INTER SPRAY CO.,LTD.

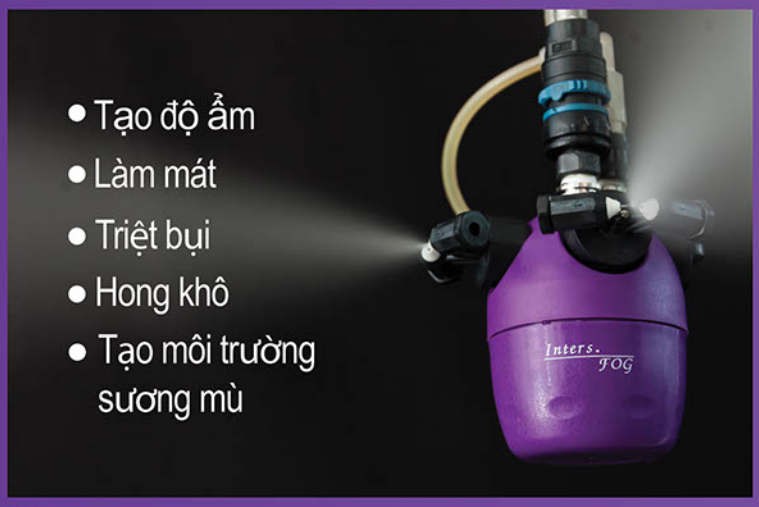
INTERSPRAY

PRECISE NOZZLE SOLUTIONS

Giải pháp phun chính xác

DESIGN & CONSULT

INTERSPRAY TECHNOLOGY



FINE MIST SPRAY NOZZLE

inters. FOG SYSTEM

ADD HUMIDIFICATION SOLUTIONS

SPIRAL NOZZLE : FSR series

- Full cone spray pattern
- Smaller droplet sizes.
- Durable, one-piece
- Anti-clog design

www.Fognozzles.net

Precise nozzle Solution

Interspray since 2004 is one of the world's leading integrated energy companies of industry spray nozzles

Is recognized as a leading distributor of best known quality technical products from world's leading manufacturers. Interspray has grown from strength to strength, building on its
Foundation as an expert organization in supplying industrial and technical products to major industrial end-users, engineering consultants.

Our success is driven by our people and their unrelenting focus on delivering results the right way-by operating responsibly, executing with excellence, applying innovative technologies and capturing new opportunities for profitable growth. We are involved in virtually every facet of the energy industry. Interspray is today not just a company name. The name of a technology industry spray products and Nozzles solutions.

Precise nozzle Solution

Interspray highly qualified team and it's widely accepted quality products, the company has acquired the reputation of being a competent product supplier in the following fields of industry

- Food process
- Petrochemical
- Electronics
- Power plants
- Rubber & ceramic
- Automotive
- Cement & Drum
- Steel Mill
- Textiles & Printing
- Environment & etc.

FSR : Spiral nozzles

Applications

Spraying : Mold release agent
Coating : Molding, Automoblie bodies
Drying : Food packaging / Steel sheet – roll
Cleaning : Automotive engine / Mold & machine part
Cooling : Electronic parts / Machine part & mold
Ejecting : Foods process on conveyer

INTER SPRAY CO.,LTD.

Precise Nozzle Solution

Add Humidification	Cooling	Dust Suppression	Fog Environment	Curing etc.

Design & Consult

Inters.FOG Technology

ระบบควบคุมความชื้นแนวใหม่ 1.ควบคุมความชื้น 2.ลดไฟฟ้าสถิต 3.ควบคุมฝุ่น

Inters.FOG-4N

คุณสมบัติเด่น

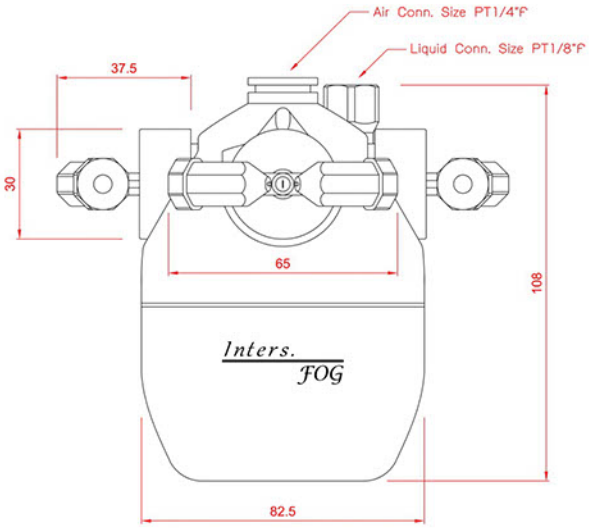
1) เม็ดน้ำเล็กเพียง 7.5 ไมครอน ไม่ทำให้เปียก
2) ประหยัดปริมาณน้ำเพียง 2.5 ลิตร/ชั่วโมง
3) สเปรย์ครอบคลุมพื้นที่ได้มากถึง 4 เมตร
4) น้ำหนักเบา ติดตั้งง่าย ขนาดกะทัดรัด
5) ควบคุมระบบฉีดแบบ ON/OFF และออโต้
6) Free maintenance ไม่มีค่าซ่อมบำรุงรักษา

Inters.FOG-1N

Inters.FOG-2N

Inters.FOG-3N

Dimensions



Specifications

Model No.	Number of Nozzles	at air pressure of 0.3MPa (44psi)	
		Spray Volume	Air Consumption
		ℓ/hr	ℓ/min
Inters.FOG-1N	1	2.5	30
Inters.FOG-2N	2	5	60
Inters.FOG-3N	3	7.5	90
Inters.FOG-4N	4	10	120

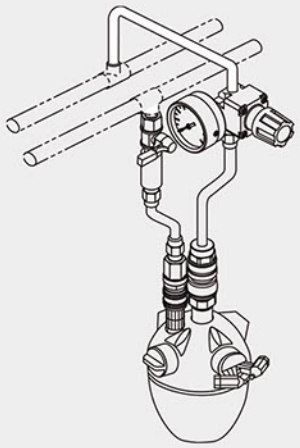
Description Inters.Fog

- Weight : 285.5g.
- Material : Bodey - PP (Polypropylene)
- Nozzle Tip : S303

Pipe Connection Kits (Optional) for easy installation of Inters.FOG

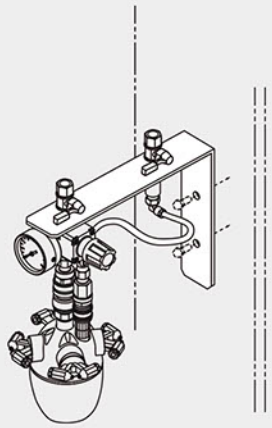
Wall mounting kit and Hanging-down kit are assembled before shipment

Standard Pipe Conn. Kit



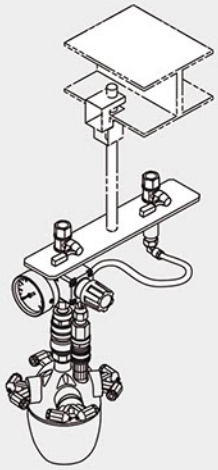
- This kit is to be assembled by customers.
- 1/4" PT male (R 1/4) threaded connection.

Wall Mounting Kit



- Bolts for fixing mounting plate are not included and to be prepared by customers.
- The diameters of holes on the plate are 9mm.
- 1/4" PT female (Rc 1/4) threaded connection.

Hanging-down Kit



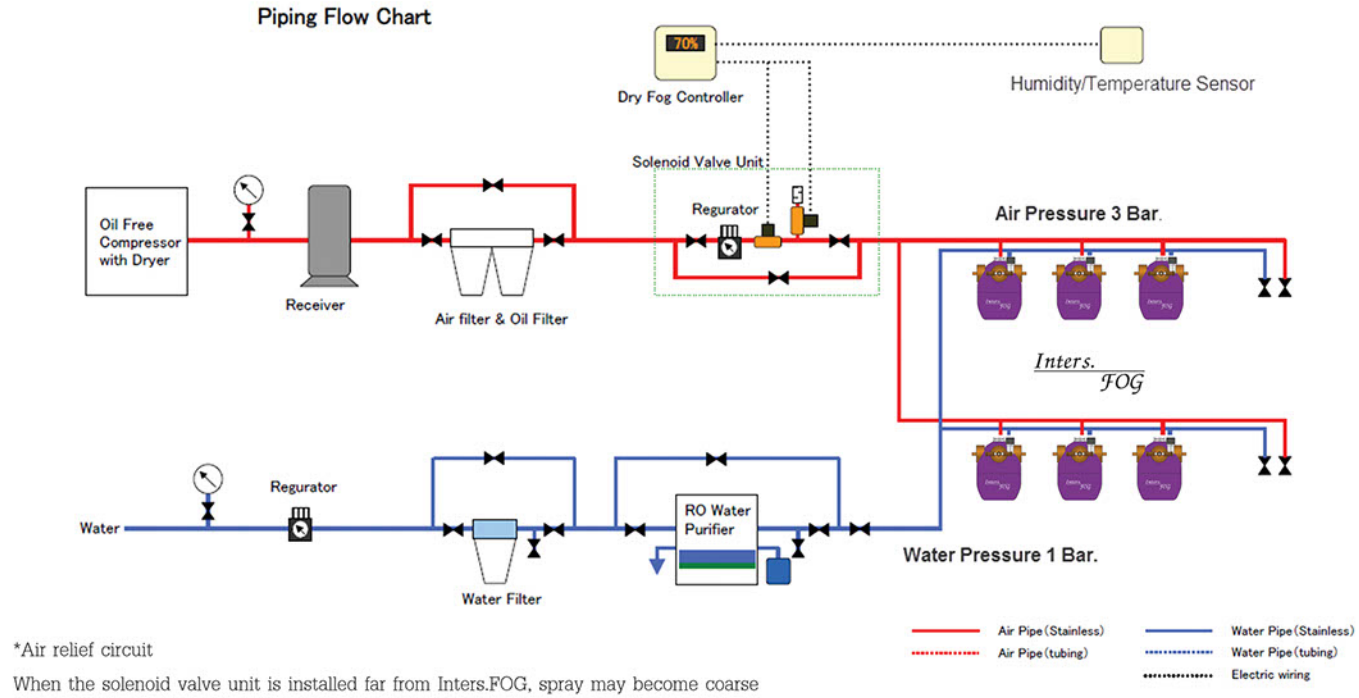
- Bolts & hanging fixture are not included and to be prepared by customers.
- The diameter of hole on the plate is 11mm.
- 1/4" PT female (Rc 1/4) threaded connection.

