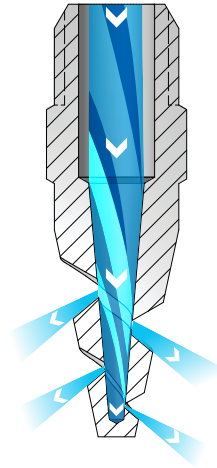


OVERVIEW: SPIRALJET

- 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.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type	Spray Angle at 0.7 bar					Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)					
		BSJ	50°	60°	90°	120°				180°	0.4 bar	0.7 bar	1.5 bar	3 bar	7 bar
1/4	●	●	●	●	●	●	07	2.4	2.4	2.0	2.7	3.9	5.5	8.4	16.0
	●	●	●	●	●	●	13	3.2	3.2	3.7	5.0	7.3	10.3	15.7	30
	●	●	●	●	●	●	20	4.0	3.2	5.8	7.6	11.2	15.8	24	46
3/8	●	●	●	●	●	●	30	4.8	3.2	8.6	11.4	16.8	24	36	68
	●	●	●	●	●	●	40	5.6	3.2	11.5	15.3	22	32	48	91
	●	●	●	●	●	●	53	6.4	3.2	15.3	20	30	42	64	121
	●	●	●	●	●	●	82	7.9	3.2	24	31	46	65	99	187
1/2	●	●	●	●	●	●	120	9.5	4.8	35	46	67	95	145	274
	●	●	●	●	●	●	164	11.1	4.8	47	63	92	129	198	374
3/4	●	●	●	●	●	●	210	12.7	4.8	61	80	117	166	253	479
1	●	●	●	●	●	●	340	15.9	6.4	98	130	190	268	410	775
	●	●	●	●	●	●	470	19.1	6.4	136	179	262	371	567	1071
1-1/2	●	●	●	●	●	●	640	22.2	7.9	185	244	357	505	772	1459
	●	●	●	●	●	●	820	25.4	7.9	236	313	458	647	989	1869
	●	●	●	●	●	●	960	28.6	7.9	277	366	536	758	1158	2188
2	●	●	●	●	●	●	1400	34.9	11.1	404	534	782	1105	1689	3191
	●	●	●	●	●	●	1780	38.1	11.1	513	679	994	1406	2147	4057
3	●	●	●	●	●	●	2560	44.5	14.3	738	976	1429	2021	3088	5835
	●	●	●	●	●	●	3360	50.8	14.3	969	1282	1876	2653	4053	7659
4	●	●	●	●	●	●	5250	63.5	15.9	1514	2002	2931	4145	6332	11967

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 (mm)	Hex. / flats (in.)	Net Weight (kg)
	BSJ (M)	1/4	49.2	9/16	0.03
		3/8	47.6	11/16	0.05
		1/2	63.5	7/8	0.09
		3/4	69.9	1-1/16	0.14
		1	92.1	1-3/8	0.31
		1-1/2	111.1	2	0.77
		2	174.6	2-1/2	1.36
		3	203.2	3-3/4	3.63
		4	228.6	4-1/2	5.67

Based on the largest/heaviest version of each type.

