

Axial Flow Full-Cone Spray Nozzles Spadflow Series 3SF 05



3SF 05

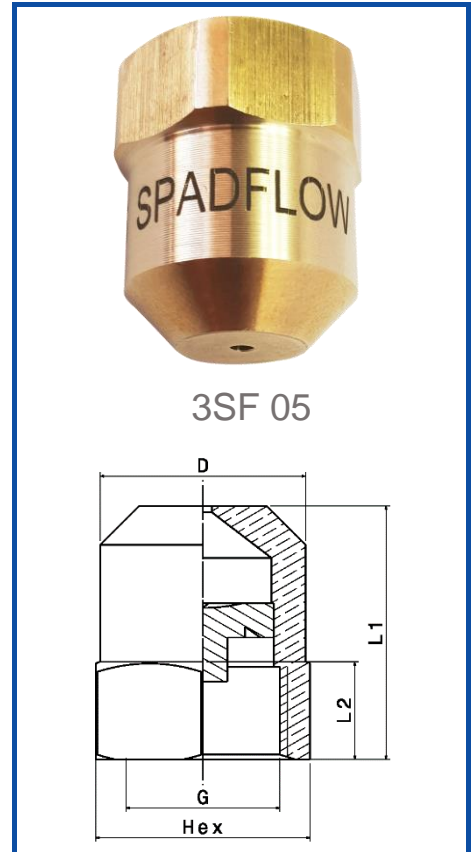
Steel Industry Nozzle

Applications:

- Secondary cooling for continuous casting machine
- Products cooling
- Tank cooling
- Steel cleaning
- Pre-treatment in coating process
- Dust removal in mining and coal plants
- Spray of chemicals
- Leak test

Properties:

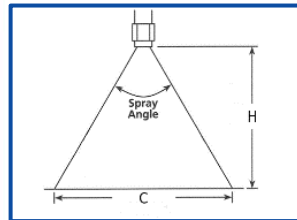
- Sprayed volume is evenly distributed across spray pattern
- Available with a range of spray angle
- Male and female thread available
- Good resistance to clogging



Conn. code	Dimensions [mm]					Weight
	G	L ₁	L ₂	D	Hex/Flats	
038	3/8 BSP	26.5	10	21.5	22	55 g

Material*	Code
Brass	1
S.S.304	2
S.S.316	3

α	C [mm] (range)
	@ H=200 mm
45°	80
50°	90
55°	105
60°	115
65°	130
70°	140
80°	170
90°	200



For higher lengths: $C_2 = \frac{C \times H_2}{200}$

Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 K factor	2.0	2.8	3.0	5.0	7.0	10
45°	3SF 05 020 . 45	2045	1.20	1.70	2.00	2.08	2.68	10.32	3.79
	3SF 05 025 . 45	2545	1.49	2.11	2.50	2.58	3.33	12.82	4.71
	3SF 05 030 . 45	3045	1.80	2.55	3.00	3.12	4.02	15.48	5.69
	3SF 05 035 . 45	3545	2.10	2.97	3.50	3.64	4.70	18.06	6.64
	3SF 05 040 . 45	4045	2.40	3.39	4.00	4.16	5.37	20.65	7.59