Hanging-down (NP) Kit (w/o plate)

- 1/4" PT female (Rc 1/4) threaded connection.

Installation & Ancillary Devices

For minimal maintenance and long life, clean air and purified water must be supplied.
IKEUCHI, with a wealth of experience, provides a wide range of ancillary devices for purifying water/air and automatic humidity control.

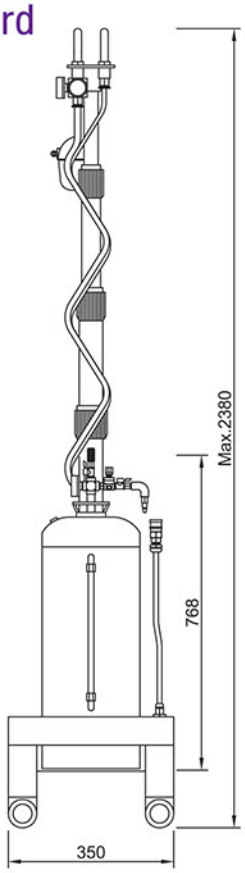


*Air relief circuit

When the solenoid valve unit is installed far from Inters.FOG, spray may become coarse when stopping. In such cases, please install another solenoid valve for air relief between the solenoid valve for spray ON/OFF and Inters.FOG

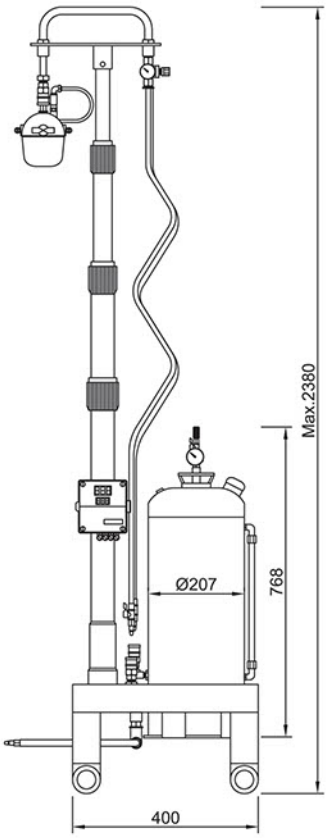
The solenoid valve for air relief should operate reversely from the spray-ON/OFF solenoid valve.

Dimensions standard



Set STD. includes :

1. Dry fog 1 nozzle
2. STD. with wheels
3. Telescopic pole
4. Pressure tank
5. Gauge-pressure regulators
6. Mouting unit
7. Safety vlave



Portable Dry Fog Humidifier Set “Inters.FOG-1N-PT”

ตัวเครื่องไม่ต้องใช้ไฟฟ้า เพียงต่อเข้ากับลม ก็สามารถใช้งานได้ทันที

ไม่ต้องเดินท่อ

ลักษณะเด่นและการใช้งาน

1. เป็นชุดเพิ่มความชื้นที่ใช้งานได้สะดวกและง่าย เพราะไม่ต้องเดินท่อ สามารถวางไว้ในบริเวณเครื่องจักรได้อย่างง่ายดาย
2. ช่วยป้องกันความเสียหายจากไฟฟ้าสถิตและ การยึดเกาะของฝุ่น ลดการฟุ้งกระจายของฝุ่นจึงช่วยปรับปรุงคุณภาพให้ดีขึ้น
3. เหมาะกับกระบวนการประกอบชิ้นส่วน อิเล็กทรอนิกส์, การพ่นสี, การผลิตชิ้นส่วนพลาสติกและอื่น ๆ อีกมากมาย
4. ลด Defect ของ product

Pressure Tank

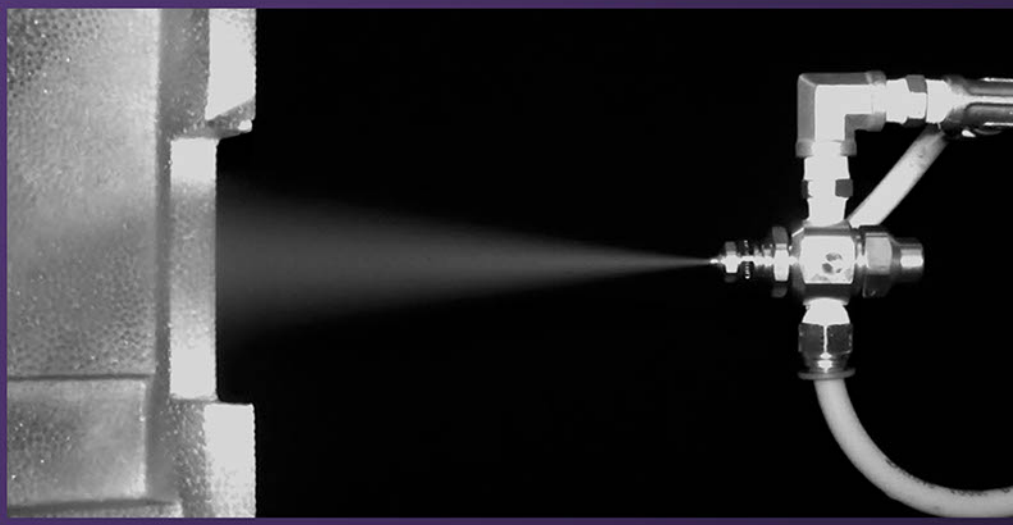
ปริมาตรของถัง	:	18 ลิตร
วัสดุ	:	Stainless steel 304 etc.
แรงดันสูงสุด	:	0.7MPa
มวล	:	6kg (เมื่อบรรจุเต็มถัง 24kg)

หมายเหตุ: Safety valve ตั้งค่าอยู่ที่ 0.4MPa

Air + Liquid Mixing

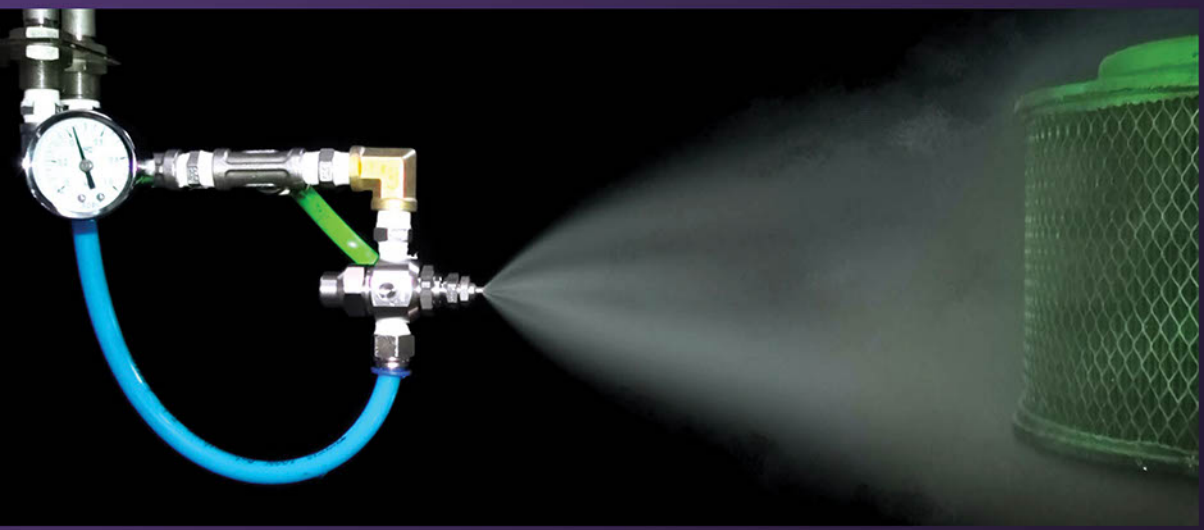
Low pressure operation

Save Air consumption



ISMF series

Fine mist nozzles



Cooling

Coating

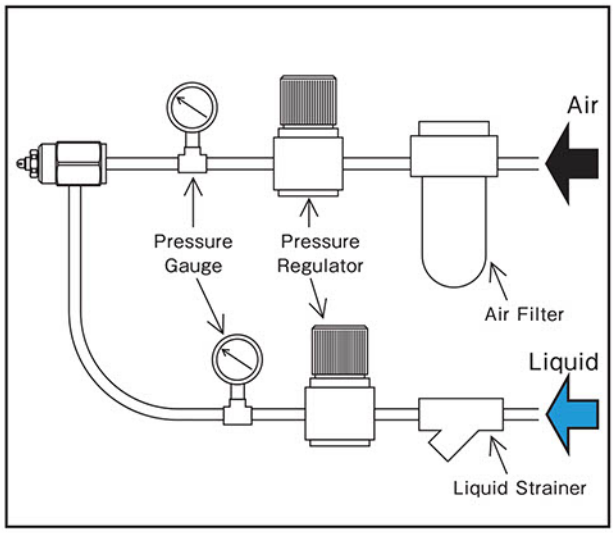
Curling

Etc.

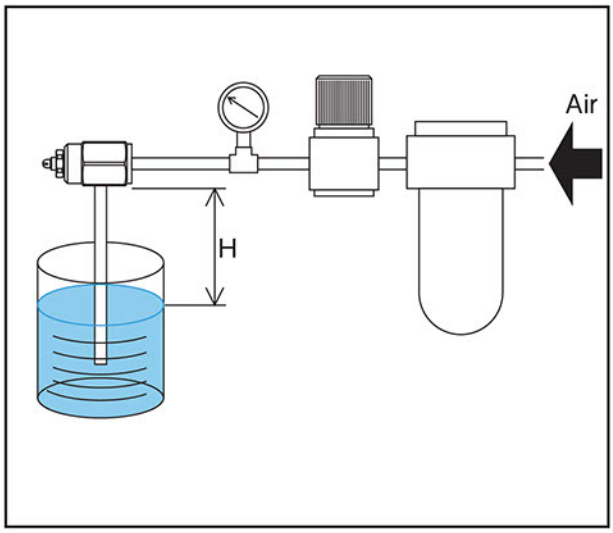
2. Liquid feeding system

Two liquid feeding systems are available.
One is the liquid pressure system and the other is the liquid siphon system.

