

N

Fire Protection

DESIGN FEATURES

- Simplicity of design
- One-piece/no internal parts
- Clog-resistant
- Three standard pipe sizes—1/2", 1" and 1-1/2"
- Male connection
- Factory Mutual, U.S. Coast Guard, and Lloyd's Register approved models

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

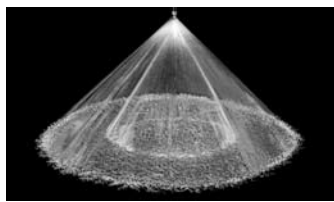
Spray angles: 90° and 120° standard

Flow rates: 3.0 to 534 gpm



Nozzle with optional protective cover

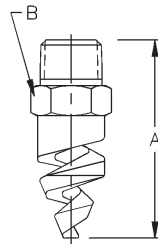
Use of blow-off covers requires a pressure of 25 PSI or higher



Full Cone 90°



Full Cone 120° (W)



N6 nozzles protect a propane storage tank from fire and explosion.



N3-N5W: U.S. Coast Guard approved

TF24-150° also available in Factory Mutual approved model (see page 20)

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

N Flow Rates and Dimensions

Full Cone, Medium 90° and Wide 120° (W) Spray Angles, 1/2" to 1 1/2" Pipe Sizes

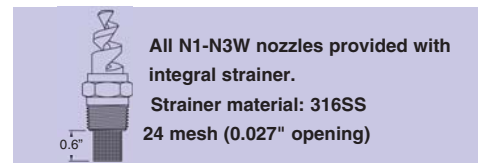
Male Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI										Approx. (in.) Free Orifice Pass. Dia.		Approximate Dimensions (inches) A B		Wt. (oz.) Metal
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	200 PSI	400 PSI						
1/2	N1	0.949	3.00	4.24	5.20	6.00	7.35	8.49	9.49	13.4	19.0	0.19	0.13	2.50	0.88	3.00	
	N2	1.68	5.30	7.50	9.18	10.6	13.0	15.0	16.8	23.7	33.5	0.25	0.13				
	N3	2.61	8.25	11.7	14.3	16.5	20.2	23.3	26.1	36.9	52.2	0.31	0.13				
	N4	3.81	12.1	17.0	20.9	24.1	29.5	34.1	38.1	53.9	76.2	0.38	0.19				
	N5	5.22	16.5	23.3	28.6	33.0	40.4	46.7	52.2	73.8	104	0.43	0.19				
	N6	6.64	21.0	29.7	36.4	42.0	51.4	59.4	66.4	93.9	133	0.50	0.19				
1	N6	6.64	21.0	29.7	36.4	42.0	51.4	59.4	66.4	93.9	133	0.50	0.19	3.63	1.38	8.50	
	N7	10.6	33.5	47.4	58.0	67.0	82.1	94.8	106	150	212	0.63	0.25				
1 1/2	N8	15.0	47.5	67.2	82.3	95.0	116	134	150	212	300	0.75	0.25	4.38	2.00	27.0	
	N9	20.4	64.5	91.2	112	129	158	182	204	288	408	0.88	0.31				
	N10	26.7	84.5	120	146	169	207	239	267	378	534	1.00	0.31				

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

Standard Materials: Brass and 316 Stainless Steel. All 316SS N series covers are 304 Stainless Steel.

Available in nickel aluminum bronze and titanium, plus other materials on request.

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



All N1-N3W nozzles provided with integral strainer.

Strainer material: 316SS
24 mesh (0.027" opening)

0.6"

SPECIAL PURPOSE

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