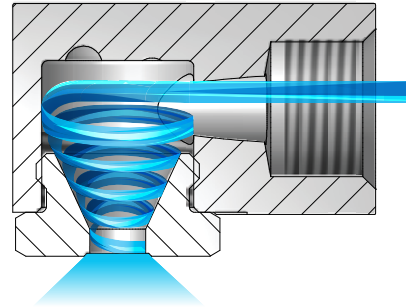


**OVERVIEW: WHIRLJET STANDARD, WIDE AND EXTRA WIDE ANGLE NOZZLES**

- 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.

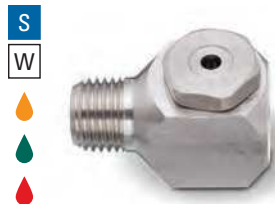


**AX**  
1/8" to 3/4" female conn.  
Slope-bottom design  
Removable cap



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

**WHIRLJET OPTIONS**



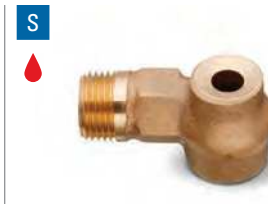
**BX** – 1/8" to 3/4" male conn.  
Slope-bottom design  
Removable cap



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



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



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

**RELATIVE DROP SIZE  
IN MICRONS**

10 to 100

100 to 500

500 to 1000

1000 to 5000

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)



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



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

**WHIRLJET OPTIONS**

**LAP**  
3/8" to 1/2" female conn.

**LBP**  
3/8" male conn.

**E**  
One-piece cast-type  
3/8" to 1/2" female conn.

**ORDERING INFORMATION**

**WHIRLJET AX**

Inlet Conn.	Nozzle Type	–	Material Code	Capacity Size	<b>Example</b>
					1/4 AX – SS 10

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

**WHIRLJET AP-W (9360)**

Nozzle Series No.	Inlet Conn.	Nozzle Type	–	Material Code	Capacity Size	<b>Example</b>
						9360 – 3/8 AP – PP 3-5W

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

**WHIRLJET CF FLANGE CONNECTION**

Inlet Conn.	Nozzle Type	–	Material Code	Capacity Size	<b>Example</b>
					6 CF – SS 550-65

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

**WHIRLJET E**

Inlet Conn.	Nozzle Type	–	Material Code	Capacity Size	<b>Example</b>
					1/4 E – SS 10

