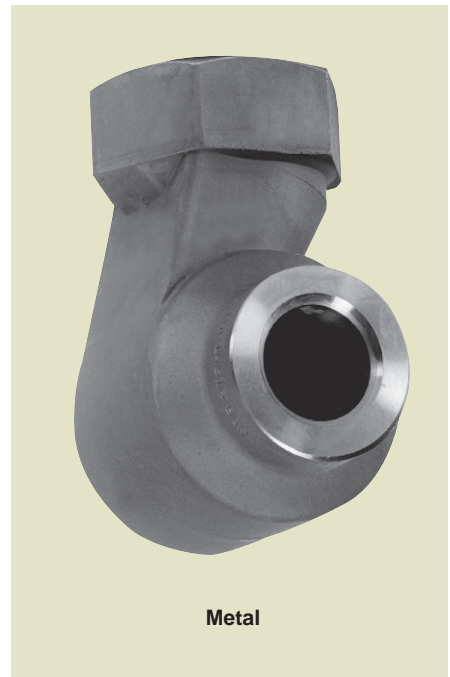




HOLLOW CONE

# TH

## Tangential Inlet/Right Angle



### DESIGN FEATURES

- Large free passage
- Clog-resistant; nozzles have no internal parts
- One-piece casting
- Female connection
- Flanged connection available
- Silicon carbide available upon request
- Inlet and outlet are in-line

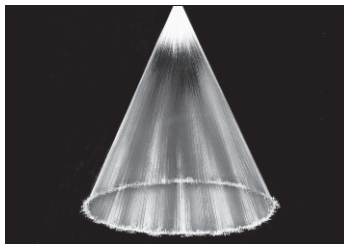
### SPRAY CHARACTERISTICS

- Patented geometry designed to give the most uniform liquid distribution around the periphery of the spray

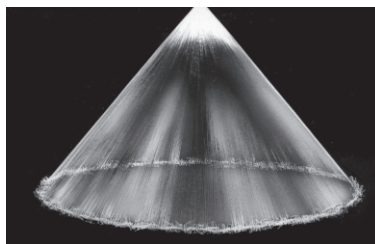
**Spray pattern:** Hollow Cone

**Spray angles:** Narrow to Medium

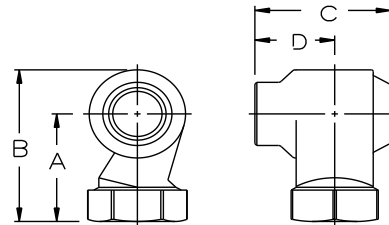
**Flow rates:** 4.11 to 564 gpm



Hollow Cone - Narrow Angle



Hollow Cone - Medium Angle



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

### TH Flow Rates and Dimensions

Hollow Cone, Narrow to Medium Spray Angles, 1" to 3" Pipe Sizes

Female Pipe Size	Nozzle Number	Spray Ang.			K Factor	GALLONS PER MINUTE @ PSI							Approx. Orifice Dia. (in.)	Free Pass. Dia. (in.)	Dimensions (in.) (MAX)				Wt. (lbs.)	
		5 PSI	15 PSI	40 PSI		3 PSI	5 PSI	7 PSI	10 PSI	15 PSI	20 PSI	30 PSI			40 PSI	A	B	C		D
1	THF1508	54°	54°	54°	2.37	4.11	5.30	6.27	7.50	9.19	10.6	13.0	15.0	0.34	0.34	2.31	3.13	2.33	1.40	1.04
	THF1808	56°	56°	56°	2.85	4.93	6.36	7.53	9.00	11.0	12.7	15.6	18.0	0.38	0.38					
	THF2308	63°	66°	66°	3.64	6.30	8.13	9.62	11.5	14.1	16.3	19.9	23.0	0.44	0.44					
	THF2708	66°	70°	70°	4.27	7.39	9.55	11.3	13.5	16.5	19.1	23.4	27.0	0.47	0.47					
	THF3208	68°	72°	71°	5.06	8.76	11.3	13.4	16.0	19.6	22.6	27.7	32.0	0.44	0.44					
	THF3808	68°	72°	71°	6.01	10.4	13.4	15.9	19.0	23.3	26.9	32.9	38.0	0.60	0.60					
1 1/4	THF3210	66°	66°	66°	5.06	8.76	11.3	13.4	16.0	19.6	22.6	27.7	32.0	0.55	0.55	2.81	3.79	2.86	1.74	1.65
	THF3810	68°	70°	70°	6.01	10.4	13.4	15.9	19.0	23.3	26.9	32.9	38.0	0.63	0.63					
	THF4110	73°	74°	74°	6.48	11.2	14.5	17.2	20.5	25.1	29.0	35.5	41.0	0.66	0.66					
	THF5210	90°	90°	90°	8.22	14.2	18.4	21.8	26.0	31.8	36.8	45.0	52.0	0.78	0.78					
	THF7010	83°	85°	85°	11.1	19.2	24.7	29.3	35.0	42.9	49.5	60.6	70.0	1.03	0.89					
1 1/2	THF6112	58°	60°	60°	9.65	16.7	21.6	25.5	30.5	37.4	43.1	52.8	61.0	0.77	0.77	2.96	4.12	3.43	2.09	1.88
	THF7012	63°	65°	65°	11.1	19.2	24.7	29.3	35.0	42.9	49.5	60.6	70.0	0.84	0.84					
	THF7712	63°	66°	66°	12.2	21.1	27.2	32.2	38.5	47.2	54.4	66.7	77.0	0.92	0.92					
	THF9012	67°	70°	70°	14.2	24.6	31.8	37.6	45.0	55.1	63.6	77.9	90.0	1.03	1.03					
	THF12712	75°	80°	80°	20.1	34.8	44.9	53.1	63.5	77.8	89.8	110	127	1.30	1.06					
	THF14512	80°	80°	83°	22.9	39.7	51.3	60.7	72.5	88.8	103	126	145	1.42	1.06					

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

Standard Materials: Brass, Carbon Steel, and 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.