

EZ FF NF SPN

EZ Change Quick Connection System

DESIGN FEATURES

- Nozzles can be changed in seconds without tools
- Three part nozzle, base, gasket and interchangeable tip
- Exclusive ramped engagement for efficient automatic alignment
- Threaded adapters will accommodate other standard BETE nozzles. Shut-off plugs are also available.

SPRAY CHARACTERISTICS

- Available in six standard tips: EZFF; EZNF; EZSPN; EZWL*; EZTF* and EZWT*

Flow rates: 0.051 to 125 l/min

Spray Angle:

- EZFF:** 105° and 145°
- EZNF:** 0°, 15°, 30°, 50°, 65°, 80°, 90°, 110°, 120°
- EZSPN:** 15°, 25°, 35°, 40° and 50°

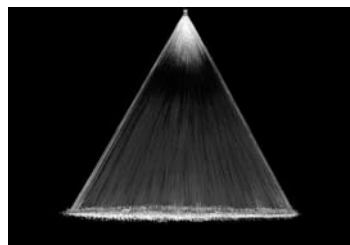
*See pages 94, 95



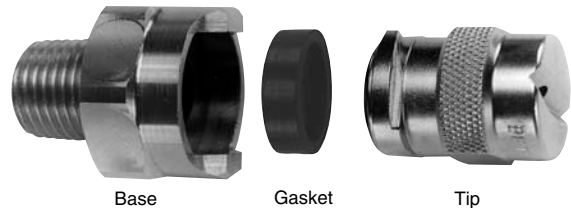
EZNF



145° Fan



50° Fan



EZNF exploded

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

EZFF Flow Rates and Dimensions

Deflected Flat Fan 105° and 145° Spray Angles 1/8" to 1/2" BSP or NPT

Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ BAR							Approx. Orifice Dia. (mm)	Pipe Size	Approx. Assembly Dim. (mm)		Wt. (g)
			0.2 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar			Hex	Length	
1/8"	EZFF016*	0.114	0.051	0.081	0.095	0.114	0.161	0.197	0.255	0.406	1/8	22.4	41.4	62
	EZFF024*	0.228	0.102	0.161	0.191	0.228	0.322	0.395	0.510	0.610				
	EZFF028*	0.342	0.153	0.242	0.286	0.342	0.483	0.592	0.764	0.711				
	EZFF033*	0.456	0.204	0.322	0.381	0.456	0.645	0.789	1.02	0.838				
	EZFF041	0.684	0.306	0.483	0.572	0.684	0.967	1.18	1.53	1.04				
	EZFF046	0.912	0.408	0.645	0.763	0.912	1.29	1.58	2.04	1.17				
	EZFF052	1.14	0.510	0.806	0.953	1.14	1.61	1.97	2.55	1.32				
	EZFF057	1.37	0.611	0.967	1.14	1.37	1.93	2.37	3.06	1.45				
	EZFF065	1.82	0.815	1.29	1.53	1.82	2.58	3.16	4.08	1.65				
	EZFF073	2.28	1.02	1.61	1.91	2.28	3.22	3.95	5.10	1.85				
TO	EZFF093	3.42	1.53	2.42	2.86	3.42	4.83	5.92	7.64	2.36	1/4"	22.4	44.5	62
	EZFF104	4.56	2.04	3.22	3.81	4.56	6.45	7.89	10.2	2.64				
	EZFF116	5.47	2.45	3.87	4.58	5.47	7.73	9.47	12.2	2.95				
	EZFF125	5.70	2.55	4.03	4.77	5.70	8.06	9.87	12.7	3.18				
	EZFF129	6.84	3.06	4.83	5.72	6.84	9.67	11.8	15.3	3.28				
	EZFF141	8.20	3.67	5.80	6.86	8.20	11.6	14.2	18.3	3.58				
1/2"	EZFF148	9.12	4.08	6.45	7.63	9.12	12.9	15.8	20.4	3.76	3/8"	22.4	46.0	74
	EZFF156	10.0	4.48	7.09	8.39	10.0	14.2	17.4	22.4	3.96				
	EZFF161	10.9	4.89	7.73	9.15	10.9	15.5	18.9	24.5	4.09				
	EZFF173	12.3	5.50	8.70	10.3	12.3	17.4	21.3	27.5	4.39				
	EZFF187	13.7	6.11	9.67	11.4	13.7	19.3	23.7	30.6	4.75				
	EZFF196	16.0	7.13	11.3	13.3	16.0	22.6	27.6	35.7	4.98				
1/4"	EZFF218	18.2	8.15	12.9	15.3	18.2	25.8	31.6	40.8	5.31	1/2"	22.4	47.5	82
	EZFF221	20.5	9.17	14.5	17.2	20.5	29.0	35.5	45.9	5.61				
1/2"	EZFF250	23.9	10.7	16.9	20.0	23.9	33.8	41.4	53.5	6.35				
	EZFF256	27.3	12.2	19.3	22.9	27.3	38.7	47.4	61.1	6.55				