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

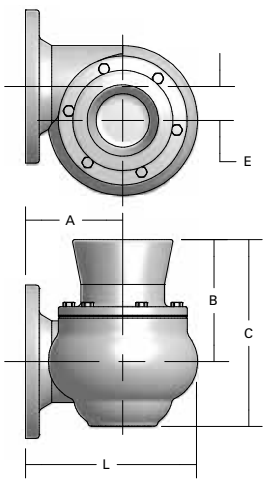
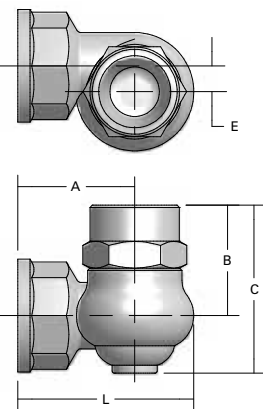
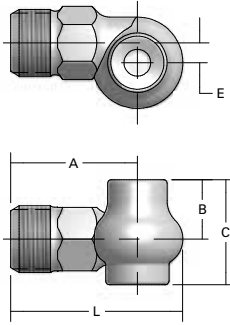
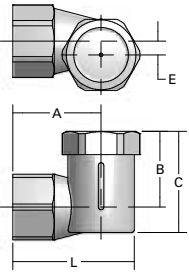
**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Inlet Conn. (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
	CF	CRC				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	60 psi
1-1/4		●	10-45	.844	.516	6.5	8.5	10.0	12.0	16.9	21	24	29	34	38	45	49	52
		●	12-45	.844	.563	7.9	10.1	12.0	14.3	20	25	29	35	41	45	45	49	51
		●	14-45	.844	.656	9.2	11.8	14.0	16.7	24	29	33	41	47	53	45	48	51
		●	16-45	.844	.750	10.5	13.5	16.0	19.1	27	33	38	47	54	60	45	48	50
		●	20-45	.844	.875	13.1	16.9	20	24	34	41	48	59	68	76	45	47	49
2		●	30-45	1.438	.938	19.6	25	30	36	51	62	72	88	101	113	45	49	52
		●	35-45	1.438	1.063	23	30	35	42	59	72	84	102	118	132	45	49	51
		●	40-45	1.438	1.188	26	34	40	48	68	83	96	117	135	151	45	48	50
		●	45-45	1.438	1.266	29	38	45	54	76	93	108	132	152	170	45	48	50
		●	50-45	1.438	1.375	33	42	50	60	85	104	120	146	169	189	45	47	49
		●	55-45	1.438	1.453	36	46	55	66	93	114	131	161	186	208	45	47	49
3		●	70	2.250	1.375	46	59	70	84	118	145	167	205	237	265	65	66	69
		●	85	2.250	1.578	56	72	85	102	144	176	203	249	287	321	67	68	71
		●	100	2.250	1.750	65	85	100	120	169	207	239	293	338	378	69	72	74
		●	120	2.250	2.063	79	101	120	143	203	248	287	351	406	454	71	73	77
		●	140	2.250	2.313	92	118	140	167	237	290	335	410	473	529	73	75	80
		●	70-45	2.250	1.375	46	59	70	84	118	145	167	205	237	265	45	49	52
		●	85-45	2.250	1.578	56	72	85	102	144	176	203	249	287	321	45	49	51
		●	100-45	2.250	1.750	65	85	100	120	169	207	239	293	338	378	45	48	51
		●	120-45	2.250	2.016	79	101	120	143	203	248	287	351	406	454	45	48	50
		●	140-45	2.250	2.313	92	118	140	167	237	290	335	410	473	529	45	47	49
4	●	●	150	3.125	2.000	98	127	150	179	254	311	359	439	507	567	66	67	70
	●	●	175	3.125	2.328	115	148	175	209	296	362	418	512	592	661	68	70	71
	●	●	200	3.125	2.688	131	169	200	239	338	414	478	586	676	756	70	72	74
	●	●	225	3.125	2.938	147	190	225	269	380	466	538	659	761	850	72	74	77
	●	●	250	3.125	3.250	164	211	250	299	423	518	598	732	845	945	74	76	81
	●	●	275	3.125	3.625	180	232	275	329	465	569	657	805	930	1039	78	80	83
	●	●	150-45	3.125	2.000	98	127	150	179	254	311	359	439	507	567	45	49	52
	●	●	175-45	3.125	2.328	115	148	175	209	296	362	418	512	592	661	45	49	51
	●	●	200-45	3.125	2.688	131	169	200	239	338	414	478	586	676	756	45	48	51
	●	●	225-45	3.125	2.938	147	190	225	269	380	466	538	659	761	850	45	48	50
	●	●	250-45	3.125	3.250	164	211	250	299	423	518	598	732	845	945	45	47	49
6	●		250	4.875	2.453	164	211	250	299	423	518	598	732	845	945	65	67	69
	●		300	4.875	2.750	196	254	300	359	507	621	717	878	1014	1134	66	68	70
	●		350	4.875	3.000	229	296	350	418	592	725	837	1025	1183	1323	68	70	72
	●		400	4.875	3.250	262	338	400	478	676	828	956	1171	1352	1512	70	73	75
	●		450	4.875	3.469	295	380	450	538	761	932	1076	1317	1521	1701	72	75	77
	●		500	4.875	3.828	327	423	500	598	845	1035	1195	1464	1690	1890	74	76	79
	●		550	4.875	4.266	360	465	550	657	930	1139	1315	1610	1859	2079	76	79	83
	●		625	4.875	5.125	409	528	625	747	1056	1294	1494	1830	2113	2362	78	81	86
	●		440-65	4.875	3.469	288	372	440	526	744	911	1052	1288	1487	1663	60	61	62
	●		550-65	4.875	4.266	360	465	550	657	930	1139	1315	1610	1859	2079	64	65	66
	●		625-65	4.875	5.125	409	528	625	747	1056	1294	1494	1830	2113	2362	65	66	67

Highlighted column shows the rated pressure.



**DIMENSIONS AND WEIGHTS**

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
	<b>CF (Flange)</b>	4	8.250	4.406	9.250	12.375	1.563	114
		6	12.250	6.875	8.688	13.313	2.438	126
	<b>CRC (F)</b>	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
		3	6.938	4.438	5.938	8.406	1.125	19
		4	9.000	5.563	9.125	12.250	1.563	40
	<b>D (M)</b>	1/2	2.313	1.750	0.719	1.313	0.250	5
		3/4	2.719	2.000	0.938	1.656	0.313	7.5
	<b>AP (F) AP-W (F)</b>	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.