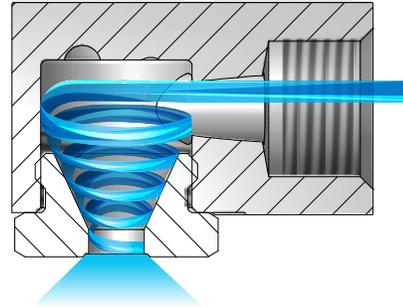


OVERVIEW: WHIRLJET STANDARD, WIDE AND EXTRA WIDE ANGLE NOZZLES

- 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	Example
					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	Example
						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	Example
					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	Example
					1/4 E – SS 10

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

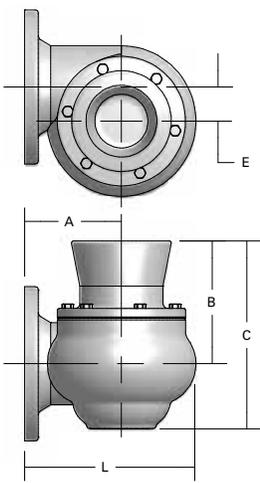
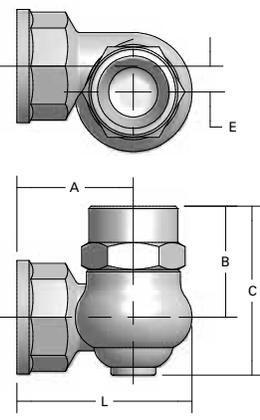
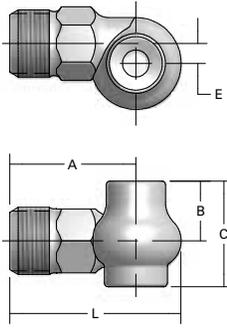
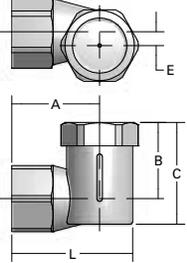
S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
	CF	CRC				0.2 bar	0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar
1-1/4		●	10-45	21.4	13.1	24	34	39	46	67	77	94	109	133	144	45	49	52
		●	12-45	21.4	14.3	29	41	46	55	80	92	113	131	160	173	45	49	51
		●	14-45	21.4	16.7	34	48	54	64	93	108	132	153	187	202	45	48	51
		●	16-45	21.4	19.1	39	55	62	73	107	123	151	174	214	231	45	48	50
		●	20-45	21.4	22.2	49	69	77	91	133	154	189	218	267	288	45	47	49
2		●	30-45	36.5	23.8	73	103	116	137	200	231	283	327	400	432	45	49	52
		●	35-45	36.5	27.0	85	121	135	160	234	270	330	381	467	505	45	49	51
		●	40-45	36.5	30.2	97	138	154	182	267	308	378	436	534	577	45	48	50
		●	45-45	36.5	32.1	110	155	173	205	300	347	425	490	601	649	45	48	50
		●	50-45	36.5	34.9	122	172	193	228	334	385	472	545	667	721	45	47	49
		●	55-45	36.5	36.9	134	190	212	251	367	424	519	599	734	793	45	47	49
3		●	70	57.2	34.9	171	241	270	319	467	539	661	763	934	1009	65	66	69
		●	85	57.2	40.1	207	293	327	388	567	655	802	926	1134	1225	67	68	71
		●	100	57.2	44.5	244	345	385	456	667	771	944	1090	1335	1442	69	72	74
		●	120	57.2	52.4	292	414	462	547	801	925	1133	1308	1602	1730	71	73	77
		●	140	57.2	58.7	341	482	539	638	934	1079	1321	1526	1869	2018	73	75	80
		●	70-45	57.2	34.9	171	241	270	319	467	539	661	763	934	1009	45	49	52
		●	85-45	57.2	40.1	207	293	327	388	567	655	802	926	1134	1225	45	49	51
		●	100-45	57.2	44.5	244	345	385	456	667	771	944	1090	1335	1442	45	48	51
		●	120-45	57.2	51.2	292	414	462	547	801	925	1133	1308	1602	1730	45	48	50
		●	140-45	57.2	58.7	341	482	539	638	934	1079	1321	1526	1869	2018	45	47	49
