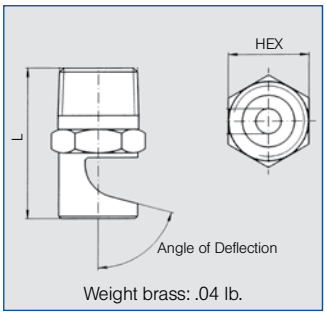
Flat fan nozzles
Tongue-type deflector wide angle
Series 686

Deflector produces moderate impact with a very wide spray angle. Clog resistant. Even distribution.

Applications:
- Foam control for storage tanks, wastewater treatment plants
- Dust suppression
- Light washing
- Spray cooling
- Degreasing and phosphating



Weight brass: .04 lb.

Dimensions (in.)			
Inlet (NPT)	L	HEX	Wt. (lb.)
1/8	.91	7/16	.03
1/4	1.10	9/16	.06
3/8	1.26	11/16	.09
1/2	1.58	7/8	.20

Spray angle	Deflector angle	Ordering no. Type	Material no. 316 SS 17	Brass 30	PVDF 5E	Connection Male NPT 1/8"	1/4"	3/8"	1/2"	Orifice diam. (in.)	Flow Rate (Gallons Per Minute) 10 psi	20 psi	liters per minute 2 bar	30 psi	40 psi	60 psi	80 psi	100 psi	Spray Width B (in.) @ 30 psi H=10"
90°	53°	686. 366	-	○	-	BA	-	-	-	.031	.10	.14	.63	.17	.20	.24	.28	.31	20
	75°	686. 406	-	○	-	BA	-	-	-	.039	.16	.22	1.0	.27	.31	.38	.44	.49	21
	40°	686. 686	-	○	-	-	BC	-	-	.094	.78	1.1	5.0	1.3	1.6	1.9	2.2	2.5	21
	40°	686. 726	-	○	-	BA	-	-	-	.106	.98	1.4	6.3	1.7	2.0	2.4	2.8	3.1	21
	40°	686. 806	-	○	-	-	BC	-	-	.133	1.6	2.2	10.0	2.7	3.1	3.8	4.4	4.9	21
	40°	686. 886	○	-	-	-	BC	-	-	.165	2.5	3.5	16.0	4.3	5.0	6.1	7.0	7.8	21
	40°	686. 926	○	-	-	-	-	BE	-	.185	3.1	4.4	20	5.4	6.2	7.6	8.8	9.8	21
140°	75°	686. 368	○	○	-	BA	-	-	-	.032	.10	.14	.63	.17	.20	.24	.28	.31	54
		686. 408	○	○	-	BA	-	-	-	.039	.16	.22	1.0	.27	.31	.38	.44	.49	54
		686. 448	○	○	-	BA	BC	-	-	.047	.19	.27	1.3	.35	.39	.48	.55	.61	54
		686. 488	○	○	-	BA	BC	-	-	.051	.25	.35	1.6	.43	.50	.61	.70	.78	54
		686. 528	○	○	-	BA	BC	-	-	.059	.31	.44	2.0	.54	.62	.76	.88	.98	54
		686. 568	○	○	○	BA	BC*	-	-	.067	.39	.55	2.5	.67	.78	.95	1.1	1.2	54
		686. 608	○	○	-	BA	BC	-	-	.075	.49	.69	3.2	.86	.98	1.2	1.4	1.5	54
		686. 648	○	○	-	-	BC	-	-	.087	.62	.88	4.0	1.1	1.2	1.5	1.8	2.0	54
		686. 688	○	○	-	BA	BC	-	-	.095	.78	1.1	5.0	1.4	1.6	1.9	2.2	2.5	54
		686. 728	-	○	-	BA	BC	-	-	.106	.98	1.4	6.3	1.7	2.0	2.4	2.8	3.1	54
		686. 768	○	○	-	BA*	BC	-	-	.118	1.2	1.8	8.0	2.2	2.5	3.0	3.5	3.9	54
		686. 808	○	○	-	BA	BC	-	-	.134	1.6	2.2	10.0	2.7	3.1	3.8	4.4	4.9	54
		686. 828	○	○	-	BA	BC	-	-	.142	1.7	2.5	11.2	3.0	3.5	4.3	4.9	5.5	54
		686. 848	○	○	-	BA*	BC	-	-	150	1.9	2.7	12.5	3.4	3.9	4.8	5.5	6.1	54
		686. 868	○	○	-	-	BC	-	-	.158	2.2	3.1	14.0	3.8	4.3	5.3	6.1	6.9	54
		686. 888	○	○	-	-	BC	-	-	165	2.5	3.5	16.0	4.3	5.0	6.1	7.0	7.8	54
		686. 908	○	○	-	-	BC	-	-	.177	2.8	3.9	18.0	4.8	5.6	6.8	7.9	8.8	54
		686. 928	○	-	-	-	-	BE	-	.185	3.1	4.4	20	5.4	6.2	7.6	8.8	9.8	54
		686. 968	○	○	-	-	-	BE	BG	.209	3.9	5.5	25	6.7	7.8	9.5	11.0	12.3	54
		686. 988	○	○	-	-	-	BE	BG	.221	4.3	6.1	28	7.5	8.7	10.6	12.3	13.7	54

* Only available in 316 SS (material no. 17)

Example for ordering:	Type	+	Material no.	+	Conn.	=	Ordering no.
	686. 908	+	17	+	BC	=	686. 908. 17. BC

A listing of alternatives for various assembly possibilities is shown in the Accessories section beginning on page 127.

Conversion formula for the above series: $V_2 = V_1 \sqrt{\frac{P_2}{P_1}}$

(See page 12 for symbol definitions.)