SJ Series - Universal Spray Nozzle Assemblies

Nozzle Features

SJ series is a universal spray nozzles assembly which is available in hollow cone, full cone and flat fan spray patterns. SJ series produce a uniform distribution of small, medium and large size droplets to suit varied applications. All spray tip assemblies are available in various thread connections and optional strainers can be added for spray tips with small free passages to protect nozzles from clogging.

HJT - HOLLOW CONE

CJT - FULL CONE

VJT - FLAT FAN

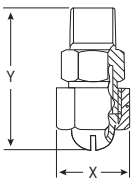
WFT - WIDE FLAT FAN

SJF Body (Female)

SJ Strainer

CJT Tip

SJ Cap



HJT / HJWT Dimensions (Approx.)

NOZZLE TYPE	X (mm)	Y (mm)	WEIGHT (gms)
1/8”	23	48	45
1/4”	23	48	50
3/8”	23	48	80
1/2”	23	48	90

CJT / CJWT Dimensions (Approx.)

NOZZLE TYPE	X (mm)	Y (mm)	WEIGHT (gms)
1/8”	23	48	45
1/4”	23	48	50
3/8”	23	48	80
1/2”	23	48	90

VJT Dimensions (Approx.)

NOZZLE TYPE	X (mm)	Y (mm)	WEIGHT (gms)
1/8”	23	45	45
1/4”	23	45	50
3/8”	23	45	80
1/2”	23	45	90

WFT Dimensions (Approx.)

NOZZLE TYPE	X (mm)	Y (mm)	WEIGHT (gms)
1/8”	23	50	45
1/4”	23	50	50
3/8”	23	50	80
1/2”	23	50	90

SJ Strainer Mesh Chart	
Orifice Dia. (mm)	Recommended Size Mesh
0.20 - 0.50	200
0.51 - 0.80	100
0.81 - 1.30	50

Applications

- High Impact Parts Cleaning
- Fruit & Vegetable Washing
- Descaling
- Conveyor Washing
- Coal Preparation
- Water Treatment

Available Materials

Brass, 303ss, 316ss

* Other materials available on request

HJT Series - Hollow Cone Nozzle

Nozzle Features

HJT series spray nozzles feature a hollow cone spray pattern in medium spray angles, produce uniform distribution of small to medium sized droplets over a wide range of flow rates and pressures. HJT series have an internal core to precisely meter flow rates to enable superior spray control.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	FLOW RATES (LPH @ BarG)							APPROX. SPRAY ANGLE @ BarG	
1/8	1/4	3/8	1/2		2.0	3.0	5.0	7.0	10.0	15.0	25.0	1.5	3.0
●	●	●	●	5	-	-	2.9	3.3	3.9	4.8	5.7	-	-
●	●	●	●	6	-	3.9	4.8	5.6	6.4	7.6	9.4	-	54
●	●	●	●	7	-	4.9	6.1	7.0	8.1	9.5	11.8	-	59
●	●	●	●	8	-	5.9	7.3	8.3	9.7	11.4	14.1	-	63
●	●	●	●	11	6.6	7.9	9.8	11.4	13.3	15.8	19.8	40	68
●	●	●	●	14	8.2	9.8	12.3	14.2	16.6	19.8	24.7	48	70
●	●	●	●	17	9.9	11.8	14.7	17.0	19.9	23.8	29.7	57	72
●	●	●	●	22	13.1	15.7	19.9	23.1	27.2	32.8	41.4	61	73
●	●	●	●	27	16.3	19.7	24.8	28.9	34.0	41.0	51.7	63	73
●	●	●	●	33	19.6	23.6	29.8	34.7	40.8	49.1	62.0	65	74
●	●	●	●	43	26.0	31.5	40.2	47.2	56.0	68.0	86.8	66	74
●	●	●	●	54	32.4	39.4	50.3	59.1	70.0	85.0	108.5	68	75
●	●	●	●	65	38.9	47.3	60.3	70.9	84.0	102.0	130.2	69	76
●	●	●	●	75	45.2	55.2	71.2	84.1	100.3	122.7	158.1	70	76
●	●	●	●	97	58.1	71.0	91.5	108.1	129.0	157.3	203.2	71	77
●	●	●	●	118	71.0	86.8	111.8	132.1	157.7	192.8	248.4	71	78
●	●	●	●	140	83.9	102.6	132.1	156.1	186.4	227.9	293.6	72	78