Liquid pressure system

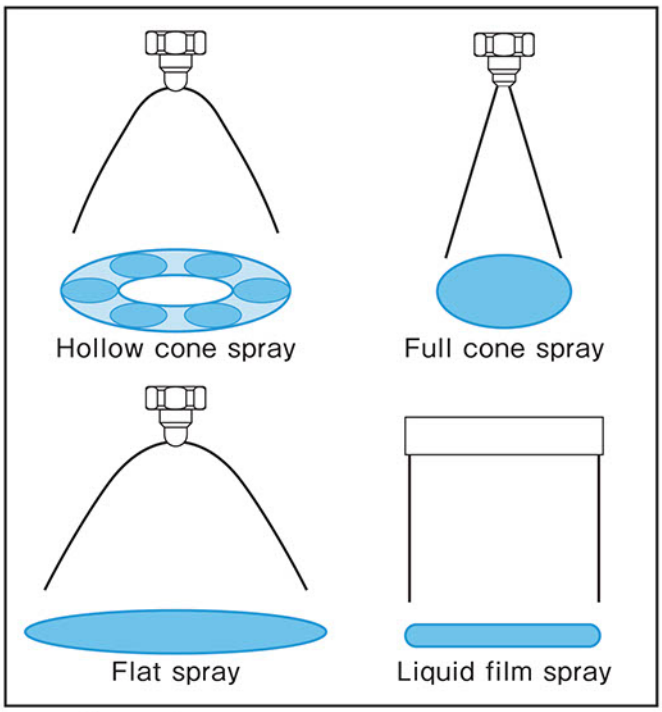


Liquid siphon system



Spray capacity differs depending on liquid siphon height (H).

3. Spray pattern



Spray pattern means the cross sectional shape of spray.
As illustrated, spray patterns are available in cone spray (hollow cone spray and full cone spray), flat spray, and liquid film spray. The best spray pattern among them can be selected for each application.

Hollow cone sprays and full cone sprays are suitable for humidification, cooling gases, chemical reactions and moisture control, etc., while flat sprays and liquid film spray are suitable for cooling, coating, etc.

The spray patterns of pneumatic spray nozzles deform significantly as the distance from the nozzle becomes greater.

Features

- Produce fine atomization with a mean droplet diameter of 100 um or less (measured by Laser Doppler Method).
- Clog-resistant design.
- Designed using fewer parts for easier maintenance and lower price.

Structure & Material

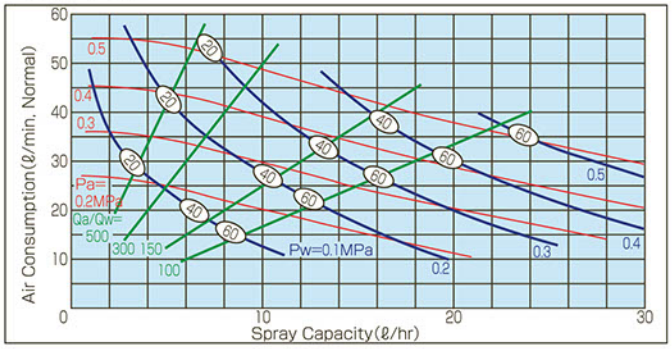
- Comprising 4 parts: Spray tip, core, cap and adaptor.
- S303
  Optional material : S316L

Applications

- Cooling : metal castings / coating processes
  Cooling of plastics after forming, cooling of plastic pellets
  Cooling hot air from sintering, work environment improvement
  Cooling after the oven in painting/coating processes
- Spraying of release agent, lubricant, rustproofing oil in forging, casting and press processes
- Humidification and dust suppression in storage areas
- Dust suppression, humidification before the booth,

Flow-rate Diagram

■ISMF80JD



How to read the chart

① The spray capacity shown is for one nozzle.
② Red lines (-) represent compressed air pressure Pain MAa.
Blue lines (-) represent liquid pressure Pw in MPa.
Green lines (-) represent air-water ratio Qa/Qw.
③ Figures in ovals ◯ indicate Sauter mean droplet diameters(μm) measured by the Laser Doppler Method.

ISMF Performance Chart

Liquid pressure type ISMF(Flat Spray)

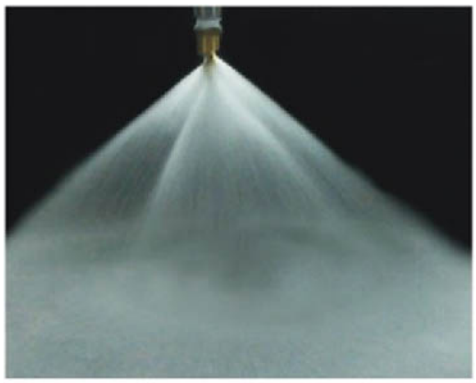
Nozzle Code	Spray Angle Code	Air Consumption Code	Air Pressure (Mpa)	Spray Capacity (l/hr) & Air Consumption (l/min, Normal)										Spray Coverage (mm)			Mean Droplet Dia. (μm)	Free Passage Diameter (mm)		
				Liquid Pressure (Mpa)										Liquid Press. (Mpa)			Laser Doppler	Spray Tip	Adapter	
				0.1 Liquid	0.1 Air	0.15 Liquid	0.15 Air	0.2 Liquid	0.2 Air	0.25 Liquid	0.25 Air	0.3 Liquid	0.3 Air	0.1	0.15	0.25			Liquid	Air
ISMF***JB	110° 80° 45°	JB	0.2	2.2 /	14	5.3 /	11	-		-		-		200	260	-	15~100	0.3	0.9	0.7
			0.3	1.0 /	20	2.5 /	19	4.6 /	17	8.3 /	12	14.3 /	7	170	210	300				
			0.4	-		1.4 /	25	2.3 /	24	4.0 /	23	6.3 /	20	-	200	250				
ISMF***JD		JD	0.2	4.5 /	25	9.5 /	20	17.0 /	13	-		-		200	260	-	15~100	0.4	0.9	0.9
			0.3	2.0 /	36	4.7 /	35	8.5 /	31	13.1 /	27	19.6 /	20	170	210	310				
			0.4	-		2.8 /	45	4.8 /	44	7.7 /	41	11.4 /	37	-	200	260				
ISMF***JGE		JGE	0.2	8.7 /	51	18.4 /	42	33.3 /	29	-		-		200	270	-	15~100	0.6	1.2	1.4
			0.3	4.0 /	74	8.8 /	71	15.5 /	64	24.3 /	54	38.5 /	40	170	210	310				
			0.4	-		5.6 /	91	9.1 /	89	14.8 /	82	21.8 /	74	-	200	260				
ISMF***AE		AE	0.2	16.8 /	107	34.8 /	90	64.4 /	60	-		-		210	280	-	15~100	0.9	1.8	1.9
			0.3	8.0 /	150	17.7 /	144	30.8 /	130	50.0 /	108	74.5 /	87	180	220	320				
			0.4	-		11.2 /	190	18.3 /	183	29.1 /	172	42.9 /	154	-	200	270				
ISMF***BB		BB	0.2	22.3 /	140	45.6 /	116	92.1 /	76.9	-		-		210	280	-	15~100	1.1	2.1	2.2
			0.3	11.5 /	200	23.9 /	189	41.3 /	169	68.5 /	138	107 /	103	180	220	330				
			0.4	-		15.3 /	245	24.5 /	238	39.1 /	220	57.7 /	198	-	210	280				

How to inquire / Order Please inquire or order for a specific nozzle using this coding system.

(Example) ISMF8004S303+NS303

ISMF	110	JB	S303	+	N	S303
	Spray Angle Code: ■110° ■80° ■45°	Air Consumption Code: ■JB ■JD ■JGE ■AE ■BB	Material of Spray Tip, Core & Cap		Type of Adaptor: ■N ■T ■ND (UND) ■SP (USP) ■SN (USN)	Material of Adaptor

FSR Minimum Clogging Spiral Spray Nozzle



Features

A full cone spray pattern with larger flow rates and smaller droplet sizes. Durable, one-piece, anti-clog design has no internal vane to clog or wear out.

Applications

Gas Scrubbing, Wet Scrubber, Cooling, Chemical processes, Fire Suppression.

FSR Series

Model	Pipe Conn. Size BSPT	Spray Angle					Spray Code	Free Pass Dia. (mm)	Orifice Dia. (mm)	Spray Capacity (L/min)					
		60	90	120	150	170				0.5 Bar	1.5 Bar	3 Bar	5 Bar	10 Bar	15 Bar
FSR	1/4	•	•	•	•	•	JG	2.38	2.38	2.2	3.9	5.5	7.1	10.1	16.3
		•	•	•	•	•	AC	3.18	3.18	4.1	7.3	10.3	13.2	18.7	30.5
		•	•	•	•	•	BJ	3.18	3.97	6.4	11.2	15.8	20.4	28.8	46.8
	3/8	•	•	•	•	•	CJ	3.18	4.76	9.6	16.7	23.7	30.6	43.2	68.3
		•	•	•	•	•	DJ	3.18	5.56	13.1	22	32.1	41.3	54.8	91.2
		•	•	•	•	•	EC	3.18	6.35	17.1	30	41.8	54.2	76.4	121
		•	•	•	•	•	HB	3.18	7.94	26.6	46	65.1	84.1	119	187
	1/2	•	•	•	•	•	ABJ	4.76	9.53	38.8	67	95.1	123	174	270
		•	•	•	•	•	AFD	4.76	11.1	53.2	92	130	168	238	370
	3/4	•	•	•	•	•	BAJ	4.76	12.7	67.7	117	166	214	303	480
	1	•	•	•	•	•	CDJ	6.35	15.9	108	190	264	341	483	775
		•	•	•	•	•	DGJ	6.35	19.1	153	260	375	484	685	1070
	1-1/2	•	•	•	•	•	FDJ	7.94	22.2	208	355	509	657	980	1460
		•	•	•	•	•	HBJ	7.94	25.4	272	455	667	861	1220	1870
		•	•	•	•	•	IFJ	7.94	28.6	309	535	758	978	1380	2190
	2	•	•	•	•	•	ADJJ	11.1	34.9	451	780	1110	1430	2020	3190
		•	•	•	•	•	AGHJ	11.1	38.1	570	995	1400	1800	2550	4060
	3	•	•	•	•	•	BEFJ	14.3	44.5	825	1430	2020	2610	3690	5830
		•	•	•	•	•	CCFJ	14.3	50.8	1090	1880	2680	3460	4891	7660

