar	0.5bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
1/8	0.5-0.5W	●	●	●	●	●	0.79	1.2			0.23	0.28	0.32	0.39	0.46	0.51	0.56	0.6		117°	98°
	1-1W	●	●	●	●	●	1.6	1.6			0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2		125°	110°
	2-3W	●	●	●	●	●	2.0	2.8		0.81	1.1	1.4	1.6	2.0	2.3	2.5	2.8	2.9	114°	114°	97°
	3-3W	●	●	●	●	●	2.4	2.8		0.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.7	114°	114°	97°
	3-5W	●	●	●	●	●	2.4	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4.0	116°	110°	95°
	2-10W	●	●	●	●	●	2.0	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5.0	130°	135°	120°
	5-5W	●	●	●	●	●	3.2	3.2		1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.5	6.1	116°	110°	92°
	5-10W	●	●	●	●	●	3.2	4.4		2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	126°		95°
	8-10W	●	●	●	●	●	4.0	4.4	1.3	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	124°	112°	90°
1/4	1-1W	●	●	●	●	●	1.6	1.6	1.8		0.46	0.56	0.64	0.79	0.91	1.0	1.1	1.2		117°	111°
	1-5W	●	●	●	●	●	1.6	3.2			0.77	0.95	1.1	1.3	1.5	1.7	1.9	2.0		123°	124°
	1-10W	●	●	●	●	●	1.6	4.4			0.96	1.2	1.4	1.7	1.9	2.1	2.3	2.5		144°	139°
	1-15W	●	●	●	●	●	1.6	5.6			1.1	1.3	1.5	1.9	2.2	2.4	2.7	2.9		128°	132°
	2-5W	●	●	●	●	●	2.0	3.2		1.1	1.5	1.9	2.2	2.7	3.1	3.5	3.8	4.0	118°	123°	113°
	2-10W	●	●	●	●	●	2.0	4.4		1.3	1.9	2.3	2.6	3.2	3.7	4.2	4.6	5.0	138°	136°	126°
	5-5W	●	●	●	●	●	3.6	3.2		1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.1	114°	113°	104°
	5-10W	●	●	●	●	●	3.6	4.4		2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	130°	130°	119°
	5-15W	●	●	●	●	●	3.6	5.6	1.3	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	9.3	130°	132°	120°
	8-10W	●	●	●	●	●	4.0	4.4	1.6	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	129°	122°	103°
	10-10W	●	●	●	●	●	4.8	4.4	1.8	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	120°	108°	95°
	8-15W	●	●	●	●	●	4.0	5.6	2.0	3.5	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.2	129°	122°	107°
	10-15W	●	●	●	●	●	4.8	5.6	2.2	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	14.6	120°	108°	97°
	15-15W	●	●	●	●	●	4.0	5.6	2.4	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.0	101°	95°	90°
3/8	5-10W	●	●	●	●	●	4.8	4.4	3.0	2.1	3.0	3.6	4.2	5.1	5.9	6.6	7.3	7.9	130°	123°	102°
	5-15W	●	●	●	●	●	6.0	5.6	1.3	2.5	3.5	4.3	5.0	6.1	7.0	7.8	8.6	9.3	138°	131°	112°
	8-10W	●	●	●	●	●	3.6	4.4	1.6	2.9	4.1	5.0	5.8	7.1	8.2	9.2	10.0	10.8	122°	110°	96°
	10-10W	●	●	●	●	●	3.6	4.4	1.8	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.2	116°	108°	93°
	8-15W	●	●	●	●	●	4.4	5.6	2.0	3.5	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.2	133°	120°	105°
	10-15W	●	●	●	●	●	5.2	5.6	2.2	3.9	5.5	6.7	7.7	9.5	10.9	12.2	13.4	14.6	126°	115°	100°
	8-25W	●	●	●	●	●	4.4	7.5	2.4	4.2	5.9	7.3	8.4	10.3	11.9	13.3	14.5	15.6	122°	118°	109°
	10-20W	●	●	●	●	●	5.2	6.0	2.9	4.5	6.4	7.8	9.0	11.1	12.8	14.3	15.6	16.9	118°	112°	102°
	15-15W	●	●	●	●	●	6.0	5.6	3.0	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.0	116°	106°	95°
	15-20W	●	●	●	●	●	6.0	6.0	3.4	5.5	7.7	9.5	11.0	13.4	15.5	17.3	19.0	20.4	113°	108°	98°
	20-20W	●	●	●	●	●	7.1	6.0	4.1	6.4	9.1	11.2	12.9	15.8	18.2	20	22	24.1	106°	102°	95°
	15-30W	●	●	●	●	●	6.0	7.9	4.5	7.1	10.0	12.3	14.2	17.4	20	22	25	26.5	116°	110°	102°
	25-25W	●	●	●	●	●	7.5	7.5	5.1	8.1	11.4	14.0	16.0	19.7	23	25	28	30.2	105°		93°
	25-30W	●	●	●	●	●	7.5	7.9	5.7	9.0	12.8	15.6	18.0	22	26	29	31	33.9	105°	101°	94°
1/2	50-50W	●	●	●	●	●	9.5	11.1	10.2	16.1	23	28	32	39	46	51	56	60.9	110°	102°	93°



BD Linear Type Hollow Cone Nozzle

Applicable to air washing, cooling, dedusting,spraying, humidifying.

Design Feature

- Spray granule is tiny and well-distributed
- It provides hollow cone of uniform atomizing spray.
- Simple structure,caps can be changed.Nozzle can be directly installed on pipe seat, no need to use connector.
- This nozzle have both standard angle and wide angle

BD

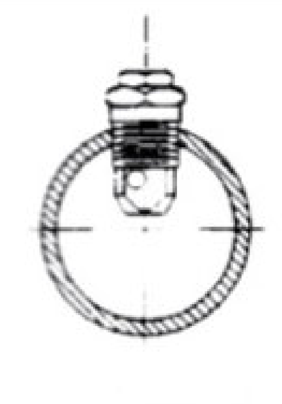
Standard angle

BD-W

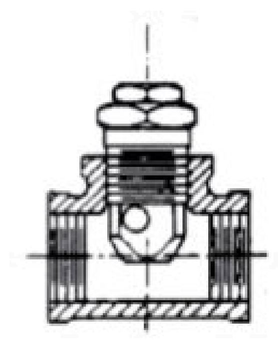
Wide angle

Common Application

- Defoaming
- Spray tower
- Cleaning
- Humidifying
- Cooling
- Dedusting
- Smoke washing



Install on pipe seat



Install on the pipe connector

Recommended Accessories

Connector

Can replace th reded weld base,with leakproof joint ring

Adjustable ball connector

Adjustable position in all direction, easy to control the spray angle

Order information

BD	1/2 —	SS	10
Nozzle type	Connect size	Matericial code	Flow code

SS：303 stainless steel

316SS：316 stainless steel

BRASS

PVC

TEF

Performance Data

BD Series — Standard angle hollow cone nozzle

Connector size (inch)	Nozzle Type BD	Flow code	Inlet orifice Dia	outlet orifice Dia	Flow (L/min)											Spray angle		
					0.2bar	0.5bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
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	2.6	52°	64°	77°
	●	5	2.8	3.2		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	1.0	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	1.6	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	2.0	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	7.6	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	62°	70°	74°
	●	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	7.6	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°
	●	50-50.3	7.1	9.5	10.2	16.1	19.1	23	28	32	39	46	51	56	60	70°	72°	73°
1-1/2	●	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	23	27	32	39	45	55	64	71	78	84	76°	79°	83°
	●	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°

BD-W Series — wide angle hollow cone nozzle

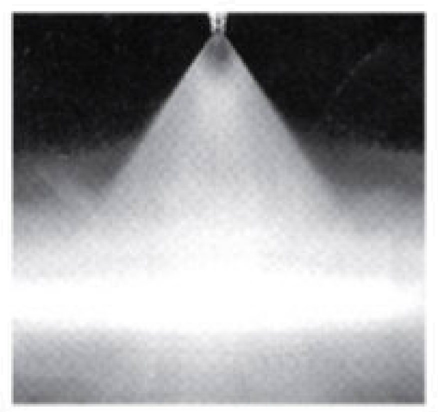
Connector size (inch)	Flow code	Inlet orifice Dia	Outlet orifice Dia	Flow rate L/min @ Pressure bar											Spray angle		
				0.2bar	0.5bar	0.7bar	1bar	1.5bar	2bar	3bar	4bar	5bar	6bar	7bar	0.5bar	1.5bar	6bar
3/8	3-2W	2.4	2.0	-	0.73	0.84	1.0	1.2	1.4	1.7	2.0	2.2	2.5	2.7	112°	109°	90°
	3-3W	2.4	2.8	-	0.96	1.1	1.4	1.7	1.9	2.4	2.7	3.1	3.4	3.6	115°	112°	97°
	3-5W	2.4	3.2	-	1.1	1.3	1.6	1.9	2.2	2.7	3.1	3.5	3.8	4.2	117°	113°	103°
	5-5W	2.8	3.2	-	1.6	1.9	2.3	2.8	3.2	3.9	4.5	5.0	5.6	6.1	115°	112°	102°
	5-10W	2.8	4.4	-	2.1	2.5	3.0	3.6	4.1	5.1	6.0	6.5	7.2	8.0	119°	119°	109°
	8-8W	3.9	3.9	-	2.6	3.1	3.6	4.4	5.2	6.3	7.4	8.3	9.0	9.5	116°	110°	98°
	8-10W	3.9	4.4	-	2.9	3.4	4.1	5.1	6.0	7.1	8.2	9.1	9.9	10.7	118°	113°	101°
	10-10W	3.9	4.4	-	3.2	3.8	4.5	5.5	6.3	7.9	9.3	10.2	11.0	11.8	118°	111°	100°
1/2	5-3W	3.2	2.8	0.67	1.0	1.2	1.5	1.8	2.0	2.5	2.9	3.2	3.5	3.8	114°	110°	96°
	5-5W	3.2	3.2	1.0	1.6	1.9	2.3	2.8	3.2	3.9	4.5	5.0	5.6	6.1	115°	112°	102°
	8-8W	3.9	3.9	1.6	2.6	3.1	3.6	4.4	5.2	6.3	7.4	8.3	9.0	9.5	119°	113°	103°
	10-15W	4.4	5.6	2.5	3.9	4.6	5.6	6.7	7.8	9.5	11.1	12.3	13.4	14.5	120°	112°	102°
	15-15W	4.4	5.6	3.0	5.0	5.7	6.7	8.3	9.7	11.9	14.1	15.4	16.7	18.3	117°	111°	104°

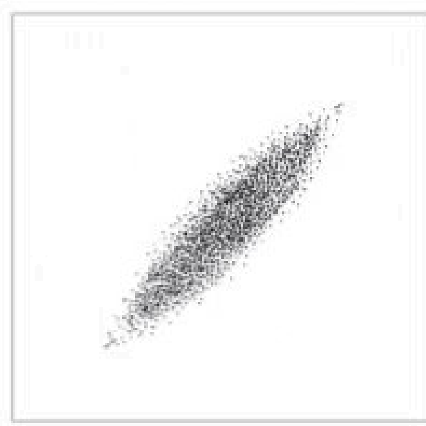
Remark:If there is no special remark, connect size is UK system thread(BSPT) If you need US system thread(NPT),Please mark out specially.

Standard type

 H-VV	 H-VVL	 H-U	 U
1/8"-1/4" NPT or BSPT 1/8"-1/4" NPT or BSPT (Male)	With filter 1/8"-1/4" NPT or BSPT 1/8"-1/4" NPT or BSPT(Male)	Medium flow 1/8"- 3/4" NPT or BSPT 1/8"- 3/4" NPT or BSPT(Male)	High flow 1/8"- 2" NPT or BSPT 1/8"- 2" NPT or BSPT(Male)

Design Feature





The feature of standard fan shaped nozzle is it generates high impact force of pillar flow or fan shaped spray.Spray angle is 0°-110°

H-VV and H-WL series' flow rate is under 3.9L/min at 3barJt has male thread connectorIn order style.use DT to replace W,it means female thread connector.H-WL series is with built-in filter(without filter when it is with female thread connector).

The rated flow of H-U and U series is 3.9L/min or more at 3bar. It is with male thread connector.

In order style.use DU to replace U, it means 1/8" and 1/4" H-U series nozzle with female thread connector

Common Application

- Cooling and quenching
- Cleanning
- Air and gas purifier
- Scourers
- Liquid cleaner
- Dust control
- Fireproof

Accessory

Material

Material	Material code	VEEJET® H-VV	H-WL	H-U	U
Brass		●	●	●	●
Soft steel	I			●	●
303 stainless steel	SS	●	●	●	●
316 stainless steel	316SS		●	●	
PVC	PVC			●	

Performance Data

Spray angle at 3 bar	Flow code	VEEJET nozzle Nozzle type/inlet connector: H-VV		H-VVL		H-U					U			Equivalent Orifice dia.	Flow (L/min)											Spray angle			
		1/8	1/4	1/8	1/4	1/8	1/4	3/8	1/2	3/4	1	1-1/4	2		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°	129°
	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°
95°	950050	●		●										0.46			0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	81°	95°	105°	113°
	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	36	39	42	50	70	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°
80°	800050	●	●	●	●									0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
	800067	●	●	●	●									0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°
	8001	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
	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	8.1	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°	84°	87°
	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°	86°
	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°	85°
	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°	86°
	80100								●	●				6.4	12.5	23	32	39	46	51	56	60	72	102	138	75°	80°	83°	86°
	80150									●				7.5	18.7	34	48	59	68	76	84	90	108	153	205	73°	80°	84°	86°
	80200													8.7	25	46	64	79	91	102	112	121	144	205	270	74°	80°	82°	85°
	80400	●	●	●	●									12.7	50	91	129	158	182	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	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	0.38	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
	730462	●		●										1.4	0.58	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.3	4.7	6.2	60°	73°	80°	84°
	730770	●		●										1.8	0.96	1.8	2.5	3.0	3.5	3.9	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
65°	650050	●	●	●	●									0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
	650067	●	●	●	●									0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	50°	65°	75°	81°
	6501	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	51°	65°	74°	80°
	65015	●	●	●	●									0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	51°	65°	74°	80°
	6502	●		●										0.91	0.25	0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	52°	65°	73°	79°
	65025	●	●	●	●									1.0	0.31	0.57	0.81	0.99	1.1	1.3	1.4	1.5	1.8	2.5	3.4	52°	65°	73°	79°
	6503	●	●	●	●									1.1	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	53°	65°	72°	78°
	6504	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	53°	65°	72°	76°
	6505	●	●	●	●									1.4	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	53°	65°	72°	76°
	6506	●	●	●	●									1.6	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	54°	65°	72°	75°
	6508	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	55°	65°	71°	74°
	6510					●	●	●						2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
	6515					●	●	●	●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	56°	65°	70°	73°
	6520					●	●		●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
	6530					●	●							3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
	6540					●	●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	59°	65°	68°	72°
	6550					●	●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	60°	65°	68°	71°
	6560						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	60°	65°	68°	71°
	6570						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	60°	65°	68°	71°
	65100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	58°	65°	69°	70°
	65150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	59°	65°	68°	70°
	65200								●	●				8.7	25	46	64	79	91	102	112	121	144	205	270	60°	65°	67°	69°

Flat fan nozzle

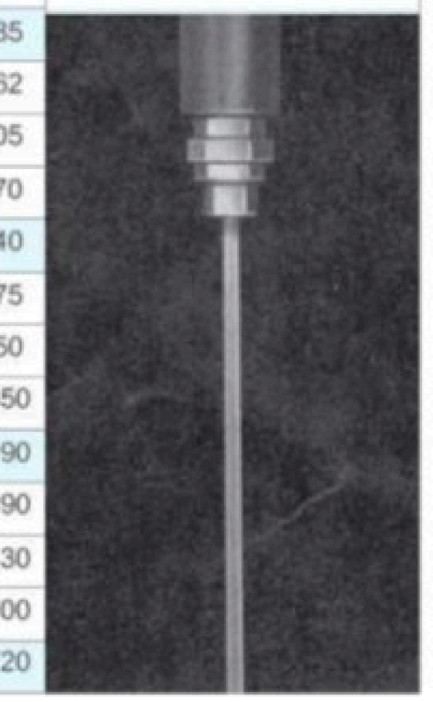
Performance Data

Spray angle at 3 bar	Flow code	VEEJET H-VV 1/8	H-VV 1/4	H-VVL 1/8	H-VVL 1/4	VEEJET nozzle Nozzle type/Inlet connector H-U 1/8	H-U 1/4	H-U 3/8	H-U 1/2	H-U 3/4	U 1	U 1-1/4	U 2	Equivalent orifice dia.	Flow (L/min) 0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	Spray angle 1.5bar	3bar	6bar	14bar
50°	5001	●	●	●	●									0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	37°	50°	59°	65°
	5002	●	●	●	●									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°
	5003	●	●	●	●									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°
	5004	●	●	●	●									1.3	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	42°	50°	56°	61°
	5005	●	●	●	●									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°
	5006	●	●	●	●									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°
	5008	●	●	●	●									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°
	5010					●	●	●						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°
	5015						●	●	●					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°
	5020					●	●	●	●					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°
	5030					●	●	●	●					3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	45°	50°	55°	59°
	5040					●	●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	46°	50°	54°	59°
	5050					●	●	●						4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°
	5060						●	●						4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	46°	50°	54°	59°
	5070						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	46°	50°	54°	59°
	50100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	44°	50°	52°	54°
	50120							●						6.7	15.0	27	39	47	55	61	67	72	86	122	162	44°	50°	53°	55°
	50150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	45°	50°	52°	55°
	50200								●					8.7	25	46	64	79	91	102	112	121	144	205	270	46°	50°	52°	55°
	50400									●				12.7	20	91	129	158	182	205	225	240	290	410	540	46°	50°	52°	55°
	50500										●	●		13.1	62	114	161	197	230	255	280	300	360	510	680	49°	50°	51°	54°
	50580										●			13.9	72	132	187	230	265	295	325	350	420	600	780	49°	50°	51°	53°
	50750											●		15.9	94	171	240	295	340	385	420	455	540	770	1010	49°	50°	51°	53°
	501000											●		18.3	125	230	325	395	455	510	560	610	720	1020	1350	49°	50°	51°	53°
	501500												●	22.6	187	340	485	600	690	770	840	910	1080	1530	2020	49°	50°	51°	52°
	502000												●	26.2	250	460	650	790	910	1020	1120	1210	1440	2040	2700	49°	50°	51°	52°
40°	4001	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	26°	40°	52°	59°
	40015	●	●	●	●									0.79			0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	27°	40°	52°	59°
	4002	●	●	●	●									0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	29°	40°	51°	58°
	4003	●	●	●	●									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	●	●	●	●									1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	30°	40°	50°	56°
	4005	●	●	●	●									1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	31°	40°	49°	55°
	4006	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	31°	40°	49°	55°
	4008	●	●	●	●									1.8	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	31°	40°	47°	53°
	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°
	4015					●	●		●					2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	32°	40°	45°	48°
	4020					●	●	●	●					2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	32°	40°	45°	48°
	4030					●	●	●						3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	33°	40°	45°	48°
	4040					●	●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	34°	40°	45°	48°
	4050						●	●	●					4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	35°	40°	45°	48°
	4060						●	●	●					4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	35°	40°	45°	48°
	4070						●	●	●					5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	35°	40°	45°	48°
	40100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	34°	40°	43°	46°
	40150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	35°	40°	43°	44°
	40200								●					8.7	25	46	64	79	91	102	112	121	144	205	270	36°	40°	42°	44°
25°	2501	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	14°	25°	34°	42°
	2502	●	●	●	●									0.91		0.46	0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	15°	25°	33°	40°
	2503	●	●	●	●									1.1		0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	15°	25°	33°	40°
	2504	●	●	●	●									1.3		0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	16°	25°	32°	39°
	2505	●	●	●	●									1.4		1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	16°	25°	32°	39°
	2506	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	17°	25°	31°	38°
	2508	●	●	●	●									1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	17°	25°	31°	38°
	2510					●	●							2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	18°	25°	31°	37°
	2515					●	●	●						2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	18°	25°	31°	37°
	2520					●	●	●						2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	19°	25°	31°	37°
	2530					●	●	●						3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	20°	25°	30°	36°
	2540						●	●						4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	21°	25°	29°	35°
	2550						●	●						4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	21°	25°	29°	35°
	2560						●	●						4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	22°	25°	29°	35°
	2570						●	●						5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	22°	25°	29°	35°
	25100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	23°	25°	28°	32°
	25150							●	●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	24°	25°	28°	30°
	25200								●					8.7	25	46	64	79	91	102	112	121	144	205	270	24°	25°	26°	29°
	25500										●	●		13.1	62	114	161	197	230	255	280	300	360	510	680	24°	25°	26°	29°
	25750											●		15.9	94	171	240	295	340	385	420	455	540	770	1010	24°	25°	26°	28°
	251000											●		18.7	125	230	325	395	455	510	560	610	720	1020	1350	24°	25°	26°	28°
15°	1501	●	●	●	●									0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3		15°	24°	28°
	1502	●		●										0.91			0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	6°	15°	22°	27°
	1503	●	●	●	●									1.1			0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	6°	15°	22°	27°
	1504	●	●	●	●									1.3			1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	7°	15°	21°	26°
	1505	●	●	●	●									1.4			1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	7°	15°	21°	26°
	1506	●	●	●	●									1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	8°	15°	21°	26°
	1508	●	●	●	●									1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	9°	15°	20°	25°
	1510					●	●							2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	10°	15°	19°	24°
	1515					●	●	●						2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	10°	15°	19°	24°
	1520					●	●	●						2.8		4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	10°	15°	19°	23°
	1530					●	●	●						3.6		6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	10°	15°	19°	21°
	1540					●	●	●						4.0		9.1	12.9	15.8	18.2	20	22	24	29	41	54	10°	15°	18°	21°
	1550						●	●	●					4.4		11.4	16.1	19.7	23	25	28	30	36	51	68	11°	15°	18°	21°