HJWT Series - Wide Hollow Cone Nozzle

Nozzle Features

HJWT series spray nozzles feature a hollow cone spray pattern in wide spray angles, produce uniform distribution of small to medium sized droplets over a wide range of flow rates and pressures. HJWT series have an internal core to precisely meter flow rates to enable superior spray control.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	FLOW RATES (LPH @ BarG)							APPROX. SPRAY ANGLE @ BarG	
1/8	1/4	3/8	1/2		1.0	1.5	2.0	3.0	4.0	5.0	7.0	1.5	3.0
●	●	●	●	10W	-	-	6.4	7.9	9.1	10.2	12.1	130	140
●	●	●	●	16W	-	8.4	9.7	11.8	13.7	15.3	18.1	138	140
●	●	●	●	22W	-	11.2	12.9	15.8	18.2	20.4	24.1	140	140
●	●	●	●	27W	11.4	14.0	16.1	19.7	22.8	25.4	30.1	140	140
●	●	●	●	32W	13.7	16.7	19.3	23.7	27.3	30.6	36.2	140	140
●	●	●	●	43W	18.2	22.3	25.8	31.6	36.5	40.8	48.2	140	140
●	●	●	●	54W	22.8	27.9	32.2	39.6	45.6	51.0	60.3	140	140
●	●	●	●	64W	27.3	33.5	38.6	47.4	54.7	61.1	72.3	140	140

Applications

- Humidification
- Product Wetting
- Dust Suppression
- Sanitizing

Ordering Example

1/4-HJWT-SS-43W

Available Materials

Brass, 303ss, 316ss

* Other materials available on request

CJT Series - Full Cone Nozzle

Nozzle Features

CJT series spray nozzles feature a full cone spray pattern with a round impact area in narrow to medium spray angles, produce uniform distribution of medium to large sized droplets over a wide range of flow rates and pressures. CJT series uniform spray distribution result from a unique vane design, large and easy flow passages and superior spray control design.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	FLOW RATES (LPM @ BarG)							APPROX SPRAY ANGLE @ BarG	
1/8	1/4	3/8	1/2		0.7	1.5	2.0	3.0	6.0	8.0	12.0	2.0	6.0
●	●	●	●	19	-	0.16	0.19	0.22	0.32	0.38	0.44	51	60
●	●	●	●	25	-	0.22	0.25	0.30	0.44	0.50	0.60	54	61
●	●	●	●	31	-	0.27	0.31	0.37	0.54	0.62	0.74	54	61
●	●	●	●	37	-	0.32	0.37	0.45	0.64	0.74	0.90	55	63
●	●	●	●	43	-	0.38	0.43	0.52	0.76	0.86	1.04	54	65
●	●	●	●	62	-	0.54	0.62	0.74	1.08	1.24	1.48	59	54
●	●	●	●	120	0.76	1.10	1.20	1.50	2.20	2.40	3.00	51	47
●	●	●	●	190	1.1	1.60	1.90	2.20	3.20	3.80	4.40	67	61
●	●	●	●	220	1.3	1.90	2.20	2.60	3.80	4.40	5.20	52	48
●	●	●	●	310	1.9	2.70	3.10	3.70	5.40	6.20	7.40	68	61
●	●	●	●	400	2.5	3.50	4.00	4.80	7.00	8.00	9.60	51	46
●	●	●	●	620	3.8	5.40	6.20	7.60	10.8	12.4	15.2	69	62

CJWT Series - Wide Full Cone Nozzle

Nozzle Features

CJWT series spray nozzles feature a full cone spray pattern with a round impact area in wide spray angles, produce uniform distribution of small to medium sized droplets over a wide range of flow rates and pressures. CJWT series uniform spray distribution result from a unique vane design, large and easy flow passages and superior spray control design.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	FLOW RATES (LPM @ BarG)							APPROX. SPRAY ANGLE @ BarG	
1/8	1/4	3/8	1/2		0.5	0.7	1.0	2.0	3.0	5.0	6.0	0.7	6.0
●	●	●	●	17W	-	1.10	1.20	1.70	2.00	2.50	2.70	120	102
●	●	●	●	26W	-	1.60	1.90	2.60	3.10	3.90	4.20	120	102
●	●	●	●	34W	1.80	2.10	2.50	3.40	4.00	5.10	5.50	120	102
●	●	●	●	48W	2.60	3.00	3.60	4.80	5.80	7.20	7.80	120	103
●	●	●	●	60W	3.30	3.80	4.50	6.00	7.20	9.10	9.80	120	103
●	●	●	●	73W	3.90	4.60	5.30	7.30	8.70	10.9	11.8	120	103
●	●	●	●	85W	4.60	5.30	6.20	8.50	10.1	12.7	13.7	120	103

Applications

- Gas Scrubbing
- Gas Cooling
- Metal Pre-Treatment
- Carcass Chilling

Ordering Example

1/4-CJWT-316SS-60W

Available Materials

Brass, 303ss, 316ss

* Other materials available on request

VJT Series - Flat Fan Nozzle

Nozzle Features

VJT series flat fan nozzles produce a uniform distribution of small, medium and large size droplets. The spray pattern is elliptical and can form an even coverage when a number of nozzles are fitted side by side. VJT series flat fan nozzles are also available with strainer to protect nozzle from clogging.

