TF Full Cone Flow Rates and Dimensions

Full Cone, 60° (NN), 90° (FCN or FFCN), 120° (FC or FFC), 150° and 170° Spray Angles, 1/8" to 4" Pipe Sizes

Male Pipe Size	Nozzle Number	Available Spray Angles 60° 90° 120° 150° 170°	K Factor	GALLONS PER MINUTE @ PSI 5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI (Operation above 60 PSI not recom. for PTFE)	80 PSI	100 PSI (High PSI operation recom. for Metal Only)	200 PSI	400 PSI	Approx. (in.) Free Orif. Dia.	Pass. Dia.	Dim (in.) for Metal Only* A	B	C	Wt. (oz.) 60° 90° 120° Metal	Plas.
1/8	TF6	60° 90° 120° 150° 170°	0.221	0.495	0.70	0.99	1.21	**1.40**	1.57	1.71	1.98	2.21	3.13	4.43	0.09	0.09					
	TF8	60° 90° 120° 150° 170°	0.411	0.919	1.30	1.84	2.25	**2.60**	2.91	3.18	3.68	4.11	5.81	8.22	0.13	0.13	1.69	0.56		1.00	0.20
1/4	TF6	60° 90° 120° 150° 170°	0.221	0.495	0.70	0.99	1.21	**1.40**	1.57	1.71	1.98	2.21	3.13	4.43	0.09	0.09					
	TF8	60° 90° 120° 150° 170°	0.411	0.919	1.30	1.84	2.25	**2.60**	2.91	3.18	3.68	4.11	5.81	8.22	0.13	0.13					
	TF10	60° 90° 120° 150° 170°	0.632	1.41	2.00	2.83	3.46	**4.00**	4.47	4.90	5.66	6.32	8.94	12.6	0.16	0.13	1.88	0.56		1.25	0.20
3/8	TF6	60°	0.221	0.495	0.70	0.99	1.21	**1.40**	1.57	1.71	1.98	2.21	3.13	4.43	0.09	0.09					
	TF8	60°	0.411	0.919	1.30	1.84	2.25	**2.60**	2.91	3.18	3.68	4.11	5.81	8.22	0.13	0.13					
	TF10	60°	0.632	1.41	2.00	2.83	3.46	**4.00**	4.47	4.90	5.66	6.32	8.94	12.6	0.16	0.13					
	TF12	60° 90° 120° 150° 170°	0.949	2.12	3.00	4.24	5.20	**6.00**	6.71	7.35	8.49	9.49	13.4	19.0	0.19	0.13	1.88	0.69	2.38	1.63	0.25
	TF14	60° 90° 120° 150° 170°	1.28	2.86	4.05	5.73	7.01	**8.10**	9.06	9.92	11.5	12.8	18.1	25.6	0.24	0.13					
	TF16	60° 90° 120° 150° 170°	1.68	3.75	5.30	7.50	9.18	**10.6**	11.9	13.0	15.0	16.8	23.7	33.5	0.28	0.13					
	TF20	60° 90° 120° 150° 170°	2.61	5.83	8.25	11.7	14.3	**16.5**	18.4	20.2	23.3	26.1	36.9	52.2	0.36	0.13					
1/2	TF24	60° 90° 120° 150° 170°	3.81	8.52	12.1	17.0	20.9	**24.1**	26.9	29.5	34.1	38.1	53.9	76.2	0.43	0.19					
	TF28	60° 90° 120° 150° 170°	5.22	11.7	16.5	23.3	28.6	**33.0**	36.9	40.4	46.7	52.2	73.8	104	0.53	0.19	2.50	0.88	3.06	3.00	0.50
3/4	TF32	60° 90° 120° 150° 170°	6.64	14.8	21.0	29.7	36.4	**42.0**	47.0	51.4	59.4	66.4	93.9	133	0.60	0.19	2.75	1.13	3.50	5.50	0.88
1	TF40	60° 90° 120° 150° 170°	10.6	23.7	33.5	47.4	58.0	**67.0**	74.9	82.1	94.8	106	150	212	0.77	0.25					
	TF48	60° 90° 120° 150° 170°	15.0	33.6	47.5	67.2	82.3	**95.0**	106	116	134	150	212	300	0.93	0.25	3.63	1.38	4.38	8.50	2.50
1 1/2	TF56	60° 90° 120° 150° 170°	20.4	45.6	64.5	91.2	112	**129**	144	158	182	204	288	408	1.09	0.31			5.38		
	TF64	60° 90° 120° 150° 170°	26.7	59.7	84.5	120	146	**169**	189	207	239	267	378	534	1.29	0.31	4.38	2.00	5.38	22.0	4.25
	TF72	60° 90° 120° 150° 170°	30.4	67.9	96.0	136	166	**192**	215	235	272	304	429	607	1.32	0.31			5.63		
2	TF88	60° 90° 120° 150° 170°	44.3	99.0	140	**198**	242	280	313	343	396	443	626	885	1.64	0.44	5.63	2.50	6.88	46.0	8.00
	TF96 [1]	60° 90° 120° 150° 170°	55.9	125	177	**250**	306	354	395	433	500	559	791	1120	1.64	0.44	6.88	2.50	7.00	54.0	9.00
3	TF112 [1]	60° 90° 120°	81.0	181	256	**362**	443	512	572	627	724	810	1150	1620	2.00	0.56					
	TF128 [1]	60° 90° 120°	107	239	339	**480**	588	679	759	831	960	1070	1510	2150	2.30	0.56	8.63	350		114	20.0
4	TF160 [1]	60° 90° 120°	166	371	**525**	742	909	1050	1170	1290	1480	1660	2350	3320	3.15	0.63	10.1	4.50		169	27.0

Flow Rate (GPM) = K PSI

*Dimensions are for bar stock, cast sizes may vary.

[1] Three turn nozzles

Standard Materials: Brass, 316 Stainless Steel, PVC, Polypropylene and PTFE **(Poly. not available for TF6 &TF8).** See chart on page 17 for complete list.