Flat fan nozzle

Performance Data

Spray angle at 3 bar	Flow code	VEEJET nozzle Nozzle type/Inlet connector H-VV 1/8	H-VV 1/4	H-VVL 1/8	H-VVL 1/4	H-U 1/8	H-U 1/4	H-U 3/8	H-U 1/2	H-U 3/4	U 1	U 1-1/4	U 2	Equivalent orifice dia.	Flow (L/min) 0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	Spray angle 1.5bar	3bar	6bar	14bar
15°	1560						●	●						4.8		13.7	19.3	24	27	31	33	36	43	61	81	11°	15°	18°	21°
	1570						●		●					5.2		16.0	23	28	32	36	39	42	50	71	94	11°	15°	18°	21°
	15100							●	●					6.4	12.5	23	32	39	46	51	56	60	72	102	135	13°	15°	17°	18°
	15120							●						6.7	15.0	27	39	47	55	61	67	72	86	122	162	13°	15°	17°	18°
	15150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205	14°	15°	17°	18°
	15200								●					8.7	25	46	64	79	91	102	112	121	144	205	270	14°	15°	17°	18°
	15250									●				9.5	31	57	81	99	114	127	140	151	180	255	340	14°	15°	16°	17°
	15500											●		13.1	62	114	161	197	230	255	280	300	360	510	680	14°	15°	16°	17°
	151000											●		18.7	125	230	325	395	455	510	560	610	720	1020	1350	14°	15°	16°	17°
0°	0003					●	●							1.0	0.37	0.68	0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0				
	0004					●	●							1.2	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4				
	0005					●	●							1.3	0.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7				
	0006					●	●							1.5	0.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1				
	0008					●	●							1.7	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8				
	0010					●	●							1.9	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5				
	0015					●	●							2.3	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20				
	0020					●	●	●						2.7	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				
	0050						●							4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68				
	0060						●							4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81				
	0070						●	●						5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	0° 液柱流			
	0080						●	●						5.2	10.0	18.2	26	32	36	41	45	48	58	82	108				
	00100							●						6.0	12.5	23	32	39	46	51	56	60	72	102	135				
	00120							●						6.4	15.0	27	39	47	55	61	67	72	86	122	162				
	00150								●					7.5	18.7	34	48	59	68	76	84	90	108	153	205				
	00200								●					8.3	25	46	64	79	91	102	112	121	144	205	270				
	00250							●						9.5	31	57	81	99	114	127	140	151	180	255	340				
	00350									●				11.1	44	80	113	138	160	178	195	210	255	360	475				
	00700									●				15.5	87	160	225	275	320	355	390	420	510	720	950				
	001000										●			19.1	125	230	325	395	460	510	560	610	720	1020	1350				
	001100										●			19.8	140	255	355	435	500	560	620	670	790	1120	1490				
	001400											●		22.2	175	320	455	560	640	720	780	850	1010	1430	1890				
	001800													25.4	225	410	580	710	820	920	1010	1090	1300	1840	2430				
	002000											●	●	26.6	250	460	650	790	910	1020	1120	1210	1440	2040	2700				
	003500												●	34.9	440	800	1130	1380	1600	1790	1960	2110	2520	3570	4720				



Order information

Flat fan nozzle

H	1/4	W	SS	11010
Nozzle type prefix (only H type)	Entrance connecting pipe size	Nozzle type	Material code	Flow code

Performance Data

T type female thread nozzle body

T type male thread nozzle body

Filter

Spray tip

Spray tip retainer

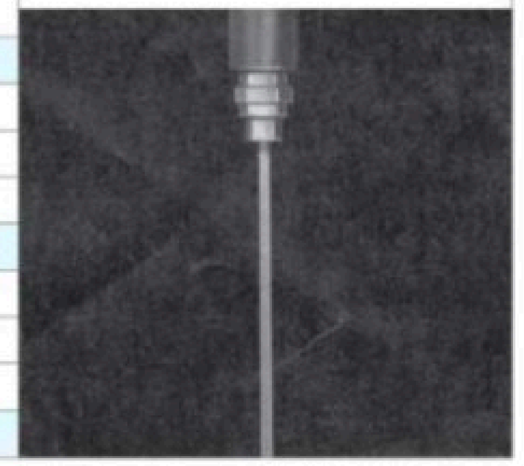
Spray angle at 3 bar	Flow	Equivalent orifice dia.	Flow (L/min)											Spray angle			
			0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	1.5bar	3bar	6bar	14bar
110°	110001	0.66	0.12	0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	94°	110°	121°	124°
	110015	0.79	0.19	0.34	0.48	0.59	0.68	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°
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°	113°
	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°	111°
	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°	108°
	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°	107°
	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°	106°
	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	30	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°
80°	800050	0.46		0.11	0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	61°	80°	95°	101°
	800067	0.53		0.15	0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	67°	80°	94°	99°
	8001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	68°	80°	89°	92°
	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	8.1	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°	84°	87°
	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°	86°
	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°	85°
	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°	86°
73°	730023	0.30		0.05	0.07	0.09	0.10	0.11	0.12	0.14	0.17	0.23	0.31	50°	73°	89°	97°
	730039	0.41		0.09	0.13	0.15	0.18	0.20	0.22	0.24	0.28	0.40	0.53	53°	73°	87°	93°
	730077	0.56		0.18	0.25	0.30	0.35	0.39	0.43	0.46	0.55	0.78	1.0	53°	73°	86°	92°
	730116	0.71	0.14	0.26	0.37	0.46	0.53	0.59	0.65	0.70	0.84	1.2	1.6	54°	73°	85°	90°
	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	0.38	0.70	0.99	1.2	1.4	1.6	1.7	1.9	2.2	3.1	4.2	58°	73°	82°	86°
	730385	1.3	0.48	0.88	1.2	1.5	1.8	2.0	2.1	2.3	2.8	3.9	5.2	59°	73°	81°	85°
	730462	1.4	0.58	1.1	1.5	1.8	2.1	2.4	2.6	2.8	3.3	4.7	6.2	60°	73°	80°	84°
	730616	1.7	0.77	1.4	2.0	2.4	2.8	3.1	3.4	3.7	4.4	6.3	8.3	63°	73°	79°	83°
	730770	1.8	0.96	1.8	2.5	3.0	3.5	3.9	4.3	4.6	5.5	7.8	10.4	64°	73°	77°	82°
	730924	2.0	1.2	2.1	3.0	3.6	4.2	4.7	5.2	5.6	6.7	9.4	12.5	65°	73°	77°	80°

Performance Data

Spray angle at 3 bar	Flow	Equivalent orifice dia.	Flow (L/min)											Spray angle			
			0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	1.5bar	3bar	6bar	14bar
65°	6510	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	56°	65°	71°	74°
	6515	2.4	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	1.8	15.3	20	56°	65°	70°	73°
	6520	2.8	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	57°	65°	70°	73°
	6530	3.6	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	58°	65°	69°	72°
	6540	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	59°	65°	68°	72°
	6550	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	60°	65°	68°	71°
	6560	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	60°	65°	68°	71°
	6570	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	60°	65°	68°	71°
50°	500017	0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17		27°	50°	65°	74°
	500025	0.33			0.08	0.10	0.11	0.13	0.14	0.15	0.18	0.25	0.34	29°	50°	64°	71°
	500033	0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	30°	50°	62°	68°
	500050	0.46			0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	32°	50°	60°	66°
	500067	0.53			0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	35°	50°	60°	66°
	5001	0.66		0.23	0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	37°	50°	59°	65°
	50015	0.79		0.34	0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	38°	50°	58°	64°
	5002	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°
	5003	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°
	5004	1.6	0.50	0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	42°	50°	56°	61°
	5005	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°
	5006	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°
	5008	1.8	10	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	45°	50°	55°	60°
	5010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	5.6	.0	7.2	10.2	13.5	45°	50°	55°	59°
	5015	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°
	5020	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°
	5030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	15.7	18.1	22	31	40	45°	50°	55°	59°
	5040	4.0	5.0	9.1	12.9	15.8	18.2	20	22	24	29	41	54	46°	50°	54°	59°
	5050	4.4	6.2	11.4	16.1	19.7	23	25	28	30	36	51	68	46°	50°	54°	59°
	5060	4.8	7.5	13.7	19.3	24	27	31	33	36	43	61	81	46°	50°	54°	59°
	5070	5.2	8.7	16.0	23	28	32	36	39	42	50	71	94	46°	50°	54°	59°
40°	400017	0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23	21°	40°	54°	61°
	400025	0.33			0.08	0.10	0.11	0.13	0.14	0.15	0.18	0.25	0.34	22°	40°	53°	60°
	400033	0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44	22°	40°	53°	60°
	400050	0.46			0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67	22°	40°	53°	60°
	400067	0.53			0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90	24°	40°	53°	59°
	4001	0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3	26°	40°	52°	59°
	40015	0.79			0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0	27°	40°	52°	58°
	4002	0.91		0.46	0.64	0.79	0.941	1.0	1.1	1.2	1.4	2.0	2.7	29°	40°	51°	57°
	4003	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°	56°
	4004	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°	55°
	4005	1.4		1.1	1.6	2.0	2.3	2.5	2.83	3.0	3.6	5.1	6.7	31°	40°	49°	55°
	4006	1.6		1.4	1.9	2.4	2.7	3.1	4.5	3.6	4.6	6.1	8.1	31°	40°	49°	53°
	4008	1.8	1.0	1.8	2.6	3.2	3.6	4.1	5.6	4.8	5.8	8.2	10.8	31°	40°	47°	48°
	4010	2.0	1.2	2.3	3.2	3.9	4.6	5.1	8.4	6.0	7.2	10.2	13.5	31°	40°	45°	48°
	4015	2.4	1.9	3.4	4.8	5.9	6.8	7.9	11.2	9.0	10.8	15.3	20	32°	40°	45°	48°
	4020	2.8	2.5	4.6	6.5	7.9	9.1	10.2	16.7	12.1	14.4	20	27	32°	40°	45°	48°
	4030	3.6	3.7	6.8	9.7	11.8	13.7	15.3	22	18.1	22	31	40	32°	40°	45°	48°
	4040	4.0	5.0	9.1	12.9	15.8	18.2	20	28	24	29	41	54	33°	40°	45°	48°
	4050	4.4	6.2	11.4	16.1	19.7	23	25	33	30	36	51	68	34°	40°	45°	48°
	4060	4.8	7.5	13.7	19.3	24	27	31	39	36	43	61	81	35°	40°	45°	48°
	4070	5.2	8.7	16.0	23	28	32	36	0.09	42	50	71	94	35°	40°	45°	48°
25°	250017	0.28			0.05	0.06	0.07	0.08	0.14	0.10	0.12	0.17	0.23		25°	35°	47°
	250025	0.33			0.08	0.10	0.11	0.13	0.18	0.15	0.18	0.25	0.34		25°	35°	45°
	250033	0.38			1.11	0.13	0.15	0.17	0.28	0.20	0.24	0.34	0.44		25°	34°	44°
	250050	0.46			0.16	0.20	0.23	0.25	0.37	0.30	0.36	0.51	0.67		25°	34°	43°
	250067	0.53			0.22	0.26	0.31	0.34	0.53	0.40	0.48	0.68	0.90		25°	34°	42°
	2501	0.66			0.32	0.39	0.46	0.51	0.83	0.60	0.72	1.0	1.3	14°	25°	34°	42°
	25015	0.79		0.34	0.48	0.59	0.68	0.76	1.1	0.90	1.1	1.5	2.0	15°	25°	34°	41°
	2502	0.91		0.46	0.64	0.79	0.91	1.0	1.7	1.2	1.4	2.0	2.7	15°	25°	33°	40°
	2503	1.1		0.68	0.97	1.2	1.4	1.5	2.2	1.8	2.2	3.1	4.0	15°	25°	33°	40°
	2504	1.3		0.91	1.3	1.6	1.8	2.0	2.8	2.4	2.9	4.1	5.4	16°	25°	32°	39°
	2505	1.4		1.1	1.6	2.0	2.3	2.5	3.3	3.0	3.6	5.1	6.7	16°	25°	32°	39°
	2506	1.6		1.4	1.9	2.4	2.7	3.1		3.6	4.3	6.1	8.1	17°	25°	31°	38°

Three-piece combined fan nozzle

Performance Data

Spray angle at 3 bar	Flow	Equivalent orifice dia.	Flow (L/min)											Spray angle			
			0.3bar	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	20bar	35bar	1.5bar	3bar	6bar	14bar
15°	**150017**	0.28			0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.17	0.23		15°	30°	37°
	150025	0.33			0.08	0.10	0.11	0.13	0.14	0.15	0.18	0.25	0.34		15°	28°	34°
	150033	0.38			0.11	0.13	0.15	0.17	0.18	0.20	0.24	0.34	0.44		15°	27°	32°
	150050	0.46			0.16	0.20	0.23	0.25	0.28	0.30	0.36	0.51	0.67		15°	26°	30°
	150067	0.53			0.22	0.26	0.31	0.34	0.37	0.40	0.48	0.68	0.90		15°	25°	29°
	1501	0.66			0.32	0.39	0.46	0.51	0.56	0.60	0.72	1.0	1.3		15°	24°	28°
	15015	0.79			0.48	0.59	0.68	0.76	0.84	0.90	1.1	1.5	2.0		15°	23°	27°
	1502	0.91			0.64	0.79	0.91	1.0	1.1	1.2	1.4	2.0	2.7	6°	15°	22°	27°
	1503	1.1			0.97	1.2	1.4	1.5	1.7	1.8	2.2	3.1	4.0	6°	15°	22°	27°
	1504	1.3			1.3	1.6	1.8	2.0	2.2	2.4	2.9	4.1	5.4	7°	15°	21°	26°
	1505	1.4			1.6	2.0	2.3	2.5	2.8	3.0	3.6	5.1	6.7	7°	15°	21°	26°
	1506	1.6		1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3	6.1	8.1	8°	15°	21°	26°
	1508	1.8		1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	8.2	10.8	9°	15°	20°	25°
	1510	2.0		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	10.2	13.5	10°	15°	19°	24°
	1515	2.4		3.4	4.8	5.9	6.8	7.6	8.4	9.0	10.8	15.3	20	10°	15°	19°	24°
	1520	2.8		4.6	6.5	7.9	9.1	10.2	11.2	12.1	14.4	20	27	10°	15°	19°	23°
	1530	3.6		6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	31	40	10°	15°	19°	21°
	1540	4.0		9.1	12.9	15.8	18.2	20	22	24	29	41	54	10°	15°	18°	21°
	1550	4.4		11.4	16.1	19.7	23	25	28	30	36	51	68	11°	15°	18°	21°
	1560	4.8		13.7	19.3	24	27	31	33	36	43	61	91	11°	15°	18°	21°
	1570	5.2		16.0	23	28	32	36	39	42	50	71	94	11°	15°	18°	21°
0°	**000009**	0.20	0.01	0.02	0.03	0.035	0.04	0.045	0.05	0.06	0.07	0.09	0.12	0°			
	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	0.15	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	0.37	0.48	0.59	0.68	0.76	0.84	0.91	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	0.72	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	3.4	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				