Performance Data

Available in spray angles 0° (solid stream), 15°, 25°, 40°, 50°, 65°, 80°, 95°, 110° and 120°.

NOZZLE THREAD CONN.				NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)							
1/8	1/4	3/8	1/2		(mm)	0.5	1.0	2.0	3.0	5.0	7.0	10.0	25.0
●	●	●	●	3	0.66	0.16	0.23	0.32	0.39	0.51	0.60	0.72	1.13
●	●	●	●	5	0.79	0.24	0.34	0.48	0.59	0.76	0.90	1.07	1.70
●	●	●	●	6	0.91	0.32	0.45	0.64	0.78	1.01	1.20	1.43	2.26
●	●	●	●	8	1.02	0.41	0.57	0.81	0.99	1.28	1.52	1.81	2.86
●	●	●	●	10	1.09	0.49	0.69	0.97	1.19	1.53	1.81	2.17	3.43
●	●	●	●	13	1.32	0.65	0.92	1.30	1.59	2.06	2.43	2.91	4.60
●	●	●	●	16	1.45	0.81	1.15	1.62	1.98	2.56	3.03	3.62	5.73
●	●	●	●	19	1.57	0.97	1.37	1.94	2.38	3.07	3.63	4.34	6.86
●	●	●	●	26	1.83	1.29	1.82	2.58	3.16	4.08	4.83	5.77	9.12
●	●	●	●	32	2.03	1.61	2.28	3.22	3.94	5.09	6.02	7.20	11.38
●	●	●	●	48	2.38	2.42	3.42	4.83	5.92	7.64	9.04	10.80	17.08
●	●	●	●	65	2.78	3.23	4.56	6.45	7.90	10.20	12.07	14.42	22.80
●	●	●	●	97	3.57	4.84	6.84	9.67	11.84	15.29	18.09	21.62	34.19
●	●	●	●	129	3.97	6.46	9.14	12.93	15.84	20.44	24.19	28.91	45.71

WFT Series - Flat Fan Nozzle

Nozzle Features

WFT wide angle spray nozzles can produce secondary wide angle sector spraying shape and uniform spray droplets. The spray orifice and large flow passage reduces clogging problems. The WFT can also be applied in spraying of air or steam. The nozzles have precise deflection area, to maximize the spraying angle. All models have a mate thread connection.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	OUTLET BORE DIA.	FLOW RATES (LPM @ BarG)					
1/8	1/4	3/8	1/2		(mm)	0.5	1.0	1.5	2.0	3.0	4.0
●	●	●	●	2	0.4	0.10	0.10	0.17	0.17	0.24	0.28
●	●	●	●	3	0.6	0.19	0.19	0.32	0.31	0.45	0.52
●	●	●	●	5	0.7	0.26	0.26	0.45	0.47	0.64	0.74
●	●	●	●	7	0.8	0.33	0.46	0.56	0.65	0.80	0.92
●	●	●	●	10	1.0	0.50	0.70	0.86	0.99	1.21	1.40
●	●	●	●	13	1.2	0.67	0.95	1.16	1.34	1.64	1.90
●	●	●	●	17	1.3	0.83	1.17	1.44	1.66	2.03	2.35
●	●	●	●	19	1.4	0.97	1.37	1.68	1.94	2.38	2.74
●	●	●	●	27	1.7	1.33	1.88	2.30	2.66	3.26	3.76
●	●	●	●	33	1.9	1.63	2.31	2.82	3.26	3.99	4.61
●	●	●	●	49	2.3	2.44	3.44	4.22	4.87	5.96	6.89
●	●	●	●	64	2.6	3.22	4.55	5.58	6.44	7.89	9.11
●	●	●	●	78	2.9	3.88	5.48	6.71	7.75	9.49	10.96
●	●	●	●	98	3.3	4.89	6.91	8.46	9.77	11.97	13.82
●	●	●	●	117	3.6	5.84	8.26	10.12	11.68	14.31	16.52
●	●	●	●	130	3.8	6.48	9.16	11.22	12.96	15.87	18.33
●	●	●	●	143	4.0	7.14	10.09	12.36	14.27	17.48	20.18
●	●	●	●	156	4.1	7.80	11.02	13.50	15.59	19.09	22.05
●	●	●	●	174	4.3	8.72	12.33	15.10	17.44	21.36	24.66

OPN Series - Orifice Plate Nozzle

Nozzle Features

OPN series orifice plate discs provide an economical way to produce a solid stream jet for metering and trimming applications. OPN series disc is housed in a SJ body and cap assembly, optional strainer can be added to nozzle where clogging may occur for smaller orifice sizes.

