

# TFXP

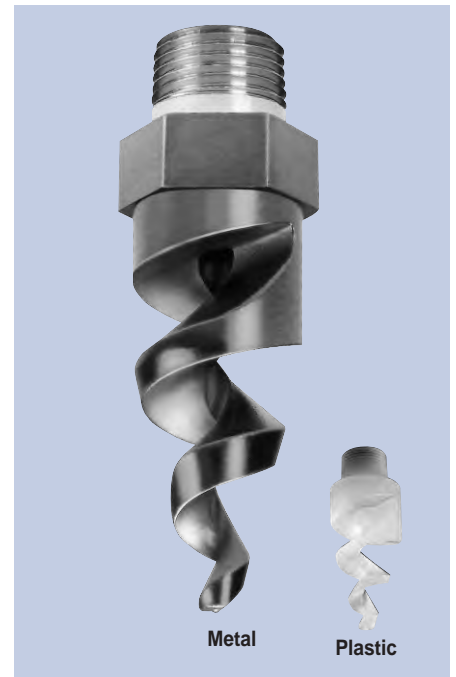
## Largest Free Passage

### DESIGN FEATURES

- Largest free passage in the original spiral nozzle invented by BETE and continuously improved!
- Passes particles equal to orifice size
- Clog-resistant
- One-piece, extra heavy construction
- High energy efficiency
- Male connection

### SPRAY CHARACTERISTICS

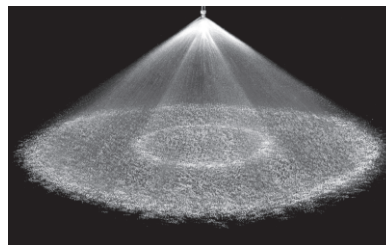
- Wide range of flow rates
  - Fine atomization
- Spray pattern:** Full Cone  
(Hollow Cone available by special order)
- Spray angles:** 90° and 120°
- Flow rates:** 3.0 to 3320 gpm



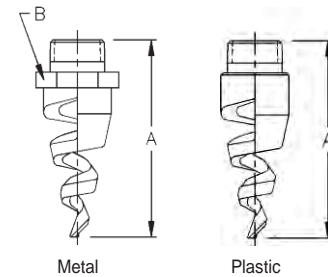
FULL CONE



Full Cone 90° (XPN)



Full Cone 120° (XP)



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

### TFXP Flow Rates and Dimensions

Full Cone, 90° (XPN) and 120° (XP) Spray Angles, 3/8" to 4" Pipe Sizes

Male Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI						PTFE not recommended at pressures above red line				Approx. Free Pass. & Orifice Dia. (in.)	Approximate Dimensions (in.) for Metal Only		Wt. (lbs.)			
			10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI	200 PSI	400 PSI		A	B	Metal	Plas.		
3/8	TF12	0.949	3.00	4.24	5.20	6.00	6.71	7.35	8.49	9.49	13.4	19.0	0.19	2.88	0.88	0.20	0.04		
	TF14	1.28	4.05	5.73	7.01	8.10	9.06	9.92	11.5	12.8	18.1	25.6	0.22	2.88	0.88				
	TF16	1.68	5.30	7.50	9.2	10.6	11.9	13.0	15.0	16.8	23.7	33.5	0.25	2.75	0.88				
	TF20	2.61	8.25	11.7	14.3	16.5	18.4	20.2	23.3	26.1	36.9	52.2	0.31	3.12	0.88				
1/2	TF24	3.81	12.1	17.0	20.9	24.1	26.9	29.5	34.1	38.1	53.9	76.2	0.38	3.47	1.13	0.41	0.06		
	TF28	5.22	16.5	23.3	28.6	33.0	36.9	40.4	46.7	52.2	73.8	104	0.44	3.50	1.13				
3/4	TF32	6.64	21.0	29.7	36.4	42.0	47.0	51.4	59.4	66.4	93.9	133	0.50	5.38	1.75	1.56	0.22		
1	TF40	10.6	33.5	47.4	58.0	67.0	74.9	82.1	94.8	106	150	212	0.63	5.25	2.00	1.56	0.25		
	TF48	15.0	47.5	67.2	82.3	95.0	106	116	134	150	212	300	0.75	6.63	2.00			2.06	0.47
1 1/2	TF56	20.4	64.5	91.2	112	129	144	158	182	204	288	408	0.88	6.97	2.50	4.00	0.59		
	TF64	26.7	84.5	120	146	169	189	207	239	267	378	534	1.00	6.94	2.50			2.44	0.53
	TF72	30.4	96.0	136	166	192	215	235	272	304	429	607	1.13	7.41	2.50			2.81	0.53
2	TF88	44.3	140	198	242	280	313	343	396	443	626	885	1.38	10.5	2.63	5.12	1.25		
	TF96	55.9	177	250	306	354	395	433	500	559	791	1120	1.50	11.0	2.63			6.31	1.25
3	TF112	81.0	256	362	443	512	572	627	724	810	1150	1620	1.75**	12.0	3.50	8.37	1.37		
	TF128	107	339	480	588	679	759	829	960	1070	1510	2150	2.00**	11.7	3.50			9.75	1.50
4	TF160	166	525	742	909	1050	1170	1290	1480	1660	2350	3320	2.50**	12.0	4.50	15.6	1.87		

Flow Rate (GPM) = K √PSI \*\*Free passage is 1.5"

Standard Materials: Brass, 316 Stainless Steel, PVC, Polypropylene, Cobalt Alloy 6, and PTFE.

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