Order information

Full set nozzle

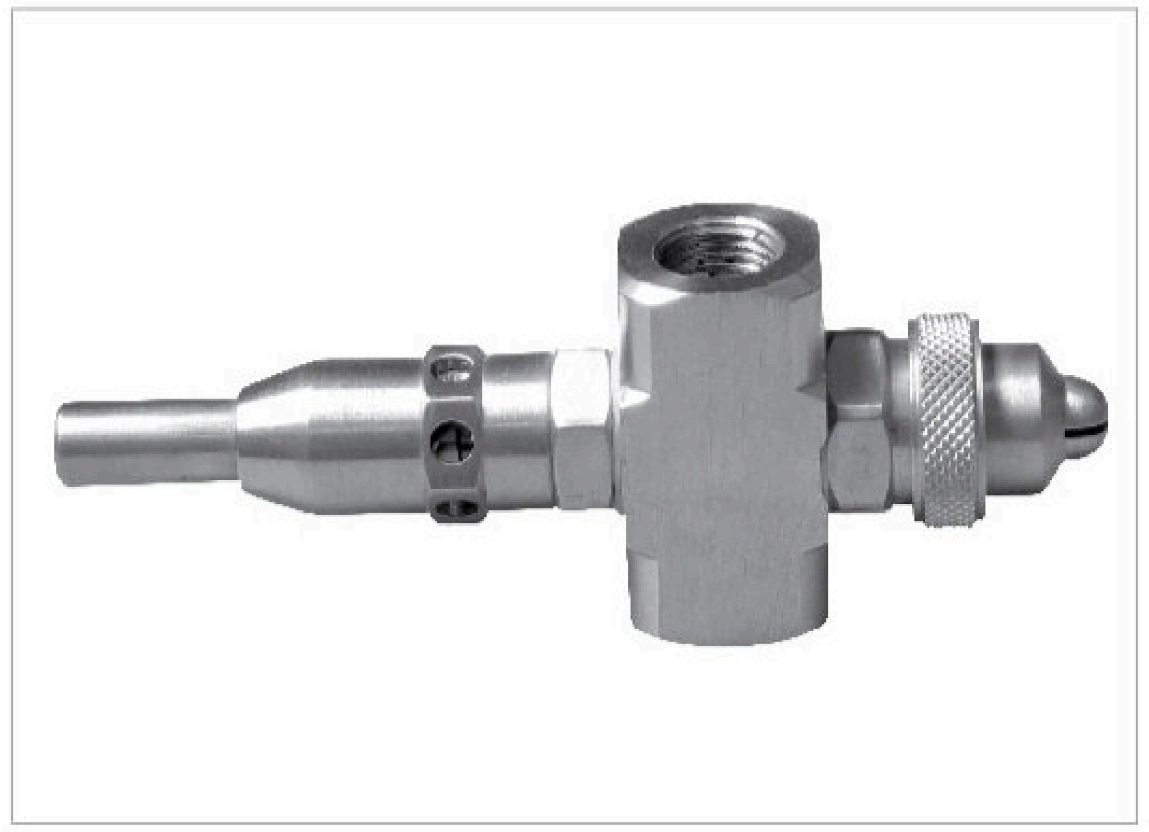
Nozzle body | Spray tip

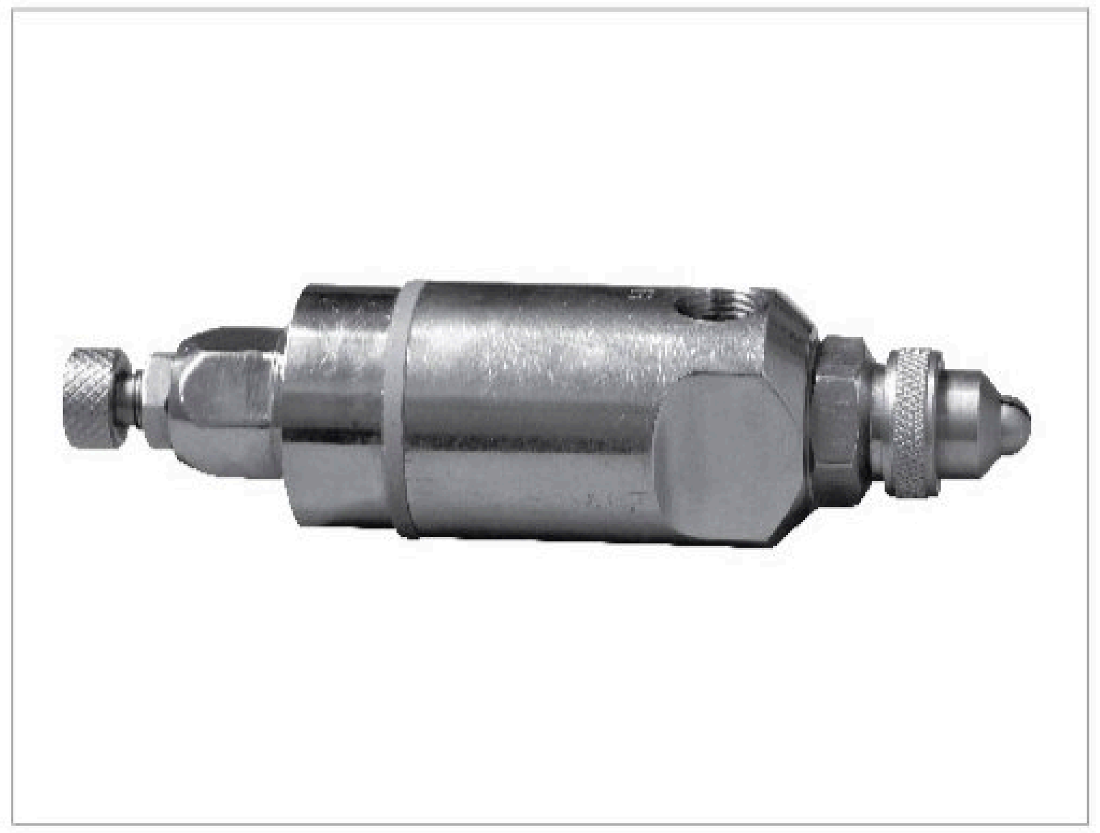
+TP | 11010 | SS

Spray tip type (For order of Spray tip) | Flow | Material code

Screen mesh choice guide	
Equivalent orifice dia	Suggested Screen mesh size
Less than 46mm	200
47-49mm	100
More than 80mm	50

Air atomizing nozzle series





Design Feature

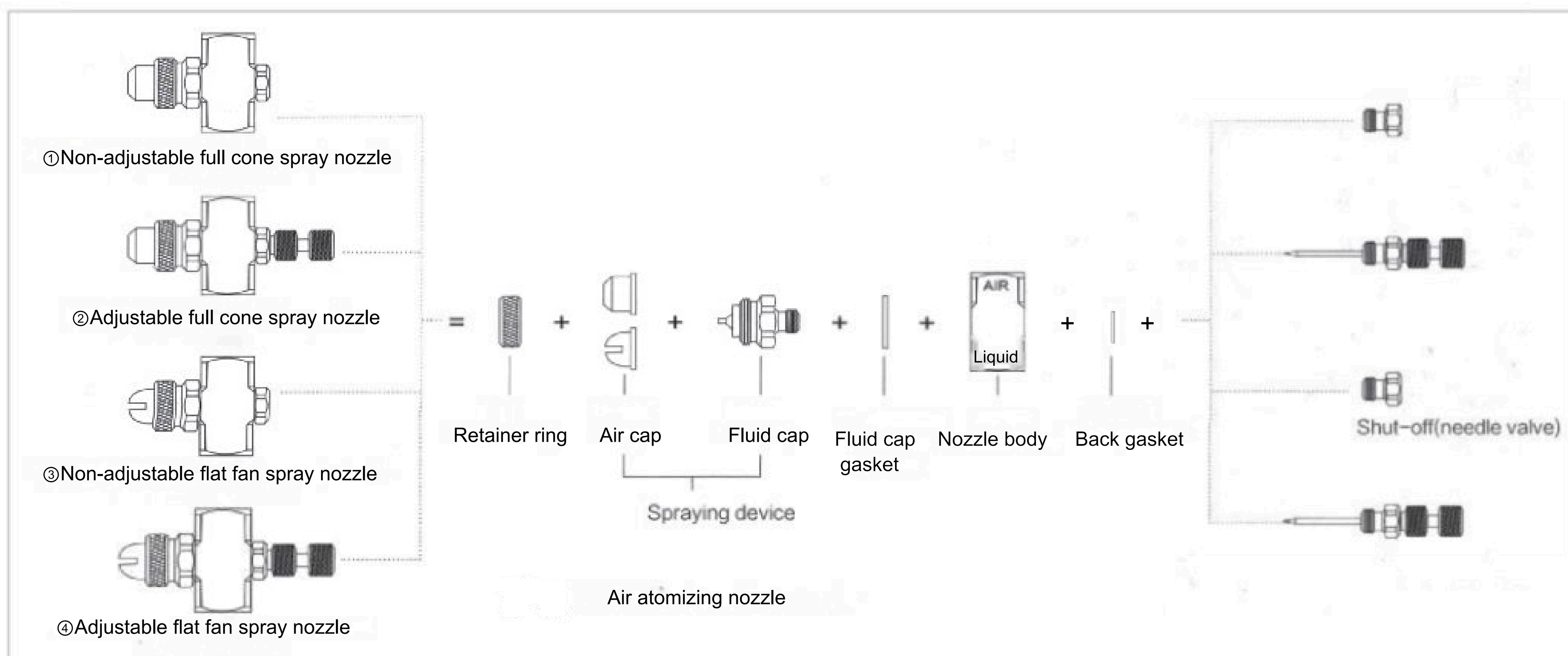
The special inner design of D series air atomizing nozzle can mix liquid and gas uniformlyand generate superfine drops of spraying or thick drops Usually,The finer(about 30mm)drops are available through adding gas pressure or low down liquid pressure, so as to cause higher difference between gas flow rate and liquid flow rate.

Adjustable air atomizing nozzle can adjust liquid flow,and generate desirable spray without change air pressure and liquid pressure.So it has very strong adaptability.

Each spray installation composed by air cap and liquid cap,and provide fan shape and round spray pattern.and with wide flow range.Nozzle has many inlet sizes which are suitable for many normal pipe.The above nozzle parts can be replaced with each other.which give flexibility for acquiring different spraying performance.

D series air atomizing nozzle brings superfine drops which provide perfect humidifying function for the environment around.

Nozzle structure



Common Application

- Humidification
- Mould lubricating
- Spray injection
- Air Disinfection and sterillization

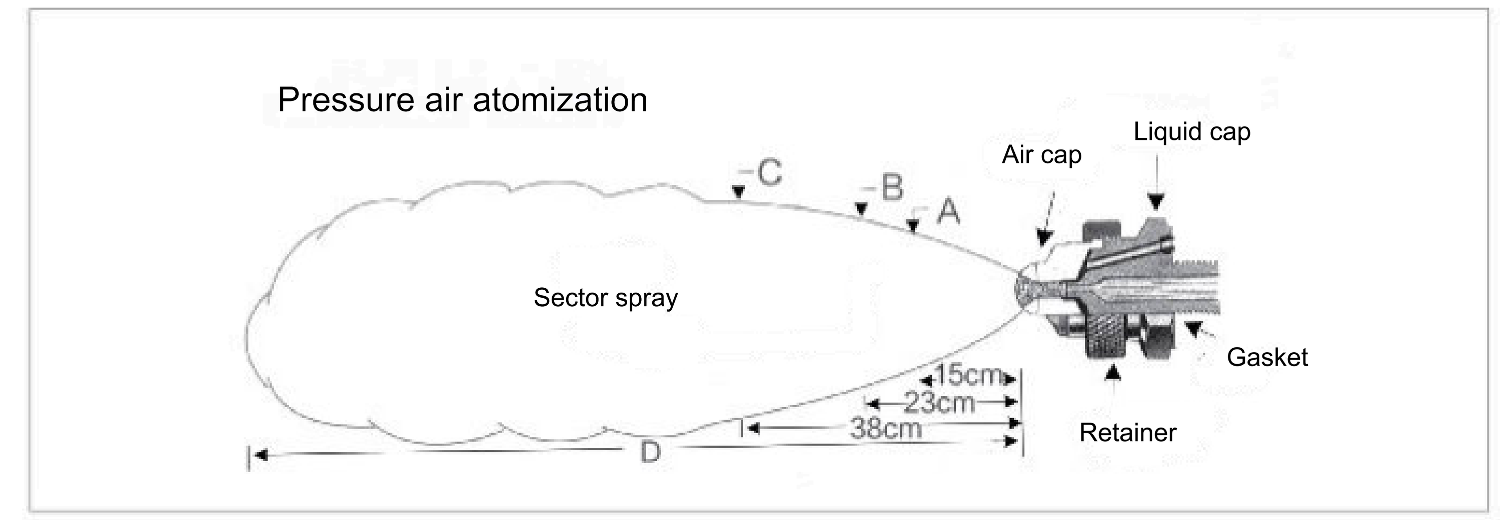
Order information

Order information

JN/J	1/4	SS	SU11	SS
Nozzle body type (JN is adjustable, J is non-adiustable)	inlet connecting pipe dia	Air cap material code (304 stainless steel)	Spraying device No.	Liquid cap material code (304 stainless steel)

Design Feature

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



Flat fan spray air cap

The air cap used in these spray set-up produces a flat fan spray.

Remark:No.1158 retainer and 3612 gasket must be ordered separately from the spray set-up.But is included in the standard nozzle assembly.

Flat fan spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	Liquid capacity(L/h)and Air capacity(L/min)															Spray size					
		0.7bar			1.5bar			Water pressure 2bar			3bar			4bar								
		Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air pressure (bar)	Water (L/h)	Air (L/min)	Air Bar	Liquid Bar	A (cm)	B (cm)	C (cm)	D (m)
SU13A	Liquid cap 2050 / Air cap 73328	0.7 0.85 1.0 1.1 1.3 1.4 1.5	5.5 4.7 4.1 3.5 3.0 2.5 2.0	24 27 31 34 37 40 44	1.3 1.5 1.8 2.1 2.4 2.7 2.8	9.1 7.7 6.5 5.4 4.3 3.3 2.8	31 36 42 47 52 57 60	2.0 2.2 2.5 2.8 3.1 3.2 3.4	8.6 7.5 6.2 5.2 4.2 3.7 3.2	42 47 52 57 63 65 68	2.7 3.0 3.2 3.5 4.2 4.6 4.9	11.2 10.1 9.1 8.1 5.4 4.2 3.1	52 56 62 66 79 85 91	3.9 4.6 5.3 6.0 6.3 6.7 7.0	12.0 9.7 7.5 5.3 4.3 3.3 2.4	69 81 93 104 110 116 122	1.1 2.1 2.8 3.5 6.0	0.7 1.5 2.0 3.0 4.0	25 36 38 47 56	36 48 53 61 74	46 66 76 86 94	2.6 3.0 3.2 3.4 4.0
SU13	Liquid cap 2850 / Air cap 73328	0.85 1.0 1.1 1.3 1.4	8.2 6.8 5.5 4.1 2.9	19.8 23 27 30 34	1.4 1.7 2.0 2.1 2.2 2.4 2.5	14.4 11.9 9.5 8.3 7.1 6.1 5.1	27 32 37 40 43 46 49	2.1 24 2.7 3.0 3.2 3.4 3.5	13.5 11.4 9.2 7.1 5.0 4.0 3.3	36 42 47 53 59 63 66	2.7 3.0 3.2 3.5 4.2 4.6 4.9	19.1 17.1 15.1 13.1 8.1 5.9 4.0	42 46 52 57 72 79 86	4.6 4.9 5.3 5.6 6.0 6.3 6.7	16.1 13.8 11.5 9.3 7.3 5.6 4.3	69 76 83 90 97 104 112	1.1 2.1 3.0 3.5 5.6	0.7 1.5 2.0 3.0 4.0	36 43 51 58 58	46 61 66 76 76	71 81 89 97 97	2.1 2.4 2.6 2.7 3.2
SUN13	Liquid cap 2850 / Air cap 73335	1.0 1.1 1.3 1.4 1.7 2.0 2.2	9.0 7.8 6.6 5.2 3.1 2.0 1.1	25 30 32 36 44 50 56	2.0 2.1 2.2 2.5 2.8 3.1 3.4	10.4 9.3 8.2 6.1 4.3 3.0 2.0	41 45 48 55 62 69 75	2.4 2.5 2.7 3.0 3.2 3.5 3.8	11.6 10.4 9.4 7.3 5.5 4.1 2.9	48 51 54 61 68 75 81	3.1 3.2 3.4 3.8 4.2 4.9 6.0	15.6 14.6 13.7 10.8 8.5 5.2 2.3	56 59 62 71 82 98 120	4.2 4.6 4.9 5.3 5.6 6.3 7.0	17.1 15.0 12.8 11.0 9.4 7.2 6.1	73 80 87 94 103 119 134	1.4 2.5 3.2 3.8 5.3	0.7 1.5 2.0 3.0 4.0	10 13 13 15 20	13 15 17 22 25	17 20 22 28 33	3.0 3.7 4.0 4.2 4.8
SU14	Liquid cap 2850 / Air cap 73320	1.3 1.4 1.5 1.7 1.8 2.0	3.9 3.0 2.3 1.8 1.3 0.95	30 33 35 38 41 44	2.1 2.4 2.5 2.7 2.8 3.0 3.1	7.4 5.3 4.4 3.7 3.1 2.6 2.1	40 45 47 50 52 55 57	3.0 3.1 3.2 3.4 3.5 3.9	6.1 5.3 4.5 3.8 3.2 1.8	52 54 57 59 62 68	3.9 4.2 4.6 4.9	9.4 7.2 5.3 3.8	60 67 73 80	5.3 5.6 6.0 6.3	10.2 8.3 6.6 5.1	78 84 89 98	1.5 2.7 3.2 4.2 5.6	0.7 1.5 2.0 3.0 4.0	25 36 58 61 64	33 51 74 74 76	46 69 91 94 97	1.8 2.0 2.0 2.1 2.3
SUN23	Liquid cap 60100 / Air cap 15340	1.0 1.1 1.3 1.4	17.0 11.0 7.6 3.2	23 27 33 40	2.0 2.1 2.2 2.4 2.5	24 18.9 14.4 10.6 7.2	44 50 56 63 71	2.4 2.5 2.7 2.8 3.0	28 23 18.3 15.1 11.7	51 59 66 74 79	3.4 3.5 3.7 3.8 3.9 4.2 4.6	38 33 28 23 19.7 13.1 7.2	72 80 89 97 105 120 138	3.9 4.2 4.6 4.9 5.3 5.6 6.3	65 53 40 30 21 13.8 3.2	75 89 108 127 149 173 225	1.1 2.1 2.8 3.7 4.9	0.7 1.5 2.0 3.0 4.0	10 10 13 15 20	13 13 17 20 25	15 17 22 28 35	2.4 3.0 3.4 3.6 4.0
SU23B	Liquid cap 40400 / Air cap 125358	1.1 1.3 1.4 1.5 1.7	11.2 8.5 6.5 5.0 3.8	54 60 65 71 77	2.1 2.2 2.4 2.5	18.0 15.8 13.6 11.6	79 84 89 95	2.7 2.8 3.0 3.1 3.2	19.6 17.3 15.2 13.2 11.4	93 98 103 109 114	3.5 3.7 3.8 3.9 4.1 4.2	27 25 23 21 18.9 17.0	112 116 121 126 132 137	4.6 4.9 5.3 5.6 6.0 6.3	33 28 24 19.7 15.7 12.4	137 149 161 174 187 200	1.4 2.4 3.0 3.7 5.3	0.7 1.5 2.0 3.0 4.0	15 23 25 30 33	18 28 33 38 41	20 33 46 46 48	3.0 3.2 3.4 3.5 4.0
SU23	Liquid cap 60100 / Air cap 125328	0.85 1.0 1.1 1.3 1.4 1.5	27 20 15.9 12.5 10.2 7.6	33 38 45 48 56 62	1.8 2.1 2.2 2.4 2.5 2.7	38 28 24 21 17.8 15.1	55 66 71 76 82 87	2.4 2.7 3.0 3.2 3.4 3.5 3.7	39 30 24 17.8 15.1 12.9 10.6	67 77 87 98 103 109 114	3.2 3.5 3.8 3.9 4.2 4.6 4.9	58 47 38 34 27 20 14.8	76 87 97 103 113 126 140	4.6 5.3 5.6 6.0 6.3 6.7 7.0	59 40 32 26 20 15.9 12.7	106 132 145 158 172 185 198	1.1 2.4 3.2 3.9 6.0	0.7 1.5 2.0 3.0 4.0	18 23 25 30 33	23 30 33 38 41	30 41 43 48 51	3.4 3.5 3.7 3.8 4.4
SU43	Liquid cap 100150 / Air cap 159351	1.0 1.1	29 18.9	90 108	1.8 2.0	56 40	117 133	2.1 2.2 2.4 2.5 2.7	100 79 62 48 36	119 133 147 162 177	3.0 3.1 3.2 3.4 3.5 3.7 3.8	126 110 95 78 62 48 37	140 151 163 184 193 210 225	4.1 4.2 4.6 4.9 5.3 5.6	140 125 89 58 34 16.7	181 193 225 265 305 340	1.0 1.8 2.4 3.4 4.9	0.7 1.5 2.0 3.0 4.0	18 25 25 33 36	20 30 30 41 43	25 43 46 53 58	3.4 3.8 4.3 4.6 5.2

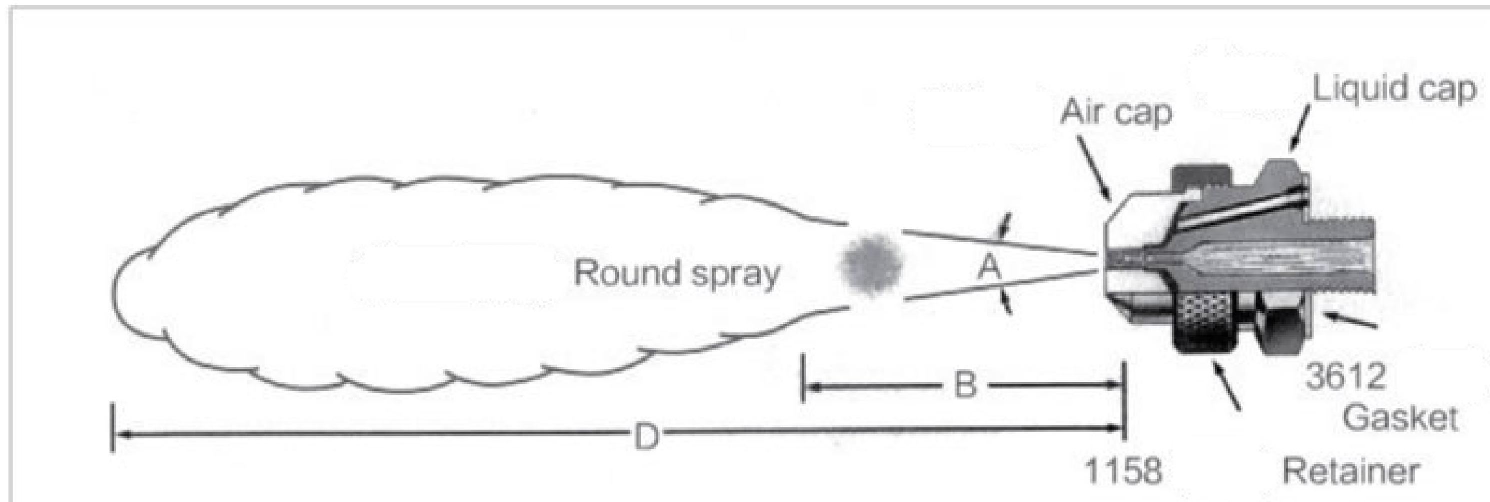
Pressure air atomizing nozzle –Round spray

Design Feature

For round spray pattern,Angle "A" is maintained throughout distance "B". Beyongd "B" ,the spray becomes turbulentand will project to distance

When using a pressure-fed liquid system,the liquid is supplied to the nozzle under pressure.

