

# TF10-170

FM Approved

### DESIGN FEATURES

- The original spiral nozzle invented by BETE and continuously improved!
- Clog-resistant performance
- High discharge velocity
- Provided with strainer as required by FM
- Optional blow-off cover available

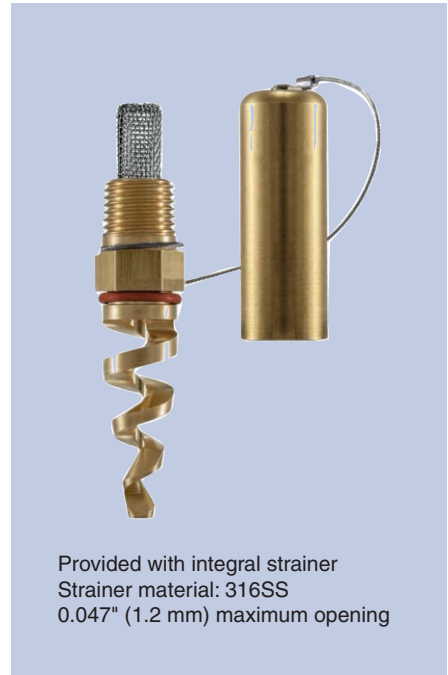
### SPRAY CHARACTERISTICS

- Two spray cones: an outer, wide angle cone and a narrower inner cone combine to give full cone effect

**Spray pattern:** Full Cone

**Nominal spray angle:** 170°

**Flow rates:** 2.55 to 8.06 gpm  
9.71 to 30.7 L/min



Provided with integral strainer  
Strainer material: 316SS  
0.047" (1.2 mm) maximum opening



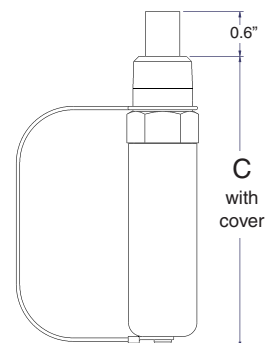
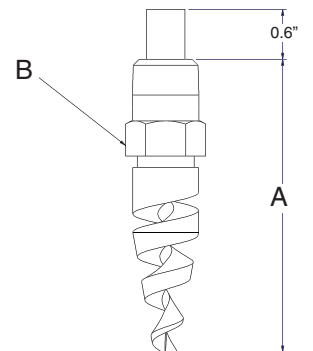
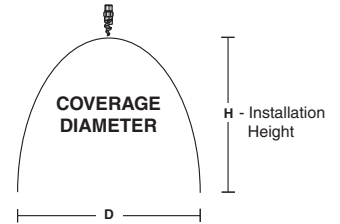
Full Cone 170°



Use of blow-off cover requires a pressure of 25 psi (1.73 bar) or higher

### COVERAGE WITH NOZZLE INSTALLED VERTICALLY DOWN

TF10-170, 170° Nominal Spray Angle					TF10-170, 170° Nominal Spray Angle				
	15 PSI	50 PSI	100 PSI	150 PSI		1 BAR	3 BAR	7 BAR	10 BAR
H (ft)	D (ft)	D (ft)	D (ft)	D (ft)	H (m)	D (m)	D (m)	D (m)	D (m)
1.00	3.25	5.00	6.00	5.75	0.30	0.98	1.43	1.85	1.76
2.00	4.00	6.25	7.50	7.00	0.61	1.21	1.80	2.33	2.15
3.00	4.50	6.75	8.00	7.25	0.91	1.36	1.95	2.46	2.24
4.00	5.00	7.00	8.25	7.50	1.22	1.51	2.07	2.53	2.31
5.00	5.50	7.50	8.50	7.75	1.52	1.67	2.18	2.61	2.39
6.00	5.50	7.50	8.50	8.00	1.83	1.67	2.18	2.64	2.46
7.00	5.50	7.50	8.50	8.00	2.13	1.67	2.18	2.64	2.46
8.00	5.50	7.50	8.50	8.00	2.44	1.67	2.18	2.64	2.46
9.00	5.50	7.50	8.50	8.00	2.74	1.67	2.18	2.64	2.46
10.0	5.50	7.50	8.50	8.00	3.05	1.67	2.18	2.64	2.46



### TF Full Cone Flow Rates and Dimensions

Male Pipe Size	Nozzle Number	Available Nominal Spray Angle	K Factor <sup>1</sup>	GALLONS PER MINUTE @ PSI				Approximate Dimensions (in.)			Nozzle Weight (oz.)	With Cover Weight (oz.)		
				15 psi	50 psi	100 psi	150 psi	Orifice Diameter	Free Passage Dia.	A			B	C
1/4	TF10	170°	0.658	2.55	4.65	6.58	8.06	0.16	0.13	2.40	0.63	2.65	1.1	1.5

Male Pipe Size	Nozzle Number	Available Nominal Spray Angle	K Factor <sup>2</sup>	LITERS PER MINUTE @ BAR				Approximate Dimensions (mm)			Nozzle Mass (g)	With Cover Mass (g)		
				1 bar	3 bar	7 bar	10 bar	Orifice Diameter	Free Passage Dia.	A			B	C
1/4	TF10	170°	9.71	9.71	16.8	25.7	30.7	4.0	3.2	61.0	15.9	67.4	29.8	40.8

1: Flow Rate (GPM) = K (PSI)<sup>0.50</sup>

2: Flow Rate (L/min) = K (BAR)<sup>0.50</sup>

Tolerance ±10% Flow, ± 10° Angle

Standard Material: Brass. For availability of other bronze and copper alloy materials, please contact BETE

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