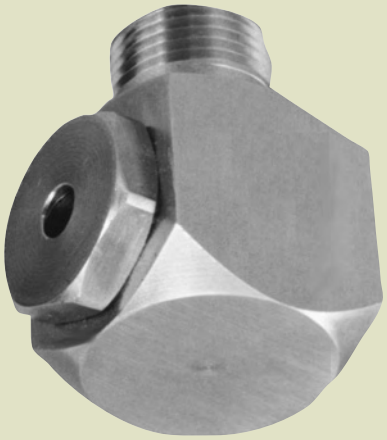
WTX

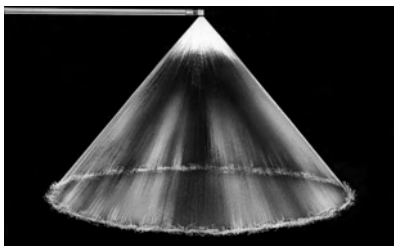
Extended Life/Hollow Cone

DESIGN FEATURES
- Tangential whirl
- Oversized body for extended life
- Male and female connections
- Large free passage

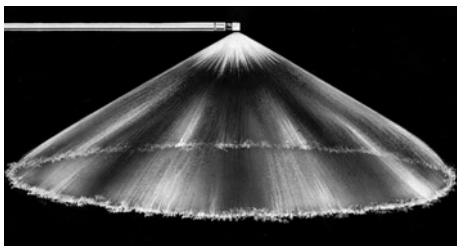
SPRAY CHARACTERISTICS
Spray pattern: Hollow Cone
Spray angles: 70° to 140°
Flow rates: 0.04 to 38.0 gpm



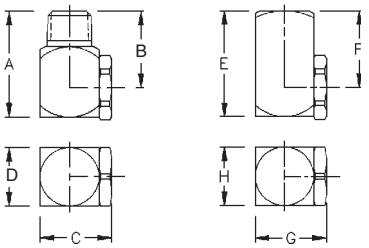
Metal



Hollow Cone 80°



Hollow Cone 120°



Male Female

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

WTX Flow Rates and Dimensions

Hollow Cone, Medium and Extra Wide Spray Angles, 1/8" to 3/4" Pipe Sizes

Male or Female Pipe Size	Nozzle Number	Spray Angle	K Factor	GALLONS PER MINUTE @ PSI 5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	Approx. (in.) Inlet Dia.	Orifice Dia.	Dimensions for Metal Only (in.) A	B	C	D	E	F	G	H	WT. (oz.) Metal
1/8	WTX10	70° 110°	0.0158	0.04	0.05	0.07	0.09	**0.10**	0.12	0.14	0.16	0.04	0.05	1.12	0.88	0.88	0.75	1.00	0.75	0.88	0.75	1.13
	WTX20	70° 115°	0.0316	0.07	0.10	0.14	0.17	**0.20**	0.24	0.28	0.32	0.06	0.06									
	WTX40	70°	0.0632	0.14	0.20	0.28	0.35	**0.40**	0.49	0.57	0.63	0.09	0.09									
	WTX50	115°	0.0791	0.18	0.25	0.35	0.43	**0.50**	0.61	0.71	0.79	0.09	0.09									
	WTX60	70° 115°	0.0949	0.21	0.30	0.42	0.52	**0.60**	0.73	0.85	0.95	0.10	0.11									
	WTX70	115°	0.111	0.25	0.35	0.49	0.61	**0.70**	0.86	0.99	1.11	0.10	0.11									
	WTX80	120°	0.126	0.28	0.40	0.57	0.69	**0.80**	0.98	1.13	1.26	0.11	0.12									
	WTX100	70° 115°	0.158	0.35	0.50	0.71	0.87	**1.00**	1.22	1.41	1.58	0.13	0.13									
	WTX130	120°	0.206	0.46	0.65	0.92	1.13	**1.30**	1.59	1.84	2.06	0.14	0.14									
	WTX160	70°	0.253	0.57	0.80	1.13	1.39	**1.60**	1.96	2.26	2.53	0.15	0.16									
	WTX180	120°	0.285	0.64	0.90	1.27	1.56	**1.80**	2.20	2.55	2.85	0.17	0.16									
	WTX200	70°	0.316	0.71	1.00	1.41	1.73	**2.00**	2.45	2.83	3.16	0.17	0.19									
1/4	WTX12	80°	0.0190	0.04	0.06	0.08	0.10	**0.12**	0.15	0.17	0.19	0.04	0.05	1.31	1.00	0.88	0.75	1.12	0.81	0.88	0.75	2.61
	WTX18	80°	0.0285	0.06	0.09	0.13	0.16	**0.18**	0.22	0.25	0.28	0.06	0.06									
	WTX20	70° 110°	0.0316	0.07	0.10	0.14	0.17	**0.20**	0.24	0.28	0.32	0.06	0.06									
	WTX27	80°	0.0427	0.10	0.14	0.19	0.23	**0.27**	0.33	0.38	0.43	0.07	0.08									
	WTX35	100°	0.0553	0.12	0.18	0.25	0.30	**0.35**	0.43	0.49	0.55	0.08	0.09									
	WTX40	70° 80°	0.0632	0.14	0.20	0.28	0.35	**0.40**	0.49	0.57	0.63	0.08	0.09									
	WTX42	120°	0.0664	0.15	0.21	0.30	0.36	**0.42**	0.51	0.59	0.66	0.08	0.09									
	WTX48	105°	0.0759	0.17	0.24	0.34	0.42	**0.48**	0.59	0.68	0.76	0.09	0.11									