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



Round spray air cap
The air cap used in these spray set-up produces a narrow full cone round spray.

Remark:No.1158 retainer and 3612 gasket must be ordered separately from the spray set-up.But is included in the standard nozzle assembly.

Round spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	0.7bar Air pressure (bar)	0.7bar Water (L/h)	0.7bar Air (L/min)	1.5bar Air pressure (bar)	1.5bar Water (L/h)	1.5bar Air (L/min)	Water pressure 2bar Air pressure (bar)	2bar Water (L/h)	2bar Air (L/min)	3bar Air pressure (bar)	3bar Water (L/h)	3bar Air (L/min)	4bar Air pressure (bar)	4bar Water (L/h)	4bar Air (L/min)	Spray size: Air Bar	Liquid Bar	Spray angle A(cm)	B (cm)	D (m)
SU11	Liquid cap 2050 / Air cap 67147	0.7 0.85 1.0	2.5 1.8 1.4	15.6 19.0 22	1.1 1.4 1.7 1.8 2.0 2.1 2.2	6.4 5.0 4.1 3.4 3.0 2.6 2.0	11.9 15.0 18.7 20 23 25 27	1.4 1.7 2.0 2.2 2.4 2.5 2.7	6.4 5.5 4.5 3.4 3.0 2.5 2.3	13.9 16.7 19.8 24 26 28 31	2.7 2.8 3.0 3.1 3.2 3.4 3.7	6.2 5.7 5.2 4.7 4.3 3.9 3.0	23 25 27 29 31 33 38	3.5 3.7 3.9 4.2 4.5 4.6 4.8	7.8 7.3 6.4 5.5 4.5 4.1 3.7	28 29 33 38 43 45 47	0.85 1.7 2.5 3.1 4.5	0.7 1.5 2.0 3.0 4.0	13° 13° 13° 14° 15°	30 33 36 39 44	2.7 3.0 3.4 3.8 4.4
SU12A	Liquid cap 2050 / Air cap 73160	0.7 0.85 1.0	2.5 2.0 1.6	18.7 22 26	1.4 1.5 1.7 1.8 2.0 2.1	5.7 5.2 4.8 4.3 3.9 3.4	27 29 32 35 37 40	1.7 1.8 2.0 2.1 2.2 2.4 2.7	6.7 6.4 5.9 5.2 4.8 4.3 3.6	29 31 34 37 40 43 48	2.2 2.5 2.8 3.0 3.1 3.2 3.4	9.2 8.2 7.2 6.7 6.3 5.9 5.5	34 39 44 47 49 52 55	2.8 3.1 3.4 3.7 3.9 4.2 4.5	11.9 11.0 10.1 9.2 8.4 7.6 6.8	39 43 47 52 58 62 68	0.85 1.5 2.4 3.0 3.9	0.7 1.5 2.0 3.0 4.0	12° 13° 13° 13° 15°	43 46 48 51 56	3.7 4.0 4.6 4.6 5.2
SU12	Liquid cap 2850 / Air cap 73160	0.85 1.1 1.4 1.5 1.7 1.8 2.0	4.8 4.1 3.4 3.1 3.0 2.9 2.8	21 27 33 35 39 41 44	1.7 1.8 2.0 2.2 2.5 2.8 3.1	8.4 7.5 7.0 5.7 4.8 4.1 3.6	31 35 37 44 49 54 59	2.0 2.1 2.4 2.7 3.0 3.2 3.5	10.7 9.8 8.2 6.8 5.9 5.0 4.1	33 37 42 48 55 59 65	2.7 2.8 3.1 3.4 3.7 3.9 4.2	16.5 15.4 13.6 11.8 10.4 9.1 7.9	37 38 43 49 55 61 65	3.4 3.7 3.9 4.2 4.5 4.8 4.9	20 18.4 16.8 15.2 13.8 12.4 11.8	43 47 50 55 60 65 68	1.5 2.5 3.0 3.4 4.2	0.7 1.5 2.0 3.0 4.0	12° 13° 13° 14° 15°	48 51 53 56 60	4.0 4.3 4.6 4.9 5.3
SU22B	Liquid cap 40100 / Air cap 1401110	1.1 1.4 1.5 1.7 1.8 2.0 2.1	13.0 8.9 7.2 5.8 4.7 3.6 2.7	76 91 98 105 112 119 127	2.2 2.5 2.8 3.1 3.4 3.5	17.8 13.1 9.5 7.0 4.9 4.2	116 130 143 157 171 178	2.8 3.1 3.4 3.9 4.2 4.6	20 16.3 11.9 7.0 4.7 3.0	136 149 163 187 205 220	3.4 3.9 4.6 5.3 5.6 6.0 6.3	32 25 15.9 9.1 6.8 5.0 3.6	149 170 205 240 255 275 290	4.6 5.3 5.6 6.0 6.3 6.7 7.0	37 29 25 21 17.4 14.0 11.0	193 220 235 250 270 290 305	1.7 2.8 3.9 5.3 6.0	0.7 1.5 2.0 3.0 4.0	18° 20° 20° 21° 21°	66 76 81 91 97	4.9 6.1 6.7 7.9 9.1
SU22	Liquid cap 60100 / Air cap 1401110	0.85 1.0 1.1 1.3	31 25 18.5 12.9	57 66 75 85	1.4 1.5 1.7 1.8 2.0 2.1 2.2	61 54 48 41 35 30 25	69 76 85 93 102 110 119	2.1 2.4 2.7 2.8 3.0	53 41 31 26 22	96 112 127 136 144	2.7 3.0 3.2 3.5 3.7 3.8 3.9	80 69 59 49 44 37 35	103 117 130 146 154 161 170	3.8 4.2 4.6 4.9 5.3 5.6 6.0	88 73 61 48 39 31 23	135 156 176 196 215 240 260	1.0 1.8 2.8 3.5 4.9	0.7 1.5 2.0 3.0 4.0	17° 18° 20° 20° 21°	61 69 76 79 91	4.9 5.8 6.7 7.0 8.5
SU42	Liquid cap 100150 / Air cap 1891125	1.0 1.1	44 32	86 102	1.4 1.5 1.7 1.8 2.0	125 106 87 70 55	79 91 105 118 130	2.0 2.1 2.2 2.4 2.5 2.7 2.8	123 108 95 79 64 52 42	108 119 130 143 155 166 178	2.2 2.5 2.8 3.1 3.2 3.4 3.5	199 174 146 121 108 95 84	88 110 133 154 166 176 187	3.0 3.2 3.5 3.8 4.1 4.6 4.9	250 225 205 182 159 121 93	99 120 141 163 184 225 255	1.0 1.7 2.4 3.1 3.8	0.7 1.5 2.0 3.0 4.0	19° 20° 21° 21° 22°	89 99 104 107 117	6.1 7.0 7.6 7.9 9.1

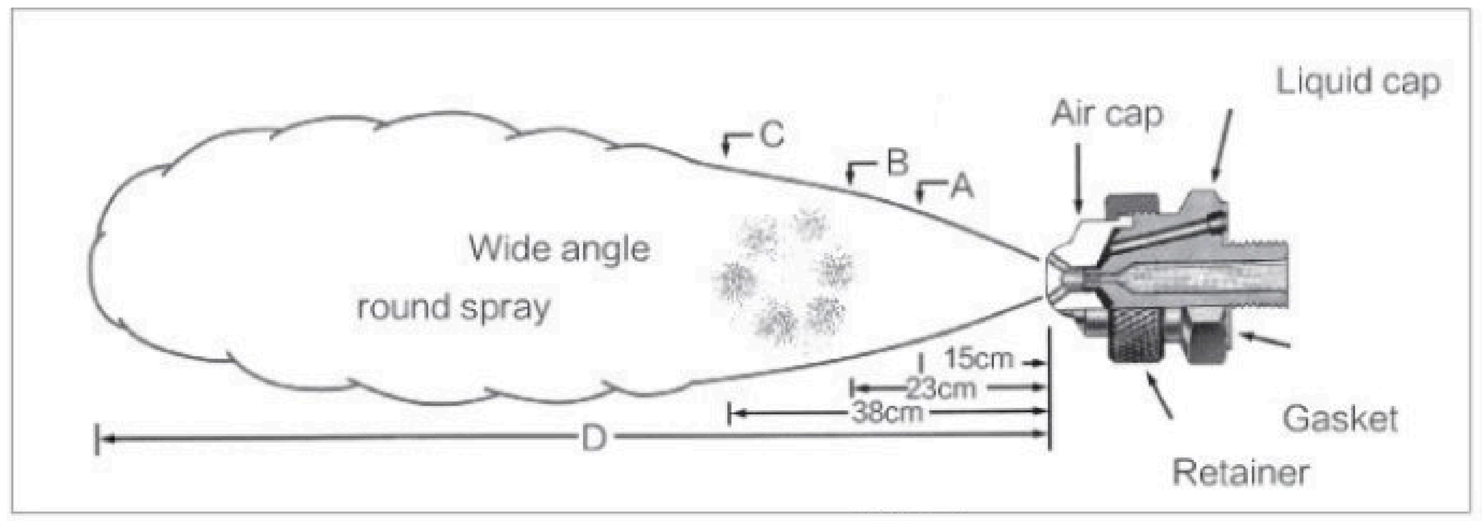
Pressure air atomizing nozzle – Wide angle round spray

Design Feature

For wide angle round spray,dimensions "A" "B" "C" are the pattern width at distance from the nozzle.The total spray distance of spray projection from the nozzle to the maximum dispersal point is represented by "D".

When using a pressure-fed liquid system,the liquid is supplied to the nozzle under pressure.

The liquid and compersssed air or gas are mixed internally to produce a completely atomized spray.



Wide angle round spray air cap
The air cap used in these spray set-up produces a hollow cone and wide angle round spray.

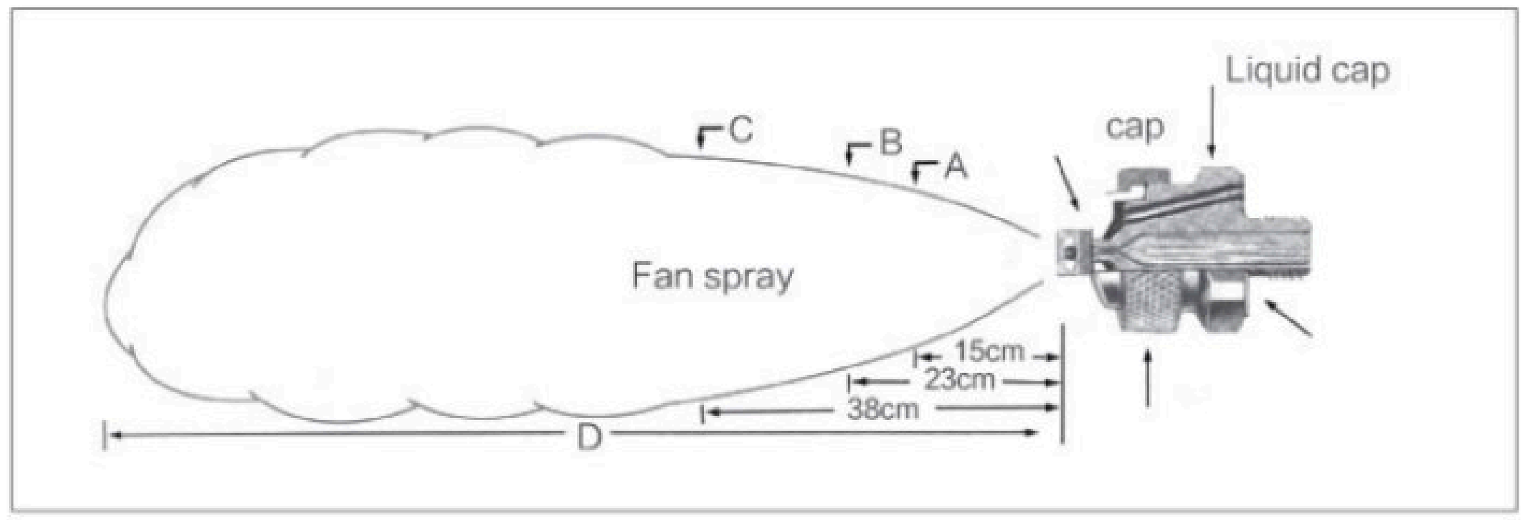
Remark:Nod158 retainer and 3612 gasket must be ordered separately from the spray set-up.But is included in the standard nozzle assembly.

Wide angle round spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	0.7bar Air pressure (bar)	0.7bar Water (L/h)	0.7bar Air (L/min)	1.5bar Air pressure (bar)	1.5bar Water (L/h)	1.5bar Air (L/min)	Water pressure 2bar Air pressure (bar)	2bar Water (L/h)	2bar Air (L/min)	3bar Air pressure (bar)	3bar Water (L/h)	3bar Air (L/min)	4bar Air pressure (bar)	4bar Water (L/h)	4bar Air (L/min)	Spray size: Air Bar	Liquid Bar	A (cm)	B (cm)	C (cm)	D (m)
SU16	Liquid cap 2050 / Air cap 67-6-20-70°	0.6 0.7 0.85 0.10	5.3 4.3 3.0 1.7	10.2 12.2 14.2 17.0	1.1 1.3 1.4 1.5 1.7 1.8	8.1 7.0 6.4 5.5 4.5 3.5	13.3 15.0 17.0 19.0 22 24	1.5 1.8 2.1 2.4	8.1 6.6 4.9 3.2	16.4 21 25 29	2.4 2.7 3.0 3.2 3.4 3.5	8.9 8.1 6.4 4.9 4.2 3.4	22 26 30 34 27 40	3.1 3.4 3.9 4.2 4.6 4.9	10.5 9.7 7.8 6.1 4.4 2.8	24 28 36 42 47 54	0.7 1.4 1.8 3.0 3.9	0.7 1.5 2.0 3.0 4.0	14 15 16 16 19	18 19 20 20 23	23 24 25 26 30	1.5 1.8 2.1 2.7 4.0
SU26B	Liquid cap 40100 / Air cap 140-6-37-70°	0.85 1.0	7.0 2.1	50 62	1.7 1.8	13.2 9.8	68 79	2.0 2.1 2.2	18.5 15.1 11.7	68 76 85	2.8 3.0 3.1 3.2 3.4 3.5 3.7	25 22 18.5 15.1 12.1 9.1 6.1	84 92 101 109 119 130 142	3.7 3.8 3.9 4.1 4.2 4.6 4.9	31 28 26 23 20 13.6 6.8	96 105 113 122 130 153 183	0.85 1.7 2.1 3.2 4.1	0.7 1.5 2.0 3.0 4.0	18 19 19 20 21	24 25 25 26 28	31 33 33 34 37	1.8 2.4 3.2 4.1 5.9
SU26	Liquid cap 60100 / 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 1.8	43 35 28 21	37 49 61 71	2.1 2.2 2.4 2.5	33 26 18.9 11.7	66 78 89 100	2.8 3.0 3.1 3.2 3.4 3.5 3.7	52 46 39 33 26 19.5 13.2	65 76 87 99 110 122 133	3.7 3.8 3.9 4.2 4.6 4.9	63 58 52 41 27 15.9	68 79 101 111 138 166	0.85 1.5 2.4 3.2 3.9	0.7 1.5 2.0 3.0 4.0	19 20 20 20 20	25 27 27 28 28	36 37 37 38 39	2.1 3.2 4.1 5.0 6.8
SU29	Liquid cap 60100 / 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 13.6	116 130 143 157 170 185 220	3.1 3.2 3.4 3.5 3.9 4.6 4.9	53 50 47 45 38 25 18.5	156 163 170 177 194 230 245	4.2 4.9 5.6 6.0 6.3 6.7 7.0	64 51 40 34 28 22 17.8	197 230 265 285 300 320 335	5.6 6.0 6.3 6.7 7.0	74 68 62 56 51	245 260 280 295 315	2.0 3.0 3.9 6.0 6.3	0.7 1.5 2.0 3.0 4.0	20 20 22 23 24	25 27 28 29 32	33 34 37 38 41	5.5 6.4 8.2 9.1 10.4
SU30	Liquid cap 40100 / Air cap 120-6-35-60°	1.1 1.3 1.4 1.5 1.7 1.8 2.0	12.3 9.9 7.9 6.1 4.9 3.9 3.1	40 45 50 54 58 62 67	2.2 2.5 2.8 3.0 3.1 3.2 3.4	16.3 12.1 8.9 7.6 6.4 5.5 4.7	62 71 79 83 87 91 95	2.7 3.0 3.2 3.4 3.5 3.9 4.2	21 16.3 12.3 10.7 9.3 6.4 4.7	69 78 86 91 94 105 115	4.2 4.6 4.9 5.3 5.6 6.0 6.3	19.3 14.6 10.8 8.1 6.2 4.9 4.0	100 113 124 135 146 157 167	5.6 6.0 6.3 6.7 7.0	22 17.6 14.0 11.4 9.1	130 142 152 163 174	1.5 3.0 3.4 5.3 6.3	0.7 1.5 2.0 3.0 4.0	15 16 16 18 19	19 20 20 22 24	23 24 24 25 30	2.7 4.6 5.5 7.3 9.4
SU46	Liquid cap 100150 / Air cap 189-6-62-70°	1.7 1.8 2.0 2.1 2.3	25 19.7 15.1 11.4 7.6	156 167 178 193 205	3.0 3.1 3.2 3.4 3.5 3.7	39 33 27 23 18.5 14.8	230 240 255 265 280 290	3.4 3.5 3.7 3.9 4.1 4.2 4.4	50 43 41 27 23 18.9 15.9	250 260 275 300 310 320 335	4.6 4.9 5.3 5.6 6.0 6.3	62 47 36 26 18.9 13.6	320 345 375 405 435 460	6.0 6.3 6.7 7.0	93 77 62 52	395 425 460 495	2.0 3.2 3.9 5.3 6.3	0.7 1.5 2.0 3.0 4.0	24 25 28 29 33	33 34 37 38 42	46 47 51 53 58	5.5 6.4 7.3 7.9 9.8

Design Feature

To control the changes by external mix to change gas pressure without liquid flow,For flat fan spray,dimensions "A"B" and "C" are the pattern width at distance from the nozzle,as shown in picture,The total spray distance of spray projection from the nozzle to the maximum dispersal point is represented by "D" .When using a pressure-fed liquid system,the liquid is supplied to the nozzle under pressure,The liquid and compressed air or gas are mixed externally to produce a completely atomized spray.



