

Pneumatic atomizing nozzles, flat fan, pressure principle, external mixing Series 136.6



Features:

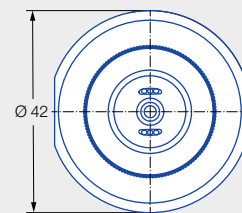
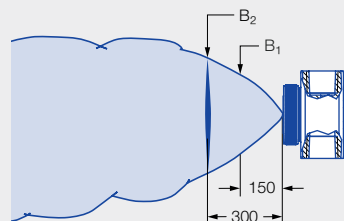
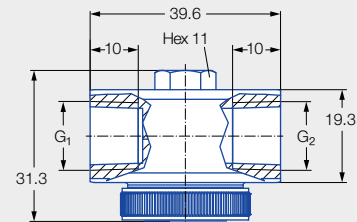
- Fine flat fan atomization
- Liquid pressure principle
- External mixing

Applications:

- Humidification of goods
- Cooling
- Belt humidification
- Atomization of viscous liquids



Series 136.6



Liquid connection G ₁	Air connection G ₂	Screw plug thread (size 11)	Weight [g] (Stainless steel 303)
1/4 BSPP	1/4 BSPP	5/16-24 UNF-2A	220

Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions			
	Type	Mat. no.																		
		1Y	16																	
		Stainless steel 316L	Stainless steel 303		p air [bar]	$\dot{V}$ water [l/h]	$\dot{V}_n$ air [m³/h]	p air [bar]	$\dot{V}$ water [l/h]	$\dot{V}_n$ air [m³/h]	p air [bar]	$\dot{V}$ water [l/h]	$\dot{V}_n$ air [m³/h]	p air [bar]	$\dot{V}$ water [l/h]	$\dot{V}_n$ air [m³/h]	p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]
45°	136.616.xx.A2	●	●	0.40	0.80	1.68	2.50	0.80	2.43	2.40	0.80	3.42	2.50	1.00	3.69	2.80	1.40	0.07	80	115
1.20					1.80	3.10	1.00	2.46	2.90	1.20	3.48	3.10	1.40	3.81	3.40	2.20	0.15	90	130	
1.60					1.92	3.70	1.40	2.58	3.60	1.60	3.51	3.70	1.80	3.87	4.00	3.20	0.20	90	135	
2.00					2.10	4.30	1.80	2.61	4.20	2.00	3.63	4.30	2.20	3.84	4.60	4.00	0.30	95	145	
2.40					2.07	4.90	2.20	2.76	4.80	2.40	3.63	4.90	2.60	3.90	5.20	5.00	0.35	100	145	
2.80					2.19	5.50	2.60	2.73	5.40	2.80	3.63	5.50	3.00	3.93	5.80	-	-	-	-	
3.20					2.19	6.10	3.00	2.73	6.00	3.20	3.63	6.10	3.40	3.90	6.40	-	-	-	-	
3.60					2.22	6.70	3.60	2.76	6.70	3.60	3.66	6.70	3.80	3.93	7.00	-	-	-	-	
4.00					2.22	7.30	4.00	2.76	7.30	4.00	3.69	7.30	4.20	3.96	7.60	-	-	-	-	
4.40					2.22	7.90	4.40	2.76	7.90	4.40	3.69	7.90	4.60	3.93	8.20	-	-	-	-	
4.80					2.22	8.50	4.80	2.76	8.50	4.80	3.69	8.40	5.00	3.93	8.80	-	-	-	-	
5.20					2.22	9.10	5.20	2.76	9.10	5.20	3.66	9.10	5.40	3.93	9.40	-	-	-	-	
5.60					2.22	9.60	5.60	2.76	9.70	5.60	3.66	9.60	5.80	3.87	10.00	-	-	-	-	
6.00					2.22	10.20	6.00	2.73	10.20	6.00	3.66	10.20	6.00	3.87	10.20	-	-	-	-	

Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions			
	Type	Mat. no.																		
		1Y	16																	
		Stainless steel 316L	Stainless steel 303		p air [bar]	V̇ water [l/h]	V̇n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇n air [m³/h]	p air [bar]	p water [bar]	B1 [mm]	B2 [mm]
45°	136.635.xx.A2	●	●	0.50	0.80	2.37	2.50	0.80	3.45	2.40	0.80	4.80	2.40	1.00	5.34	2.80	1.40	0.07	85	120
					1.20	2.61	3.10	1.20	3.54	3.10	1.20	5.10	3.10	1.40	5.37	3.40	2.20	0.15	95	130
					1.60	2.85	3.70	1.60	3.66	3.70	1.60	5.01	3.70	1.80	5.46	4.00	3.20	0.20	95	135
					2.00	3.03	4.30	2.00	3.72	4.30	2.10	5.10	4.30	2.20	5.46	4.60	4.00	0.30	100	140
					2.40	3.12	4.90	2.40	3.90	4.90	2.40	5.13	4.90	2.60	5.58	5.20	5.00	0.35	100	145
					2.80	3.15	5.50	2.80	3.87	5.50	2.80	5.16	5.50	3.00	5.58	5.80	-	-	-	-
					3.20	3.21	6.10	3.20	3.96	6.10	3.20	5.22	6.10	3.40	5.58	6.40	-	-	-	-
					3.60	3.18	6.70	3.60	3.96	6.70	3.60	5.25	6.70	3.80	5.58	7.00	-	-	-	-
					4.00	3.21	7.30	4.00	3.96	7.20	4.00	5.22	7.30	4.20	5.58	7.60	-	-	-	-
					4.40	3.21	7.90	4.40	3.96	7.90	4.40	5.22	7.90	4.60	5.58	8.10	-	-	-	-
					4.80	3.21	8.40	4.80	3.96	8.40	4.80	5.22	8.40	5.00	5.58	8.70	-	-	-	-
					5.20	3.21	9.00	5.20	3.96	9.00	5.20	5.22	9.00	5.40	5.58	9.30	-	-	-	-
					5.60	3.12	9.60	5.60	3.90	9.60	5.60	5.22	9.60	5.80	5.58	9.90	-	-	-	-
					6.00	3.18	10.20	6.00	3.84	10.20	6.00	5.16	10.20	6.00	5.58	10.20	-	-	-	-
	136.654.xx.A2	●	●	0.70	0.80	5.25	2.40	0.80	7.29	2.40	1.20	10.11	3.10	1.60	11.07	3.70	1.40	0.07	95	135
					1.20	5.64	3.10	1.20	7.44	3.10	1.60	10.23	3.70	2.00	11.22	4.30	2.20	0.15	100	150
					1.60	5.79	3.70	1.60	7.62	3.70	2.00	10.38	4.30	2.40	11.28	4.90	3.20	0.20	105	160
					2.00	6.18	4.30	2.00	7.86	4.30	2.40	10.47	4.90	2.80	11.31	5.50	4.00	0.30	105	160
					2.40	6.24	4.90	2.40	7.92	4.90	2.80	10.59	5.50	3.20	11.43	6.10	5.00	0.35	105	160
					2.80	6.27	5.50	2.80	8.04	5.50	3.20	10.59	6.10	3.60	11.46	6.60	-	-	-	-
					3.20	6.39	6.10	3.20	8.13	6.10	3.60	10.62	6.70	4.00	11.43	7.20	-	-	-	-
					3.60	6.42	6.60	3.60	8.13	6.70	4.00	10.62	7.20	4.40	11.37	7.80	-	-	-	-
					4.00	6.45	7.20	4.00	8.13	7.20	4.40	10.62	7.80	4.80	11.37	8.40	-	-	-	-
					4.40	6.42	7.80	4.40	8.07	7.80	4.80	10.59	8.40	5.20	11.34	9.00	-	-	-	-
					4.80	6.30	8.40	4.80	8.04	8.40	5.20	10.56	9.00	5.60	11.22	9.60	-	-	-	-
					5.20	6.24	9.00	5.20	7.86	9.00	5.60	10.50	9.60	6.00	11.16	10.10	-	-	-	-
					5.60	6.09	9.60	5.60	7.83	9.60	6.00	10.35	10.20	-	-	-	-	-	-	-
					6.00	5.85	10.20	6.00	7.59	10.20	-	-	-	-	-	-	-	-	-	-
60°	136.626.xx.A2	●	●	0.40	0.80	1.83	2.80	0.80	2.49	2.80	0.80	3.48	2.80	0.80	3.78	2.80	1.60	0.07	85	135
					1.20	1.98	3.60	1.20	2.58	3.50	1.20	3.60	3.50	1.20	3.87	3.60	2.40	0.15	90	140
					1.60	2.10	4.30	1.60	2.70	4.20	1.60	3.66	4.30	1.60	3.90	4.20	3.20	0.20	90	140
					2.00	2.16	4.90	2.00	2.82	4.90	2.00	3.69	4.90	2.00	3.96	4.90	4.00	0.30	100	145
					2.40	2.25	5.60	2.40	2.85	5.60	2.40	3.69	5.60	2.40	3.96	5.60	5.20	0.35	105	150
					2.80	2.34	6.30	2.80	2.88	6.30	2.80	3.72	6.30	2.80	4.02	6.30	-	-	-	-
					3.20	2.31	7.00	3.20	2.88	7.00	3.20	3.78	7.00	3.20	3.99	7.00	-	-	-	-
					3.60	2.34	7.60	3.60	2.88	7.70	3.60	3.78	7.60	3.60	4.02	7.70	-	-	-	-
					4.00	2.40	8.40	4.00	2.94	8.40	4.00	3.81	8.30	4.00	4.05	8.30	-	-	-	-
					4.40	2.40	9.00	4.40	2.91	9.00	4.40	3.81	9.00	4.40	4.02	9.00	-	-	-	-
					4.80	2.40	9.70	4.80	2.97	9.70	4.80	3.81	9.70	4.80	4.08	9.70	-	-	-	-
					5.20	2.43	10.40	5.20	2.97	10.40	5.20	3.81	10.40	5.20	4.05	10.40	-	-	-	-
					5.60	2.43	11.20	5.60	2.97	11.10	5.60	3.81	11.10	5.60	4.05	11.00	-	-	-	-
					6.00	2.43	11.80	6.00	2.97	11.80	6.00	3.81	11.80	6.00	4.05	11.80	-	-	-	-





Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions			
	Type	Mat. no.																		
		1Y	16		0.07			0.15			0.30			0.35						
		Stainless steel 316L	Stainless steel 303		p air [bar]	V̇ water [l/h]	V̇ _n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇ _n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇ _n air [m³/h]	p air [bar]	V̇ water [l/h]	V̇ _n air [m³/h]	p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]
60°	136.645.xx.A2	●	●	0.50	0.80	2.73	2.80	0.80	3.69	2.80	1.00	5.16	3.20	1.00	5.55	3.10	1.60	0.07	100	140
					1.20	2.82	3.50	1.20	3.87	3.50	1.40	5.31	3.90	1.40	5.64	3.90	2.40	0.15	110	150
					1.60	3.09	4.20	1.60	3.99	4.20	1.80	5.37	4.60	1.80	5.67	4.60	3.20	0.20	115	155
					2.00	3.27	4.90	2.00	4.11	4.90	2.20	5.37	5.20	2.20	5.76	5.20	4.00	0.30	125	160
					2.40	3.36	5.60	2.40	4.17	5.60	2.60	5.43	5.90	2.60	5.82	5.90	5.20	0.35	130	165
					2.80	3.39	6.20	2.80	4.20	6.30	3.00	5.49	6.60	3.00	5.82	6.60	–	–	–	–
					3.20	3.45	7.00	3.20	4.26	7.00	3.40	5.49	7.20	3.40	5.88	7.30	–	–	–	–
					3.60	3.48	7.60	3.60	4.29	7.60	3.80	5.55	8.00	3.80	5.88	8.00	–	–	–	–
					4.00	3.51	8.30	4.00	4.32	8.30	4.20	5.55	8.60	4.20	5.88	8.70	–	–	–	–
					4.40	3.54	9.00	4.40	4.35	9.00	4.60	5.58	9.30	4.60	5.94	9.30	–	–	–	–
					4.80	3.57	9.70	4.80	4.38	9.70	5.00	5.55	10.00	5.00	5.94	10.10	–	–	–	–
					5.20	3.57	10.40	5.20	4.35	10.40	5.40	5.61	10.70	5.40	5.94	10.70	–	–	–	–
					5.60	3.60	11.00	5.60	4.35	11.10	5.80	5.61	11.40	5.80	5.94	11.40	–	–	–	–
					6.00	3.60	11.70	6.00	4.38	11.70	6.00	5.61	11.80	6.00	5.97	11.80	–	–	–	–
	136.664.xx.A2	●	●	0.70	0.80	5.46	2.80	1.00	7.68	3.20	1.00	10.50	3.20	1.00	11.28	3.20	1.60	0.07	110	140
					1.20	5.91	3.50	1.40	7.95	3.90	1.40	10.71	3.90	1.40	11.52	3.90	2.40	0.15	130	160
					1.60	6.15	4.20	1.80	8.13	4.60	1.80	10.83	4.60	1.80	11.58	4.50	3.20	0.20	140	170
					2.00	6.42	4.90	2.20	8.34	5.30	2.20	11.01	5.30	2.20	11.70	5.20	4.00	0.30	150	180
