

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

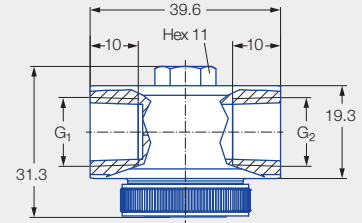


Features:

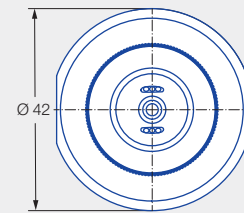
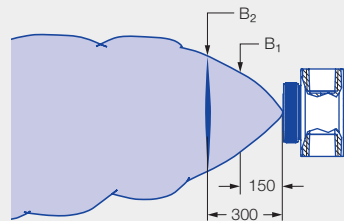
- Fine flat fan atomization
- Liquid pressure principle
- External mixing

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.		0.07				0.15				0.30				0.35				
		1Y		16	p air [bar]	v̇ water [l/h]	v̇ _n air [m ³ /h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m ³ /h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m ³ /h]	p air [bar]	v̇ water [l/h]	v̇ _n air [m ³ /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 \varnothing [mm]	Liquid pressure p [bar]									Spray dimensions							
	Type	Mat. no.		0.07			0.15			0.30			0.35			p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]	
		1Y		16	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]					\dot{V}_n air [m ³ /h]
		Stainless steel 316L		Stainless steel 303																
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.		0.07			0.15			0.30			0.35			p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]	
		1Y		16	p air [bar]	V̇ water [l/h]	V̇ _n air [m ³ /h]	p air [bar]	V̇ water [l/h]	V̇ _n air [m ³ /h]	p air [bar]	V̇ water [l/h]	V̇ _n air [m ³ /h]	p air [bar]	V̇ water [l/h]					V̇ _n air [m ³ /h]
		Stainless steel 316L		Stainless steel 303																
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 \varnothing [mm]	Liquid pressure p [bar]												Spray dimensions				
	Mat. no.			0.07			0.15			0.30			0.35							
	1Y	16		p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	\dot{V} water [l/h]	\dot{V}_n air [m ³ /h]	p air [bar]	p water [bar]	B ₁ [mm]	B ₂ [mm]	
	Stainless steel 316L	Stainless steel 303																		
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