Performance Data

NOZZLE THREAD CONN.				NOZZLE CODE	FLOW RATES (LPM @ BarG)					
1/8	1/4	3/8	1/2		0.2	1.0	1.5	2.0	3.0	4.0
●	●	●	●	03	0.013	0.018	0.023	0.026	0.032	0.037
●	●	●	●	05	0.021	0.029	0.036	0.046	0.051	0.059
●	●	●	●	06	0.031	0.043	0.053	0.061	0.075	0.087
●	●	●	●	08	0.040	0.057	0.070	0.081	0.099	0.11
●	●	●	●	09	0.045	0.064	0.078	0.090	0.11	0.13
●	●	●	●	11	0.053	0.075	0.092	0.11	0.13	0.15
●	●	●	●	14	0.069	0.098	0.12	0.14	0.17	0.20
●	●	●	●	17	0.086	0.12	0.15	0.17	0.21	0.24
●	●	●	●	20	0.098	0.14	0.17	0.20	0.24	0.28
●	●	●	●	24	0.12	0.17	0.21	0.24	0.29	0.34
●	●	●	●	25	0.13	0.18	0.22	0.25	0.31	0.36
●	●	●	●	28	0.14	0.20	0.24	0.28	0.34	0.39
●	●	●	●	29	0.15	0.21	0.26	0.29	0.36	0.42
●	●	●	●	32	0.16	0.23	0.28	0.32	0.39	0.45
●	●	●	●	35	0.18	0.25	0.30	0.35	0.43	0.50
●	●	●	●	37	0.18	0.26	0.32	0.37	0.45	0.52
●	●	●	●	40	0.20	0.28	0.35	0.40	0.49	0.57
●	●	●	●	43	0.22	0.31	0.38	0.43	0.53	0.61
●	●	●	●	47	0.24	0.34	0.41	0.47	0.58	0.67
●	●	●	●	51	0.25	0.36	0.44	0.51	0.62	0.72
●	●	●	●	56	0.28	0.39	0.48	0.56	0.68	0.79
●	●	●	●	61	0.31	0.43	0.53	0.61	0.75	0.87
●	●	●	●	66	0.33	0.47	0.57	0.66	0.81	0.94
●	●	●	●	68	0.34	0.48	0.59	0.68	0.83	0.96
●	●	●	●	74	0.37	0.53	0.64	0.74	0.91	1.05
●	●	●	●	81	0.40	0.57	0.70	0.81	0.99	1.14
●	●	●	●	87	0.44	0.62	0.76	0.87	1.07	1.24
●	●	●	●	89	0.45	0.63	0.77	0.89	1.09	1.26
●	●	●	●	92	0.46	0.65	0.80	0.92	1.13	1.31
●	●	●	●	95	0.47	0.67	0.82	0.95	1.16	1.34
●	●	●	●	106	0.53	0.75	0.92	1.06	1.30	1.50
●	●	●	●	108	0.54	0.76	0.93	1.08	1.32	1.52
●	●	●	●	116	0.58	0.82	1.00	1.16	1.42	1.64
●	●	●	●	122	0.61	0.86	1.05	1.22	1.49	1.72
●	●	●	●	129	0.65	0.91	1.12	1.29	1.58	1.82
●	●	●	●	140	0.70	0.99	1.21	1.40	1.71	1.98
●	●	●	●	150	0.75	1.06	1.30	1.50	1.84	2.13
●	●	●	●	158	0.79	1.12	1.37	1.58	1.94	2.24
●	●	●	●	168	0.84	1.19	1.46	1.68	2.06	2.38
●	●	●	●	179	0.89	1.26	1.55	1.79	2.19	2.53
●	●	●	●	185	0.92	1.31	1.60	1.85	2.26	2.61
●	●	●	●	198	0.99	1.40	1.71	1.98	2.42	2.79

Applications

■ Lubrication ■ Conveyor Lubrication

■ Metering ■ Jetting

Ordering Example

1/8-OPN-SS-24

Available Materials

303ss, 316ss

* Other materials available on request