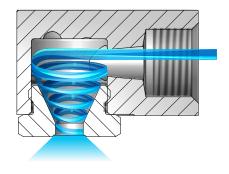
OVERVIEW: WHIRLJET STANDARD, WIDE AND EXTRA WIDE ANGLE NOZZLES

- · Hollow cone spray pattern with a circular impact area
- · Large, unobstructed flow passages minimize clogging
- Good atomization of liquids at lower pressures ideal for fluid cooling applications
- Removable caps for easy inspection and cleaning on some models
- Slope-bottom design models reduce the drilling effect of the fluid vortex in the fluid chamber and premature wear
- AX and BX nozzles form smaller drops; ideal for use in air washers and dust suppression applications
- CX, CF, CRC and D nozzles feature higher flow rates; ideal for use in larger, evaporative cooling spray ponds
- AP, LAP and LBP nozzles are constructed of polypropylene and feature excellent corrosion resistance at temperatures up to 160°F (71°C); patented center post design provides extended wear life of the nozzle
- Standard, wide and extra wide spray angles

WhirlJet Nozzles

As liquid enters the nozzle, it passes into a whirlchamber and begins to spin in a circle at high speed. The rotation forces the liquid away from the center toward the edges of the whirlchamber. This causes the liquid to exit the orifice in a hollow cone pattern. Some WhirlJet nozzles have a slope bottom in the whirlchamber that helps extend wear life.



WHIRLJET AX, BX, CX AND D NOZZLES

- Spray angles: Standard 43° to 91°, Wide 112° to 120°
- Uniform spray distribution:
- AX and BX nozzles from .03 to 38 gpm (.19 to 145 lpm)
- CX, CRC, CF and D nozzles from 2.0 to 2362 gpm (7.3 to 9010 lpm)
- Operating pressures from 3.0 to 100 psi (0.2 to 7.0 bar)

Contact your local sales engineer for information about junction boxes.



AX 1/8" to 3/4" female conn. Slope-bottom design Removable cap



CX 1" to 2-1/2" female conn. Slope-bottom design One-piece cast-type

WHIRLJET OPTIONS



BX – 1/8" to 3/4" male conn. Slope-bottom design Removable cap



CRC 1-1/4" to 4" female conn. Two-piece cast-type



4" to 6" flange conn. Two-piece cast-type



1/2" to 3/4" male conn. One-piece cast-type

RELATIVE DROP SIZE



▲ 100 to 500





Drop size will vary based on flow rate and pressure.



WHIRLJET AP, LAP, LBP AND E NOZZLES

- Spray angles: Standard 43° to 91°, Wide - 112° to 120°, Extra wide - 144° to 165°
- Uniform spray distribution:
- AP, LAP and LBP nozzles from .14 to 18.9 gpm (.20 to 15.9 lpm)
- E nozzles from .11 to 16.8 gpm (.41 to 64 lpm)
- Operating pressures from 3.0 to 100 psi (0.2 to 7.0 bar)



WHIRLJET OPTIONS



ORDERING INFORMATION

WHIRLJET AX



WHIRLJET AP-W (9360)



WHIRLJET CF FLANGE CONNECTION



WHIRLJET E

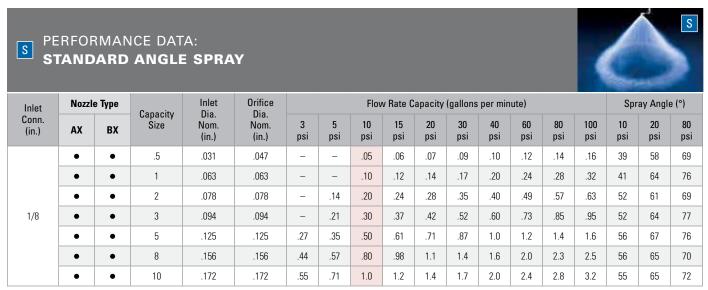


BSPT connections require the addition of a "B" prior to the inlet connection.

QUICK REFERENCE GUIDE

	Connection/	Connection		Page Number			
Model	Туре	Size (in.)	Materials	Performance Data	Dimensions and Weights		
AX	AX F 1/8 to 3/4			D6-D7			
ВХ	M	1/8 to 3/4	Brass, Mild steel (I), 303 stainless steel (SS),	D6-D7			
AX-W	F	1/8 to 1/2	316 stainless steel (316SS)	D8	D15		
BX-W	M	1/8 to 1/2		D8			
СХ	F, Cast	1 to 2-1/2		D9			
CF	Flange, Cast	4 to 6	Brass, 316 stainless steel (SS)	D10			
CRC	F, Cast	1-1/4 to 4		D10	D40		
D	M, Cast	1/2 to 3/4	Brass	D11	D16		
AP (9360)	F	1/4 to 3/8		D11-D12			
LAP (9360)	F	3/8 to 1/2		D11-D12	D47		
LBP (9360)	М	3/8		D11-D12	D17		
AP-W (9360)	F	1/4 to 3/8	Polypropylene (PP)	D13	D16		
LAP-W (9360)	F	3/8 to 1/2		D14			
LBP-W (9360)	M	3/8		D14			
E	F	1/4 to 1/2	303 stainless steel (SS)	D14-D15	D17		
E	F, Cast	3/8 to 1/2	Brass, 316 stainless steel (SS)	D14-D15			

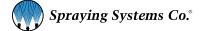
F = female thread; M = male thread. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request. For more dimensions and sizes, contact your sales engineer.