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

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

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

***TO ORDER:** specify pipe size, connection type, nozzle number, spray angle, and material.*

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

WTX Flow Rates and Dimensions

Hollow Cone, Medium and Extra Wide Spray Angles, 1/8" to 3/4" Pipe Sizes

Male or Female Pipe Size	Nozzle Number	Spray Angle	K Factor	GALLONS PER MINUTE @ PSI 5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	Approx. (in.) Inlet Dia.	Orifice Dia.	Dimensions for Metal Only (in.) A	B	C	D	E	F	G	H	WT. (oz.) Metal
1/4	WTX53	80°	0.084	0.19	0.27	0.37	0.46	**0.53**	0.65	0.75	0.84	0.09	0.11	1.31	1.00	0.88	0.75	1.12	0.81	0.88	0.75	2.61
	WTX60	70°	0.095	0.21	0.30	0.42	0.52	**0.60**	0.73	0.85	0.95	0.10	0.11									
	WTX68	120°	0.108	0.24	0.34	0.48	0.59	**0.68**	0.83	0.96	1.08	0.10	0.13									
	WTX80	120°	0.126	0.28	0.40	0.57	0.69	**0.80**	0.98	1.13	1.26	0.13	0.13									
	WTX100	70° 115°	0.158	0.35	0.50	0.71	0.87	**1.00**	1.22	1.41	1.58	0.13	0.14									
	WTX130	120°	0.206	0.46	0.65	0.92	1.13	**1.30**	1.59	1.84	2.06	0.15	0.16									
	WTX150	120°	0.237	0.53	0.75	1.06	1.30	**1.50**	1.84	2.12	2.37	0.16	0.17									
	WTX160	70°	0.253	0.57	0.80	1.13	1.39	**1.60**	1.96	2.26	2.53	0.16	0.17									
	WTX180	120°	0.285	0.64	0.90	1.27	1.56	**1.80**	2.20	2.55	2.85	0.18	0.18									
	WTX200	70° 120°	0.316	0.71	1.00	1.41	1.73	**2.00**	2.45	2.83	3.16	0.18	0.19									
	WTX220	120°	0.348	0.78	1.10	1.56	1.91	**2.20**	2.69	3.11	3.48	0.18	0.22									
	WTX240	120°	0.379	0.85	1.20	1.70	2.08	**2.40**	2.94	3.39	3.79	0.20	0.20									
	WTX260	80°	0.411	0.92	1.30	1.84	2.25	**2.60**	3.18	3.68	4.11	0.20	0.20									
	WTX280	80°	0.443	0.99	1.40	1.98	2.42	**2.80**	3.43	3.96	4.43	0.20	0.22									
	WTX300	70° 100°	0.474	1.06	1.50	2.12	2.60	**3.00**	3.67	4.24	4.74	0.20	0.22									
	WTX340	80°	0.538	1.20	1.70	2.40	2.94	**3.40**	4.16	4.81	5.38	0.22	0.24									
	WTX400	80°	0.632	1.41	2.00	2.83	3.46	**4.00**	4.90	5.66	6.32	0.25	0.28									
	WTX480	80°	0.759	1.70	2.40	3.39	4.16	**4.80**	5.88	6.79	7.59	0.25	0.27									
	WTX580	80°	0.917	2.05	2.90	4.10	5.02	**5.80**	7.10	8.20	9.17	0.27	0.30									
	WTX640	80°	1.012	2.26	3.20	4.53	5.54	**6.40**	7.84	9.05	10.12	0.27	0.30									
	WTX680	80°	1.075	2.40	3.40	4.81	5.89	**6.80**	8.33	9.62	10.75	0.27	0.34									
	WTX800	80°	1.265	2.83	4.00	5.66	6.93	**8.00**	9.80	11.31	12.65	0.27	0.34									
3/8	WTX100	70°	0.158	0.35	0.50	0.71	0.87	**1.00**	1.22	1.41	1.58	0.14	0.15	1.50	1.12	1.06	0.88	1.34	0.97	1.00	0.88	3.50
	WTX130	120°	0.206	0.46	0.65	0.92	1.13	**1.30**	1.59	1.84	2.06	0.14	0.18									
