

WT



HOLLOW CONE

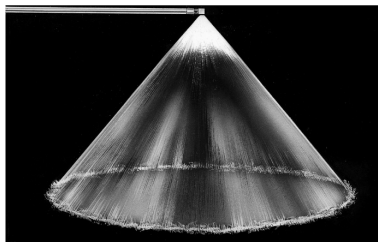
Right Angle/Hollow Cone

DESIGN FEATURES

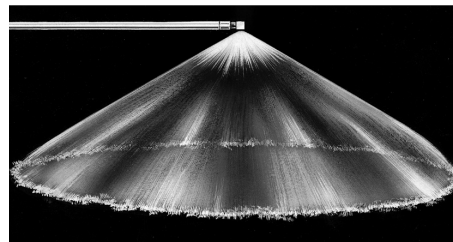
- Conventional design using tangential whirl method of atomization
- Durable
- Use where a circular pattern is required or in large area multiple installations where there is considerable overlapping of sprays
- Male and female connections
- Large free passage

SPRAY CHARACTERISTICS

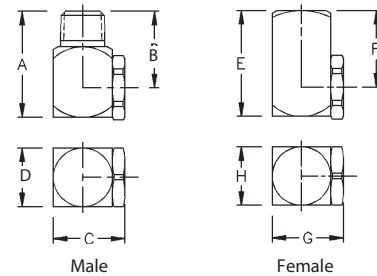
Spray pattern: Hollow Cone
 Spray angles: 70° to 120°
 Flow rates: 0.125 to 145 l/min



Hollow Cone 80°



Hollow Cone 120°



WT Flow Rates and Dimensions

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

Male or Female Pipe Size	Nozzle Number	Spray Angle	K Factor	LITERS PER MINUTE @ BAR								Approx. (mm)		Dimensions for Metal Only (mm)								Wt. (g)					
				0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	Inlet Dia.	Orifice Dia.	A	B	C	D	E	F	G	H	Metal	Plas.				
1/8	WT10	70° 110°	0.228	0.125	0.161	0.191	0.228	0.322	0.395	0.510	0.603	1.02	1.17														
	WT20	70° 115°	0.456	0.250	0.322	0.381	0.456	0.645	0.789	1.02	1.21	1.52	1.52														
	WT40	70°	0.912	0.499	0.645	0.763	0.912	1.29	1.58	2.04	2.41	2.29	2.29														
	WT50	115°	1.14	0.624	0.806	0.953	1.14	1.61	1.97	2.55	3.01	2.29	2.29														
	WT60	70° 115°	1.37	0.749	0.967	1.14	1.37	1.93	2.37	3.06	3.62	2.54	2.79														
	WT70	115°	1.60	0.874	1.13	1.33	1.60	2.26	2.76	3.57	4.22	2.54	2.79	28.4	22.4	16.0	12.7	22.4	16.0	16.5	12.7	28	14				
	WT80	120°	1.82	0.999	1.29	1.53	1.82	2.58	3.16	4.08	4.82	2.79	3.05														
	WT100	70° 115°	2.28	1.25	1.61	1.91	2.28	3.22	3.95	5.10	6.03	3.30	3.30														
	WT130	120°	2.96	1.62	2.09	2.48	2.96	4.19	5.13	6.62	7.84	3.56	3.56														
	WT160	70°	3.65	2.00	2.58	3.05	3.65	5.16	6.32	8.15	9.65	3.81	4.06														
WT180	120°	4.10	2.25	2.90	3.43	4.10	5.80	7.10	9.17	10.9	4.32	4.06															
WT200	70°	4.56	2.50	3.22	3.81	4.56	6.45	7.89	10.2	12.1	4.32	4.83															
1/4	WT12	80°	0.273	0.150	0.193	0.229	0.273	0.387	0.474	0.611	0.724	1.02	1.27														
	WT18	80°	0.410	0.225	0.290	0.343	0.410	0.580	0.710	0.917	1.09	1.52	1.52														
	WT20	70° 110°	0.456	0.250	0.322	0.381	0.456	0.645	0.789	1.02	1.21	1.52	1.52														
	WT27	80°	0.615	0.337	0.435	0.515	0.615	0.870	1.07	1.38	1.63	1.78	2.03	33.3	25.4	20.1	16.0	28.4	20.6	20.1	16.0	85	21				
	WT35	100°	0.798	0.437	0.564	0.667	0.798	1.13	1.38	1.78	2.11	2.03	2.29														
	WT40	70° 80°	0.912	0.499	0.645	0.763	0.912	1.29	1.58	2.04	2.41	2.03	2.29														
	WT42	120°	0.957	0.524	0.677	0.801	0.957	1.35	1.66	2.14	2.53	2.03	2.29														
	WT48	105°	1.09	0.599	0.773	0.915	1.09	1.55	1.89	2.45	2.89	2.29	2.79														