Intermediate capacities: Caps are interchangeable for in-between capacities within each pipe size group. Request Data Sheets 3055, 3986 and 3987.

Spray dimension data: Request Data Sheets 15350 and 15362.

Highlighted column shows the rated pressure.



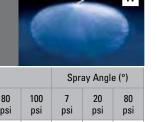
W WIDE ANGLE SPRAY

PERFORMANCE DATA: WIDE ANGLE SPRAY Nozzle Type/ Inlet Conn. (in.) LAP-W LBP-W Capacity Dia. Nom (in.)

Nozzle Type/ Inlet Conn. (in.)				Inlet	Orifice Dia.			Flo	w Rate 0	Capacity	(gallons	per minu	ute)			Spr	ay Angle	e (°)		
	P-W	LBP-W	Size	Capacity Size		Dia. Nom. (in.)	Nom. (in.)	3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
3/8	1/2	3/8				μοι	pai	pai	ры	ры	μοι	ры		μοι	ры	ры	•	рз		
•			20-8W	.250	.172	_	-	.90	1.1	1.5	1.9	2.2	2.6	3.1	3.4	99	96	86		
•			20-10W	.250	.188	_	.94	1.2	1.4	2.0	2.4	2.8	3.4	3.9	4.4	101	98	88		
•			20-15W	.250	.219	.99	1.3	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	104	100	91		
•			20-20W	.250	.250	1.1	1.4	1.7	2.0	2.8	3.5	4.0	4.9	5.6	6.3	106	101	93		
•			20-25W	.250	.281	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	109	104	9!		
•			20-40W	.250	.344	1.6	2.0	2.4	2.9	4.0	5.0	5.7	7.0	8.1	9.0	110	107	98		
•			20-50W	.250	.406	1.9	2.5	2.9	3.5	4.9	6.1	7.0	8.5	9.9	11.0	111	108	10		
•			25-8W	.281	.172	_	-	_	1.2	1.7	2.1	2.4	2.9	3.4	3.8	_	89	7		
•			25-10W	.281	.188	_	-	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	100	92	8		
•			25-15W	.281	.219	_	1.3	1.6	1.9	2.7	3.3	3.8	4.6	5.3	6.0	102	96	8		
•			25-20W	.281	.250	1.2	1.5	1.8	2.2	3.1	3.7	4.3	5.3	6.1	6.8	104	99	8		
•			25-25W	.281	.281	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	107	102	9		
•			25-40W	.281	.344	1.7	2.2	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	109	105	9		
•			25-50W	.281	.406	2.1	2.8	3.3	3.9	5.5	6.8	7.8	9.6	11.0	12.3	110	108	9		
•	•	•	40-10W	.359	.188	_	-	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	95	85	8		
•	•	•	40-15W	.359	.219	1.3	1.7	2.0	2.4	3.4	4.2	4.9	5.9	6.9	7.7	97	88	8		
•	•	•	40-20W	.359	.250	1.5	1.9	2.2	2.7	3.8	4.6	5.3	6.5	7.5	8.4	100	94	8		
•	•	•	40-25W	.359	.281	1.8	2.3	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	103	97	ć		
•	•	•	40-40W	.359	.344	2.2	2.8	3.3	4.0	5.7	6.9	8.0	9.8	11.3	12.6	106	99	9		
•	•	•	40-50W	.359	.406	2.8	3.6	4.2	5.0	7.1	8.7	10.0	12.3	14.1	15.9	109	101	ç		

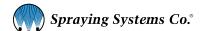
Highlighted column shows the rated pressure.

W PERFORMANCE DATA: EXTRA WIDE ANGLE SPRAY



Inlet	Nozzle Type	Cit.	Inlet	Orifice Dia.	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			e (°)
Conn. (in.)	E Styles	Capacity Size	Dia. Nom. (in.)	Nom. (in.)	3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
1/4	•	2	.063	.250	-	_	_	.20	.24	.28	.35	.40	.49	.57	.63	_	165	158
	•	5	.094	.250	.27	.35	.42	.50	.61	.71	.87	1.0	1.2	1.4	1.6	164	154	147
	•	5.8	.109	.250	.32	.41	.49	.58	.71	.82	1.0	1.2	1.4	1.6	1.8	164	154	147
	•	8	.125	.313	.44	.57	.67	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	164	160	151
	•	10	.141	.313	.55	.71	.84	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	164	154	147

Highlighted column shows the rated pressure.





Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
L _E	LAP (F)	3/8	1.906	1.281	1.182	1.596	0.192	0.6
A B C	LAP-W (F)	1/2	2.031	1.406	1.182	1.596	0.192	0.8
A A	LBP (M)							0.0
B C	LBP-W (M)	3/8	2.094	1.563	1.236	1.596	0.192	0.6
	E (F)	1/4	1.250	0.875	0.500	0.750	-	2.3
A B C		3/8	2.000	1.375	0.625	1.250	-	10.7
		1/2	2.375	1.625	0.766	1.625	-	17.3
E	E (F)	3/8	1.406	1.219	0.594	1.063	0.375	4.3
A B C	E (F) Cast	1/2	2.188	1.438	0.688	1.250	0.500	6

Based on the largest/heaviest version of each type.