How to order

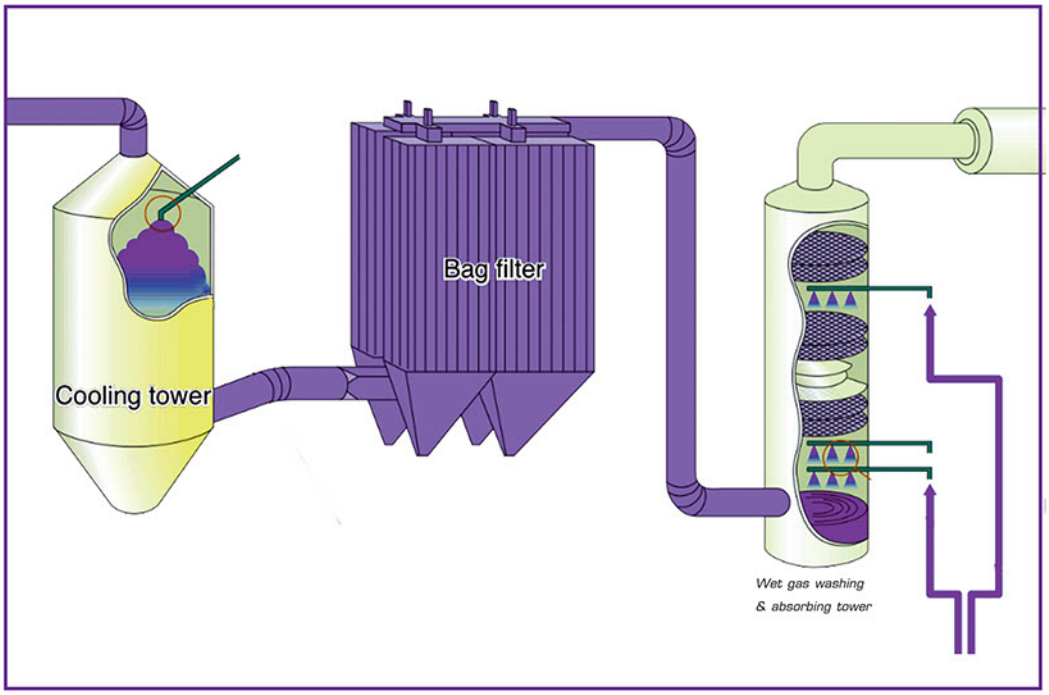
Please order for a specific nozzle on this coding system

(Example)

1/2	FSR	120	ABJ	S316
Pipe Size		Spray Angle	Spray Code	Material

Material Available:
Stainless Steel: SS316
Plastic: POM, PP, PTFE

FSR Minimum Clogging Spiral Spray Nozzle



Size	Length (mm)	Hex (mm)
1/4	47.6	14.3
3/8	47.6	17.5
1/2	63.5	22.2
3/4	70.1	28.6
1	92.2	34.9
1 1/2	111	50.8
2	175	63.5
3	203	88.9

FSR Series options

FSR-SS316

FSR-PP

FSR-POM

FSR-PTFE

FSR-Multi Nozzles

FSR-CMP

FSR-Saddle-PP

FSR-Saddle-S

FSR-Adjustable

Features
- Flat spray pattern with a mountainshaped spray distribution having gradually tapered edges.
- Tapered edges overlap to provide uniformity of spray distribution in multiple-nozzle arrangements.

Standard Pressure
0.3 bar

Applications
Cleaning: Automotives, containers, films, felts, filters, screens, bottles, crushed stones, earth and sand, metal parts, machines, steel plates and pieces
Spraying: Etchants, oils, lubricants, liquids, solutions, insecticides, herbicides
Cooling: Gas, smokes, heat exchangers, tanks, steels, roofs
Water screen: Fire protection, heat protection, dust suppression, deodorization.

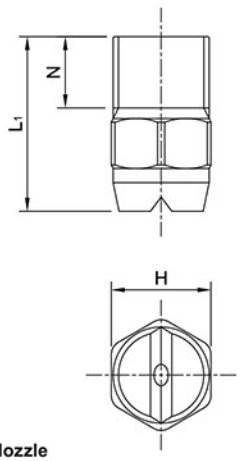
ISF series

Structure
Made of metal
Simple one-piece structure to be screwed into pipe.

Material
S303 or B (brass)
S316L equivalent (precision-molded stainless steel)
Optional material: S316
Ultrahigh molecular weight polyethylene or others

Series	Pipe conn. size	Dimensions (mm)			Mass (g)		
		L_1	H	N	S303	B	S316L
ISF	1/8M	18.5	12	6.5	10	11	-
	1/4M	26	14	10.5	21	23	-
	3/8M	30	19	14	37	40	-
	1/2M	38	23	15	65	70	-
ISF (Precision-molded stainless steel)	1/8M	20	12	7	-	-	9.6
	1/4M	27	14	10.5	-	-	16

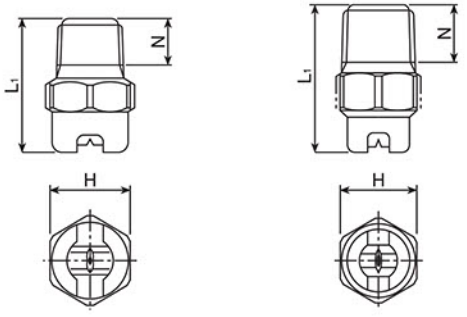
{Note} Appearance and dimensions may differ slightly depending on materials and nozzle codes.



Ⓐ Nozzle

Precision-molded stainless steel

1/8M 1/4M



Ⓐ Nozzle

Spray Angle	Spray Code	Pipe Connection Size ISF series All Metal 1/8M	1/4M	3/8M	1/2M	Free Pass. Dia. (mm)	Spray Angle (°) 1.5 Bar	3 Bar	7 Bar	Spray Capacity (ℓ/min) 0.5 Bar	1 Bar	1.5 Bar	2 Bar	3 Bar	5 Bar	7 Bar	10 Bar	20 Bar	Mean Drop. Dia. (μm)
115	JC	/	/			0.2	101	115	124	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	140
	JD	/	/			0.2	102	115	124	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	≀
	JE	/	/			0.3	102	115	124	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	160
	JG	/	/			0.3	103	115	124	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	
	AJ	/	/			0.4	103	115	124	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	≀
	AE	/	/			0.5	104	115	123	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	
	BJ	/	/			0.6	104	115	123	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	270
	CJ	/	/			0.8	105	115	122	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	
	DJ	/	/			0.8	106	115	122	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	
	FJ	/	/			1.0	107	115	121	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	≀
	HJ	/	/			1.2	107	115	121	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	
	AJJ		/			1.7	107	115	120	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	
	BJJ		/			2.4	109	115	120	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	510
	BCJ			/		2.7	109	115	119	9.39	13.3	16.3	18.8	23.0	29.7	35.1	42.0	59.4	≀
	CJJ			/		3.0	109	115	119	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	
	DJJ				/	3.5	110	115	118	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	580
	FJJ				/	4.3	111	115	118	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	610
90	JB	/	/			0.2	76	90	100	-	0.12	0.14	0.16	0.20	0.26	0.31	0.37	0.52	145
	JC	/	/			0.2	76	90	100	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	150
	JD	/	/			0.3	77	90	100	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	≀
	JE	/	/			0.3	77	90	100	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	170
	JG	/	/			0.4	78	90	100	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	
	AJ	/	/			0.5	78	90	99	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	≀
	AE	/	/			0.6	79	90	99	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	
	BJ	/	/			0.7	79	90	98	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	
	CJ	/	/			0.9	80	90	97	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	280
	DJ	/	/			1.1	81	90	97	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	
	EJ	/	/			1.2	81	90	97	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	
	FJ	/	/			1.3	82	90	96	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	
	HJ	/	/			1.5	82	90	96	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	≀
	AJJ	/				1.7	82	90	96	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	
	ABJ	/				2.0	83	90	95	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	
	ADJ		/			2.2	83	90	95	5.72	8.08	9.90	11.4	14.0	18.1	21.4	25.6	36.1	
	BJJ		/			2.6	84	90	95	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	540
	CJJ		/	/		3.4	84	90	94	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	≀
	DJJ			/		3.8	85	90	94	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	580
	EJJ				/	4.2	85	90	93	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	≀
	FJJ				/	4.7	86	90	93	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	
80	JE	/	/			0.3	67	80	90	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	180
	JG	/	/			0.4	68	80	89	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	
	AJ	/	/			0.5	68	80	89	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	≀
	AE		/			0.7	69	80	88	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	
	BJ	/	/			0.8	69	80	88	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	
	CJ	/	/			1.0	70	80	87	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	290
	DJ	/	/			1.2	71	80	87	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	
	EJ		/			1.4	71	80	86	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	≀
	HJ	/	/			1.7	72	80	86	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	
	ABJ	/	/			2.1	73	80	85	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	
	BJJ		/			2.9	74	80	85	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	550
	CJJ		/			3.7	74	80	84	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	570
	EJJ			/		4.8	75	80	83	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	600
	FJJ				/	5.1	76	80	83	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	≀
65	JC	/	/			0.3	52	65	75	-	-	0.21	0.24	0.30	0.39	0.46	0.55	0.77	160
	JD	/	/			0.3	52	65	75	-	-	0.28	0.33	0.40	0.52	0.61	0.73	1.03	≀
	JE	/	/			0.4	52	65	74	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	190
	JG	/	/			0.5	53	65	74	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	
	AJ	/	/			0.6	54	65	73	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	≀
	AE	/	/			0.8	54	65	73	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	
	BJ	/	/			0.9	55	65	72	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	310
	CJ	/	/			1.1	56	65	72	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	
	DJ	/	/			1.3	56	65	71	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	
	EJ	/	/			1.5	57	65	71	2.04	2.89	3.54	4.08	5.00	6.46	7.64	9.13	12.9	
	FJ	/	/			1.6	57	65	71	2.45	3.46	4.24	4.90	6.00	7.75	9.17	11.0	15.5	
	HJ	/	/			1.9	58	65	71	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	≀
	AJJ	/				2.1	58	65	70	4.08	5.77	7.07	8.17	10.0	12.9	15.3	18.3	25.8	
	ABJ	/	/			2.3	58	65	70	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	
	ADJ		/			2.5	59	65	69	5.72	8.08	9.90	11.4	14.0	18.1	21.4	25.6	36.1	
	AGJ		/			2.8	59	65	69	6.94	9.82	12.0	13.9	17.0	22.0	26.0	31.1	43.9	
	BJJ		/			3.0	59	65	69	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	580
	CJJ		/			3.9	60	65	69	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	650

