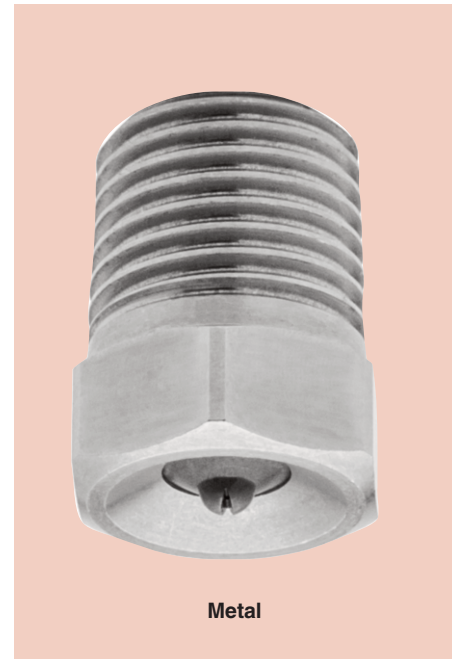


# NFH



Metal

## Low Flow

### DESIGN FEATURES

- Tungsten carbide orifice inserts for maximum wear resistance and service life
- Male connections: 1/4" NPT, BSP (R)

### SPRAY CHARACTERISTICS

- Relatively coarse atomization
- Uniform distribution with tapered edges for use in overlapping sprays

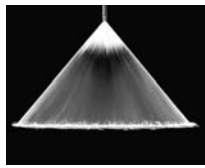
**Spray pattern:** Flat Fan

**Spray angles:** 5° to 120°

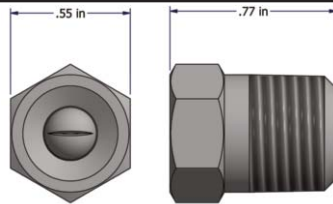
**Flow rate:** 0.012 to 4.33 gpm



FAN



Fan 80°



### To Order: Spray Set-up Number

**1/4** **NFH** **0.18** **25** **-B**  
 pipe size | series | nozzle number | spray angle | if BSP (R) thread

### NFH Flow Rates, Spray Angles and Dimensions Fan, 5° to 120° Spray Angles, 1/4" Pipe Size

Male Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI						Equivalent Orifice Dia.(in.)	Available Spray Angles	Wt. (Oz.)
			30 PSI	40 PSI	50 PSI	100 PSI	500 PSI	1000 PSI			
1/4"	NFH-0.18	0.0012	-	-	-	0.012	0.027	0.038	0.007	5°, 10°, 15°, 20°, 25°, 30°, 33°, 40°, 50°	1.5
	NFH-0.23	0.0020	-	-	-	0.020	0.045	0.063	0.009	5°, 10°, 15°, 20°, 25°, 30°, 33°, 40°, 50°, 65°	
	NFH-0.28	0.0030	-	-	-	0.030	0.067	0.095	0.011	5°, 10°, 20°, 33°, 40°, 50°, 65°, 73°	
	NFH-0.33	0.0041	-	-	-	0.041	0.092	0.130	0.013	5°, 10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°	
	NFH-0.38	0.0055	-	-	-	0.055	0.123	0.174	0.015	10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°	
	NFH-0.43	0.0069	-	-	-	0.069	0.154	0.218	0.017	10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°	
	NFH-0.45	0.0076	0.042	0.048	0.054	0.076	0.170	0.240	0.018		
	NFH-0.48	0.0087	0.048	0.055	0.062	0.087	0.195	0.275	0.019		
	NFH-0.53	0.0105	0.058	0.067	0.075	0.105	0.236	0.333	0.021		
	NFH-0.58	0.0127	0.070	0.080	0.090	0.127	0.284	0.402	0.023		
	NFH-0.63	0.0150	0.082	0.095	0.106	0.150	0.335	0.474	0.025		
	NFH-0.66	0.0164	0.090	0.104	0.116	0.164	0.367	0.519	0.026		
	NFH-0.68	0.0174	0.095	0.110	0.123	0.174	0.389	0.550	0.027		
	NFH-0.73	0.0200	0.110	0.127	0.142	0.201	0.449	0.636	0.029	10°, 20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°	
	NFH-0.78	0.0229	0.125	0.145	0.162	0.229	0.512	0.724	0.031		
	NFH-0.84	0.0266	0.146	0.168	0.188	0.266	0.595	0.841	0.033		
	NFH-0.89	0.0298	0.163	0.188	0.211	0.298	0.666	0.942	0.035		
	NFH-0.94	0.0333	0.182	0.211	0.235	0.333	0.745	1.05	0.037		
	NFH-0.99	0.0369	0.202	0.233	0.261	0.369	0.825	1.17	0.039		
	NFH-1.04	0.0407	0.223	0.257	0.288	0.407	0.910	1.29	0.041		
	NFH-1.09	0.0447	0.245	0.283	0.317	0.448	1.00	1.42	0.043	20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°, 120°	
	NFH-1.14	0.0490	0.268	0.310	0.346	0.490	1.10	1.55	0.045		
	NFH-1.19	0.0533	0.292	0.338	0.378	0.534	1.19	1.69	0.047		
	NFH-1.24	0.0579	0.317	0.366	0.409	0.579	1.29	1.83	0.049		
NFH-1.29	0.0627	0.343	0.397	0.443	0.627	1.40	1.98	0.051			
NFH-1.32	0.0656	0.359	0.415	0.464	0.656	1.47	2.07	0.052			
NFH-1.35	0.0687	0.376	0.434	0.486	0.687	1.54	2.17	0.053			
NFH-1.40	0.0738	0.404	0.467	0.522	0.738	1.65	2.33	0.055	20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°, 100°, 110°		
NFH-1.45	0.0792	0.434	0.501	0.560	0.792	1.77	2.50	0.057			
NFH-1.50	0.0848	0.464	0.536	0.600	0.848	1.90	2.68	0.059			
NFH-1.55	0.0905	0.496	0.572	0.640	0.905	2.02	2.86	0.061			
NFH-1.57	0.0929	0.509	0.588	0.657	0.929	2.08	2.94	0.062			
NFH-1.60	0.0964	0.528	0.610	0.682	0.964	2.16	3.05	0.063			
NFH-1.65	0.103	0.564	0.651	0.728	1.03	2.30	3.26	0.065			
NFH-1.70	0.109	0.597	0.689	0.771	1.09	2.44	3.45	0.067	20°, 33°, 40°, 50°, 65°, 73°, 80°, 90°		
NFH-1.75	0.115	0.630	0.727	0.813	1.15	2.57	3.64	0.069			
NFH-1.80	0.122	0.668	0.772	0.863	1.22	2.73	3.86	0.071			
NFH-1.83	0.126	0.690	0.797	0.891	1.26	2.82	3.98	0.072			
NFH-1.85	0.129	0.707	0.816	0.912	1.29	2.88	4.08	0.073			
NFH-1.91	0.137	0.750	0.866	0.969	1.37	3.06	4.33	0.075			

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

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

### Standard Materials:

Tungsten Carbide Insert, 303 Stainless Steel Housing

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