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 AX, BX, CX AND D NOZZLES

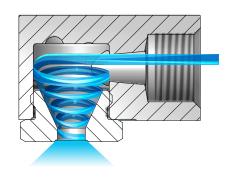
- Spray angles: Standard 43° to 91°, Wide 112° to 120°
- Uniform spray distribution:
- AX and BX nozzles from .03 to 38 gpm (.19 to 145 lpm)
- CX, CRC, CF and D nozzles from 2.0 to 2362 gpm (7.3 to 9010 lpm)
- Operating pressures from 3.0 to 100 psi (0.2 to 7.0 bar)

Contact your local sales engineer for information about junction boxes.

WHIRLJET OPTIONS

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.





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



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WHIRLJET[®] NOZZLES

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

HOLLOW

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)



AP 1/4" to 3/8" female conn.



E One-piece bar stock 1/4" to 3/8" female conn.

WHIRLJET OPTIONS



ORDERING INFORMATION

WHIRLJET AX





WHIRLJET CF FLANGE CONNECTION





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

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



PP

3-5W

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

QUICK REFERENCE GUIDE

	Connection/	Connection		Page Number			
Model	Type (in.) Materials		Materials	Performance Data	Dimensions and Weights		
AX	F	1/8 to 3/4		D6–D7			
BX	М	1/8 to 3/4	Brass, Mild steel (I), 303 stainless steel (SS),	D6–D7			
AX-W	AX-W F		316 stainless steel (316SS)	D8	D15		
BX-W	М	1/8 to 1/2		D8			
CX	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	D 10		
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)	М	3/8		D14	D17		
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.

PERFORMANCE DATA: S STANDARD ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type		Canaaita	Inlet Dia.	Orifice Dia.	Flow Rate Capacity (gallons per minute)											Spray Angle (°)		
	AX	вх	Capacity Size	Nom. (in.)	Nom. (in.)	3 5 psi psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	80 psi		
	•	•	.5	.031	.047	_	-	.05	.06	.07	.09	.10	.12	.14	.16	39	58	69	
	•	•	1	.063	.063	-	-	.10	.12	.14	.17	.20	.24	.28	.32	41	64	76	
	•	•	2	.078	.078	-	.14	.20	.24	.28	.35	.40	.49	.57	.63	52	61	69	
1/8	•	•	3	.094	.094	-	.21	.30	.37	.42	.52	.60	.73	.85	.95	52	64	77	
	•	•	5	.125	.125	.27	.35	.50	.61	.71	.87	1.0	1.2	1.4	1.6	56	67	76	
	•	•	8	.156	.156	.44	.57	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	56	65	70	
	•	•	10	.172	.172	.55	.71	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	55	65	72	

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.