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

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

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

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

WT Flow Rates and Dimensions

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

Male or Female Pipe Size	Nozzle Number	Spray Angle	K Factor	LITERS PER MINUTE @ BAR								Approx. (mm)		Dimensions for Metal Only (mm)								Wt. (g)	
				0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	Inlet Dia.	Orifice Dia.	A	B	C	D	E	F	G	H	Metal	Plas.
1/4	WT53	80°	1.21	0.662	0.854	1.01	1.21	1.71	2.09	2.70	3.20	2.29	2.79	33.3	25.4	20.1	16.0	28.4	20.6	20.1	16.0	85	21
	WT60	70°	1.37	0.749	0.967	1.14	1.37	1.93	2.37	3.06	3.62	2.54	2.79										
	WT68	120°	1.55	0.849	1.10	1.30	1.55	2.19	2.68	3.47	4.10	2.54	3.30										
	WT80	120°	1.82	0.999	1.29	1.53	1.82	2.58	3.16	4.08	4.82	3.30	3.30										
	WT100	70° 115°	2.28	1.25	1.61	1.91	2.28	3.22	3.95	5.10	6.03	3.30	3.56										
	WT130	120°	2.96	1.62	2.09	2.48	2.96	4.19	5.13	6.62	7.84	3.81	4.06										
	WT150	120°	3.42	1.87	2.42	2.86	3.42	4.83	5.92	7.64	9.04	4.06	4.32										
	WT160	70°	3.65	2.00	2.58	3.05	3.65	5.16	6.32	8.15	9.65	4.06	4.32										
	WT180	120°	4.10	2.25	2.90	3.43	4.10	5.80	7.10	9.17	10.9	4.57	4.57										
	WT200	70° 120°	4.56	2.50	3.22	3.81	4.56	6.45	7.89	10.19	12.1	4.57	4.83										
	WT220	120°	5.01	2.75	3.55	4.19	5.01	7.09	8.68	11.2	13.3	4.57	5.59										
	WT240	120°	5.47	3.00	3.87	4.58	5.47	7.73	9.47	12.2	14.5	5.08	5.08										
	WT260	80°	5.93	3.25	4.19	4.96	5.93	8.38	10.3	13.2	15.7	5.08	5.08										
	WT280	80°	6.38	3.49	4.51	5.34	6.38	9.02	11.1	14.3	16.9	5.08	5.59										
	WT300	70° 100°	6.84	3.74	4.83	5.72	6.84	9.67	11.8	15.3	18.1	5.08	5.59										
	WT340	80°	7.75	4.24	5.48	6.48	7.75	11.0	13.4	17.3	20.5	5.59	6.10										
	WT400	80°	9.12	4.99	6.45	7.63	9.12	12.9	15.8	20.4	24.1	6.35	7.11										
	WT480	80°	10.9	5.99	7.73	9.15	10.9	15.5	18.9	24.5	28.9	6.35	6.86										
	WT580	80°	13.2	7.24	9.35	11.1	13.2	18.7	22.9	29.6	35.0	6.86	7.62										
	WT640	80°	14.6	7.99	10.3	12.2	14.6	20.6	25.3	32.6	38.6	6.86	7.62										
WT680	80°	15.5	8.49	11.0	13.0	15.5	21.9	26.8	34.7	41.0	6.86	8.64											
WT800	80°	18.2	9.99	12.9	15.3	18.2	25.8	31.6	40.8	48.2	6.86	8.64											
3/8	WT100	70°	2.28	1.25	1.61	1.91	2.28	3.22	3.95	5.10	6.03	3.56	3.81	38.1	28.4	24.6	19.1	34.0	24.6	19.1	85	21	
	WT130	120°	2.96	1.62	2.09	2.48	2.96	4.19	5.13	6.62	7.84	3.56	4.57										
	WT150	120°	3.42	1.87	2.42	2.86	3.42	4.83	5.92	7.64	9.04	4.32	4.57										