Spray Angle	Spray Code	Pipe Connection Size ISF series All Metal 1/8M	1/4M	3/8M	1/2M	Free Pass. Dia. (mm)	Spray Angle (°) 1.5 Bar	3 Bar	7 Bar	Spray Capacity (ℓ/min) 0.5 Bar	1 Bar	1.5 Bar	2 Bar	3 Bar	5 Bar	7 Bar	10 Bar	20 Bar	Mean Drop. Dia. (μm)
50	JE	/	/			0.4	38	50	59	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	210
	JG	/	/			0.5	38	50	58	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	≀
	AJ	/	/			0.6	40	50	58	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	
	BJ	/	/			1.0	41	50	57	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	
	CJ	/	/			1.2	42	50	56	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	340
	DJ	/	/			1.4	42	50	56	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	≀
	HJ	/	/			2.0	43	50	55	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	
	ABJ	/				2.5	44	50	54	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	550
	BJJ		/			3.3	45	50	53	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	640
	DJJ			/		4.9	46	50	52	16.3	23.1	28.3	32.7	40.0	51.6	61.1	73.0	103	≀
	FJJ				/	6.1	47	50	52	24.5	34.6	42.4	49.0	60.0	77.5	91.7	110	155	750
40	JE	/	/			0.4	30	40	48	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	230
	JG	/	/			0.5	30	40	48	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	≀
	AJ	/	/			0.7	31	40	47	0.41	0.58	0.71	0.82	1.00	1.29	1.53	1.83	2.58	
	BJ	/	/			1.0	32	40	46	0.82	1.15	1.41	1.63	2.00	2.58	3.06	3.65	5.16	380
	CJ	/	/			1.3	33	40	46	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	
	DJ	/	/			1.5	33	40	45	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	
	HJ	/	/			2.1	34	40	44	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	≀
	ABJ	/	/			2.8	35	40	44	4.90	6.93	8.49	9.80	12.0	15.5	18.3	21.9	31.0	
	BJJ		/			3.5	35	40	43	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	710
	CJJ		/			4.5	36	40	42	12.2	17.3	21.2	24.5	30.0	38.7	45.8	54.8	77.5	800
	EJJ			/		5.8	37	40	42	20.4	28.9	35.4	40.8	50.0	64.6	76.4	91.3	129	850
	HJJ				/	7.4	37	40	41	32.7	46.2	56.5	65.3	80.0	103	122	146	206	≀
25	JE	/	/			0.5	18	25	32	-	0.29	0.35	0.41	0.50	0.65	0.76	0.91	1.29	270
	JG	/	/			0.6	18	25	32	-	0.40	0.49	0.57	0.70	0.90	1.07	1.28	1.81	≀
	AE	/	/			1.0	19	25	31	0.61	0.87	1.06	1.23	1.50	1.94	2.29	2.74	3.87	
	CJ	/	/			1.4	19	25	30	1.23	1.73	2.12	2.45	3.00	3.88	4.58	5.48	7.75	440
	DJ	/	/			1.7	19	25	30	1.63	2.31	2.83	3.27	4.00	5.16	6.11	7.30	10.3	≀
	HJ	/	/			2.3	20	25	29	3.27	4.62	5.66	6.53	8.00	10.3	12.2	14.6	20.6	
	BJJ		/			4.0	21	25	27	8.16	11.5	14.1	16.3	20.0	25.8	30.6	36.5	51.6	850

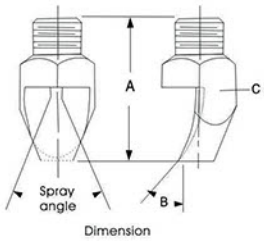
How to order

Please order for a specific nozzle on this coding system

(Example)

1/4M	ISF	115	ABJ	S303
Pipe Size	*Series*	*Spray Angle*	*Spray Code*	*Material*

Material Available:
Stainless Steel:
S303, S316, S316L
Brass



Spray Pattern

Features

- Very high impact flat spray pattern with narrow spray angle, sharply defined edges and uniform spray distribution.
- Medium-sized drops.
- Solid one-piece design with deflector plane.
- Large unobstructed flow passage minimizes clogging.

Applications

- Crushed stone gravel washing
- Degreasing
- Fruit/vegetable washing
- High impact washing
  Paper machine deckle spray

Specifications

Spray Angle (°) at3 bar	Spray Code	Nozzle Inlet Conn. NPT or BSPT					Spray Capacity (L/min)								Orifice dia. (mm)	Spray angle (°)			Dimensions		
		1/8	1/4	3/8	1/2	3/4	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	10 Bar		1 Bar	2 Bar	3 Bar	A (mm)	B Deflection angle	C Square bar size (mm)
50°	AJ		•				2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	2.0	34	50	60	31	60°	15.9
	BE		•	•			5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	2.8	42	50	59	41.5	42°	91.1
	DJ		•	•			9.1	12.9	15.8	18.2	20.0	22.0	24.0	29.0	3.6	39	50	60	47	45°	19.1
	FJ			•			13.7	19.3	24.0	27.0	31.0	33.0	36.0	43.0	4.8	42	50	53	55	37°	25.4
	AJJ			•			23.0	32.0	39.0	46.0	51.0	56.0	60.0	72.0	6.0	43	50	55	72	40°	31.8
	ABE			•			28.0	40.0	49.0	57.0	64.0	70.0	75.0	90.0	6.7	38	50	59	72	38°	31.8
	AFJ			•			36.0	52.0	63.0	73.0	82.0	89.0	96.0	115.0	7.5	44	50	55	72	37°	31.8
	BJJ			•			46.0	64.0	79.0	91.0	102.0	112.0	121.0	144.0	8.3	46	50	53	72	32°	31.8
40°	DJ			•			9.1	12.9	15.8	18.2	20.0	22.0	24.0	29.0	3.6	31	40	50	60.3	35°	22.2
	EJ			•			11.4	16.1	19.7	23.0	25.0	28.0	30.0	36.0	4.0	31	40	49	63.5	33°	25.4
	FJ			•			13.7	19.3	24.0	27.0	31.0	33.0	36.0	43.0	4.4	32	40	49	72	33°	25.4
	GJ			•			16.0	23.0	28.0	32.0	36.0	39.0	42.0	50.0	5.2	32	40	49	75.5	29°	25.4
	HJ			•			18.2	26.0	32.0	36.0	41.0	45.0	48.0	58.0	5.2	32	40	48	77.0	26°	25.4
	IJ			•			21.0	29.0	36.0	41.0	46.0	50.0	54.0	65.0	5.6	34	40	44	77.0	28°	25.4
	AJJ			•			23.0	32.0	39.0	46.0	51.0	56.0	60.0	72.0	6.0	35	40	44	86.5	28°	25.4
35°	JD	•					0.91	1.3	1.6	1.8	2.0	2.2	2.4	2.9	1.2	20	35	41	23.0	40°	11.1
	AJ		•				2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	2.0	18	35	39	36.5	36°	15.9
	BJ		•	•			4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	2.8	24	35	40	42.0	30°	19.1
	BE			•			5.7	8.1	9.9	11.4	12.7	14.0	15.1	18.0	2.8	24	35	39	49.0	28°	19.1
	CJ			•			6.8	9.7	11.8	13.7	15.3	16.7	18.1	22.0	3.2	26	35	41	52.5	28°	19.1
	DJ			•			9.1	12.9	15.8	18.2	20.0	22.0	24.0	29.0	3.6	28	35	38	58.0	26°	22.2
	EJ			•			11.4	16.1	19.7	23.0	25.0	28.0	30.0	36.0	4.0	31	35	38	63.5	23°	22.2
	FJ						13.7	19.3	24.0	27.0	31.0	33.0	36.0	43.0	4.4	29	35	39	73.0	27°	25.4
	HJ				•		18.2	26.0	32.0	36.0	41.0	45.0	48.0	58.0	5.2	26	35	40	81.0	24°	25.4
	AJJ				•		23.0	32.0	39.0	46.0	51.0	56.0	60.0	72.0	6.0	26	35	40	89.0	19°	25.4
	AFJ					•	36.0	52.0	63.0	73.0	82.0	89.0	96.0	115.0	7.5	26	35	40	114.0	23°	31.8
	BJJ					•	46.0	64.0	79.0	91.0	102.0	112.0	121.0	144.0	8.3	25	35	40	122.0	22°	31.8
25°	DJ		•				9.1	12.9	15.8	18.2	20.0	22.0	24.0	29.0	3.6	15	25	34	65.0	25°	19.1
15°	AJ		•				2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	2.0		15	23	47.5	22°	15.9
	BJ		•				4.6	6.4	7.9	9.1	10.2	11.2	12.1	14.4	2.8		15	19	54.0	19°	15.9
	CJ			•			6.8	9.7	11.8	13.7	15.3	16.7	18.1	22.0	3.2	6	15	24	72.0	25°	19.1
	DJ			•			9.1	12.9	15.8	18.2	20.0	22.0	24.0	29.0	3.6	8	15	21	92.0	18°	22.2
	EJ			•			11.4	16.1	19.7	23.0	25.0	28.0	30.0	36.0	4.4	9	15	20	90.5	15°	22.2
	FJ				•		13.7	19.3	24.0	27.0	31.0	33.0	36.0	43.0	5.2	10	15	19	125.0	14°	25.4
	HJ				•		18.2	26.0	32.0	36.0	41.0	45.0	48.0	58.0	6.0	11	15	18	130.0	14°	25.4
	AJJ				•		23.0	32.0	39.0	46.0	51.0	56.0	60.0	72.0	7.5	11	15	18	137.0	14°	25.4
	BJJ					•	46.0	64.0	79.0	91.0	102.0	112.0	121.0	144.0	8.3	12	15	18	191.0	14°	31.8

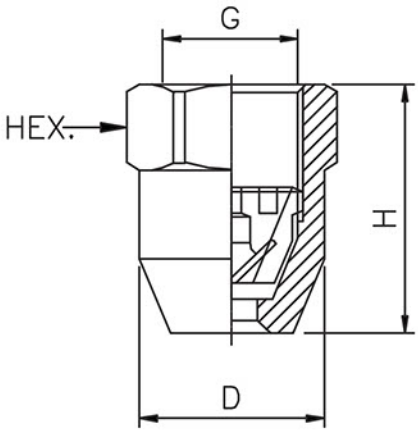
How to order

Please order for a specific nozzle on this coding system

Example → 3/8 (Pipe size) | V (Nozzle type) | 40 (Angle) | EJ (Spray code) | S303 (Material)

Material Avilable:
Stainless Steel SS303
Brass

INTERSPRAY

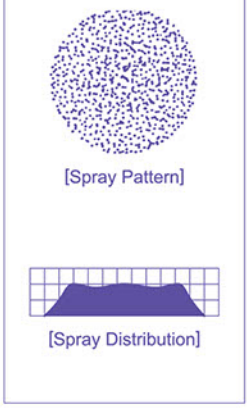


Axial hollow cone spray nozzles in two piece body and swirl insert spiral grooves conduct liquid along a strainght through axial flow line, producing an especially fine atomized spray.