Flow Rate (l/min) = $K \sqrt{\text{bar}}$

*Available in 105° only all others 145° FF218 - FF256 not available with 1/8" base

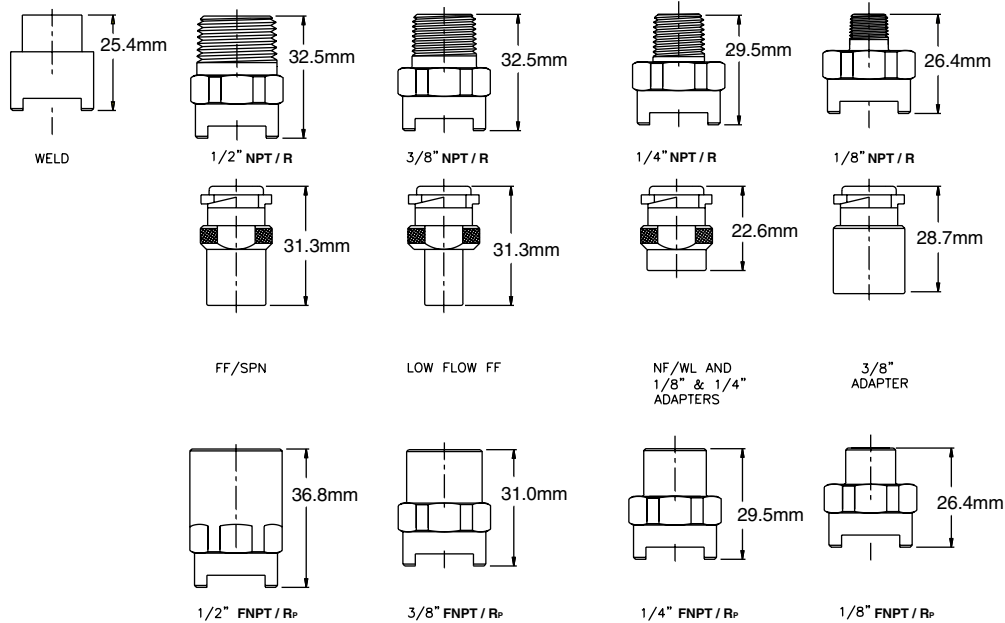
Standard Materials: 303 Stainless Steel, 316 Stainless Steel, Brass, and Viton gaskets standard.

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

www.BETE.com

SPECIAL PURPOSE

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



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

EZNF Flow Rates and Dimensions

Fan and Straight Jet 0°, 15°, 30°, 50°, 65°, 80°, 90°, 110° and 120° Spray Angles 1/8" to 1/2" BSP or NPT

Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ BAR												Equivalent Orifice Dia. (mm)	Approx. Assembly Dim. (mm)		Wt. (g)			
			0.2 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	10 bar	15 bar	20 bar	30 bar	35 bar		Hex	Length				
1/8" TO	EZNF01	0.228		0.161	0.191	0.228	0.322	0.394	0.509	0.720	0.882	1.02	1.25	1.35	0.660	1/8"	22.4	41.4	62		
	EZNF015	0.342		0.242	0.286	0.342	0.483	0.592	0.764	1.08	1.32	1.53	1.87	2.02	0.787						
	EZNF02	0.455		0.322	0.381	0.455	0.644	0.789	1.02	1.44	1.76	2.04	2.49	2.69	0.914						
	1/2"	EZNF025	0.569		0.403	0.476	0.569	0.805	0.986	1.27	1.80	2.20	2.55	3.12	3.37	1.02	1/4"	22.4	44.5	62	
		EZNF03	0.683		0.483	0.572	0.683	0.966	1.18	1.53	2.16	2.65	3.06	3.74	4.04	1.09					
		EZNF04	0.911		0.644	0.762	0.911	1.29	1.58	2.04	2.88	3.53	4.07	4.99	5.39	1.32					
		1/4" TO	EZNF05	1.14		0.806	0.953	1.14	1.61	1.97	2.55	3.60	4.41	5.10	6.24	6.74	1.45	3/8"	22.4	46.0	74
			EZNF06	1.37	0.612	0.967	1.14	1.37	1.93	2.37	3.06	4.33	5.30	6.12	7.49	8.09	1.57				
			EZNF08	1.82	0.812	1.28	1.52	1.82	2.57	3.15	4.06	5.74	7.03	8.12	9.95	10.7	1.83				
			1/2"	EZNF10	2.28	1.02	1.61	1.91	2.28	3.22	3.95	5.10	7.21	8.83	10.2	12.5	13.5	2.03	1/2"	22.4	47.5
EZNF15				3.42	1.53	2.42	2.86	3.42	4.83	5.92	7.64	10.8	13.2	15.3	18.7	20.2	2.38				
EZNF20				4.56	2.04	3.22	3.81	4.56	6.45	7.89	10.2	14.4	17.7	20.4	25.0	27.0	2.78				
1/4" TO				EZNF30	6.84	3.06	4.83	5.72	6.84	9.67	11.8	15.3	21.6	26.5	30.6	37.4	40.4	3.57	1/2"	22.4	47.5
	EZNF40			9.12	4.08	6.45	7.63	9.12	12.9	15.8	20.4	28.8	35.3	40.8	49.9	53.9	3.97				
	EZNF50			11.4	5.10	8.06	9.53	11.4	16.1	19.7	25.5	36.0	44.1	51.0	62.4	67.4	4.37				
	1/4" TO			EZNF60	13.7	6.11	9.67	11.4	13.7	19.3	23.7	30.6	43.2	53.0	61.1	74.9	80.9	4.76	1/2"	22.4	47.5
		EZNF70		16.0	7.13	11.3	13.3	16.0	22.6	27.6	35.7	50.4	61.8	71.3	87.4	94.4	5.16				
	1/4" TO	EZNF80		18.2	8.15	12.9	15.3	18.2	25.8	31.6	40.8	57.7	70.6	81.5	99.9	108	5.56	1/2"	22.4	47.5	82
		EZNF90		20.5	9.17	14.5	17.2	20.5	29.0	35.5	45.9	64.9	79.4	91.7	112	121	5.95				