	WTX150	120°	0.237	0.53	0.75	1.06	1.30	**1.50**	1.84	2.12	2.37	0.17	0.18									
	WTX160	70°	0.253	0.57	0.80	1.13	1.39	**1.60**	1.96	2.26	2.53	0.17	0.18									
	WTX180	120°	0.285	0.64	0.90	1.27	1.56	**1.80**	2.20	2.55	2.85	0.17	0.19									
	WTX200	70° 115°	0.316	0.71	1.00	1.41	1.73	**2.00**	2.45	2.83	3.16	0.19	0.20									
	WTX220	120°	0.348	0.78	1.10	1.56	1.91	**2.20**	2.69	3.11	3.48	0.19	0.20									
	WTX240	120°	0.379	0.85	1.20	1.70	2.08	**2.40**	2.94	3.39	3.79	0.19	0.20									
	WTX260	120°	0.411	0.92	1.30	1.84	2.25	**2.60**	3.18	3.68	4.11	0.19	0.23									
	WTX270	120°	0.427	0.95	1.35	1.91	2.34	**2.70**	3.31	3.82	4.27	0.20	0.23									
	WTX300	70° 115°	0.474	1.06	1.50	2.12	2.60	**3.00**	3.67	4.24	4.74	0.20	0.23									
	WTX350	115°	0.553	1.24	1.75	2.47	3.03	**3.50**	4.29	4.95	5.53	0.24	0.25									
	WTX400	70° 105°	0.632	1.41	2.00	2.83	3.46	**4.00**	4.90	5.66	6.32	0.24	0.27									
	WTX440	105°	0.696	1.56	2.20	3.11	3.81	**4.40**	5.39	6.22	6.96	0.26	0.30									
	WTX500	70° 105°	0.791	1.77	2.50	3.54	4.33	**5.00**	6.12	7.07	7.91	0.26	0.28									
	WTX560	105°	0.885	1.98	2.80	3.96	4.85	**5.60**	6.86	7.92	8.85	0.26	0.31									
	WTX600	70°	0.949	2.12	3.00	4.24	5.20	**6.00**	7.35	8.49	9.49	0.33	0.31									
	WTX1000	70°	1.581	3.54	5.00	7.07	8.66	**10.0**	12.3	14.1	15.8	0.34	0.38									
1/2	WTX500	70°	0.791	1.77	2.50	3.54	4.33	**5.00**	6.12	7.07	7.91	0.30	0.30	1.87	1.37	1.50	1.25	1.88	1.38	1.50	1.25	11.3
	WTX600	70°	0.949	2.12	3.00	4.24	5.20	**6.00**	7.35	8.49	9.49	0.33	0.31									
	WTX800	70°	1.265	2.83	4.00	5.66	6.93	**8.00**	9.80	11.3	12.7	0.36	0.36									
	WTX1000	70° 110°	1.581	3.54	5.00	7.07	8.66	**10.0**	12.3	14.1	15.8	0.36	0.44									
	WTX1200	70°	1.897	4.24	6.00	8.49	10.4	**12.0**	14.7	17.0	19.0	0.40	0.48									
3/4	WTX800	70°	1.265	2.83	4.00	5.66	6.93	**8.00**	9.80	11.3	12.7	0.36	0.38	2.25	1.62	1.75	1.50	2.19	1.56	1.75	1.50	16.2
	WTX1000	70°	1.581	3.54	5.00	7.07	8.66	**10.0**	12.3	14.1	15.8	0.40	0.44									
	WTX1200	70°	1.897	4.24	6.00	8.49	10.4	**12.0**	14.7	17.0	19.0	0.44	0.44									
	WTX1400	80°	2.214	4.95	7.00	9.90	12.1	**14.0**	17.2	19.8	22.1	0.47	0.48									
	WTX1600	80° 115°	2.530	5.66	8.00	11.3	13.9	**16.0**	19.6	22.6	25.3	0.48	0.51									
	WTX1800	80°	2.846	6.36	9.00	12.7	15.6	**18.0**	22.1	25.5	28.5	0.50	0.56									
	WTX2000	90°	3.162	7.07	10.0	14.1	17.3	**20.0**	24.5	28.3	31.6	0.52	0.59									
	WTX2200	90°	3.479	7.78	11.0	15.6	19.1	**22.0**	26.9	31.1	34.8	0.53	0.63									
	WTX2400	90°	3.795	8.49	12.0	17.0	20.8	**24.0**	29.4	33.9	38.0	0.55	0.69									

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

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

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