External mix air cap

The air cap used in these spray set-up produces a flat fan spray.

Remark;No,1158 retainer and 3612 gasket must be ordered separately from the spray set-up,But is included in the standard nozzle assembly.

Flat fan spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	Liquid capacity(L/h)and Air capacity(L/min)															Spray size					
		0.2bar			0.3bar			Water pressure 0.7bar			1.5bar			4bar								
		Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air Bar	Liquid Bar	A (cm)	B (cm)	C (cm)	D (m)
SUE15B	Liquid cap	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
	1650	0.35	26.3		0.7	31.2		1.05	39.6		1.75	53.8		3.5	85.0		1.05	0.2	9	15	23	1.2
		0.7	31.2		1.05	39.6		1.4	45.3		2.1	59.5		4.2	102		1.4	0.35	10	15	23	1.2
	/	1.05	39.6	2.8	1.4	45.3	3.5	1.78	53.8	5.3	2.8	73.6	7.8	4.9	119	11.0	1.4	1.4	11.5	18	25	1.5
	Air cap	1.4	45.3		1.75	53.8		2.1	59.4		3.5	85.0		5.3	127.5		1.75	0.7	11.5	15	24	1.5
	67228-45°	1.75	53.8		2.1	59.4		2.8	73.6		4.2	102		5.6	139		2.8	1.4	13	18	28	1.8
		2.1	59.4		2.8	73.6		3.5	85.0		5.6	139		6.3	159		4.9	2.8	15	18	24	2.4
SUE18B	Liquid cap																0.4	0.3	20	28	33	1.2
	1650	0.35	22		0.35	22		0.4	25		0.6	28		0.7	34		0.6	0.7	23	30	40	1.8
		0.4	25		0.4	25		0.6	28		0.7	34		1.1	45		0.6	1.5	28	35	46	1.8
	/			2.8			3.5			5.3			7.8			11.0	1.1	1.5	28	33	43	2.4
	Air cap	0.5	27.5		0.6	28		0.7	34		1.1	45		1.8	62		1.4	1.5	25	30	41	2.7
	62240-60°	0.6	28		0.7	34		0.85	40		1.4	54		2.5	79		1.1	2.0	28	35	48	2.6
																	1.4	3.0	30	38	51	2.7
SUE15A	Liquid cap	0.36	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
	2050	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	4.5	1.75	53.8	5.5	21	59.4	8.3	3.5	85.0	12.5	4.9	119	16.6	1.75	1.4	13	19	29	2.1
	Air cap	1.75	53.8		2.1	59.4		2.8	73.6		4.2	102		5.25	127		2.1	0.7	13	18	25	1.8
	67228-45°	2.1	59.4		2.8	73.6		3.5	85.0		4.9	119		6.3	159		3.5	1.4	13	22	30	2.4
		2.8	73.6		3.5	85.0		4.2	102		6.3	159		6.7	164		5.3	2.8	15	19	25	3.0
SUE18A	Liquid cap																0.7	0.3	28	33	40	1.5
	2050	0.35	22		0.35	22		0.6	28		0.7	34		1.1	45		1.1	0.7	30	38	48	2.1
		0.6	28		0.7	34		0.7	34		1.4	54		1.4	54		0.7	1.5	38	46	58	1.8
	/			4.5			5.5			8.3			12.5			17.2	1.4	1.5	35	43	56	2.4
	Air cap	0.7	34		1.1	45		1.4	54		2.1	71		2.1	71		2.5	1.5	33	40	51	3.0
	62240-60°	1.1	45		1.4	54		2.1	57		2.5	79		2.5	79		1.8	2.0	38	46	58	2.7
																	1.8	3.0	41	48	66	2.9
SUE15	Liquid cap	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
	2850	1.05	39.6		1.4	45.3		1.72	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	8.5	2.1	59.4	10.4	2.8	73.6	15.9	4.2	102	23	5.3	127	33	2.5	1.4	14	20	32	1.8
	Air cap	2.1	59.4		2.8	73.6		3.5	85.0		4.9	119		5.6	139		2.8	0.7	14	19	30	2.3
	67228-45°	2.8	73.6		3.5	85		4.2	102		5.6	139		6.3	159		4.2	1.4	14	20	36	3.0
		3.5	85		4.2	102		4.9	119		6.3	159		7.0	176		5.3	2.8	16.5	20	30	4.0
SUE18	Liquid cap																0.6	0.3	35	48	61	1.8
	2850	0.4	25		0.4	25		0.4	25		0.7	34		1.4	54		0.6	0.7	35	48	63	1.5
		0.5	27.5		0.6	28		0.6	28		0.85	40		1.8	62		0.7	1.5	38	48	63	1.8
	/			8.5			10.4			15.9			23			33	1.1	1.5	41	51	66	2.1
	Air cap	0.6	28		0.65	31		0.7	34		1.1	45					1.4	1.5	43	53	66	2.4
	62240-60°	0.7	34		0.7	34		0.8	40		1.4	54		2.1	71		1.8	2.0	41	51	69	2.7
														2.5	79		2.1	3.0	41	51	69	2.9

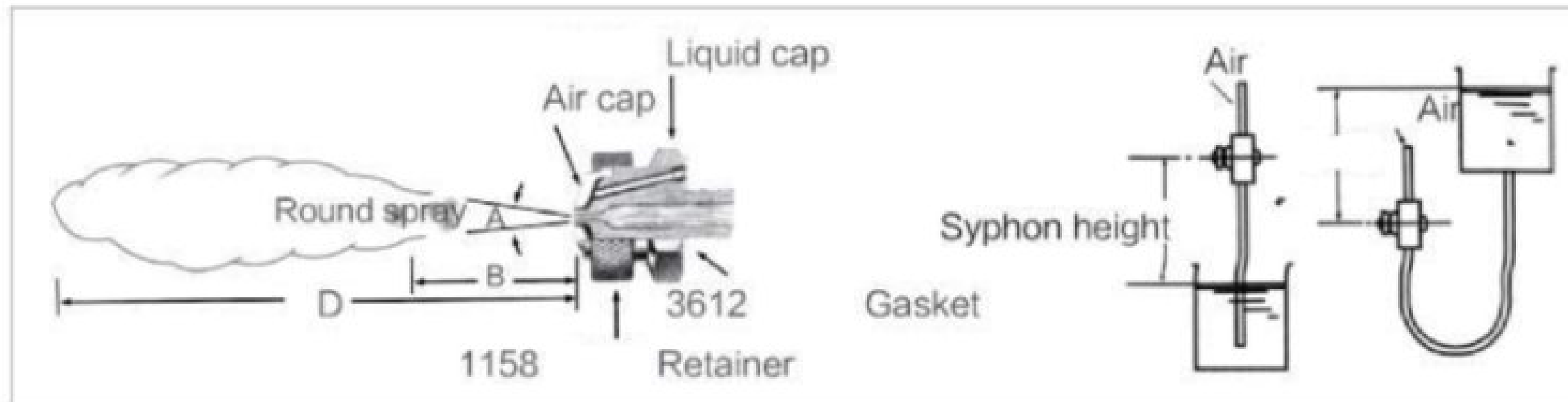
Flat fan spray(External mix)

Spray set-up No.	Spray set-up consists of fluid and air cap combination	Liquid capacity(L/h)and Air capacity(L/min)															Spray size					
		0.2bar			0.3bar			Water pressure 0.7bar			1.5bar			4bar								
		Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	Air pressure (bar)	Air (L/min)	Water (L/h)	pressure (bar)	Air (L/min)	Water (L/h)	Air Bar	Liquid Bar	A (cm)	B (cm)	C (cm)	D (m)
SUE25B	Liquid cap	0.7	85		1.0	102		1.4	116		2.5	178		3.2	212		0.7	0.2	13	19	25	1.7
	1650	1.0	102		1.4	116		1.8	139		2.8	195		3.5	232		1.8	0.2	13	19	25	2.7
		1.4	116		1.8	139		2.1	156		3.5	227		3.9	255		2.1	0.35	15	19	28	3.0
	/	1.8	139	13.4	2.1	156	16.4	2.5	178	25	4.2	266	37	4.2	275	52	2.5	0.7	15	22	28	3.5
	Air cap	2.1	156		2.8	195		2.8	195		4.9	312		4.9	314		2.5	1.4	16.5	23	36	3.7
	67228-45°	2.8	195		3.8	227		3.5	227		5.6	360		5.6	360		4.2	1.4	16.5	23	37	4.3
		3.5	227		4.2	266		4.2	266		6.3	411		6.3	111		4.9	2.8	16.5	22	32	4.9
SUE28B	Liquid cap																1.4	0.3	33	38	48	3.8
	1650	0.6	91		0.7	102		1.4	156		2.1	210		3.2	285		2.1	0.7	33	40	56	4.3
		0.7	102		1.1	130		2.1	210		2.8	260		4.2	360		2.1	1.5	35	46	58	4.0
	/			13.4			16.4			25			37			52	3.2	4.5	38	48	66	4.6
	Air cap	1.1	130		1.8	184		2.5	235		3.5	310		5.3	430		4.2	4.5	38	48	64	5.2
	62240-60°	1.4	156		2.1	210		2.8	260		4.2	360		5.6	455		3.9	2.0	41	51	69	4.6
																	4.2	3.0	38	51	71	4.9
SUE25A	Liquid cap	0.7	85		1.4	116		1.8	139		2.8	195		3.5	232		0.7	0.35	15	19	27	2.1
	2050	1.0	102		1.8	139		2.1	156		3.2	212		4.2	275		1.8	0.7	15	19	27	3.0
		1.4	116		2.1	156		2.5	178		3.5	227		4.9	314		2.5	1.4	15	22	33	3.4
	/	1.8	139	17.6	2.5	178	22	2.8	195	33	4.2	266	48	5.3	340	68	2.8	1.4	15	22	36	3.8
	Air cap	2.1	159		2.8	195		3.5	227		4.9	312		5.6	360		2.8	1.4	16.5	25	37	4.0
	67228-45°	2.8	195		3.5	227		4.2	266		5.6	360		6.3	411		4.2	2.1	16.5	25	37	4.9
		3.5	227		4.2	266		4.9	312		6.3	411		6.6	428		5.3	2.8	18	23	36	5.8
SUE28A	Liquid cap																1.1	0.2	33	38	51	3.5
	2050	0.6	91		0.7	102		1.1	130		2.5	235		3.5	310		1.8	0.7	35	48	64	3.0
		1.1	130		1.4	156		1.8	184		3.2	285		4.6	380		2.5	1.5	38	46	64	3.8
	/			17.6			22			33			48			68	3.2	1.5	33	43	61	4.3
	Air cap	1.4	156		1.8	184		2.5	235		3.9	330		6.0	475		4.2	1.5	30	43	58	4.9
	62240-60°	1.8	184		2.1	210		2.8	260		4.2	360		6.7	525		4.2	2.0	33	43	61	5.0
																	4.9	3.0	33	43	61	4.0
SUE28	Liquid cap																2.1	0.3	40	56	76	3.0
	2850	0.7	102		1.1	130		1.8	184		3.2	285		5.3	430		2.8	0.7	46	58	81	4.0
		1.1	130		1.4	156		2.1	210		3.5	310		6.0	475		3.2	1.5	48	58	79	4.3
	/			36			45			68			100			141	4.6	1.5	43	53	76	4.9
	Air cap	1.4	156		2.1	210		2.8	260		4.9	405		6.7	525		5.6	1.5	38	54	66	5.8
	67228-45°	1.8	184		2.5	235		3.2	285		5.9	455		7.0	550		3.9	2.0	48	64	84	4.3
																	6.3	3.0	41	56	79	5.8
SUE25	Liquid cap	1.0	102		1.8	139		2.5	178		3.2	212		3.9	255		1.0	0.2	15	20	25	2.7
	2850	1.4	116		2.1	156		2.8	195		3.5	227		4.2	275		2.1	0.2	15	22	29	3.0
		1.8	139		2.5	178		3.2	212		3.9	246		4.6	297		2.8	0.35	18	24	36	3.5
	/	2.1	156	36	2.8	195	45	3.5	227	68	4.2	266	100	4.9	314	141	3.2	1.4	20	28	39	3.7
	Air cap	2.5	178		3.2	212		4.2	266		4.9	312		5.6	360		3.5	0.7	19	27	38	4.0
	62240-60°	2.8	195		3.5	227		4.9	312		5.6	360		6.3	411		4.2	1.4	20	28	39	4.3
		3.5	227		4.2	266		5.6	360		6.3	411		7.0	453		5.6	2.8	18	24	38	5.9
SUE45B	Liquid cap	1.8	235		1.8	235		2.5	300		3.9	410					1.8	0.2	15	20	29	3.0
	60150	2.1	260		2.1	260		2.8	330		4.2	445					2.8	0.2	15	20	30	3.4
		2.5	300		2.5	300		3.2	355		4.6	480					2.8	0.3	15	20	30	4.0
	/	2.8	330	36	2.8	330	45	3.5	380	68	4.9	529	100				3.5	0.7	17	22	32	4.3
	Air cap	3.2	355		3.2	355		3.9	410		5.3	265					3.9	1.5	17	22	34	4.6
	200278-45°	3.5	380		3.5	380		4.2	445		5.6	600					4.2	1.0	17	23	33	4.7
		4.2	445		4.2	445		4.9	520		6.3	685					4.9	1.5	17	23	34	5.5
SUE45A	Liquid cap	2.1	260		2.8	330		3.9	410		4.9	520					2.1	0.2	17	24	34	3.5
	80150	2.5	300		3.2	355		4.2	445		5.3	565					3.2	0.2	18	24	36	4.3
		2.8	330		3.5	380		4.6	480		5.6	600					3.9	0.3	18	25	36	4.9
	/	3.2	355	64	3.9	410	78	4.9	520	119	6.0	640	175				4.9	0.7	18	25	36	5.5
	Air cap	3.8	380		4.2	445		5.3	565		6.3	685					4.9	1.5	20	25	38	5.5
	200278-45°	4.2	445		4.9	520		5.6	600								5.3	1.0	18	25	38	5.8
		4.9	520		5.6	600		6.3	685								5.6	1.5	20	25	38	6.1
SUE45	Liquid cap	2.8	330		3.5	380		4.6	480		5.6	600					2.8	0.2	19	25	36	4.6
	100150	3.2	355		3.9	410		4.9	520		6.0	640					3.9	0.2	20	25	37	4.9
		3.5	380		4.2	445		5.3	565		6.3	685					4.6	0.3	20	25	37	5.2
	/	3.9	410	102	4.6	480	125	5.6	600	192			280				5.3	0.7	22	27	38	5.5
	Air cap	4.2	445		4.9	520		6.0	640								5.6	1.0	22	27	41	5.2
	200278-45°	4.6	480		5.3	565		6.3	685								5.6	1.5	22	27	41	5.8
		4.9	520		5.6	600											6.0	1.5	22	27	41	6.1

Syphon air atomizing nozzle

Design Feature

For round spray type,spray can keep spray angle "A" within "B" range,Spray becomes turbulence when it goes beyond "B" ,and extends to "D" ·
Using syphon or gravity convey liquid systems supply goes to liquid through liquid syphon or gravity convey.



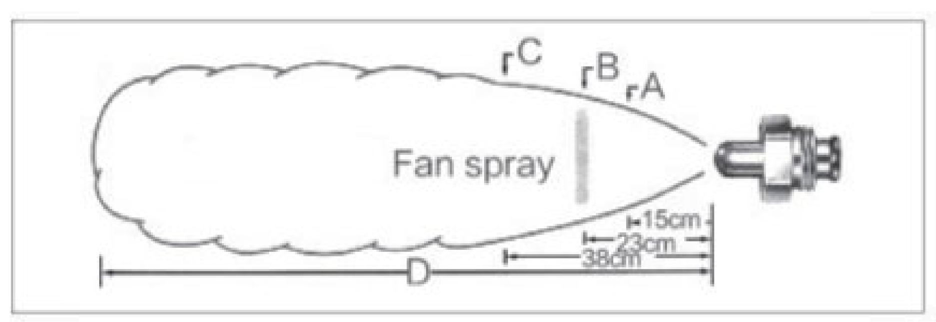
The air cap of round spray and fan shape spray
The air cap from these spray system generates full cone round spray and fan shape spray

Remark: No. 1158 retainer and 3612 gasket must be ordered separately from the spray set-up.But is included in the standard nozzle assembly.