Application :

- Cooling and cleaning of air / gas
- Dust Suppression
- Spray drying
- Filter cleaning
- Desuperheating

MODEL NO.	CONNECTION END			ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	XB	XC	XD										M1/M2	M3	P1/P2
60° SPRAY ANGLE	1/4" BSPP	3/8" BSPP	1/2" BSPP		Flow Capacity in GPM	Pressure [bar]							SS304/ SS316	Brass	PVC/PP
													G/A DIMENSION. MM		
					40°psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	D	HEX
BH14.050	XB			1.1	**0.15**	0.25	0.35	**0.50**	0.61	0.79	0.94	1.12			
BH14.075	XB			1.1	**0.23**	0.375	0.53	**0.75**	0.92	1.19	1.40	1.68			
BH14.100	XB			1.4	**0.31**	0.5	0.71	**1.00**	1.22	1.58	1.87	2.24			
BH14.150	XB			1.4	**0.46**	0.75	1.06	**1.50**	1.84	2.37	2.81	3.35	XB		
BH14.200	XB			1.4	**0.61**	1.00	1.41	**2.00**	2.45	3.16	3.74	4.47	22	16.5	17
BH14.250	XB			1.4	**0.77**	1.25	1.77	**2.50**	3.06	3.95	4.68	5.59			
75 ° SPRAY ANGLE															
BH15.100		XC		2.2	**0.31**	0.5	0.71	**1.00**	1.22	1.58	1.87	2.24	XC		
BH15.150		XC		2.2	**0.46**	0.75	1.06	**1.50**	1.84	2.37	2.81	3.35	29	21.5	22
BH15.200		XC		2.2	**0.61**	1.00	1.41	**2.00**	2.45	3.16	3.74	4.47			
BH15.250		XC		2.2	**0.77**	1.25	1.77	**2.50**	3.06	3.95	4.68	5.59			
90 ° SPRAY ANGLE															
BH16.250		XC		2.2	**0.77**	1.25	1.77	**2.50**	3.06	3.95	4.68	5.59			
BH16.350		XC		2.2	**1.07**	1.75	2.47	**3.50**	4.29	5.53	6.55	7.83			
BH16.400		XC		2.2	**1.23**	2.00	2.83	**4.00**	4.90	6.32	7.48	8.94			
BH16.475		XC		2.2	**1.46**	2.37	3.36	**4.75**	5.82	7.51	8.89	10.62			
BH16.650		XC	XD	2.2	**1.99**	3.25	4.60	**6.50**	7.96	10.28	12.16	14.53			
BH16.800		XC	XD	2.2	**2.45**	4.00	5.66	**8.00**	9.80	12.65	14.97	17.89	XD		
BH26.100			XD	2.2	**3.07**	5.00	7.07	**10.00**	12.25	15.81	18.71	22.36	36	26.7	27
BH26.125			XD	2.2	**3.83**	6.25	8.84	**12.50**	15.31	19.76	23.39	27.95			
BH26.160			XD	2.4	**4.90**	8.00	11.31	**16.00**	19.60	25.30	29.93	35.78			



Features
- Full cone spray pattern with a round impact area and uniform distribution.
- Spray capacity ranges from small to medium.
- X-shaped whirler provides large free passage diameter for minimal clogging.

Standard Pressure
0.2 bar

Applications
Cleaning : Gas, incinerator fumes, machinery, eliminators, screen, tanks, parts, crushed stones, erath and sand.
Cooling : Gas, machineries, tanks, steels.
Spraying : Waste water treatment, aeration, foam breaking, fire extinguishing, dust - suppression, sea water desalination.

ISFC series

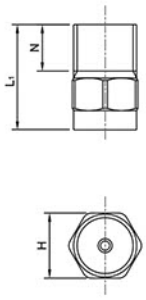
Structure
One-piece structure with press-fit X-shaped whirler.

Material
S303 or B (brass)
Optional material: S316, S316L

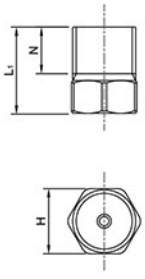
[Note] Thread size of optional material may differ depending on materials.

Pipe conn. size	Dimensions (mm)						Mass (g)
	L_1	L_2	H	W	ØD	N	S303 S316
1/8M (005)	32.5	-	12	-	-	7	9.5
1/8M (010-030)	20	-	12	-	-	7	11
1/4M (005-030)	20	-	14	-	-	10.5	18
1/4M (040-060)	28	-	14	-	-	10.5	21
3/8M	34	6	-	17	20	11	50
1/2M	42	8	-	22	25	13	93.4

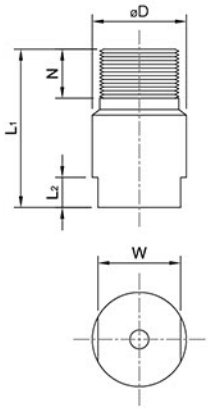
1/8M (005)



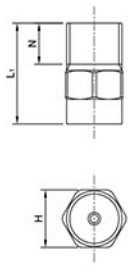
1/4M (005–030)



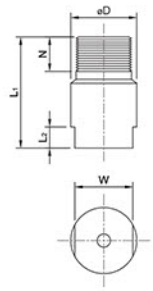
1/2M



1/8M, 1/4M



3/8M



{Note} Appearance and dimensions may differ slightly depending on materials and nozzle codes

INTERSPRAY

ISFC series

Spray Code	Pipe Connection Size				Free Pass. Dia. (mm)	Spray Angle (°)			Spray Capacity (ℓ/min)									Mean Drop. Dia. (μm)
	1/8M	1/4M	3/8M	1/2M		0.5 Bar	2 Bar	5 Bar	0.3 Bar	0.5 Bar	1 Bar	1.5 Bar	2 Bar	3 Bar	5 Bar	7 Bar	10 Bar	
JJE	/	/			0.4	-	55	65	-	-	0.36	0.44	0.50	0.59	0.73	0.83	0.96	270
JAJ	/	/			0.7	50	55	45	-	0.53	0.73	0.88	1.00	1.18	1.45	1.67	1.93	290
JAE	/	/			0.8	60	65	55	-	0.79	1.09	1.31	1.50	1.77	2.18	2.50	2.89	≀
JBJ	/	/			1.4	60	65	55	-	1.06	1.46	1.75	2.00	2.36	2.91	3.34	3.86	
JCJ	/	/			1.4	65	70	60	-	1.59	2.18	2.63	3.00	3.54	4.36	5.00	5.79	410
JDJ		/			1.7	60	65	55	-	2.12	2.91	3.51	4.00	4.72	5.81	6.67	7.72	380
JEJ		/			1.7	65	70	60	-	2.65	3.64	4.38	5.00	5.90	7.27	8.34	9.64	≀
JFJ		/			1.7	70	75	65	2.51	3.18	4.37	5.26	6.00	7.08	8.72	10.0	11.6	520
JGJ			/		1.9	60	65	60	2.93	3.71	5.09	6.13	7.00	8.26	10.2	11.7	13.5	480
JHJ			/		1.9	65	70	65	3.35	4.24	5.82	7.01	8.00	9.44	11.6	13.3	15.4	≀
AJ			/		2.6	75	80	75	4.19	5.29	7.28	8.76	10.0	11.8	14.5	16.7	19.3	
AB			/		2.6	80	85	80	5.03	6.35	8.73	10.5	12.0	14.2	17.4	20.0	23.1	660
AD				/	3.5	65	70	55	5.86	7.41	10.2	12.3	14.0	16.5	20.3	23.3	27.0	590
AF				/	3.5	70	75	60	6.70	8.47	11.6	14.0	16.0	18.9	23.3	26.7	30.9	≀
AH				/	3.5	75	80	65	7.54	9.53	13.1	15.8	18.0	21.2	26.2	30.0	34.7	
BJ				/	3.5	80	85	70	8.38	10.6	14.6	17.5	20.0	23.6	29.1	33.4	38.6	740

How to order

Please order for a specific nozzle on this coding system

(Example)

1/4M	ISFC	JJE	S303
Pipe Size	*Series*	*Spray Code*	*Material*

Material Available:
Stainless Steel: S303, S316
Brass

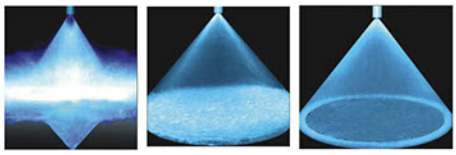
INTERSPRAY

Washing / Cleaning
Etching & Rinising

Clamp Nozzle

Quickly Installation

CMP Nozzles



Double Clamp

Single Clamp

Threaded Ball
Quick Ball

CMP Nozzle are simply clip over a per-drilled pipes and are available with two type of connection (Clamped and Threaded).Adjustable ball CMP nozzle tip are available with a variety of spray balls in various spray patterns, flow rates and spray angles.

Application

Pre-treatment for painting: Cars, Automotive part, Home electric appliances.
Cleaning: water rinsing after acid treatment of metal sheet, water rinsing process in food factory.

Flat spray Ball Tip

Spray Tip Code (spray angle at 3 bar)			Spray Capacity (L/min)						
50°	65°	80°	0.3 Bar	0.7 Bar	1 Bar	1.5 Bar	2 Bar	3 Bar	4 Bar
	FT6510	FT8010	1.2	1.9	2.3	2.8	3.2	3.9	4.6
	FT6520		2.5	3.8	4.6	5.6	6.5	7.9	9.1
	FT6530		3.7	5.7	6.8	8.4	9.7	11.8	13.7
FT5040	FT6540	FT8040	5	7.6	9.1	11.2	12.9	15.8	18.2
	FT6550		6.2	9.5	11.4	14	16.1	19.7	23
	FT6560		7.5	11.4	13.7	16.7	19.3	24	27
	FT6570		8.7	13.3	16	19.5	23	28	32
	FT65100		12.5	19.1	23	28	32	39	46

Full Cone Spray Ball Tip

	Spray Capacity (L/min)							Spray Angle		
	0.3 Bar	0.7 Bar	1 Bar	1.5 Bar	2 Bar	3 Bar	4 Bar	0.5 Bar	1.5 Bar	4 Bar
FC12.5	3.4	4.8	5.4	6.8	7.7	9.3	10.6	69°	74°	68°
FC25	6.7	9.5	10.9	13.5	15.4	18.6	21	64°	67°	63°

Specification

Type	Clamp Size (Inch)	Clamp Out Dia. (mm)	Drilled pipe Dia.(mm)
CMP	1	32-35	14
	1-1/4	38-43	16
	1-1/2	44-51	16
	2	54-60	20

BLQ

BL

Ball Type	Connection Object
BLQ	Quick adaptor object
BL1	Thread size 1/8"
BL2	Thread size 1/4"
BL3	Thread size 3/8"

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

How to order

Please order for a specific nozzle on this coding system

[Example]

