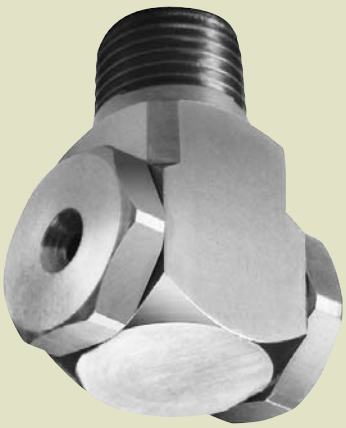
WTZ

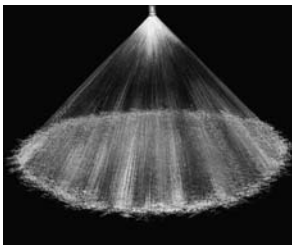
Right Angle Full Cone



Metal

DESIGN FEATURES
- No internal parts, clog-resistant
- Uniform distribution
- Male and female connections
- Large free passage

SPRAY CHARACTERISTICS
Spray pattern: Full Cone
Spray angle: 90° and 110°
Flow rates: 0.18 to 49 gpm

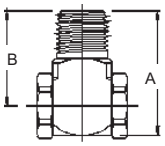


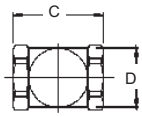
Full Cone 90°



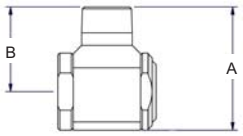
Full Cone 110°

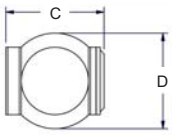
Dimensions are approximate.
Check with BETE for critical dimension applications.





Metal





3/4" and 1"



3/4" and 1"

WTZ Flow Rates and Dimensions
Full Cone, 90° and 110° Spray Angles, 1/4", 3/8", 1/2", 3/4", and 1" Pipe Size

Male or Female Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI 5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	Approx. Orifice Dia. (in)	Dimensions (in.) Metal Only A	B	C	D
1/4"	WTZ 50	0.079	0.18	0.25	0.30	0.35	0.43	**0.50**	0.61	0.70	0.79	0.075				
	WTZ 56	0.088	0.20	0.28	0.34	0.39	0.48	**0.56**	0.68	0.79	0.88	0.079	1.31	1.00	0.80	0.63
	WTZ 62	0.098	0.22	0.31	0.38	0.44	0.54	**0.62**	0.76	0.88	0.98	0.083				
	WTZ 77	0.122	0.27	0.39	0.47	0.55	0.67	**0.77**	0.95	1.10	1.22	0.091				
3/8"	WTZ 98	0.155	0.35	0.49	0.60	0.69	0.85	**0.98**	1.20	1.38	1.55	0.102				
	WTZ 120	0.196	0.44	0.62	0.76	0.88	1.07	**1.24**	1.52	1.75	1.96	0.118				
	WTZ 150	0.245	0.55	0.77	0.95	1.10	1.34	**1.55**	1.90	2.19	2.45	0.130				
	WTZ 170	0.275	0.61	0.87	1.06	1.23	1.50	**1.74**	2.13	2.46	2.75	0.138				
	WTZ 200	0.309	0.69	0.98	1.20	1.38	1.69	**1.95**	2.39	2.76	3.09	0.146	1.50	1.12	1.17	0.75
	WTZ 250	0.392	0.88	1.24	1.52	1.75	2.15	**2.48**	3.04	3.51	3.92	0.163				
	WTZ 280	0.441	0.99	1.39	1.71	1.97	2.42	**2.79**	3.42	3.95	4.41	0.173				
	WTZ 310	0.490	1.10	1.55	1.90	2.19	2.69	**3.10**	3.80	4.39	4.90	0.183				
	WTZ 390	0.613	1.37	1.94	2.37	2.74	3.36	**3.88**	4.75	5.48	8.67	0.205				
	WTZ 500	0.785	1.75	2.48	3.04	3.51	4.30	**4.96**	6.08	7.02	7.85	0.228				
1/2"	WTZ 620	0.98	2.19	3.10	3.80	4.38	5.37	**6.20**	7.59	8.77	9.80	0.287				
	WTZ 780	1.23	2.74	3.88	4.75	5.48	6.71	**7.75**	9.49	11.0	12.3	0.315				
	WTZ 980	1.54	3.45	4.88	5.98	6.91	8.46	**9.77**	12.0	13.8	15.4	0.343				
	WTZ 1120**	1.77	3.96	5.60	6.86	7.92	9.70	**11.2**	13.7	15.8	17.7	0.389	1.87	1.38	1.48	1.00
	WTZ 1280**	2.02	4.53	6.40	7.84	9.05	11.1	12.8	15.7	18.1	20.2	0.420				
	WTZ 1440**	2.28	5.09	7.20	8.82	10.2	12.5	14.4	17.6	20.4	22.8	0.391				
3/4" *	WTZ 1200	1.90	4.24	6.00	7.35	8.49	10.4	12.0	14.7	17.0	19.0	0.335				
	WTZ 1500	2.37	5.30	7.50	9.19	10.6	13.0	15.0	18.4	21.2	23.7	0.412	3.00	2.00	2.00	2.00
	WTZ 1900	3.00	6.72	9.50	11.6	13.4	16.5	19.0	23.3	26.9	30.0	0.469				
1" *	WTZ 2200	3.48	7.78	11.0	13.5	15.6	19.1	22.0	26.9	31.1	34.8	0.500	3.20	2.20	2.55	2.48
	WTZ 3100	4.90	11.0	15.5	19.0	21.9	26.9	31.0	38.0	43.8	49.0	0.531				

Flow Rate (GPM) = K $\sqrt{PSI}$

Standard Materials: Brass, PVC, 303 Stainless Steel and 316 Stainless Steel.

***Male threads ONLY. Female threads available on request. **90° Spray Angle ONLY; other angles available on request.**

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

CALL 1-413-772-0846
Call for the name of your nearest BETE representative.