Order No.: CODE . MATERIAL

Example.: 3SF 05 040 . 065 . 1

Type 3SF 05 with mentioned Q(lpm)@P(bar), Spray angle: 65° , Brass

Axial Flow Full-Cone Spray Nozzles
 Spadflow Series **3SF 05**



3SF 05

Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 <i>K factor</i>	2.0	2.8	3.0	5.0	7.0	10
45°	3SF 05 047 . 45	4745	2.80	3.96	4.70	4.85	6.26	24.09	8.85
	3SF 05 050 . 45	5045	3.00	4.24	5.00	5.20	6.71	25.81	9.49
	3SF 05 055 . 45	5545	3.29	4.65	5.50	5.69	7.35	28.27	10.39
	3SF 05 060 . 45	6045	3.60	5.09	6.00	6.24	8.05	30.97	11.38
	3SF 05 070 . 45	7045	4.18	5.91	7.00	7.24	9.35	35.96	13.22
	3SF 05 080 . 45	8045	4.80	6.79	8.00	8.31	10.73	41.29	15.18
	3SF 05 100 . 45	10045	5.98	8.45	10.00	10.35	13.36	51.41	18.90
	3SF 05 120 . 45	12045	7.17	10.14	12.00	12.42	16.04	61.69	22.68
50°	3SF 05 060 . 50	6050	3.59	5.07	6.00	6.21	8.02	30.85	11.34
55°	3SF 05 060 . 55	6055	3.59	5.07	6.00	6.21	8.02	30.85	11.34
60°	3SF 05 014 . 60	1460	0.86	1.22	1.44	1.49	1.92	7.40	2.72
	3SF 05 022 . 60	2260	1.29	1.82	2.16	2.23	2.88	11.10	4.08
	3SF 05 025 . 60	2560	1.49	2.11	2.50	2.59	3.34	12.85	4.72
	3SF 05 027 . 60	2760	1.61	2.28	2.70	2.79	3.61	13.88	5.10
	3SF 05 030 . 60	3060	1.79	2.54	3.00	3.11	4.01	15.42	5.67
	3SF 05 035 . 60	3560	2.09	2.96	3.50	3.62	4.68	17.99	6.61
	3SF 05 036 . 60	3660	2.15	3.04	3.60	3.72	4.81	18.49	6.80
	3SF 05 049 . 60	4960	2.93	4.14	4.90	5.07	6.55	25.20	9.27
	3SF 05 060 . 60	6060	3.61	5.11	6.04	6.25	8.07	31.05	11.42
	3SF 05 072 . 60	7260	4.29	6.07	7.18	7.43	9.59	36.90	13.57
3SF 05 165 . 60	16560	9.86	13.95	16.50	17.08	22.05	84.82	31.18	
65°	3SF 05 010 . 65	1065	0.60	0.85	1.00	1.04	1.34	5.14	1.89
	3SF 05 015 . 65	1565	0.90	1.27	1.50	1.55	2.00	7.71	2.83
	3SF 05 016 . 65	1665	0.96	1.35	1.60	1.66	2.14	8.23	3.02
	3SF 05 020 . 65	2065	1.20	1.69	2.00	2.07	2.67	10.28	3.78
	3SF 05 024 . 65	2465	1.40	1.98	2.40	2.42	3.13	12.04	4.43
	3SF 05 025 . 65	2565	1.49	2.11	2.50	2.59	3.34	12.85	4.72
	3SF 05 030 . 65	3065	1.79	2.54	3.00	3.11	4.01	15.42	5.67