					2.40	6.63	5.60	2.60	8.46	5.90	2.60	11.07	5.90	2.60	11.79	5.90	5.20	0.35	155	200
					2.80	6.75	6.30	3.00	8.58	6.60	3.00	11.16	6.60	3.00	11.88	6.60	–	–	–	–
					3.20	6.93	6.90	3.40	8.67	7.30	3.40	11.19	7.30	3.40	11.94	7.30	–	–	–	–
					3.60	6.99	7.60	3.80	8.73	8.00	3.80	11.25	8.00	3.80	12.00	8.00	–	–	–	–
					4.00	7.05	8.30	4.20	8.76	8.70	4.20	11.28	8.60	4.20	12.03	8.70	–	–	–	–
					4.40	7.11	9.00	4.60	8.82	9.30	4.60	11.34	9.40	4.60	12.06	9.40	–	–	–	–
					4.80	7.11	9.70	5.00	8.82	10.10	5.00	11.37	10.00	5.00	12.06	10.10	–	–	–	–
					5.20	7.17	10.40	5.40	8.82	10.70	5.40	11.37	10.70	5.40	12.09	10.70	–	–	–	–
					5.60	7.11	11.10	5.80	8.85	11.40	5.80	11.40	11.40	5.80	12.12	11.40	–	–	–	–
					6.00	7.20	11.80	6.00	8.85	11.80	6.00	11.40	11.70	6.00	12.15	11.80	–	–	–	–
	136.673.xx.A2	●	●	1.00	0.60	13.89	5.60	1.00	18.51	7.60	1.60	24.81	10.20	2.00	26.61	11.80	1.60	0.07	115	160
					1.00	14.28	7.60	1.40	18.51	9.30	2.00	24.66	11.70	2.40	26.31	13.50	2.40	0.15	120	160
					1.40	14.28	9.40	1.80	18.33	11.00	2.40	24.42	13.30	2.80	25.65	15.10	3.20	0.20	120	160
					1.80	14.10	11.00	2.20	17.91	12.70	2.80	23.52	15.10	3.20	24.57	16.60	4.00	0.30	120	165
					2.20	13.68	12.60	2.60	17.37	14.20	3.20	22.47	16.60	3.60	23.28	18.30	5.20	0.35	120	170
					2.60	13.62	14.20	3.00	16.65	15.90	3.60	21.30	18.40	4.00	21.93	19.90	–	–	–	–
					3.00	13.29	18.90	3.40	15.93	17.30	4.00	20.10	19.80	4.40	20.34	21.50	–	–	–	–
					3.40	12.87	17.40	3.80	15.06	19.00	4.40	18.78	21.50	4.80	19.20	23.10	–	–	–	–
					3.80	12.57	19.10	4.20	14.58	20.80	4.80	17.52	23.20	5.20	18.06	24.70	–	–	–	–
					4.20	12.18	20.80	4.60	13.83	22.30	5.20	16.71	24.80	5.60	17.01	26.30	–	–	–	–
					4.60	11.79	22.40	5.00	13.08	24.00	5.60	15.63	26.40	6.00	15.87	28.00	–	–	–	–
					5.00	10.95	24.00	5.40	12.30	25.60	5.80	15.12	27.30	–	–	–	–	–	–	–
					5.40	10.44	25.60	5.80	11.52	27.20	6.00	14.76	28.00	–	–	–	–	–	–	–
					5.80	9.57	27.20	6.00	11.04	28.10	–	–	–	–	–	–	–	–	–	–
					6.00	8.97	28.10	–	–	–	–	–	–	–	–	–	–	–	–	–

Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions			
	Type	Mat. no.																		
		1Y	16		0.07			0.15			0.30			0.35						
		Stainless steel 316L	Stainless steel 303		p air [bar]	v̇ water [l/h]	v̇ _n air [m³/h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m³/h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m³/h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m³/h]	p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]
60°	136.682.xx.A2	●	●	1.50	1.00	22.41	7.50	1.40	28.95	9.30	1.80	41.22	11.10	2.00	44.04	11.80	1.60	0.07	110	155
					1.40	20.19	9.30	1.80	26.07	10.90	2.20	34.92	12.60	2.40	39.09	13.40	2.40	0.15	120	155
					1.80	18.75	11.00	2.20	23.94	12.50	2.60	33.18	14.20	2.80	35.16	15.10	3.20	0.20	120	160
					2.20	17.88	12.50	2.60	22.23	14.30	3.00	30.45	15.90	3.20	32.22	16.70	4.00	0.30	120	165
					2.60	17.10	14.20	3.00	21.12	15.90	3.40	28.29	17.50	3.60	30.18	18.30	5.20	0.35	120	175
					3.00	16.47	15.90	3.40	20.10	17.50	3.80	26.64	19.10	4.00	28.32	19.90	–	–	–	–
					3.40	16.08	17.50	3.80	19.44	19.10	4.20	25.35	20.70	4.40	26.94	21.50	–	–	–	–
					3.80	15.90	19.10	4.20	18.99	20.70	4.60	24.24	22.30	4.80	25.59	23.10	–	–	–	–
					4.20	15.90	20.70	4.60	18.45	22.30	5.00	23.13	24.00	5.20	24.36	24.80	–	–	–	–
					4.60	15.81	22.30	5.00	18.18	24.00	5.40	22.14	25.50	5.60	23.28	26.40	–	–	–	–
					5.00	15.21	23.90	5.40	17.25	25.40	5.80	21.12	27.20	6.00	22.17	28.00	–	–	–	–
					5.40	13.92	25.50	5.80	15.72	27.20	6.00	20.67	28.00	–	–	–	–	–	–	–
					5.80	12.09	27.20	6.00	14.91	28.00	–	–	–	–	–	–	–	–	–	–
					6.00	11.07	28.00	–	–	–	–	–	–	–	–	–	–	–	–	–
	136.691.xx.A2	●	●	2.50	1.40	52.00	13.80	2.00	67.30	17.50	2.60	92.30	21.20	2.60	102.10	21.20	1.60	0.07	150	200
					1.80	50.00	16.30	2.40	64.60	20.10	3.00	87.70	23.60	3.00	97.20	23.70	2.40	0.15	160	205
					2.20	48.60	18.80	2.80	62.00	22.50	3.40	84.30	26.00	3.40	92.50	26.10	3.20	0.20	160	205
					2.60	47.50	21.30	3.20	60.40	24.90	3.80	80.70	28.50	3.80	88.40	28.50	4.00	0.30	160	210
					3.00	46.50	23.70	3.60	58.00	27.30	4.20	77.00	30.90	4.20	85.20	31.00	5.20	0.35	150	210
					3.40	45.40	26.10	4.00	56.20	29.80	4.60	74.40	33.40	4.60	81.30	33.40	–	–	–	–
					3.80	44.40	28.60	4.40	54.20	32.10	5.00	71.10	35.90	5.00	78.20	35.80	–	–	–	–
					4.20	42.90	31.00	4.80	52.40	34.70	5.40	68.10	38.30	5.40	74.30	38.20	–	–	–	–
					4.60	41.50	33.40	5.20	49.90	37.10	5.80	64.30	40.80	5.80	71.10	40.70	–	–	–	–
					5.00	39.90	35.80	5.60	48.10	39.50	6.00	63.20	42.00	6.00	68.90	41.90	–	–	–	–
					5.40	38.90	38.30	6.00	46.40	42.00	–	–	–	–	–	–	–	–	–	–
					5.60	38.50	39.40	–	–	–	–	–	–	–	–	–	–	–	–	–

Ordering Type + Material no. = Ordering no.
example: 136.682.xx.A2 + 1Y = 136.682.1Y.A2