CMP - 1 - P14 - PP + FT6530 - PP

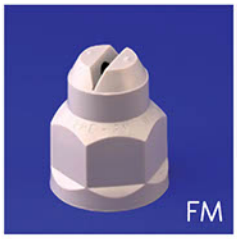
(Clamp Type / Clamp size / Pipe Orifice Dia. / Mat / Tip Type / Mat)

CMPT - 3/8 - PP - QBL + PP - QF6530 - PP

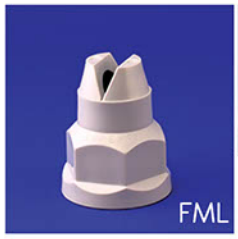
(Clamp Type / Inlet size / Mat / Quick Ball Type / Mat / Tip Type / Mat)

FLAT SPRAY NOZZLES

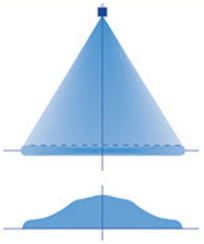
Model: FMS
Size: 1/8"M
Mat: PP

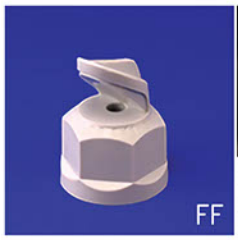


Model: FM
Size: 3/8"F
Mat: PP



Model: FML
Size: 1/2"F
Mat: PP

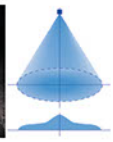




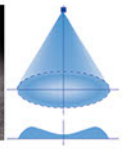
Model: FF
Size: 3/8"F
Mat: PP

Model: INVV
Size: 1/8", 1/4", 3/8"M
Mat: PP

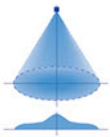
FULL CONE SPRAY NOZZLES



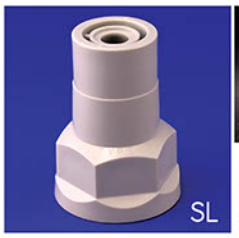
Model: AS
Size: 3/8"F
Mat: PP

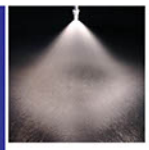
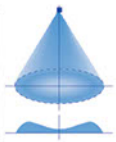


Model: CD
Size: 1/2"F,3/4"F
Mat: PP

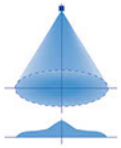


Model: S
Size: 3/8"F
Mat: PP



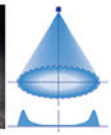
Model: SL
Size: 3/4"F
Mat: PP



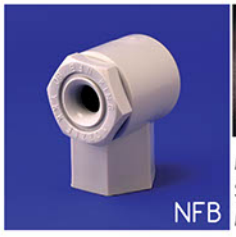
Model: S-100
Size: 1"-2.1/2"F
Mat: PP,Teflon

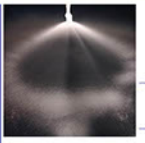
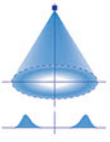
Model: FSR
Size: 1/4"-3"M
Mat: PTFE

HOLLOW CONE SPRAY NOZZLES

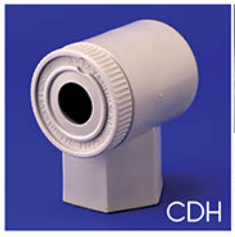


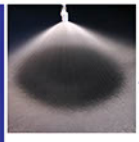
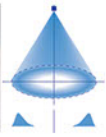
Model: F
Size: 3/8"F
Mat: PP



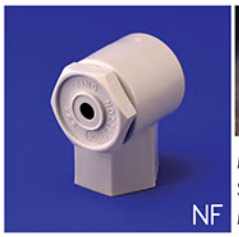



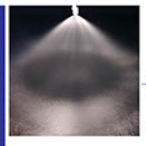
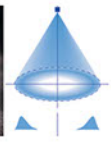
Model: NFB
Size: 3/8"F
Mat: PP



Model: CDH
Size: 1/2"3/4"F
Mat: PP



Model: NF
Size: 3/8"F
Mat: PP

O.5MPa

O.05MPa

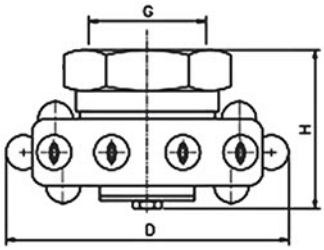
O.2MPa

O.2MPa

Tank Cleaning Nozzles

Nozzles	Series	Flow rate 2bar@	Connection	Max Diameter	Movement	Applications / Design
	REA	12-22	3/8"	Ø1-1.5m	Self - rotating	Cleaning for small tanks size Stainless steel & Plastic
	REB	18-38	1/2"	Ø1-1.5m	Self - rotating	Cleaning for small tank size like kegs and small container
	REC	52-225	3/4",1"	Ø1.5-3m	Self - rotating	CIP system, Rinsing dairy, chemical, pharmaceutical and food
	RED	32-140	3/4"	Ø1.5-3m	Self – rotating Double bearings	CIP system, Rinsing dairy, chemical, pharmaceutical and food
	REE	140-1100	1",2",3"	Ø4-6m	Self - rotating	Cleaning for medium and large tank size
	REF	40-100	1"	Ø1.5-3m	Self - rotating	Storage tanks, small barrels used in dairy, food, beverage, pharmaceutical
	REG	52-100	3/4",1",1.1/4"	Ø3-6m	Self - rotating	Cleaning, rinsing for small tank size
	SEH	18-100	1/2"	Ø1.5-3m	Static spray ball Solid jet spray	Cleaning, rinsing for small tank size
	SEI	100-450	3/4" – 2"	Ø2-5m	Static spray ball Solid jet spray	Cleaning, rinsing for small tank size for higher flow rate

REE Self-Rotating Gyro jet tank washing nozzle



Size	H (mm)	D (mm)
1”	62	117
2”	97	131
3”	116.5	194

Features

Self powered rotating tank cleaning nozzle used for cleaning large and medium size diameter tanks. Efficient cleaning action for medium and large size tanks. Recommended operating pressure 2 to 3 kg and also available coverage 180 up and down, 270° up and down and 360°

Applications

- Tank Washing (Max Ø 5 to 9m)
- Medium and Large Tanks

Specifications

Coverage Type	Spray Angle
A	180°
B	180°
c	270°
D	270°
E	360°

Model	Spray Code	Angle Code	Thread Size	Spray Capacity (L/min) At Pressure (Bar)				
				1	2	3	5	7
REE	3.140	A/B/C/D/E	1”	98.99	140	171.46	221.36	261.92
	3.250	A/B/C/D/E	1”	176.78	250	306.19	395.28	467.71
	3.275	A/B/C/D/E	1”	194.45	275	336.8	434.81	514.48
	3.325	A/B/C/D/E	2”	229.81	325	398.04	513.87	608.02
	3.375	A/B/C/D/E	2”	265.17	375	459.28	592.93	701.56
	3.625	A/B/C/D/E	2”	441.94	625	765.47	988.21	1169.27
	3.800	A/B/C/D/E	3”	565.69	800	979.8	1264.91	1496.66
	3.950	A/B/C/D/E	3”	671.75	950	1163.51	1502.08	1777.29
	4.1100	A/B/C/D/E	3”	777.82	1100	1347.22	1739.25	2057.91

How to order

Please order for a specific nozzle on this coding system

(Example)

REE	3.140	A	1	S304
Model	Spray Code	Angle Code	Thread Size	Material

Material Available:
Stainless Steel: S304, S316

Flat Air Nozzle Best Seller

INTERSPRAY

Improved Manufacturing Process

Reduce air consumption 20 - 30%

Noise Reduction 20 dB(A) (75%)

Material : Sweden Zinc (920 R : Coated Rilsan)

920 A

920 R

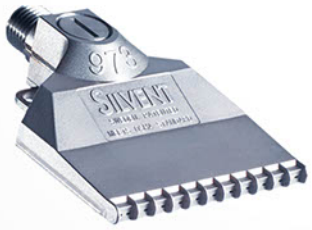
Order no: 920 A

Blowing force	5.5 N	(19.4 oz)
Air consumption	30 Nm^3/h	(17.7 scfm)
Sound level	81 dB(A)	
Air pattern	Flat	
Connection	1/4" BSP	1/4" - 18 NPT
Replace open pipe	6 mm.	
Material	Sweden Zinc	

Material : Sweden Stainless Steel (973 F & 971 F Built - in Flow Regulation)

973

973F

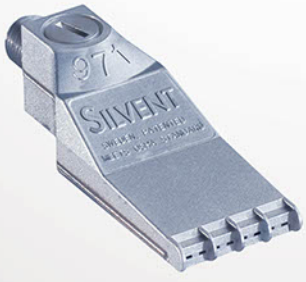


Order no: 973 , 973 F

Blowing force	9.5 N	(33.5 oz)
Air consumption	58 Nm^3/h	(34.1 scfm)
Sound level	86 dB(A)	
Air pattern	Flat	
Connection	1/4" BSP	1/4" - 18 NPT
Replace open pipe	7 mm.	
Material	Sweden Stainless Steel	

971

971F



Order no: 971 , 971 F

Blowing force	3.8 N	(13.4 oz)
Air consumption	21 Nm^3/h	(12.4 scfm)
Sound level	81 dB(A)	
Air pattern	Flat	
Connection	1/8" BSP	1/8" - 27 NPT
Replace open pipe	4 mm.	
Material	Sweden Stainless Steel	

Flat Air Nozzle Best Seller

INTERSPRAY

พัฒนาประสิทธิภาพในการทำงาน
ลดปริมาณลมที่ใช้ลง 20 - 30%
ได้รับการยอมรับมาตรฐานความปลอดภัย OSHA & EU

921

Order no: 921

Blowing force	3.0 N	(10.6 oz)
Air consumption	17 Nm^3/h	(10.0 scfm)
Sound level	80 dB(A)	
Air pattern	Flat	
Connection	1/8" BSP	1/8"-27 NPT
Replace open pipe	4 mm.	
Material	Sweden Zinc	

961

Order no: 961

Blowing force	3.3 N	(11.6 oz)
Air consumption	19.5 Nm^3/h	(11.5 scfm)
Sound level	81.5 dB(A)	
Air pattern	Flat	
Connection	1/8" BSP	1/8"-27 NPT
Replace open pipe	4 mm.	
Material	Sweden Zinc	

ACCESSORIES

Adjustable Swivel Joints (0-45°)

PSK 18 = 1/8",
PSK 14 = 1/4"
[Female x Male]