	3SF 05 033 . 65	3365	1.96	2.77	3.28	3.39	4.38	16.86	6.20
	3SF 05 035 . 65	3565	2.09	2.96	3.50	3.62	4.68	17.99	6.61
	3SF 05 038 . 65	3865	2.27	3.21	3.80	3.93	5.08	19.54	7.18
	3SF 05 040 . 65	4065	2.39	3.38	4.00	4.14	5.35	20.56	7.56
	3SF 05 042 . 65	4265	2.51	3.55	4.20	4.35	5.61	21.59	7.94
	3SF 05 045 . 65	4565	2.69	3.80	4.50	4.66	6.01	23.13	8.50
	3SF 05 047 . 65	4765	2.81	3.97	4.70	4.86	6.28	24.16	8.88
	3SF 05 050 . 65	5065	3.00	4.24	5.00	5.20	6.71	25.81	9.49
	3SF 05 055 . 65	5565	3.28	4.64	5.50	5.68	7.33	28.22	10.37
	3SF 05 059 . 65	5965	3.50	4.95	5.90	6.06	7.83	30.11	11.07
	3SF 05 060 . 65	6065	3.59	5.07	6.00	6.21	8.02	30.85	11.34
	3SF 05 065 . 65	6565	3.88	5.49	6.50	6.73	8.69	33.42	12.28
	3SF 05 066 . 65	6665	3.94	5.58	6.60	6.83	8.82	33.93	12.47
	3SF 05 070 . 65	7065	4.18	5.92	7.00	7.25	9.35	35.99	13.23
	3SF 05 072 . 65	7265	4.30	6.09	7.20	7.45	9.62	37.01	13.61
	3SF 05 073 . 65	7365	4.36	6.17	7.30	7.56	9.76	37.53	13.80
	3SF 05 075 . 65	7565	4.48	6.34	7.50	7.76	10.02	38.56	14.17
	3SF 05 080 . 65	8065	4.78	6.76	8.00	8.28	10.69	41.13	15.12
	3SF 05 085 . 65	8565	5.08	7.18	8.50	8.80	11.36	43.70	16.06
	3SF 05 090 . 65	9065	5.40	7.64	9.00	9.35	12.07	46.45	17.08
	3SF 05 095 . 65	9565	5.68	8.03	9.50	9.83	12.69	48.84	17.95
	3SF 05 100 . 65	10065	5.98	8.45	10.00	10.35	13.36	51.41	18.90
	3SF 05 120 . 65	12065	7.17	10.14	12.00	12.42	16.04	61.69	22.68
	3SF 05 130 . 65	13065	7.77	10.99	13.00	13.46	17.37	66.84	24.57
	3SF 05 146 . 65	14665	8.73	12.34	14.60	15.11	19.51	75.06	27.59
	3SF 05 150 . 65	15065	8.96	12.67	15.00	15.52	20.04	77.08	28.33
3SF 05 160 . 65	16065	9.55	13.51	16.00	16.54	21.35	82.15	30.20	
3SF 05 165 . 65	16565	9.86	13.95	16.50	17.08	22.05	84.82	31.18	
3SF 05 170 . 65	17065	10.16	14.37	17.00	17.60	22.72	87.39	32.13	
70°	3SF 05 026 . 70	2670	1.55	2.20	2.60	2.69	3.47	13.37	4.91
	3SF 05 052 . 70	5270	3.11	4.39	5.20	5.38	6.95	26.73	9.83
	3SF 05 062 . 70	6270	3.71	5.24	6.20	6.42	8.29	31.87	11.72