Round spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	Atomizing air: Air pressure (bar)	Atomizing air: Air capacity (L/min)	Liquid capacity(L/h) Gravity head 45(cm)	Gravity head 30(cm)	Gravity head 15(cm)	Syphon height 10(cm)	Syphon height 20(cm)	Syphon height 30(cm)	Syphon height 60(cm)	Syphon height 90(cm)	Spray size at 20cm syphon height: Air Bar	Spray angle	B (cm)	D (m)
SUJ1A	Liquid cap1650 Air cap J64	0.7	11.3	1.5	1.3	1.1	0.87	0.68	0.53			0.7	18°	28	1.8
		1.5	17.0	1.8	1.7	1.5	1.3	1.2	1.1	0.62		1.5	18°	28	1.9
		3.0	28	2.1	1.9	1.7	1.5	1.4	1.3	1.1	0.76	3.0	18°	30	2.3
		4.0	36	2.2	2.0	1.8	1.6	1.5	1.4	1.2	0.87	4.0	18°	36	2.6
SUJ1	Liquid cap J2050 Air cap J64	0.7	11.3	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
		3.0	32	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	3.0	18°	38	2.6
		4.0	41	3.7	3.4	3.3	3.1	2.9	2.7	2.1	1.5	4.0	19°	43	3.0
SUJ2A	Liquid cap J2050 Air cap J70	0.7	23	2.5	2.3	2.0	1.6	1.4	1.1			0.7	18°	30	2.4
		1.5	36	2.9	2.8	2.5	2.2	2.0	1.7	0.89		1.5	18°	33	2.7
		3.0	58	3.4	3.3	3.2	2.9	2.8	2.5	1.9	1.2	3.0	19°	38	3.4
		4.0	74	3.7	3.6	3.5	3.4	3.3	3.0	2.5	2.0	4.0	20°	43	4.0
SUJ2	Liquid cap J2850 Air cap J70	0.7	19.3	4.5	4.0	3.4	2.1	1.8	1.4			0.7	21°	38	3.0
		1.5	31	5.3	4.9	4.4	3.5	2.9	2.7	1.8		1.5	21°	41	3.4
		3.0	50	6.0	5.6	5.0	4.4	4.0	3.4	2.4	1.2	3.0	21°	46	4.0
		4.0	65	5.7	5.4	5.0	4.2	3.9	3.5	2.8	1.9	4.0	22°	51	4.6
SUJ4	Liquid cap J60100 Air cap J**120**	1.5	58	22	19.9	16.3	12.3	10.5	8.3	2.8		1.5	17°	46	3.7
		3.0	88	25	23	19.5	16.7	14.2	11.5	6.4	2.8	3.0	18°	51	4.3
		4.5	111	26	24	21	18.4	15.7	12.9	7.9	4.5	4.0	18°	53	4.9
		5.6	147	26	24	22	19.7	17.0	14.6	9.8	6.1	5.6	19°	58	5.5
SUJ4B	Liquid cap J**100150** Air cap J**180**	**2.0**	**144**				**27**	**22**	**16.8**			**2.0**	20°	**51**	**6.7**
		3.0	**190**				**30**	**26**	**21**			**3.0**	20°	**53**	**7.0**
		4.0	**240**		**43**	**40**	**31**	**28**	**23**	**11.0**		**4.0**	21°	**58**	**7.6**
		5.6	**315**	**44**	**42**	**39**	**31**	**28**	**24**	**16.7**	**8.3**	**5.6**	22°	**63**	**8.2**

For flat fan spray .dimensions "A" "B" "C" are the pattern width at distance from the nozzle,as shown in picture.The total spray distance of spray projection from the nozzle to the maximum dispersal point is reprensented by "D" •



Fan spray

Spray set-up No.	Spray set-up consists of fluid and air cap combination	Atomizing air: Air pressure (bar)	Atomizing air: Air capacity (L/min)	Liquid capacity(L/h) Gravity head 45(cm)	Gravity head 30(cm)	Gravity head 15(cm)	Syphon height 10(cm)	Syphon height 20(cm)	Syphon height 30(cm)	Syphon height 60(cm)	Syphon height 90(cm)	Spray size at 20cm syphon height: Air Bar	A (cm)	B (cm)	C (cm)	D (cm)
SUJF1	Liquid cap J2850 Air cap J73420	**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	0.7	0.68	0.57	0.5				2.0	23	30	38	1.8
SUJF2C	Liquid cap J35100 Air cap J20432	1.5	56	3.7	3.5	3.3	2.9	2.8	2.5	2.3	2.1	1.5	23	32	38	2.7
		2.0	65	3.4	3.3	3.1	2.8	2.7	2.6	2.4	2.2	2.0	24	3**4**	42	2.7
		3.0	87	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7	3.0	27	37	46	3.0
		4.0	110	1.9	1.8	1.6	1.5	1.**3**	1.2			4.0	28	39	48	2.7
SUJ3B	Liquid cap J Air cap J22435	1.5	68	5.1	4.8	4.5	3.8	3.7	3.5	3.0	2.4	1.5	19	23	27	3.4
		2.0	78	4.9	4.7	4.4	3.6	3.4	3.2	2.9	2.3	2.0	20	25	28	3.4
		3.0	103	3.4	3.2	3.0	2.2	2.0	1.7			3.0	22	27	30	3.0
		3.5	117	2.2	2.0	1.7										
SUJ4B	Liquid cap J40100 Air cap J22440	1.5	68	7.6	7.2	6.6	5.7	5.4	5.1	4.6	3.7	1.5	17	22	27	3.4
		2.0	73	7.6	7.3	6.8	5.9	5.7	5.5	5.0	4.2	2.0	18	23	29	3.4
		3.0	96	6.4	6.1	5.7	5.0	4.51	4.1	3.3		3.0	20	27	33	3.4
		3.5	110	4.2	3.7	3.2	2.6									

DK Automatic super-fine atomizing nozzle

Design Feature

Automatic fine atomizing nozzle can provides independent control for liquid atomized into gas and fan gas pressure, in order to fine adjustment on flow rate,drops, spray distribution and coverage.Scientific and rational design get satisfied effect when nozzle spray viscous liquid. It can make adjustment for independent gas atomizing pipeline,in order to adjust drops size without influence of flow rate of liquid」t adopts an additional entry and an exit chanel to make liquid recycle,which keep viscous liquid flow well. In-buit-driver nozzle' s clear needle valve installation can remove the block from nozzle.Automatic fine atomizing nozzle can use anyone of 7 different spray installation which provides flow rate range from 2.8L/hour to 179L/hour.It makes adjustment and readjustment within several seconds to atomized gas Jan and liquid flow rate.So that changing settings to fit for all kinds of spray applications.For choices,timing controller can reach 180 automatic "on/off" circulation per minunte.Air cyliner operation needs at least 2.4 bar pressure.

Performance Data

Spray device No.	Flow rate (L/h) 0,2bar	Flow rate (L/h) 1,4bar	Data No,
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 : Device SX-CC006' s data set a typical example about preformance data for all which are suitable for spray installation.

Applicable for humidifing and coating process which requires for precison about spray distribution and coverage.

Common Application

- Coating
- Humidifing
- Viscous liquid jet
- Circulating system

DK1/8 DK1/8Nozzle	Atomizing air pressure Bar	Water pressure Bar	Spray range(cm)at the distance from the indicated to nozzle....at the fan air pressure(bar) 0bar			0.3bar			0.7bar			1.5bar			3bar		
Spray device No. 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
VF100-BRASS VA125-BRASS Composed by VF-100-BRASS liquidcap and VA125-BRASS air cap	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	15.8	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

Spray is round,at 0 bar fan air pressure.

Order information

DK1/8	316SS	SX-CC006
Nozzle No.	Material code	Nozzle device No.

Remark:
BRASS
SS- Stainless steel
316SS - 316 Stainless steel

AA Super-fine atomizing nozzle

AAZ-W
BSPT Filter in side, wide angle spray
1/4" NPT or BSPT(male)

AAZ-N
Filter in side, wide angle spray
1/4" NPT or BSPT(female)

AAZ-M
Bicorporate design
1/4" NPT or BSPT(male)

Design Feature

Super-fine jet nozzle only use liquid pressure to produce tiny drops.Spray shape is uniform hollow cone, which can bring fog. All parts are percision crafted.Spray orifice inlay, core and filter are easy to be detached to maintain or clean.The above nozzles all are with filters.

Performance Data

AAZ-W	AAZ-N	AAZ-M	Rated Spray orifice Dia. (mm)	Core No.	Flow rate(L/h)									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°

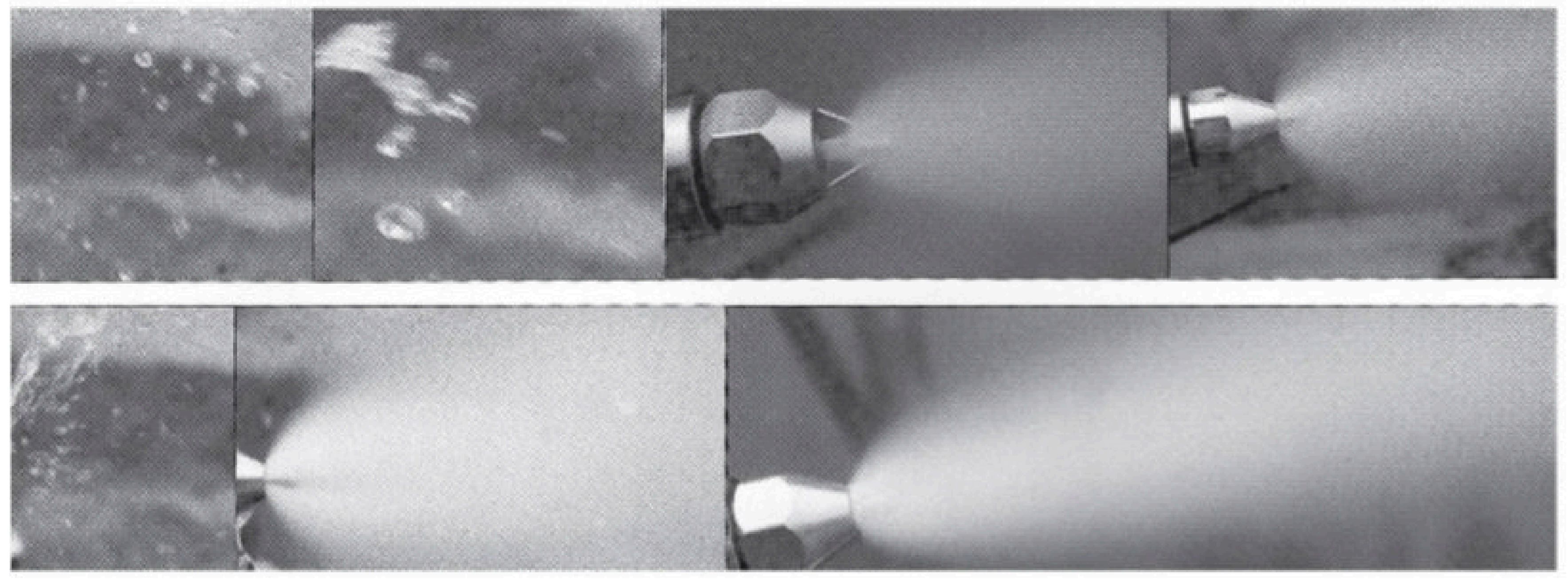
Common Application

- Humidifying
- Cooling
- Spreading
- Water Conditioning
- Evaporative cooling

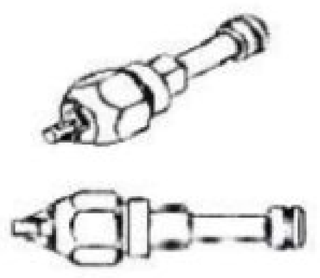
Order information

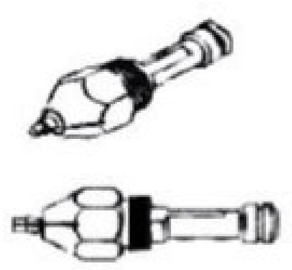
AAZ-W	— 1/4 —	206
Nozzle style	Inlet connector size	Core No.

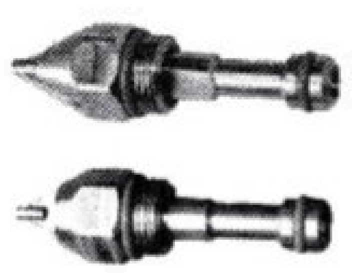
Ultrasonic Air Atomizing Nozzle



Core Products



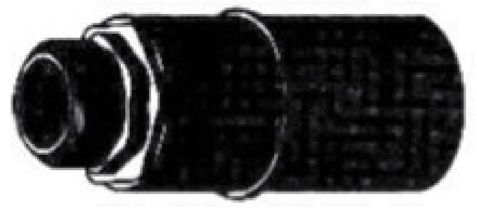




Categories	ADG SK508 nozzles 80°	ADG SV980 nozzles 30°	ADG SV882 nozzles 60°
Gas pressure	5.2bar	3.5bar	5.2bar
Water pressure	1.5bar	0.6bar	1.2bar
Gas consumption	115L/Min	260L/Min	240L/Min
Water consumption	7.1L/Hr	45L/Hr	20L/Hr
Atomizing granularity	3-6microns	4-10microns	7-10microns
Gas filtration demand	<40microns	<40microns	<40microns
Water filteation demand	<50microns	<50microns	<50microns

Fittings

7785 Q235
Heat preservation
spray tip holder



8983 Q235
Universal installing bracket
fittings

K1 air blowing flat fan nozzle

Ekomaziva s.r.o.

Design Feature

Flat fan spray of air vapour.

The effective distance of spray adhesive is very short,which is different with liquid.

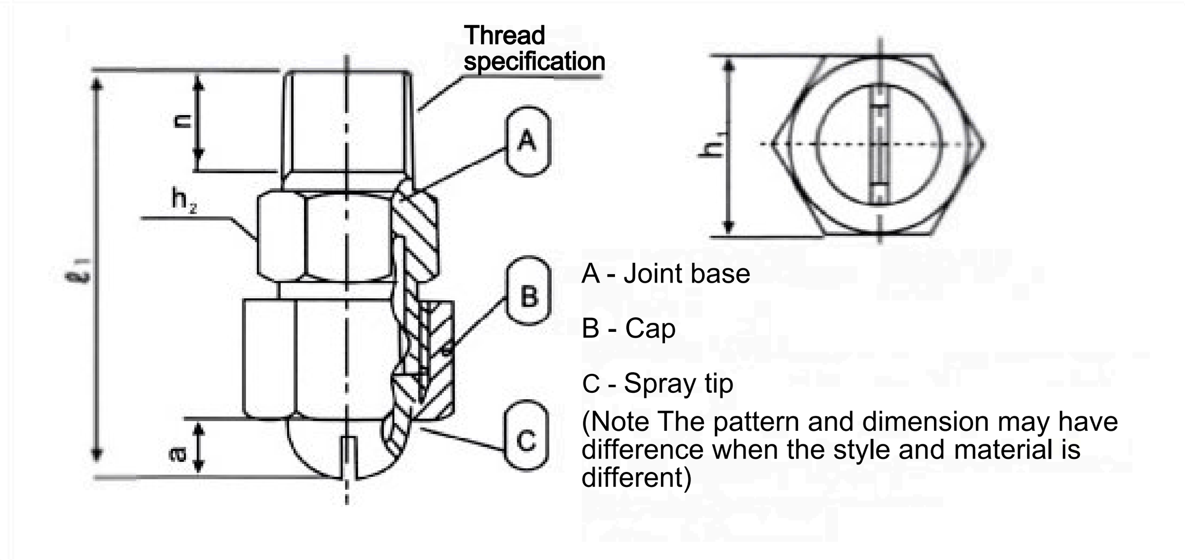
Standard pressure：3bar

Main Usage

Air compression:clean-up dedusting.drying^air curtain, vapounhumidifying.conditioning.

K1 Series

K1 Series	
Structure	The structure is composed of spray tip, nozzle cap and the joint part.only need to change the wearing spray tip nozzle cap and the joint part can be replaced with three-piece suit of standard flat fan nozzleffor liquid).
Material	Brass, 303/304 or 316 stainless steel or others
Thread dimension	1/4
	3/8



Performance Data

Thread dimension	Slot width (mm)	Air flow rate(L/min)			Vapour flow rate(L/hour)				The coverage at 150mm to nozzle		
		1bar	2bar	3bar	7bar	1bar	2bar	4bar	7bar	1bar	4bar
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

Order information

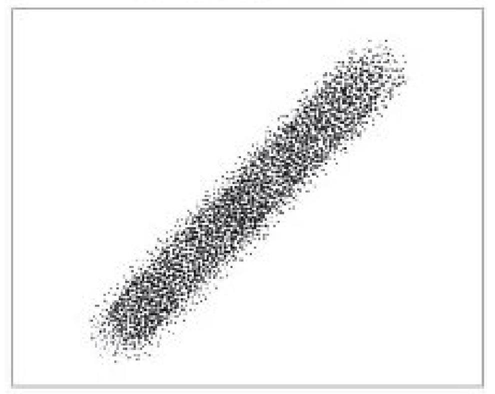
K1 — 1/4 — L — SS 303

Nozzle series | Size | Flow code | Material

V Series Narrow Angle Nozzle

Ekomaziva s.r.o.

Design Feature



The featres of V series narrow angle nozzles of general use is to generate high impact narrow angle fan spray which is evenly distributed with medium drops.The edge definition of V series narrow angle nozzle is very clear.

V series narrow angle nozzles of general use is from design of entirety of external piping thread connector.Big and clear channel minimizes the chocking problem.The carefully processed guide plane provides average and high impact spray.

Common Application

- High impact cleaning
- Washing crushed-gravel
- Washing fruits and vefetables
- Spray for paper machine
- Clean up oil stain

Order information

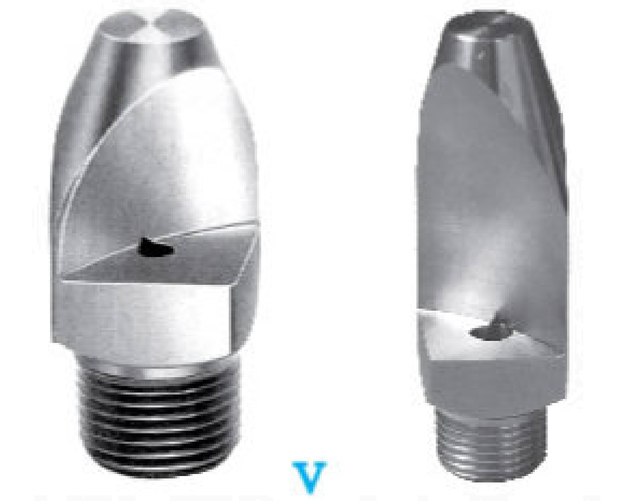
V — 3/8 — SS — 5060

Nozzle style | Inlet connector | Material | Flow

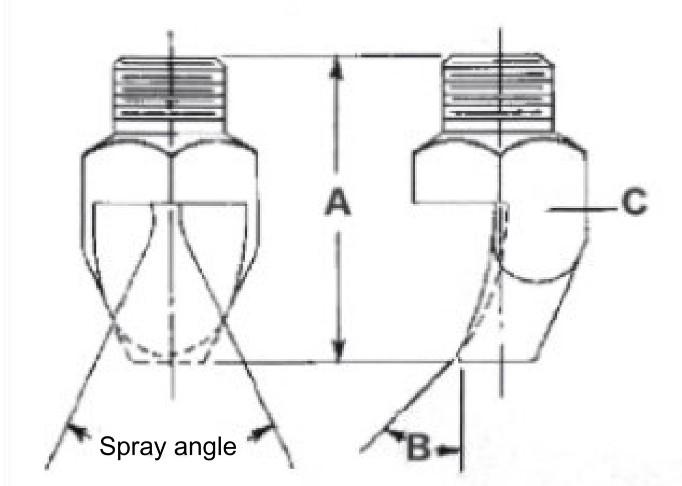
Brass

SS - 303 stainless steel

316SS - 316 stainless steel

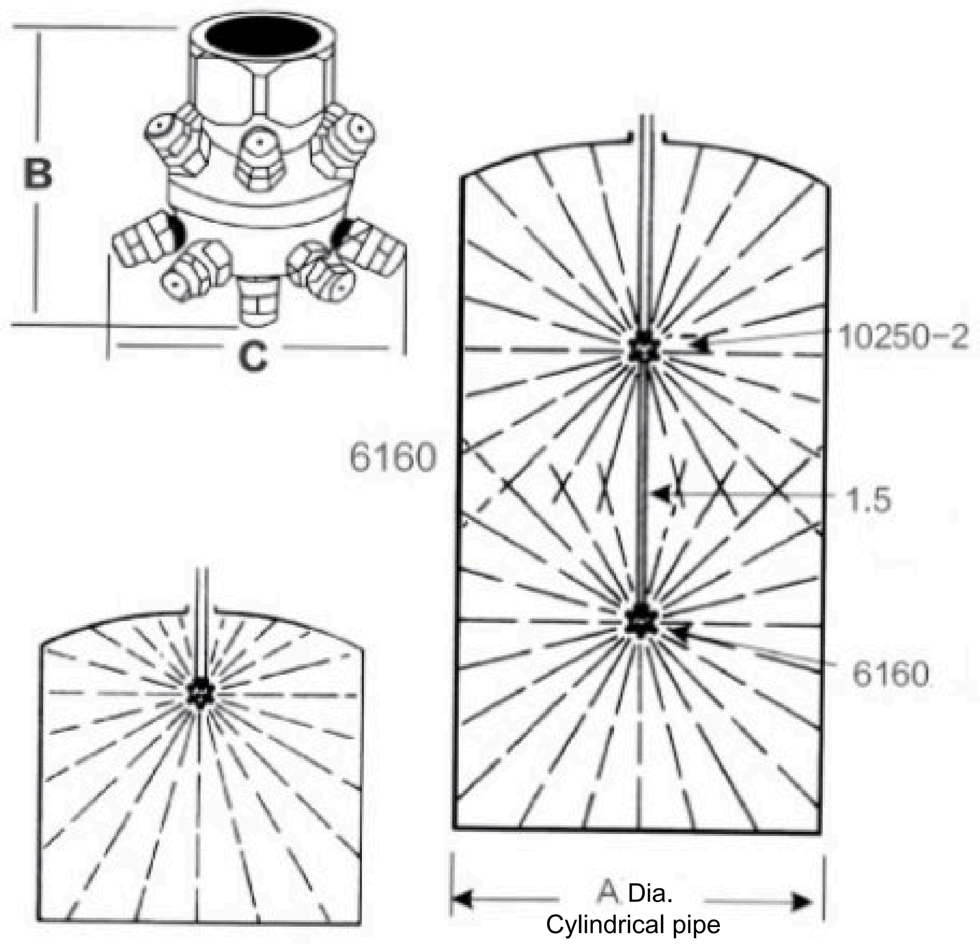


1/8-3/4” NPT BSPT(Male)