Application

Flat Air Nozzle Best Seller

INTERSPRAY

Stronger material plastic Zytel by Dupont

9002W

High Performance Aerodynamic design

Order no: 9002W

Blowing force	6.0 N	(21.2 oz)
Air consumption	30 Nm^3/h	(17.7 scfm)
Sound level	80 dB(A)	
Air pattern	Flat	
Connection	1/4" BSP	1/4" - 18 NPT
Material	Zytel by Dupont	

9005W

Extra High Blowing Force

Order no: 9005W

Blowing force	15.0 N	(53.0 oz)
Air consumption	76 Nm^3/h	(44.7 scfm)
Sound level	87 dB(A)	
Air pattern	Flat	
Connection	1/4" BSP	1/4" - 18 NPT
Material	Zytel by Dupont	

9015W

Super Power Single Air Knives (Air Blowing)

Order no: 9015W

Blowing force	45.0 N	(158.9 oz)
Air consumption	228 Nm^3/h	(134.2 scfm)
Sound level	94 dB(A)	
Air pattern	Flat	
Connection	1/2" BSP	1/4" - 14 NPT
Material	Zytel by Dupont	

Air Knife for Blower

Touching the new way

to AIR KNIFE for blower

Interspray

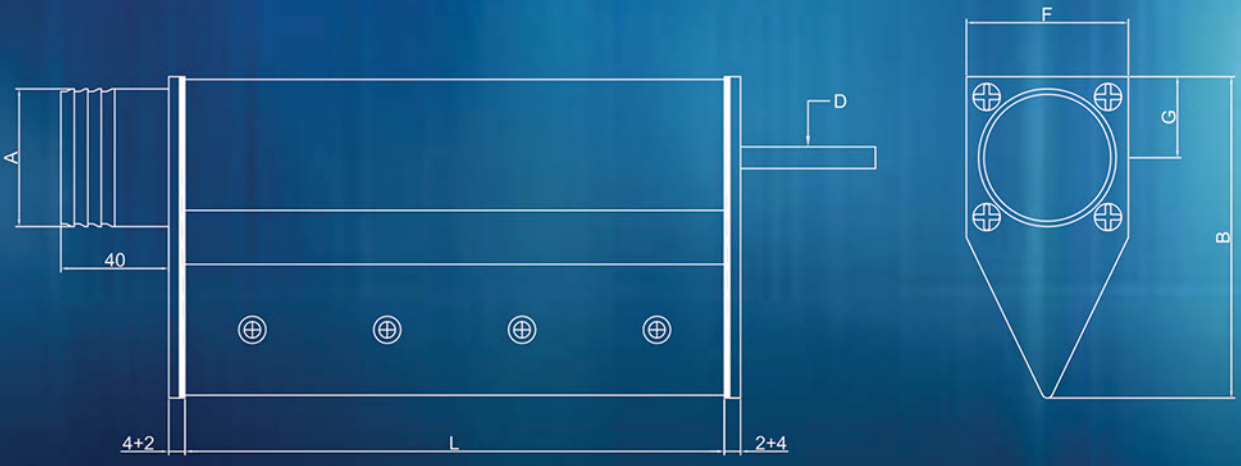
Air Knife for Blower

S1 – Series

Application: Drying & Cleaning

Specifications

Model:	JT-SS-S1
Air Inlet/Connection thread:	(OD) 2" (50mm)
Air Inlet Location:	Side
Length (air outlet) (mm):	300, 500, 800, 1000
Width (air outlet):	1mm.
Adaptable Air Source:	Hot air generator, Hot air blower, Hi-Pressure generator
Material standard stainless steel SS304	*Option: Stainless SS316 / Aluminum



Model	A	B	L	D	F	G
JT-SS-25-S1	1.1/2"	98	300	M8 x 50	50	24.5
JT-SS-40-S1	2"	119	500	M8 x 50	60	30
JT-SS-50-S1	2.1/2"	141	800	M8 x 50	70	37
JT-SS-65-S1	3"	168	1000	M12 x 50	90	44.5

Interspray

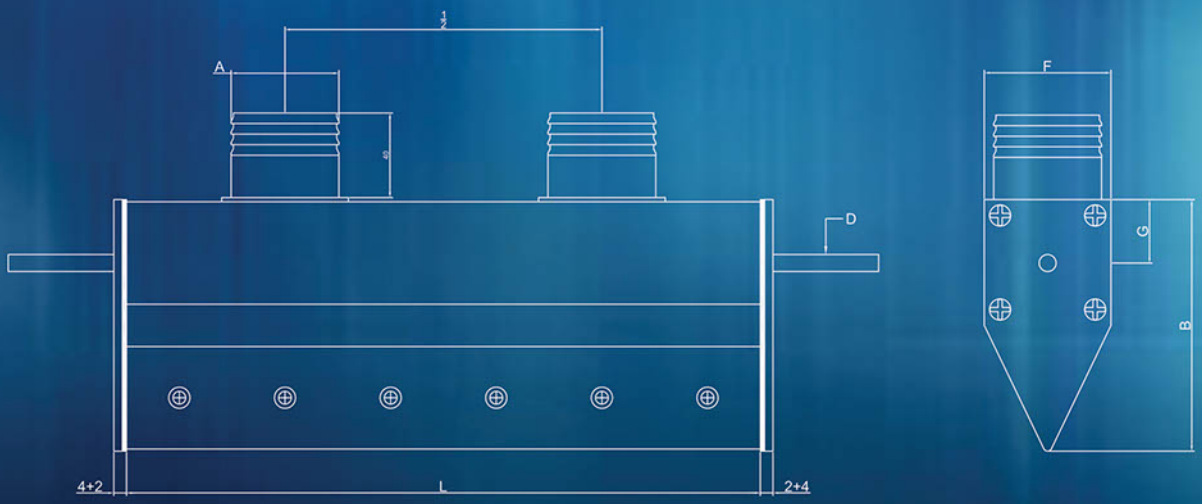
Air Knife for Blower

T2 – Series

Application: Drying & Cleaning

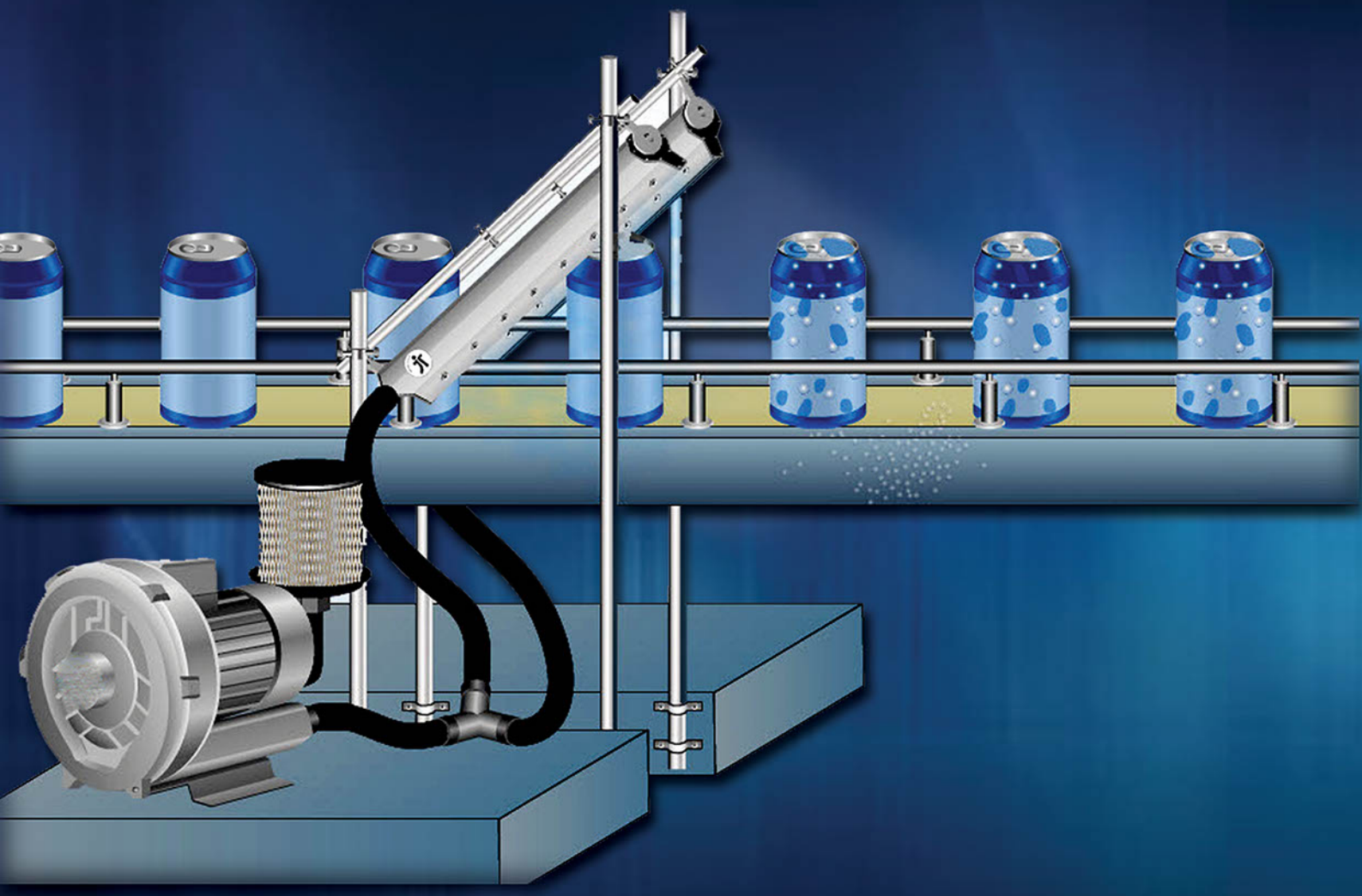
Specifications

Model:	JT-SS-T2
Air Inlet/Connection thread:	(OD) 2", 2 1/2", 3"
Air Inlet Location:	Top
Length (air outlet) (mm):	1000, 2000, 3000
Width (air outlet):	1mm.
Adaptable Air Source:	Hot air generator, Hot air blower, Hi-Pressure generator
Material standard stainless steel SS304	*Option: Stainless SS316 / Aluminum



Model	A	B	L	D	F	G
JT-SS-25-T2	1.1/2"	98	1000	M8 x 50	50	24.5
JT-SS-40-T2	2"	119	2000	M8 x 50	60	30
JT-SS-50-T2	2.1/2"	141	3000	M8 x 50	70	37
JT-SS-65-T2	3"	168	3000	M12 x 50	90	44.5

Air Knife for Blower Drying



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E-mail: sales@i-skygroup.com

Interspray

INTERSPRAY

PRECISE NOZZLES SOLUTION

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