

# STXP

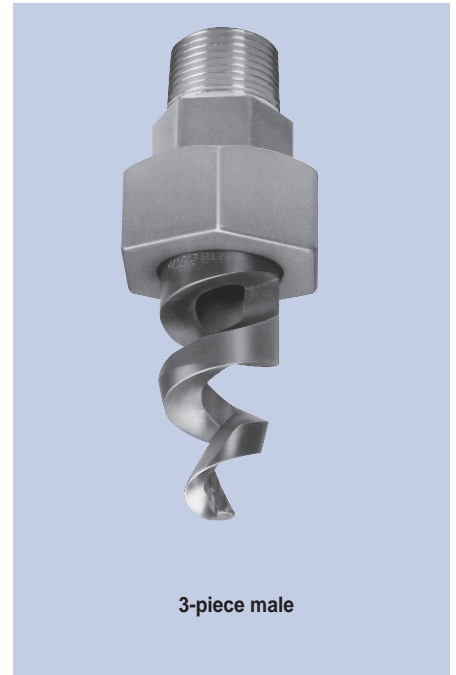
## Largest Free Passage

### DESIGN FEATURES

- Abrasion resistant
- Cobalt Alloy 6 or RBSC ceramic parts in high-wear areas
- High energy efficiency
- Largest free passage in spiral design
- Extra heavy, rugged construction
- Male and female connections
- Flanged and special connections available as required

### SPRAY CHARACTERISTICS

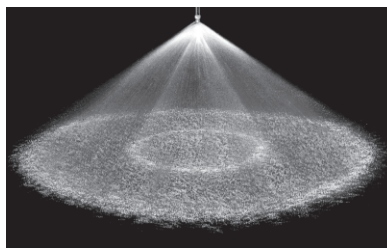
- Fine atomization
- Spray pattern:** Full Cone  
(Hollow Cone available by special order)
- Spray angles:** 90° and 120° standard
- Flow rates:** 2.12 to 3320 gpm  
(Higher flow rates available)



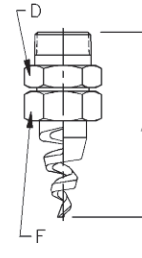
3-piece male



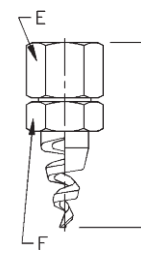
Full Cone 90° (XPN)



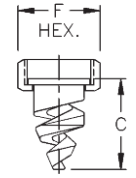
Full Cone 120° (XP)



3-piece Male



3-piece Female



2-piece Female

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

### STXP Flow Rates & Dimensions

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

3-piece Male or Female Pipe Size	** Female Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI												Approx. (in.) Orifice & Free Pass. Dia.	Approximate Dimensions (in.)						Wt. (lbs.) Metal	
				5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI	200 PSI	400 PSI		A	B	C	D	E	F	Male	Fem.
3/8		ST12	0.949	2.12	3.00	3.67	4.24	5.20	<b>6.00</b>	6.71	7.35	8.49	9.49	13.4	19.0	0.19	3.94	3.38	2.13	1.38	1.38	1.50	0.5	0.5
		ST14	1.28	2.86	4.05	4.96	5.73	7.01	<b>8.10</b>	9.06	9.92	11.5	12.8	18.1	25.6	0.22	3.94	3.38	2.11	1.38	1.38	1.50		
		ST16	1.68	3.75	5.30	6.49	7.50	9.18	<b>10.6</b>	11.9	13.0	15.0	16.8	23.7	33.5	0.25	3.94	3.38	2.12	1.38	1.38	1.50		
		ST20	2.61	5.83	8.25	10.1	11.7	14.3	<b>16.5</b>	18.4	20.2	23.3	26.1	36.9	52.2	0.31	3.94	3.38	2.12	1.38	1.38	1.50		
3/4		ST24	3.81	8.52	12.1	14.8	17.0	20.9	<b>24.1</b>	26.9	29.5	34.1	38.1	53.9	76.2	0.38	4.56	3.81	2.68	1.19	1.19	1.75	1.1	1.1
		ST28	5.22	11.7	16.5	20.2	23.3	28.6	<b>33.0</b>	36.9	40.4	46.7	52.2	73.8	104	0.44	4.56	3.81	2.68	1.19	1.19	1.75	1.1	1.1
		ST32	6.64	14.8	21.0	25.7	29.7	36.4	<b>42.0</b>	47.0	51.4	59.4	66.4	93.9	133	0.50	5.14	5.12	4.22	1.50	1.50	2.19	2.0	2.0
1		ST40	10.6	23.7	33.5	41.0	47.4	58.0	<b>67.0</b>	74.9	82.1	94.8	106	150	212	0.63	6.31	5.30	4.05	1.88	1.88	2.75	3.0	2.6
		ST48	15.0	33.6	47.5	58.2	67.2	82.3	<b>95.0</b>	106	116	134	150	212	300	0.75	7.44	6.44	5.56	1.88	1.88	2.75		
1 1/2	2 1/2	ST56	20.4	45.6	64.5	79.0	91.2	112	<b>129</b>	144	158	182	204	288	408	0.88	8.56	7.25	5.50	3.00	3.00	3.50	6.0	3.4
		ST64	26.7	59.8	84.5	103	120	146	<b>169</b>	189	207	239	267	378	534	1.00	8.56	7.25	5.71	3.00	3.00	3.50		
		ST72	30.4	67.9	96.0	118	136	166	<b>192</b>	215	235	272	304	429	607	1.13	8.88	7.63	5.73	3.00	3.00	3.50		
2	3	ST88	44.3	99.0	140	171	<b>198</b>	242	280	313	343	396	443	626	885	1.38	11.8	8.00	8.38	3.63	3.63	4.00	8.0	4.0
		ST96	55.9	125	177	216	<b>250</b>	306	354	395	433	500	560	791	1120	1.50	11.4	10.2	8.60	3.63	3.63	4.00		
3	3	ST112	81.0	181	256	314	<b>362</b>	443	512	572	627	724	810	1150	1620	1.75 <sup>1</sup>	11.9	11.8	8.56	3.63	4.00	4.00	10	5.9
		ST128	107	239	339	414	<b>480</b>	588	679	759	829	960	1070	1510	2150	2.00 <sup>1</sup>	12.6	11.8	8.56	3.63	4.00	4.00		
4	4	ST160	166	371	<b>525</b>	643	742	909	1050	1170	1290	1480	1660	2350	3320	2.50 <sup>1</sup>	13.0	13.0	10.0	5.00	5.00	5.00	12	10

Flow Rate (GPM) =  $K\sqrt{PSI}$  <sup>1</sup>Free Passage is 1.5" <sup>\*\*</sup>Parallel threads only

Standard Materials: Base and Caps - 316 Stainless Steel; Tip - Cobalt Alloy 6 or RBSC Ceramic. (RBSC not available on nozzle numbers STXP12 - STXP32).

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

