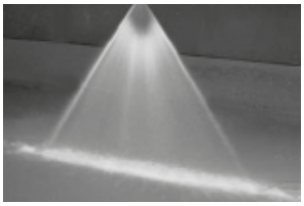
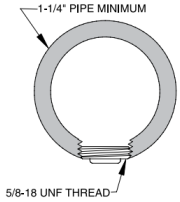
Threaded Nozzles – Flat Spray Series STF





SPRAY CHARACTERISTICS:

STF spray nozzles produce a flat, fan-shaped spray pattern, similar to the F Series. Spray angles are available for a 0° solid stream to 90°, measured at 3 bar. Spray angles generally increase with pressure, as shown in the capacity table below. Spray density tapers off toward the outside edges of these sprays, to permit overlapping of spray patterns while maintaining uniform spray density.

CONSTRUCTION:

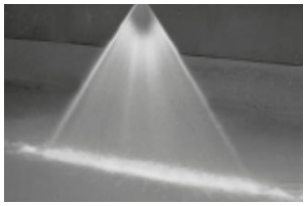
The STF are disc-shaped, with a male 5/8-18 straight thread. They are machined from bar stock, and are one piece construction. Standard materials are 303 stainless steel and 316 stainless steel. Some models are also available in other materials.

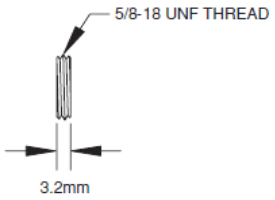
TYPICAL APPLICATIONS:

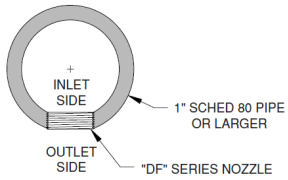
The STF series is designed for applications where space is at a minimum, or where the nozzles must not protrude from the header. Typically the outer surface of the nozzle is flush with the outside of the header.

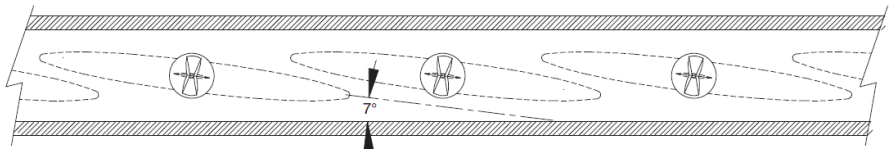
SPRAY-ANGLE @ 3 bar	MODEL NUMBER	Equiv. Orifice Diameter (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)													SPRAY ANGLE @ 3 bar		
			0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar	5 bar	6 bar	8 bar	11 bar	15 bar	20 bar	1.5 bar	3 bar	5 bar
0°	**STF0003**	1.04	0.6	0.68	0.8	1	1.08	1.2	1.4	1.5	1.67	1.93	2.3	2.7	3.1	0°	0°	0°
	STF0007	1.57	1.3	1.6	2	2.3	2.52	2.8	3.2	3.6	3.9	4.5	5.3	6.2	7.1	0°	0°	0°
25°	**STF2507**	1.57	1.3	1.6	2	2.3	2.52	2.8	3.2	3.6	3.9	4.5	5.3	6.2	7.1	19°	25°	26°
50°	**STF50084**	1.73	1.6	1.91	2.3	2.7	3.03	3.3	3.8	4.3	4.7	5.4	6.3	7.4	8.6	42°	50°	57°
	STF5013	2.16	2.5	2.96	3.6	4.2	4.7	5.1	5.9	6.6	7.3	8.4	9.8	12	13	44°	50°	56°
	STF5019	2.59	3.6	4.3	5.3	6.1	6.8	7.5	8.7	9.7	10.6	12.2	14	17	19	45°	50°	54°
60°	**STF6003**	1.04	0.6	0.68	0.8	1	1.08	1.2	1.4	1.5	1.67	1.93	2.3	2.7	3.1	50°	60°	65°
	STF60054	1.4	1	1.23	1.5	1.7	1.95	2.1	2.5	2.8	3.01	3.5	4.1	4.8	5.5	52°	60°	64°
	STF60093	1.83	1.8	2.12	2.6	3	3.4	3.7	4.2	4.7	5.2	6	7	8.2	9.5	56°	60°	66°
	STF6013	2.16	2.5	2.96	3.6	4.2	4.7	5.1	5.9	6.6	7.3	8.4	9.8	12	13	55°	60°	64°
	STF6020	2.67	3.8	4.6	5.6	6.4	7.2	7.9	9.1	10	11.2	12.9	14	18	20	55°	60°	63°
	STF6024	2.92	4.6	5.5	6.7	7.7	8.6	9.5	11	12	13.4	15.5	18	21	25	58°	60°	66°
	STF6033	3.43	6.3	7.5	9.2	11	11.9	13	15	17	18.4	21.3	25	29	34	58°	60°	64°
	STF6040	3.76	7.6	9.1	11	13	14.4	16	18	20	22.3	25.8	30	35	41	57°	60°	62°
	STF6047	4.09	9	10.7	13	15	16.9	19	21	24	26.2	30.3	36	41	48	58°	60°	62°
	STF6088	5.59	17	20.1	25	28	32	35	40	45	49	57	67	78	90	58°	60°	62°
65°	**STF65054**	1.4	1	1.23	1.5	1.7	1.95	2.1	2.5	2.8	3.01	3.5	4.1	4.8	5.5	55°	65°	72°
	STF6513	2.16	2.5	2.96	3.6	4.2	4.7	5.1	5.9	6.6	7.3	8.4	9.8	12	13	57°	65°	70°
	STF6519	2.59	3.6	4.3	5.3	6.1	6.8	7.5	8.7	9.7	10.6	12.2	14	17	19	60°	65°	69°
	STF6520	2.67	3.8	4.6	5.6	6.4	7.2	7.9	9.1	10	11.2	12.9	15	18	20	62°	65°	69°
	STF6524	2.92	4.6	5.5	6.7	7.7	8.6	9.5	11	12	13.4	15.5	18	21	25	62°	65°	67°
	STF6588	5.59	17	20.1	25	28	32	35	40	45	49	57	6	7 78	90	61°	65°	69°
68°	**STF6824**	2.92	4.6	5.5	6.7	7.7	8.6	9.5	11	12	13.4	15.5	18	21	25	65°	68°	70°
80°	**STF8004**	1.19	0.8	0.91	1.1	1.3	1.44	1.6	1.8	2	2.23	2.58	3	3.5	4.1	75°	80°	84°
	STF80054	1.4	1	1.23	1.5	1.7	1.95	2.1	2.5	2.8	3.01	3.5	4.1	4.8	5.5	72°	80°	87°
	STF80084	1.73	1.6	1.87	2.3	2.6	2.95	3.2	3.7	4.2	4.6	5.3	6.2	7.2	8.4	76°	80°	84°
	STF80093	1.83	1.8	2.12	2.6	3	3.4	3.7	4.2	4.7	5.2	6	7	8.2	9.5	74°	80°	84°
	STF8010	1.88	1.9	2.28	2.8	3.2	3.6	3.9	4.6	5.1	5.6	6.4	7.6	8.8	10	75°	80°	86°
	STF8013	2.16	2.5	2.96	3.6	4.2	4.7	5.1	5.9	6.6	7.3	8.4	9.8	12	13	76°	80°	85°
	STF8024	2.92	4.6	5.5	6.7	7.7	8.6	9.5	11	12	13.4	15.5	18	21	25	75°	80°	83°
	STF8033	3.43	6.3	7.5	9.2	11	11.9	13	15	17	18.4	21.3	25	29	34	76°	80°	82°
90°	**STF90054**	1.4	1	1.23	1.5	1.7	1.95	2.1	2.5	2.8	3.01	3.5	4.1	4.8	5.5	82°	90°	96°
	STF90093	1.83	1.8	2.12	2.6	3	3.4	3.7	4.2	4.7	5.2	6	7	8.2	9.5	83°	90°	95°
	STF9013	2.16	2.5	2.96	3.6	4.2	4.7	5.1	5.9	6.6	7.3	8.4	9.8	12	13	85°	90°	93°