Spray angle at 3 bar	Nozzle Inlet connector NPT or BSPT					Flow	Equival Spray hole Dia(mm)	Flow (L/min)								Spray angle			Size			N.W (KG)
	1/8	1/4	3/8	1/2	3/4			1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar	1bar	3bar	7bar	A (mm)	Angle of deflection	Square bar size(mm)	
50°		●				5510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	34°	50°	50°	31	60°	15.9	0.03
		●	●			5025	2.8	5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	42°	50°	50°	41.5	42°	91.9	0.09
		●	●			5040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	39°	50°	50°	47	45°	19.1	0.09
			●			5060	4.8	13.7	19.3	24	27	31	33	36	43	42°	50°	50°	55	37°	25.4	0.14
			●			50100	6.0	23	32	39	46	51	56	60	72	43°	50°	50°	72	40°	31.8	0.33
			●			50125	6.7	28	40	49	57	64	70	75	91	38°	50°	50°	72	38°	31.8	0.31
			●			50160	7.5	36	52	63	73	82	89	96	115	44°	50°	50°	72	37°	31.8	0.31
			●			50200	8.3	46	64	79	91	102	112	121	144	46°	50°	50°	72	32°	31.8	0.31
40°			●			4040	3.6	9.1	12.9	15.8	18.2	20	22	24	29	31°	40°	40°	60.5	35°	22.2	0.14
			●			4050	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	40°	40°	63.5	33°	25.4	0.20
			●			4060	4.4	13.7	19.3	24	27	31	33	36	43	32°	40°	40°	72	33°	25.4	0.23
			●			4070	5.2	16.0	23	28	32	36	39	42	50	32°	40°	40°	75.5	29°	25.4	0.26
			●			4080	5.2	18.2	26	32	36	41	45	48	58	32°	40°	40°	77	26°	25.4	0.26
			●			4090	5.6	21	29	36	41	46	50	54	65	34°	40°	40°	77	28°	25.4	0.23
			●			40100	6.0	23	32	39	46	51	56	60	72	35°	40°	40°	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°	35°	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°	35°	36.5	36°	15.9	0.06
			●			3520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	24°	35°	35°	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°	35°	49	28°	19.1	0.09
			●			3530	3.2	6.8	9.7	11.8	13.7	15.3	16.7	18.1	22	26°	35°	35°	52.5	28°	19.1	0.09
			●			3540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	28°	35°	35°	58	26°	22.2	0.11
			●			3550	4.0	11.4	16.1	19.7	23	25	28	30	36	31°	35°	35°	63.5	23°	22.2	0.14
				●		3560	4.4	13.7	19.3	24	27	31	33	36	43	29°	35°	35°	73	27°	25.4	0.23
				●		3580	5.2	18.2	26	34	36	41	45	48	58	26°	35°	35°	81	24°	25.4	0.26
				●		35100	6.0	23	32	39	46	51	56	60	72	26°	35°	35°	89	19°	25.4	0.26
					●	35160	7.5	36	52	63	73	82	89	96	115	26°	35°	35°	114	23°	31.8	0.57
					●	35200	8.3	46	64	79	91	102	112	121	144	25°	35°	35°	122	22°	31.8	0.57
25°						2540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	15°	25°	25°	65	25°	19.1	0.11
15°						1510	2.0	2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2		15°	15°	47.5	22°	15.9	0.06
						1520	2.8	4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4		15°	15°	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°	15°	72	25°	19.1	0.11
			●			1540	3.6	9.1	12.9	15.8	18.2	20	22	24	29	8°	15°	15°	92	18°	22.2	0.23
			●			1550	4.4	11.4	16.1	19.7	23	25	28	30	36	9°	15°	15°	90.5	15°	22.2	0.17
				●		1560	5.2	13.7	19.3	24	27	31	33	36	43	10°	15°	15°	125	14°	25.4	0.34
				●		1580	6.0	18.2	26	32	36	41	45	48	58	11°	15°	15°	130	14°	25.4	0.34
				●		15100	7.5	23	32	39	46	51	56	60	72	11°	15°	15°	137	14°	25.4	0.40
					●	15200	8.3	46	64	79	91	102	112	121	144	12°	15°	15°	191	14°	31.8	0.91

Design Feature



These two styles both have 13 pcs of full cone nozzle.which can eject to reach all inner surface. Pressure can reach 4 bar.Material is brass and 316 stainless steel. Nozzle 6160 moder s characters is large capacity. It can clean the tank which is 3.1 meters.lb use full cone nozzles with dimension at 1/4" and 3/8" can change the flow rate.Model 6160 can get through the tank opening with dia. 130mm or more. Model 10250-1 nozzle components can provide very big liquid capacity to clean the big tank with diameter at 6.7 meters,7b use full cone nozzles with dimension at 1/2", 3/4" orV can change the flow rate. Model 10250-1 nozzle components can get through the tank opening with dia.230mm or more.For deep tank,Model10250-2 with 1.5" end outlet connector,which can be used to connect extension pipe and model 6160 components.

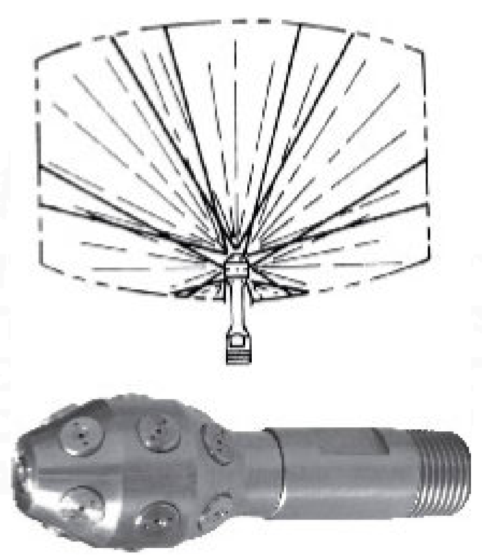
Performance Data

Pipe dimension NPT or BSPT (female)	Spray tip order No.	The flow rate(L/min)at different pressure and max.tank size approximation								Tank dia A(m)	Dimension	
		1.5bar		2bar		3bar		3.5bar				
		L/min	Tank dia A(m)	L/min	Tank dia A(m)	L/min	Tank dia A(m)	L/min	Tank dia A(m)		Height B(mm)	Diameter C(mm)
3	1025-1-1/2	280	3.0	320	3.5	390	3.5	415	4.0		166	191
	10250-1-3/4	580	3.5	660	4.0	800	4.5	860	5.0		174	210
	10250-1-1	1000	4.0	1130	5.0	1370	6.0	1470	6.5		183	229
1/2	6160-1/4GG5	35		40		48		52		1.2	114	114
	6160-1/4GG10	70		80		97		104		2.1	114	114
	6160-3/8GG22	155		177		215		230		3.0	121	127

6160 10250

Design Feature

Model 9800 washing nozzle is specially designed for small tank. For this nozzle, 15 and 21 pieces of full cone spray tips are for choices,which can spray to all the inner surface. Pressure can reach 10 bar. Model 9800 is designed to pass through a standard small tank opening to be installed on small automatic washer.The largest spray tip diamater is 35mm with a 16mm of necking for water draining,The stainless steel stucture provide maximum corrosion resistance.



Performance Data

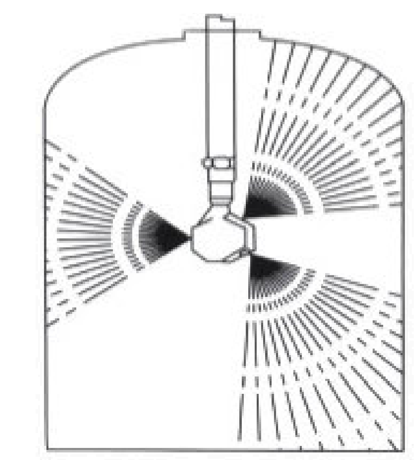
Nozzle order No.	Flow rate(L/min)							
	1bar	2bar	3bar	4bar	5bar	6bar	7bar	10bar
9800-15-SS	–	–	-	20	23	25	26	31
9800-21-SS	–	–	-	28	31	34	36	43

Common Application

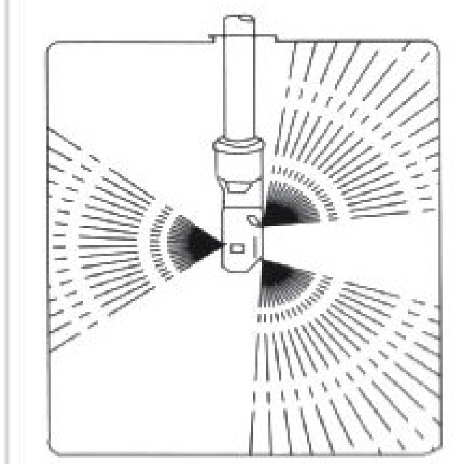
- Defoaming
- Cleaning

Design Feature

36250



28250



36250 and 28250 compact type rotating cleaning nozzle haG features as follows:

3 high pressure fan nozzle are installed on Rotating spray tipQ,the flow of cleaning liquid makes the spray tip revolve.These tips are precisely positioned,all are in the coverage of spraying orbit. Both styles of nozzle oan provide effective cleaning for small bottleo. 36250 nozzle body made of strong oorroeion resistance plasito,bearing and bearing snqp spring are made from hardened stain less steel, in order to reach max.wear life and high pressure cleaning. Pressure can provide reach 5 bar. 28250 oompaot nozzle oan provide effective cleaning for small vessel through fan spray tip which is 42mm dia with low flow. Nozzle body io made from 316 stainless steel in order to reach max.wear life and high pressure cleaning.Preasure can reaoh 5 bar.

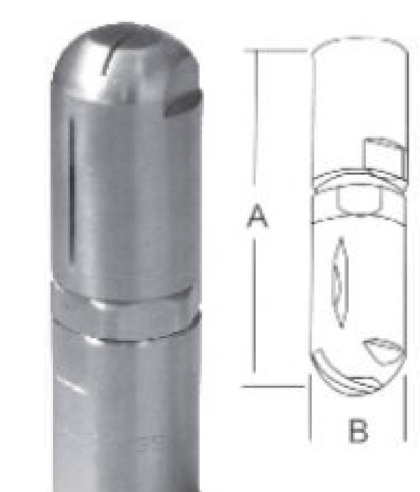
Performance Data

Nozzle order No.	Flow rate(L/min)					
	1bar	1.5bar	2bar	2.5bar	3bar	4bar
36250-STCN16-PP	40	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

Nozzle No.	NPT BSPT Pipe connector NPT or BSPT(female)	A (mm)	B (mm)	C (mm)	Sexangle (mm)	N.W (kg)
36250-	3/4 英寸	145	115	85	75	0.55
28250-	3/4 英寸	122	100	56	44.5	0.68

Design Feature

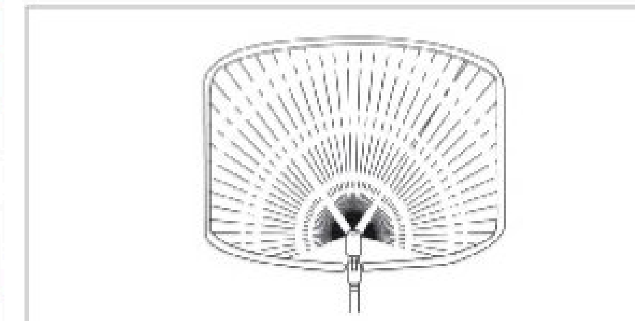
19250 compact nozzle can generate Automatic rotating force and provide side face spray through dia.25mm hole and the special position of the openning of two fan shape spray tips. The material of nozzle is 316 stainless steelL.Bearing and bearing snap spring are made from hardened stainless steel in order to reach max.wear He. The max operating pressure is 13 bar and max heat-resistance temperature is 180°C.



19250

Performance Data

Nozz order No.	Flow rate(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



Order information

The above 4 kinds of rotary bottle washing nozzles can be made from high quality brass If you want to order,please make remark specially-

Tank washing nozzle

Design Feature

Model 27500 rotating tank washing nozzle provide new performance and diversity on low pressure cleaning. Nozzle is made of the material which approved by U.S.A TFDA.This material has strong corrosion resistiance and chemical Resistance. Two-body nozzle's character is to drive rotating by the pressure of spraying fluid,without external motor and gear. Compact type nozzle produce effective liquid column injection.which can work at 0.7-3bar pressure. There are five nozzle dimensions,with NPT or BSPT thread inlet. 1/2" ,3/4", 1" ,2" ,3" feed pipe are acceptable. Nozzle' s porous configuration range from 180° to 360°, to provide special coverage by anyone among 5 round spray. Flow rata range from 15L/min to 1480L/min.

Performance Data

Nozz order No.	Flow rate(L/min)				
	0.7 bar	1.5bar	2bar	3bar	3.5bar
27500(A 至 E) 1/2-8-TEF	15.3	22	26	32	34
27500(A 至 E) 3/4-18-TEF	34	50	58	71	77
27500(A 至 E) 3/4-32-TEF	61	89	103	126	136
27500(A 至 E) 3/4-46-TEF	88	130	148	182	196
27500(A 至 E) 1-50-TEF	98	140	161	197	215
27500(A 至 E) 1-70-TEF	133	195	225	275	300
27500(A 至 E) 1-90-TEF	172	250	290	355	385
27500(A 至 E) 2-100-TEF	191	280	320	395	425
27500(A 至 E) 2-125-TEF	240	350	400	495	530
27500(A 至 E) 2-150-TEF	285	420	480	590	640
27500(A 至 E) 2-175-TEF	335	490	560	690	745
27500(A 至 E) 2-200-TEF	380	560	645	790	850
27500(A 至 E) 3-250-TEF	475	700	805	985	1065
27500(A 至 E) 3-300-TEF	570	840	965	1180	1280
27500(A 至 E) 3-350-TEF	665	975	1130	1380	1490

Suggestion: The best working pressure range is 1.5 bar to 3 bar.

27500

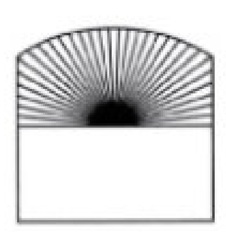
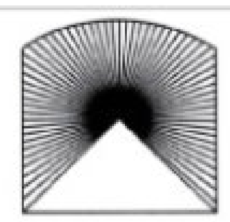
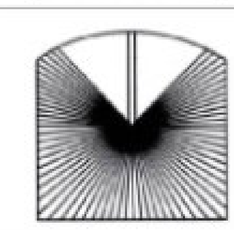
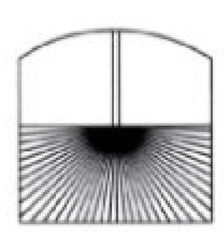
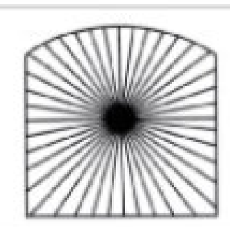
28500

Design Feature

New model 28500 tank washing nozzle is designed for sanitation application. Nozzle is installed on inlet pipe through stainless steel doweLMaterial is TEFLON approved by U.S.A TFDA. The tilted shape of nozzle helps automatic at vertical position.

Model 28500 can be used for 3/4" and 1-1/2" tank .Flow rate is 87L/min for 3/4" , 125L/min for 1" and 201 L/min for 1-1/2".

Nozzle provide complete cleaning for the inner surface of tank.

Cover type	Spray angle	Cover type	Spray angle
	180°		270°
			270°
	180°		270°

High Pressure Needle Nozzle

19124/B1/4PT

ordinary stainless steel

B1/4PTL

long type stainless steel

B1/4PT-SSCER

standard cerarmic inlay

B1/4PTL-SSCER

long type ceramic inlay

48460/B1/4PT-SSRBY

standard ruby inlay

B1/4PTL-SSRBY

long type ruby inlay

Performance Data

Nozzle dimension No.	Equivalent Spray orifice Dia.(mm)	flow rate (L/min)								
		3	4	5	7	15	30	40	50	60
19124-14-316ss	0.36	0.12	0.13	0.15	0.17	0.25	0.37	0.42	0.47	0.51
19124-28-316ss	0.71	0.42	0.48	0.54	0.63	0.93	1.3	1.5	1.7	1.9
19124-33-316ss	0.84	0.62	0.73	0.81	0.95	1.4	2.0	2.4	2.7	2.9
19124-40-316ss	1.02	0.89	1.0	1.1	1.4	2.0	2.8	3.2	3.6	3.9
19124-55-316ss	1.40	1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0
19124-70-316ss	1.78	2.7	3.1	3.5	4.2	6.1	8.8	10	11	13
19124-94-316ss	2.39	4.5	5.2	5.9	7.0	10	15	18	20	22
19124-125-316ss	3.18	7.3	8.5	9.6	11	17	25	30	33	37

Common Application

- fourdriner wire high pressure swing cleaning
- press section felt high pressure swing cleaning
- blind press cleaning
- grooved roll cleaning

High pressure needle nozzle

Design Feature

PT type nozzle proformance data (BSPT 1/4 with thread)

nozzle style		Spray orifce Dia(mm)	Flow rate (L/min)											
standard	King-Size		3bar	5bar	7bar	10bar	15bar	20bar	30bar	40bar	50bar	60bar	70bar	80bar
B1/4PT-SS B1/4PT-SSCER B1/4PT-RBT	B1/4PTL-SS B1/4PTL-SSCER B1/4PTL-RBY	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	2.10	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
		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
		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

Model 48460 Ruby Inlay

Nozzle Style	Inch	Nozzle Style	Inch
48460-15-316RBY	0.015"[0.38mm]	48460-35-316RBY	0.035"[0.89mm]
48460-20-316RBY	0.020"[0.51mm]	48460-40-316RBY	0.040"[1.02mm]
48460-25-316RBY	0.025"[0.64mm]	48460-45-316RBY	0.045"[1.14mm]
48460-30-316RBY	0.030"[0.76mm]		

Order information

I、 Stainless Steel Series

1、M19124——40——316SS(M14×1 Thread connector)
Model / Jet orifice dia. / Material

2、B19124——40——316SS(BSP1/4 Thread connector)
Model / Jet orifice dia. / Material

3、19124——40——316SS(9/16—24UNF—2A Thread connector)
Model / Jet orifice dia. / Material

4、B1/4PT——SS1.0(BSPT1/4 Thread connector)
Standard / Jet orifice dia.

5、B1/4PTL——SS1.0(BSPT1/4 Thread connector)
Model / Jet orifice dia.

II、 Ceramic Inlay Series

6、B1/4PT——SSCER——1.0(BSPT1/4 Thread connector)
Standard / Ceramic inlay stainless steel / Jet orifice dia.

7、B1/4PTL——SSCER——1.0(BSPT1/4 Thread connector)
King size / Ceramic inlay stainless steel / Jet orifice dia.

III、 Ruby Inlay Series

8、B1/4PT——SSRBY——1.0(BSPT1/4 Thread connector)
Standard / Ruby inlay stainless steel body / Jet orifice dia.

