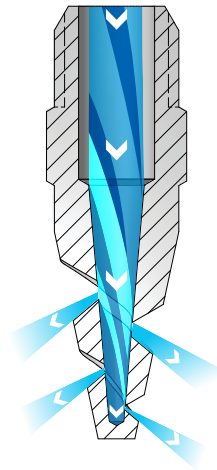


OVERVIEW: SPIRALJET

- Hollow cone spray pattern with a circular impact area
- Minimal clogging – maximum flow through passages of any nozzle of comparable size
- Spray angles: Standard – 50° to 180°
- Uniform spray distribution from .49 to 3320 gpm (2.0 to 11967 lpm)
- Operating pressures up to 400 psi (25 bar)
- Precision impact blade angles distribute drops and provide excellent coverage – ideal for washing, rinsing and cooling
- Compact size
- BSFJ flange-type nozzles available with reaction-bonded silicon carbide tips on FRP flanges available upon request



SpiralJet BSJ Nozzles

The liquid entering the nozzle passes through the orifice and exits the voids in the spiral. As it exits, the fluid deflects off the spiral surfaces to form the hollow cone pattern.

SPIRALJET OPTIONS



BSJ – 1/4" to 2" male conn.
Threaded/Hex. body style/brass



BSJ – 1/4" to 4" male conn.
Threaded/Round or flat body style/stainless steel

Custom sizes and other abrasion-resistant materials available. See Quick Reference Guide.

ORDERING INFORMATION

SPIRALJET

Inlet Conn.	Nozzle Type	–	Material Code	Spray Angle	Capacity Size	Example
						1/4 BSJ – SS 120 07

BSPT connections require the addition of a "B" prior to the inlet connection.

QUICK REFERENCE GUIDE

Model	Connection/Type	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
BSJ	M, Hex.	1/4 to 2	Brass, 316 stainless steel (316SS)	D19	D19
	M, Flats	1/4 to 4	316 stainless steel (316SS)		
	M, Flats, Cast	1/4 to 4	316 stainless steel (SS)		
	M, Round	1/4 to 4	PTFE (TEF), Polyvinyl chloride (PVC)		

M = male thread. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request. For more dimensions and sizes, contact your sales engineer.

**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.





PERFORMANCE DATA:
STANDARD ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type	Spray Angle at 10 psi					Capacity Size	Orifice Dia. Nom. (in.)	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)					
		BSJ	50°	60°	90°	120°				180°	5 psi	10 psi	20 psi	40 psi	100 psi
1/4	●	●	●	●	●	●	07	.094	.094	.49	.70	.99	1.4	2.2	4.4
	●	●	●	●	●	●	13	.125	.125	.92	1.3	1.8	2.6	4.1	8.2
	●	●	●	●	●	●	20	.156	.125	1.4	2.0	2.8	4.0	6.3	12.6
3/8	●	●	●	●	●	●	30	.188	.125	2.1	3.0	4.2	6.0	9.5	19.0
	●	●	●	●	●	●	40	.219	.125	2.8	4.0	5.7	8.0	12.6	25
	●	●	●	●	●	●	53	.250	.125	3.7	5.3	7.5	10.6	16.8	34
	●	●	●	●	●	●	82	.313	.125	5.8	8.2	11.6	16.4	26	52
1/2	●	●	●	●	●	●	120	.375	.188	8.5	12.0	17.0	24	38	76
	●	●	●	●	●	●	164	.438	.188	11.6	16.4	23	33	52	104
3/4	●	●	●	●	●	●	210	.500	.188	14.8	21	30	42	66	133
1	●	●	●	●	●	●	340	.625	.250	24	34	48	68	108	215
	●	●	●	●	●	●	470	.750	.250	33	47	66	94	149	297
1-1/2	●	●	●	●	●	●	640	.875	.313	45	64	91	128	202	405
	●	●	●	●	●	●	820	1.000	.313	58	82	116	164	259	519
	●	●	●	●	●	●	960	1.125	.313	68	96	136	192	304	607
2	●	●	●	●	●	●	1400	1.375	.438	99	140	198	280	443	885
	●	●	●	●	●	●	1780	1.500	.438	126	178	252	356	563	1126
3	●	●	●	●	●	●	2560	1.750	.563	181	256	362	512	810	1619
	●	●	●	●	●	●	3360	2.000	.563	238	336	475	672	1063	2125
4	●	●	●	●	●	●	5250	2.500	.625	371	525	742	1050	1660	3320

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.
 For all 1/4" and 3/8" connections, optimum spray angle is achieved at 40 psi (2.8 bar).
 *Maximum operating pressure depends on material, size and application. Contact your local sales engineer for specific recommendations.
Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. / flats (in.)	Net Weight (oz.)
	BSJ (M)	1/4	1.875	9/16	1
		3/8	1.875	11/16	1.8
		1/2	2.500	7/8	3
		3/4	2.750	1-1/16	5
		1	3.625	1-3/8	11
		1-1/2	4.375	2	27
		2	6.875	2-1/2	48
		3	8.000	3-3/4	8 lbs.
		4	9.000	4-1/2	12.5 lbs.

Based on the largest/heaviest version of each type.