Threaded Nozzles – Flat Spray Series DF









10 - 15% overlap is recommended for complete coverage

SPRAY CHARACTERISTICS:

These thin-disc flat spray nozzles are used where the nozzle must not project beyond the wall of the header pipe. Minimum recommended pipe size is 1" schedule 80. Optimum thread engagement occurs on pipes of 1-1/4" schedule 80 and larger. Usual operating pressures are up to 10 bar.

CONSTRUCTION:

Standard materials of construction are 316 stainless steel and 303 stainless steel. Other materials and capacities can be supplied.

MODEL NUMBER	Equiv. Orifice Diameter (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)										SPRAY ANGLE @ 3 bar
		0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	7 bar	10 bar	13 bar	
DF35054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	35°
DF3513	**2.16**	2.5	2.9	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	35°
DF3524	**2.92**	4.6	5.5	6.7	7.7	9.5	11	12	14.5	17.3	20	35°
DF3533	**3.43**	6.3	7.5	9.2	11	13	15	17	19.9	23.8	27	35°
DF4013	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	40°
DF4047	**4.09**	9	11	13	15	19	21	24	28.3	34	39	40°
DF4313	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	43°
DF5013	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	50°
DF55054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	55°
DF55084	**1.73**	1.6	1.9	2.3	2.7	3.3	3.8	4.3	5.1	6.1	6.9	55°
DF5513	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	55°
DF5824	**2.92**	4.6	5.5	6.7	7.7	9.5	11	12	14.5	17.3	20	58°
DF5833	**3.43**	6.3	7.5	9.2	11	13	15	17	19.9	23.8	27	58°
DF6022	**2.79**	4.2	5	6.1	7.1	8.7	10	11	13.3	15.9	18	60°
DF65054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	65°
DF6513	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	65°
DF6515	**2.31**	2.9	3.4	4.2	4.8	5.9	6.8	7.6	9	10.8	12	65°
DF6519	**2.59**	3.6	4.3	5.3	6.1	7.5	8.7	9.7	11.5	13.7	16	65°
DF6524	**2.92**	4.6	5.5	6.7	7.7	9.5	11	12	14.5	17.3	20	65°
DF6840	**3.76**	7.6	9.1	11	13	16	18	20	24.1	28.8	33	68°
DF70054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	70°
DF80054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	80°
DF80084	**1.73**	1.6	1.9	2.3	2.7	3.3	3.8	4.3	5.1	6.1	6.9	80°
DF8013	**2.16**	2.5	3	3.6	4.2	5.1	5.9	6.6	7.8	9.4	11	80°
DF8019	**2.59**	3.6	4.3	5.3	6.1	7.5	8.7	9.7	11.5	13.7	16	80°
DF8024	**2.92**	4.6	5.5	6.7	7.7	9.5	11	12	14.5	17.3	20	80°
DF8033	**3.43**	6.3	7.5	9.2	11	13	15	17	19.9	23.8	27	80°
DF90054	**1.4**	1	1.2	1.5	1.7	2.1	2.5	2.8	3.3	3.9	4.4	90°
DF11006	**1.47**	1.1	1.4	1.7	1.9	2.4	2.7	3.1	3.6	4.3	4.9	110°