9、B1/4PTL——SSRBY——1.0(BSPT1/4 Thread connector)
King size / Ruby inlay stainless steel body / Jet orifice dia.

10、48460——20——316RBY(9/16----24UNF—2A Thread connector)
Model / Jet orifice dia. / 316 stainless steel Body with ruby inlay

Flake High Pressure Needle Nozzle

27149

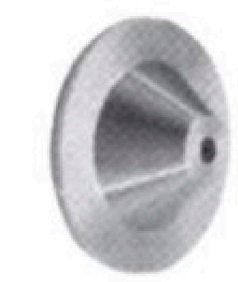
Gasket separate with nozzle

64160

Gasket and nozzle in one

50709

Gasket separate with nozzle



48546/39350

Gasket separate with nozzle

- 27149 — Common stainless steel series
- 39350 — Stainless steel ceramic inlay series
- 48546 — Stainless steel ruby inlay series
- 50709 — Stainless steel ruby inlay series

Performance Data

Model 27149 Performance data

Nozzle dimension No.	Spray orifice Dia (mm)	Flow rate(L/min)					Spray angle
		1.5bar	3bar	7bar	20bar	55bar	4bar
27149-00004	0.3	0.11	0.16	0.24	0.41	0.68	0°
27149-00007	0.4	0.20	0.28	0.42	0.71	1.2	
27149-00009	0.5	0.25	0.36	0.54	0.92	1.5	
27149-0001	0.6	0.36	0.51	0.78	1.3	2.2	
27149-0002	1.0	0.64	0.91	1.4	2.3	3.9	
27149-0003	1.2	0.92	1.3	2.0	3.4	5.6	
27149-0004	1.5	1.2	1.7	2.6	4.4	7.3	
27149-0008	1.9	2.2	3.1	4.8	8.1	13.4	
27149-0012	2.4	3.5	4.9	7.5	12.6	21	
27149-0020	3.2	5.5	7.8	11.9	20	33	

Model 39350 Performance data

Nozzle dimension No.	Spray orifice Dia (mm)	Flow rate(L/min)					Spray angle
		1.5bar	3bar	7bar	20bar	55bar	4bar
39350-00005	0.5	0.14	0.20	0.31	0.52	0.86	0°
39350-00008	0.64	0.22	0.31	0.45	0.81	1.34	
39350-0001	0.76	0.32	0.45	0.69	1.16	1.93	
39350-00015	0.9	0.43	0.61	0.94	1.58	2.62	
39350-0002	1.0	0.56	0.80	1.22	2.06	3.42	
39350-00025	1.1	0.72	1.01	1.54	2.61	4.33	
39350-0003	1.3	0.88	1.25	1.91	3.22	5.34	
39350-00045	1.5	1.27	1.80	2.75	4.64	7.7	

Model 48456 Performance data

Nozzle Style	Inch
48456-00003-316RBY	0.015"[0.38mm]
48456-00005-316RBY	0.020"[0.51mm]
48456-00008-316RBY	0.025"[0.64mm]
48456-00011-316RBY	0.030"[0.76mm]
48456-00015-316RBY	0.035"[0.89mm]
48456-00020-316RBY	0.040"[1.02mm]
48456-00025-316RBY	0.045"[1.14mm]

Model 50709/64160 Performance data

Nozzle Style	Inch
50709-00003-316RBY	0.015"[0.38mm]
50709-00005-316RBY	0.020"[0.51mm]
50709-00008-316RBY	0.025"[0.64mm]
50709-00011-316RBY	0.030"[0.76mm]
50709-00015-316RBY	0.035"[0.89mm]
50709-00020-316RBY	0.040"[1.02mm]
50709-00025-316RBY	0.045"[1.14mm]

Order information

① Order common stainless steel nozzle

27149——0002——316L
Model / Series No. / Material

② Order ceramic inlay nozzle

39350——0002——316SS
Model / Series No. / Material

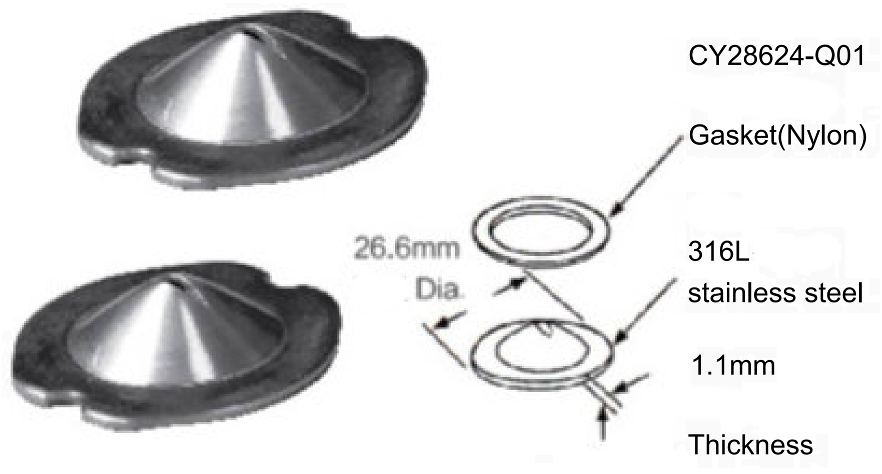
③ Order ruby inlay nozzle

48546——00020——316RBY
Model / Series No. / 316SS+ Ruby inlay

50709——00020——316RBY
Model / Series No. / 316SS+ Ruby inlay

④ Please note clearly when requiring gasket and nozzle in one-piece.

Flake High Pressure Fan Nozzle



Model CCTC nozzle is low pressure fan spray nozzle designed for brush spray rod Spray angle is 0°,30°,60°,75° four types CY28624-001 gasket is needed when installing the nozzle.

Order information

CCTC	CY6008	316L
Model	Angle and flow code	Material

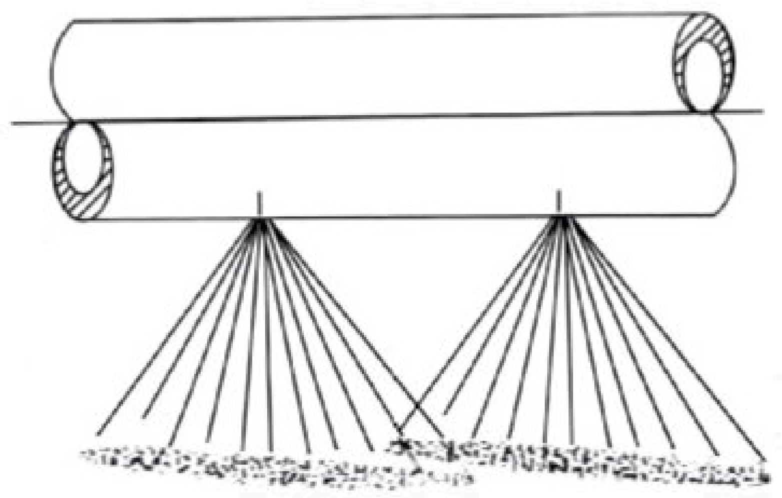
Nozzle dimension No.	Spray orifice Dia(mm)	flow rate (L/min)					Spray angle
		1.5 bar	3 bar	7 bar	20 bar	55 bar	4 bar
CCTC-0002	1.0	0.64	0.91	1.4	2.3	3.9	0°
CCTC-0003	1.2	0.92	1.3	2.0	3.4	5.6	
CCTC-0004	1.5	1.2	1.7	2.6	4.4	7.3	
CCTC-0006	1.8	1.7	2.4	3.7	6.2	10.3	
CCTC-0008	2.0	2.2	3.1	4.8	8.1	13.4	
CCTC-0010	2.2	2.8	4.0	62	10.4	17.2	
CCTC-3012	2.5	3.5	4.9	7.5	12.6	21	30°
CCTC-3016	2.8	4.5	6.3	9.7	16.4	27	
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	
CCTC-3049	5.0	13.7	19.4	30	50	83	
CCT-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	
CCTC-6002	1.0	0.64	0.91	1.4	2.3	3.9	60°
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	
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	
C CTC-6025	3.5	7.2	10.1	15.5	26	43	
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	
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	75°
CCTC-7503	1.2	0.92	1.3	2.0	3.4	5.6	
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	
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	
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	
CCTC-7599	7.0	28	39	60	101	167	
CCTC-75124	8.0	35	49	75	126	210	

Ekomaziva s.r.o.

Flake Low Presure Fan Nozzle

Design Feature

CTC Fan nozzle



When Spray rod and mesh panels or felt spray height is small, this product is the best choice. The nozzle is made of 303 or 316 stainless steel,with wear-resisting and perfect corrosion resistance.

Performance Data

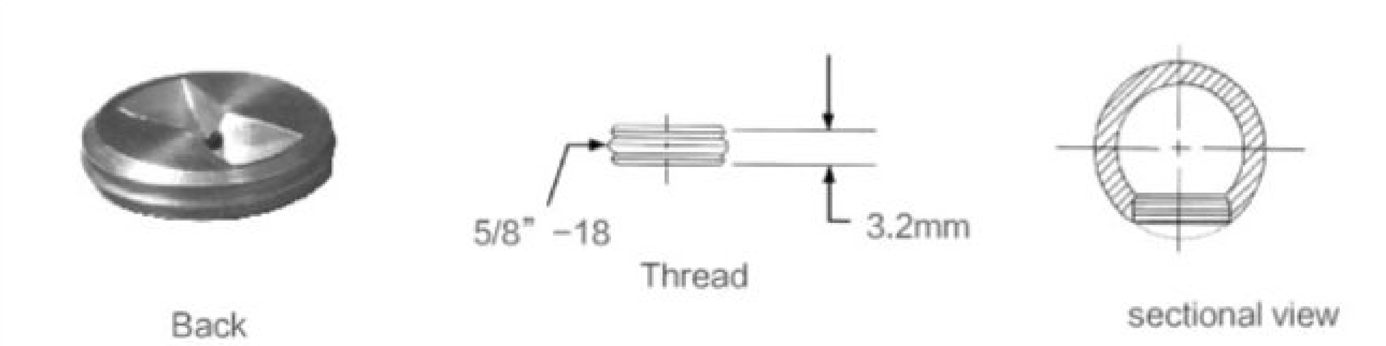
Nozzle dimension No.	Equivalent Spray orifice Dia.(mm)	Material		flow rate (L/min)								Spray angle at 3 bar
		+SS	316SS	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	
CTC-2510		●		2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	25°
CTC-3580	6.4	●		18.2	26	32	36	41	45	48	58	35°
CTC-4040		●		9.1	12.9	15.8	18.2	20	22	24	29	40°
CTC-4047	4.7	●		10.7	15.1	18.6	21	24	26	28	34	
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	2.6	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	50°
CTC-50033	1.2	●		0.75	1.1	1.3	1.5	1.7	1.8	2.0	2.4	
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	65°
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	
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	38	39	42	50	68°
CTC-6824	3.2	●		5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3	
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	80°
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	90°
CTC-90054	1.6	●		1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9	
CTC-9013	2.4	●		3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4	

Ekomaziva s.r.o.

Low Presure Fan Nozzle

Nozzle dimension No.	Equivalent orifice Dia(mm)	Flow rate (L/min)								Spray angle at 3 bar
		10 bar	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	0.39	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	0.39	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°

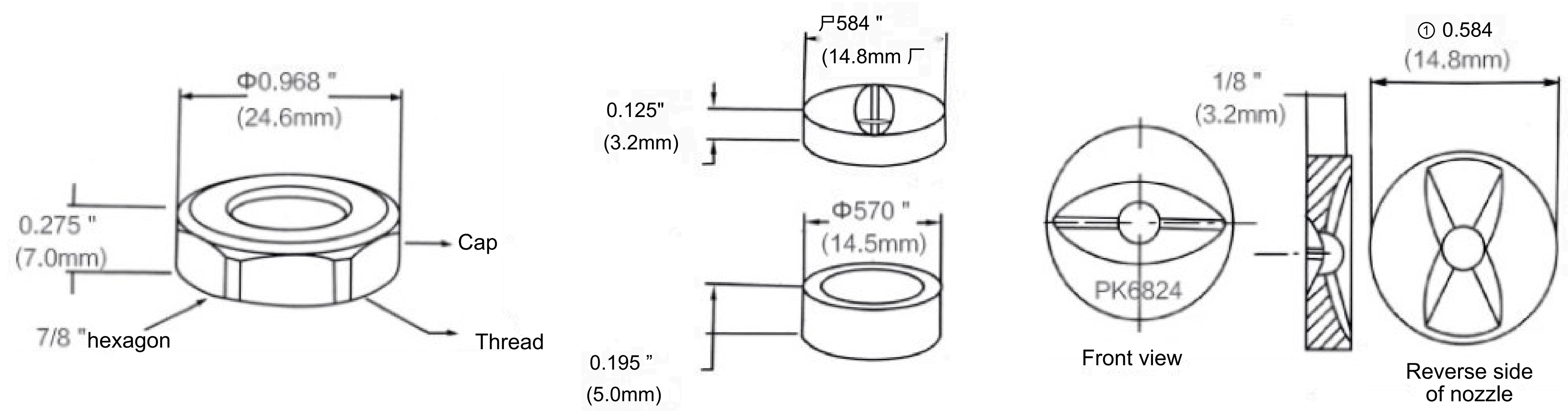
Dimension and installation figure



Common Application

- Low pressure sector cleaning
- Scraper type water absorption and lubrication
- Washing under low pressure
- Scraper type water sucking and lubrication

Dimension and installation drawing



Order information

Material：303SS / 316SS — CTC—6513—SS (Nozzle Model, Series No., Material)

Material：303SS / 316SS — CTY—6513—SS (Nozzle Model, Series No., Material)

Ekomaziva s.r.o.

Split hole connector

7521

Pressure: 17bar
Flowrate: 11L/min
Outlet connector: 1/8" or 1/4" NPT or BSPT(female)

8370

Pressure: 9bar
Flow rate: 45L/min
Outlet connector: 1/4" or 3/8" NPT or BSPT(female)

15475

Pressure: 9bar
Flow rate: 136L/min
Outlet connector: 1/2" ,3/4 "1" NPT or BSPT(female)

12521

Pressure: 70bar
Flow rate: 19L/min
Outlet connect: 1/8" ,1/4" NPT or BSPT(female)

Design Feature

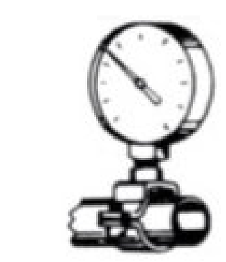
Split hole connector provide quick and economic way for installing nozzle or other components in pipe system. To lock only one hole with specified dia, andslide the connector, tighten bolt and lock at appropriate position.This unique design deserts cuttingjathing thread and brazing in order to save cost. It also can be used to install nozzle on thtread spalling of branch pipe. The body of connector is made of bar materiaLThe inlet connector have several dimensions for choices Jb dismantle the connector after it is in position^is design can prevent it from rotating in flange plate.The inlet of this connector can stretch to the inside of pipe to prevent sediments from blocking. Nitrile rubber gasket is corrosion resistance.which is perfect leakage protection seal.

Performance Data

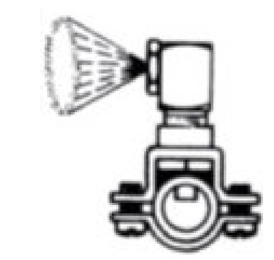
Split hole connector No.	Pipe		Outlet connector NPT BSPT						Common material			Max Pressure Bar	Max Flow L/min
	Pipe size /Inch	Pipe outer Dia (mm)							A*	B*	C*		
7521	1/2	20-22	1/8	1/4					●	●	●		
	3/4	25-27	1/8	1/4					●	●	●	17	11
	1	32-35	1/8	1/4					●	●	●		
12521	1/2	20-22	1/8	1/4					●	●	●		
	3/4	25-27	1/8	1/4					●	●	●	70	19
	1	32-35	1/8	1/4					●	●	●		
8370	1-1/4	39-43		1/4	3/8	1/2			●	●	●		
	1-1/2	44-53		1/4	3/8	1/2			●	●	●	9	45
	2	54-60		1/4	3/8	1/2			●	●	●		
15475	2-1/2	63-73				1/2	3/4	1	●	●	●		
	3	76-89				1/2	3/4	1	●	●	●	9	136
	4	102-114				1/2	3/4	1	●	●	●		

* A – Galvanized steel and bolt used for brass connector.
* B – All are stainless steel.
* C – Galvanized steel and bolt used for stainless steel connector.

Common Application



Piezometer for connecting



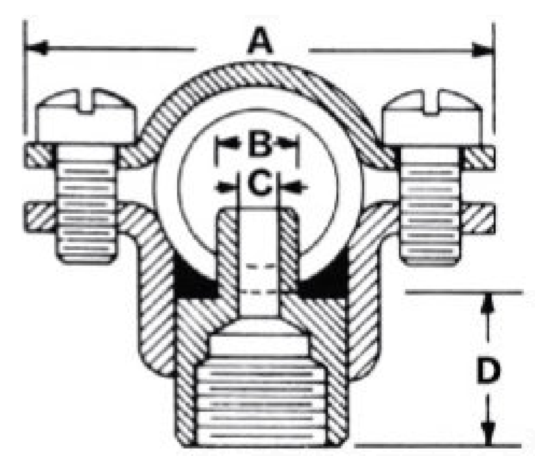
Nozzle for installation

Soft pipe for connecting

Order information

8370 — A—1-1/4 × 1/4

Split hole Connector type | Material | Clamp size | NPT BSPT Outlet connector size



Y Type Liquid Filter

Y type threaded connection

Y type flange connection

Common Application

The products are used for steam,air water and oil etc. System of pipes to protect measuring instrument, Pumps .valves and nozzles etulb clean them，it is only necessary to take out the detachable filter cylinder,remove the impurities and reinstall it.So the usage and maintenance are very easy.

Design Feature

Y type inner filter screen adopt two layers of stainless steel sereen,which is strong and durable,and has more advantages：advanced Structuring,large flow area,small flow resistance,easy pollution discharge etc.It is can be used in corrosive liquid medium like water,steam,oils and nitric acid etc.
The mesh is set according to user' s demands.Usually the mesh for water is 18-30 mesh,for gas is 40-100 mesh,for oil is 100-480 mesh. It is essential settings to convey fluid for pipe system. It is normally used ar inlet of hydraulic control valve/educing valve, level control valve etc to reduce the impurities,so as to prevent granul going into pipe and causing blocking.

Performance Data

Body material	Brass/stainless steel	Connection type	Thread, flange
Material for filter frame and screen	Stainless steel	Nominal pressure(Mpa)	0.6-5.0
Sealing material	Soft graphite Jef Ion	Filter fineness(mesh/in)	10-300
Environment temperature	-30 – 400℃		

Order information

Y1/2 —— SS —— 30

Model and threaded coupling | Material | Filter screen mesh

Filter cartridge

Polyester fiber filter element:

Raw material：100% polyester fiber, thickness 0.75mm

Heat resistance：80℃

Air permeation rate：220m³/m²/hr

Filter density：5μ-10μ

Weight：240g/m²

Initial resistance：≤298Pa

Coated dust filter cartridge:

- -JHY/F series coated polyester filter cartridge,using import PTFE coated polyester filter material
- Surface filtration, smooth, not easy to stick, and easy for pulse ash removal
- Import coating is with high precision, good filtering effect,The finest data can reach 0.03μ
- Protection processing to cap and center frame,PTFE microporous film gather exellent chemical resistance.

Specification

Model	A	B	C	D	E	S
1920#	150	900	84	850	–	2.65
1921#	150	1050	84	1010	–	2.65
1922#	280	600	170	615	16	6.5
1923#	325	600	215	615	16	6.5
1924#	325	660	215	675	16	7.0
1925#	325	900	215	915	16	9.0