PERFORMANCE DATA: W WIDE ANGLE SPRAY

Nozzle Type/ Inlet Conn. (in.)		Capacity	Inlet Dia.	Orifice Dia.			Flo	ow Rate (Capacity	(gallons	per minu	te)			Spi	ray Angle	e (°)
AF	P-W	Size	Nom.	Nom.	3	5	7	10	20	30	40	60	80	100	7	20	80
1/4	3/8		(in.)	(in.)	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
•	•	2-5W	.078	.125	_	.20	.23	.28	.40	.48	.56	.69	.79	.89	126	135	131
•	•	2-8W	.078	.156	_	.22	.26	.31	.44	.54	.62	.76	.88	.98	121	133	130
•	•	2-10W	.078	.172	-	.24	.28	.34	.48	.59	.68	.83	.96	1.1	121	135	127
•	•	2-15W	.078	.219	-	.27	.32	.38	.54	.66	.76	.93	1.1	1.2	120	133	132
•	•	2-20W	.078	.234	-	.30	.35	.42	.60	.73	.84	1.0	1.2	1.3	111	132	135
•	•	3-5W	.094	.125	_	.25	.30	.36	.51	.62	.72	.88	1.0	1.1	133	131	109
•	•	3-8W	.094	.156	_	.30	.35	.42	.60	.73	.84	1.0	1.2	1.3	133	131	110
•	•	3-10W	.094	.172	-	.37	.44	.52	.74	.90	1.0	1.3	1.5	1.6	128	130	115
•	•	3-15W	.094	.219	-	.40	.47	.56	.79	.97	1.1	1.4	1.6	1.8	128	130	118
•	•	3-20W	.094	.234	-	.42	.49	.59	.83	1.0	1.2	1.5	1.7	1.9	119	134	136
•	•	5-5W	.141	.125	_	.35	.42	.50	.70	.86	1.0	1.2	1.4	1.6	125	112	98
•	•	5-8W	.141	.156	_	.42	.50	.60	.85	1.0	1.2	1.5	1.7	1.9	125	112	97
•	•	5-10W	.141	.172	_	.48	.56	.67	1.0	1.2	1.4	1.7	1.9	2.1	125	118	102
•	•	5-15W	.141	.219	-	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.6	130	125	105
•	•	5-20W	.141	.234	_	.61	.72	.86	1.2	1.5	1.7	2.1	2.4	2.7	125	125	112
•	•	8-5W	.172	.125	-	.42	.50	.60	.85	1.0	1.2	1.5	1.7	1.9	119	102	99
•	•	8-8W	.172	.156	.44	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.5	112	100	87
•	•	8-10W	.172	.172	.50	.64	.76	.91	1.3	1.6	1.8	2.2	2.6	2.9	115	102	90
•	•	8-15W	.172	.219	.59	.76	.90	1.1	1.5	1.9	2.2	2.6	3.1	3.4	121	110	98
•	•	8-20W	.172	.234	.65	.83	.99	1.2	1.7	2.0	2.4	2.9	3.3	3.7	121	113	106
•	•	10-5W	.188	.125	_	-	.54	.65	.92	1.1	1.3	1.6	1.8	2.0	115	98	85
•	•	10-8W	.188	.156	-	.61	.72	.86	1.2	1.5	1.7	2.1	2.4	2.7	110	95	84
•	•	10-10W	.188	.172	.55	.72	.84	1.0	1.4	1.7	2.0	2.4	2.8	3.1	111	97	89
•	•	10-15W	.188	.219	.67	.86	1.0	1.2	1.7	2.1	2.4	3.0	3.5	3.9	113	104	97
•	•	10-20W	.188	.234	.75	1.0	1.2	1.4	2.0	2.4	2.8	3.5	3.9	4.4	118	107	102
•	•	15-5W	.234	.125	-	-	-	.76	1.1	1.3	1.5	1.9	2.2	2.4	-	91	80
•	•	15-8W	.234	.156	-	-	.85	1.0	1.4	1.8	2.0	2.5	2.9	3.2	102	93	80
•	•	15-10W	.234	.172	-	.85	1.0	1.2	1.7	2.1	2.4	2.9	3.4	3.8	107	97	83
•	•	15-15W	.234	.219	.82	1.1	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	110	98	90
•	•	15-20W	.234	.234	.93	1.2	1.4	1.7	2.4	2.9	3.4	4.2	4.8	5.4	112	105	100

Highlighted column shows the rated pressure.



S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
	CF	4	8.250	4.406	9.250	12.375	1.563	114
	Cr (Flange)	6	12.250	6.875	8.688	13.313	2.438	126
		1-1/4	3.406	2.125	2.094	3.063	0.406	36
		2	4.844	3.188	3.063	4.656	0.719	80
В	CRC (F)	3	6.938	4.438	5.938	8.406	1.125	19
		4	9.000	5.563	9.125	12.250	1.563	40
		1/2	2.313	1.750	0.719	1.313	0.250	5
	D (M)	3/4	2.719	2.000	0.938	1.656	0.313	7.5
	AP (F) AP-W (F)	1/4	1.438	1.000	0.866	1.157	0.156	0.4
		3/8	1.469	1.094	0.866	1.157	0.156	0.4

Based on the largest/heaviest version of each type.