Order No.: **CODE . MATERIAL**

Example.: 3SF 05 040 . 065 . 1

Type 3SF 05 with mentioned Q(lpm)@P(bar), Spray angle: 65° , Brass

Axial Flow Full-Cone Spray Nozzles

Spadflow Series 3SF 05



3SF 05

Spray angle	Code	General Code	Flow rate [l/min]						
			P [bar]						
			1.0 <i>K factor</i>	2.0	2.8	3.0	5.0	7.0	10
80°	3SF 05 015 . 80	1580	0.90	1.27	1.50	1.56	2.01	7.74	2.85
	3SF 05 020 . 80	2080	1.20	1.69	2.00	2.07	2.67	10.28	3.78
	3SF 05 025 . 80	2580	1.49	2.11	2.49	2.58	3.33	12.82	4.71
	3SF 05 030 . 80	3080	1.79	2.54	3.00	3.11	4.01	15.42	5.67
	3SF 05 033 . 80	3380	1.96	2.77	3.28	3.39	4.38	16.86	6.20
	3SF 05 035 . 80	3580	2.09	2.96	3.50	3.62	4.68	17.99	6.61
	3SF 05 040 . 80	4080	2.39	3.38	4.00	4.14	5.35	20.56	7.56
	3SF 05 045 . 80	4580	2.69	3.80	4.50	4.66	6.01	23.13	8.50
	3SF 05 050 . 80	5080	2.99	4.23	5.00	5.18	6.68	25.70	9.45
	3SF 05 060 . 80	6080	3.59	5.07	6.00	6.21	8.02	30.85	11.34
	3SF 05 075 . 80	7580	4.50	6.36	7.53	7.79	10.06	38.71	14.23
	3SF 05 080 . 80	8080	4.78	6.76	8.00	8.28	10.69	41.13	15.12
	3SF 05 085 . 80	8580	5.08	7.18	8.50	8.80	11.36	43.70	16.06
	3SF 05 098 . 80	9880	5.86	8.28	9.80	10.14	13.10	50.38	18.52
	3SF 05 102 . 80	10280	6.10	8.62	10.20	10.56	13.63	52.44	19.28
	3SF 05 106 . 80	10680	6.33	8.96	10.60	10.97	14.16	54.49	20.03
	3SF 05 110 . 80	11080	6.57	9.30	11.00	11.39	14.70	56.55	20.79
	3SF 05 118 . 80	11880	7.05	9.97	11.80	12.21	15.77	60.66	22.30
3SF 05 129 . 80	12980	7.71	10.90	12.90	13.35	17.24	66.32	24.38	
3SF 05 150 . 80	15080	8.96	12.68	15.00	15.53	20.04	77.11	28.35	
3SF 05 160 . 80	16080	9.56	13.52	16.00	16.56	21.38	82.25	30.24	
90°	3SF 05 015 . 90	1590	0.90	1.27	1.50	1.56	2.01	7.74	2.85
	3SF 05 020 . 90	2090	1.20	1.70	2.00	2.08	2.68	10.32	3.79
	3SF 05 025 . 90	2590	1.49	2.11	2.50	2.59	3.34	12.85	4.72
	3SF 05 030 . 90	3090	1.79	2.54	3.00	3.11	4.01	15.42	5.67
	3SF 05 035 . 90	3590	2.09	2.96	3.50	3.62	4.67	17.98	6.61
	3SF 05 038 . 90	3890	2.27	3.21	3.80	3.93	5.08	19.54	7.18
	3SF 05 040 . 90	4090	2.39	3.38	4.00	4.14	5.35	20.56	7.56
	3SF 05 045 . 90	4590	2.69	3.80	4.50	4.66	6.01	23.13	8.50
	3SF 05 046 . 90	4690	2.75	3.89	4.60	4.76	6.15	23.65	8.69
	3SF 05 050 . 90	5090	2.99	4.23	5.00	5.18	6.68	25.70	9.45
	3SF 05 055 . 90	5590	3.29	4.65	5.50	5.69	7.35	28.27	10.39
	3SF 05 060 . 90	6090	3.59	5.07	6.00	6.21	8.02	30.85	11.34
	3SF 05 065 . 90	6590	3.88	5.49	6.50	6.73	8.69	33.42	12.28
	3SF 05 074 . 90	7490	4.42	6.25	7.40	7.66	9.89	38.04	13.98
	3SF 05 080 . 90	8090	4.78	6.76	8.00	8.28	10.69	41.13	15.12
	3SF 05 090 . 90	9090	5.38	7.61	9.00	9.32	12.03	46.27	17.01
	3SF 05 095 . 90	9590	5.68	8.03	9.50	9.83	12.69	48.84	17.95
	3SF 05 100 . 90	10090	5.98	8.45	10.00	10.35	13.36	51.41	18.90
3SF 05 110 . 90	11090	6.57	9.30	11.00	11.39	14.70	56.55	20.79	
3SF 05 120 . 90	12090	7.17	10.14	12.00	12.42	16.04	61.69	22.68	
3SF 05 146 . 90	14690	8.73	12.34	14.60	15.11	19.51	75.06	27.59	

* Different materials are available upon request

Order No.: CODE . MATERIAL

Example.: 3SF 05 040 . 065 . 1

Type 3SF 05 with mentioned Q(lpm)@P(bar), Spray angle: 65° , Brass