	WT160	70°	3.65	2.00	2.58	3.05	3.65	5.16	6.32	8.15	9.65	4.32	4.57										
	WT180	120°	4.10	2.25	2.90	3.43	4.10	5.80	7.10	9.17	10.9	4.32	4.83										
	WT200	70° 115°	4.56	2.50	3.22	3.81	4.56	6.45	7.89	10.2	12.1	4.83	5.08										
	WT220	120°	5.01	2.75	3.55	4.19	5.01	7.09	8.68	11.2	13.3	4.83	5.08										
	WT240	125°	5.47	3.00	3.87	4.58	5.47	7.73	9.47	12.2	14.5	4.83	5.08										
	WT260	120°	5.93	3.25	4.19	4.96	5.93	8.38	10.3	13.2	15.7	4.83	5.84										
	WT270	120°	6.15	3.37	4.35	5.15	6.15	8.70	10.7	13.8	16.3	5.08	5.84										
	WT300	70° 115°	6.84	3.74	4.83	5.72	6.84	9.67	11.8	15.3	18.1	5.08	5.84										
	WT350	115°	7.98	4.37	5.64	6.67	7.98	11.3	13.8	17.8	21.1	6.10	6.35										
	WT400	70° 105°	9.12	4.99	6.45	7.63	9.12	12.9	15.8	20.4	24.1	6.10	6.86										
	WT440	105°	10.0	5.49	7.09	8.39	10.0	14.2	17.4	22.4	26.5	6.60	7.62										
	WT500	70° 105°	11.4	6.24	8.06	9.53	11.4	16.1	19.7	25.5	30.1	6.60	7.11										
	WT560	105°	12.8	6.99	9.02	10.7	12.8	18.0	22.1	28.5	33.8	6.60	7.87										
WT600	70°	13.7	7.49	9.67	11.4	13.7	19.3	23.7	30.6	36.2	7.87	7.87											
WT1000	70°	22.8	12.5	16.1	19.1	22.8	32.2	39.5	51.0	60.3	8.64	9.65											
1/2	WT500	70°	11.4	6.24	8.06	9.53	11.4	16.1	19.7	25.5	30.1	7.62	7.62	47.5	34.8	31.8	25.4	46.0	33.3	31.8	25.4	276	113
	WT600	70°	13.7	7.49	9.67	11.4	13.7	19.3	23.7	30.6	36.2	8.38	7.87										
	WT800	70°	18.2	9.99	12.9	15.3	18.2	25.8	31.6	40.8	48.2	9.14	9.14										
	WT1000	70° 110°	22.8	12.5	16.1	19.1	22.8	32.2	39.5	51.0	60.3	9.14	11.2										
	WT1200	70°	27.3	15.0	19.3	22.9	27.3	38.7	47.4	61.1	72.4	10.2	12.2										
3/4	WT800	70°	18.2	9.99	12.9	15.3	18.2	25.8	31.6	40.8	48.2	9.14	9.65	57.2	41.1	38.1	31.8	55.6	39.6	38.1	31.8	397	227
	WT1000	70°	22.8	12.5	16.1	19.1	22.8	32.2	39.5	51.0	60.3	10.2	11.2										
	WT1200	70°	27.3	15.0	19.3	22.9	27.3	38.7	47.4	61.1	72.4	11.2	11.2										
	WT1400	80°	31.9	17.5	22.6	26.7	31.9	45.1	55.3	71.3	84.4	11.9	12.2										
	WT1600	80° 115°	36.5	20.0	25.8	30.5	36.5	51.6	63.2	81.5	96.5	12.2	13.0										
	WT1800	80°	41.0	22.5	29.0	34.3	41.0	58.0	71.0	91.7	109	12.7	14.2										
	WT2000	90°	45.6	25.0	32.2	38.1	45.6	64.5	78.9	102	121	13.2	15.0										
	WT2200	90°	50.1	27.5	35.5	41.9	50.1	70.9	86.8	112	133	13.5	16.0										
WT2400	90°	54.7	30.0	38.7	45.8	54.7	77.3	94.7	122	145	14.0	17.5											

$Flow Rate (l/min) = K \sqrt{bar}$

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



HOLLOW CONE

CALL 009821 88543205
Call for expert advice on hollow cone nozzle selection