4	●	●	150	79.4	50.8	366	517	578	684	1001	1156	1416	1635	2002	2162	66	67	70
	●	●	175	79.4	59.1	426	603	674	798	1168	1349	1652	1907	2336	2523	68	70	71
	●	●	200	79.4	68.3	487	689	771	912	1335	1541	1888	2180	2669	2883	70	72	74
	●	●	225	79.4	74.6	548	775	867	1026	1502	1734	2123	2452	3003	3244	72	74	77
	●	●	250	79.4	82.6	609	862	963	1140	1668	1926	2359	2724	3337	3604	74	76	81
	●	●	275	79.4	92.1	670	948	1060	1254	1835	2119	2595	2997	3670	3964	78	80	83
	●	●	150-45	79.4	50.8	366	517	578	684	1001	1156	1416	1635	2002	2162	45	49	52
	●	●	175-45	79.4	59.1	426	603	674	798	1168	1349	1652	1907	2336	2523	45	49	51
	●	●	200-45	79.4	68.3	487	689	771	912	1335	1541	1888	2180	2669	2883	45	48	51
	●	●	225-45	79.4	74.6	548	775	867	1026	1502	1734	2123	2452	3003	3244	45	48	50
	●	●	250-45	79.4	82.6	609	862	963	1140	1668	1926	2359	2724	3337	3604	45	47	49
6	●		250	124	62.3	609	862	963	1140	1668	1926	2359	2724	3337	3604	65	67	69
	●		300	124	69.9	731	1034	1156	1368	2002	2312	2831	3269	4004	4325	66	68	70
	●		350	124	76.2	853	1206	1349	1596	2336	2697	3303	3814	4671	5046	68	70	72
	●		400	124	82.6	975	1378	1541	1824	2669	3082	3775	4359	5339	5767	70	73	75
	●		450	124	88.1	1097	1551	1734	2051	3003	3468	4247	4904	6006	6487	72	75	77
	●		500	124	97.2	1218	1723	1926	2279	3337	3853	4719	5449	6673	7208	74	76	79
	●		550	124	108	1340	1895	2119	2507	3670	4238	5191	5994	7341	7929	76	79	83
	●		625	124	130	1523	2154	2408	2849	4171	4816	5899	6811	8342	9010	78	81	86
	●		440-65	124	88.1	1072	1516	1695	2006	2936	3391	4153	4795	5873	6343	60	61	62
	●		550-65	124	108	1340	1895	2119	2507	3670	4238	5191	5994	7341	7929	64	65	66
●		625-65	124	130	1523	2154	2408	2849	4171	4816	5899	6811	8342	9010	65	66	67	

Highlighted column shows the rated pressure.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Net Weight (kg)
	CF (Flange)	4	209.6	111.9	235.0	314.3	39.7	51.71
		6	311.2	174.6	220.7	338.1	61.9	57.15
	CRC (F)	1-1/4	86.5	54.0	53.2	77.8	10.3	1.02
		2	123.0	81.0	77.8	118.3	18.3	2.27
		3	176.2	112.7	150.8	213.5	28.6	8.62
		4	228.6	141.3	231.8	311.2	39.7	18.14
	D (M)	1/2	58.7	44.5	18.3	33.3	6.4	0.14
		3/4	69.1	50.8	23.8	42.1	7.9	0.21
	AP (F) AP-W (F)	1/4	36.5	25.4	22.0	29.4	4.0	0.01
		3/8	37.3	27.8	22.0	29.4	4.0	0.01

Based on the largest/heaviest version of each type.