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

Standard Materials: 303 Stainless Steel, 316 Stainless Steel, Brass, and Viton gaskets standard.

EZSPN Flow Rates and Dimensions

Fan 15°, 25°, 35°, 40° and 50° Spray Angles 1/8" to 1/2" BSP or NPT

Pipe Size	Nozzle Number	Available Spray Angle			K Factor	LITERS PER MINUTE @ BAR												Equiv. Orifice Dia (mm)	Deflection Angle @ Spray Angle					Approx. Assembly Dim. (mm)		Wt. (g)
		15°	25°	35°		0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar	10 bar	15 bar	20 bar	30 bar		15°	25°	35°	40°	50°	Hex	Length	
1/8" TO	EZSPN10	15°	35°	50°	2.28	1.25	1.61	1.91	2.28	3.22	3.95	4.56	5.10	7.21	8.83	10.2	12.5	1.98	5°	35°	55°	1/8"	22.4	41.4	82	
	EZSPN20	15°	35°	50°	4.56	2.50	3.22	3.81	4.56	6.45	7.89	9.12	10.2	14.4	17.7	20.4	25.0	2.77	5°	35°	45°					
	EZSPN25			50°	5.70	3.12	4.03	4.77	5.70	8.06	9.87	11.4	12.7	18.0	22.1	25.5	31.2	3.05			50°					
1/2"	EZSPN30	15°	35°		6.84	3.74	4.83	5.72	6.84	9.67	11.8	13.7	15.3	21.6	26.5	30.6	37.4	3.18	5°	28°		1/4"	22.4	44.5	82	
	EZSPN40	15°	25°	35°	9.12	4.99	6.45	7.63	9.12	12.9	15.8	18.2	20.4	28.8	35.3	40.8	49.9	3.96	5°	20°	35°	35°	55°			
	EZSPN50			35°	11.4	6.24	8.06	9.53	11.4	16.1	19.7	22.8	25.5	36.0	44.1	51.0	62.4	4.34		23°	33°					
1/4" TO	EZSPN60	15°	35°	40°	13.7	7.49	9.67	11.4	13.7	19.3	23.7	27.3	30.6	43.2	53.0	61.1	74.9	4.75	5°	20°	33°	35°	3/8"	22.4	46.0	98
	EZSPN70			40°	16.0	8.74	11.3	13.3	16.0	22.6	27.6	31.9	35.7	50.4	61.8	71.3	87.4	5.05		29°						
1/4" TO	EZSPN80	15°	35°	40°	18.2	9.99	12.9	15.3	18.2	25.8	31.6	36.5	40.8	57.7	70.6	81.5	99.9	5.31	5°	25°	26°	35°				
	EZSPN90			40°	20.5	11.2	14.5	17.2	20.5	29.0	35.5	41.0	45.9	64.9	79.4	91.7	112	5.54		28°			1/2"	22.4	47.5	109
1/2"	EZSPN100	15°	35°	40°	22.8	12.5	16.1	19.1	22.8	32.2	39.5	45.6	51.0	72.1	88.3	102	125	5.94	5°	25°	28°	40°				

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

Standard Materials: 303 Stainless Steel, 316 Stainless Steel, Brass, and Viton gaskets standard.

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