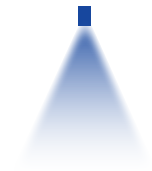


Pneumatic atomizing nozzles, full cone, siphon principle, external mixing Series 136.3

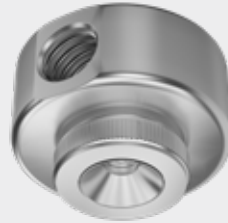


Features:

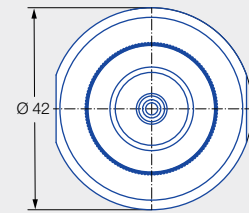
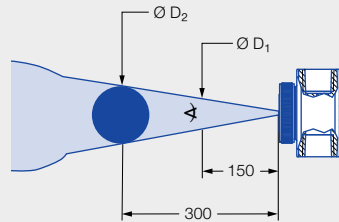
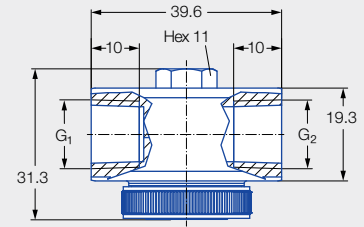
- Particularly fine full cone atomization
- Siphon principle
- External mixing

Applications:

- Cooling
- Atomization of viscous liquids
- Chemical industry



Series 136.3



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]	Air		V̇ water [l/h]									Spray dimensions			
	Type	Mat. no.					Water column [mm WS]					Aspiration height [mm WS]				p air [bar]	Aspiration height [mm WS]	Ø D ₁ [mm]	Ø D ₂ [mm]
		1Y	16																
		Stainless steel 316L	Stainless steel 303																
					p [bar]	V̇ _n [m³/h]	150	300	450	100	200	300	600	900					
20°	136.316.xx.A2	●	●	0.40	0.60	0.70	–	1.38	1.32	–	–	–	–	–	1.40	300	60	110	
0.80					0.90	1.29	1.44	1.38	–	–	–	–	–	3.20	300	60	120		
1.20					1.10	1.47	1.62	1.53	1.02	0.84	–	–	–	4.80	300	80	135		
1.40					1.20	1.50	1.68	1.62	1.14	0.96	0.66	–	–	6.00	300	70	120		
1.80					1.40	1.62	1.80	1.71	1.26	1.11	0.90	–	–	–	–	–	–		
2.00					1.60	1.68	1.86	1.77	1.32	1.17	0.96	–	–	–	–	–	–		
2.40					1.80	1.74	1.92	1.86	1.44	1.32	1.14	0.51	–	–	–	–	–		
2.60					1.90	1.80	1.98	1.89	1.50	1.32	1.20	0.63	–	–	–	–	–		
3.00					2.10	1.92	2.07	1.95	1.59	1.44	1.29	0.84	0.39	–	–	–	–		
3.20					2.20	1.95	2.10	1.98	1.65	1.50	1.35	0.96	0.48	–	–	–	–		
3.60					2.40	2.07	2.19	2.10	1.80	1.65	1.50	1.14	0.72	–	–	–	–		
3.80					2.60	2.13	2.25	2.16	1.83	1.71	1.59	1.23	0.81	–	–	–	–		
4.20					2.80	2.22	2.37	2.28	1.95	1.80	1.68	1.38	1.08	–	–	–	–		
4.40					2.90	2.25	2.40	2.34	1.98	1.89	1.77	1.44	1.14	–	–	–	–		
4.80					3.10	2.25	2.34	2.28	1.92	1.86	1.77	1.50	1.14	–	–	–	–		
5.00					3.20	2.25	2.31	2.22	1.89	1.83	1.71	1.41	0.84	–	–	–	–		
5.40					3.40	2.13	2.25	2.16	1.80	1.68	1.56	1.05	0.30	–	–	–	–		
5.60					3.60	2.07	2.19	2.10	1.74	1.65	1.44	0.72	–	–	–	–	–		
6.00					3.80	1.98	2.10	1.95	1.56	1.50	1.26	–	–	–	–	–	–		





Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Air		V̇ water [l/h]								Spray dimensions			
	Type	Mat. no.					Water column [mm WS]			Aspiration height [mm WS]								
		1Y	16		150	300	450	100	200	300	600	900	p air [bar]	Aspiration height [mm WS]	Ø D ₁ [mm]	Ø D ₂ [mm]		
		Stainless steel 316L	Stainless steel 303															
20°	136.324.xx.A2	●	●	0.70	0.80	0.90	–	–	–	2.49	1.71	–	–	–	1.20	300	60	115
1.20					1.10	–	–	–	3.12	2.53	1.86	–	–	3.20	300	65	125	
1.40					1.20	–	–	–	3.36	2.78	2.22	–	–	4.80	300	70	135	
1.80					1.50	–	–	–	3.75	3.22	2.67	–	–	6.00	300	80	135	
2.00					1.60	–	–	–	3.96	3.39	2.85	0.66	–	–	–	–	–	
2.40					1.80	–	–	–	4.29	3.73	3.21	1.41	–	–	–	–	–	
2.60					1.90	–	–	–	4.41	3.91	3.39	1.68	–	–	–	–	–	
3.00					2.10	5.43	–	–	4.71	4.18	3.75	2.07	–	–	–	–	–	
3.20					2.20	5.55	–	–	4.80	4.31	3.90	2.25	–	–	–	–	–	
3.60					2.40	5.82	–	–	5.07	4.56	4.20	2.61	–	–	–	–	–	
3.80					2.60	6.03	–	–	5.22	4.72	4.38	2.88	2.10	–	–	–	–	
4.20					2.80	6.30	6.66	–	5.64	5.15	4.71	3.21	2.85	–	–	–	–	
4.40					2.90	6.36	6.72	7.05	5.88	5.38	4.92	3.60	2.97	–	–	–	–	
4.80					3.10	6.27	6.57	6.84	5.97	5.47	5.22	3.93	1.93	–	–	–	–	
5.00					3.20	6.12	6.42	6.75	5.88	5.36	5.10	4.05	–	–	–	–	–	
5.40					3.40	5.82	6.12	6.48	5.49	5.03	4.71	3.81	–	–	–	–	–	
5.60					3.50	5.67	5.97	6.30	5.22	4.84	4.53	3.63	–	–	–	–	–	
6.00					3.80	5.31	5.58	6.00	4.80	4.48	4.08	1.92	–	–	–	–	–	
136.334.xx.A2	●	●	0.70	0.60	1.20	–	–	–	2.19	–	–	–	–	0.80	300	65	120	
				0.80	1.40	–	–	–	2.64	2.28	1.44	–	–	3.20	300	65	115	
				1.20	1.80	–	–	–	3.39	3.00	2.73	0.78	–	4.80	300	70	115	
				1.40	2.00	–	–	–	3.69	3.33	3.06	1.11	–	6.00	300	75	120	
				1.80	2.30	5.19	–	–	4.20	3.87	3.51	2.16	–	–	–	–	–	
				2.00	2.50	5.43	5.97	6.42	4.47	4.08	3.78	2.58	0.84	–	–	–	–	
				2.40	2.80	5.79	6.27	6.72	4.86	4.53	4.20	3.30	1.44	–	–	–	–	
				2.60	3.00	6.00	6.48	6.90	4.98	4.68	4.41	3.57	1.77	–	–	–	–	
				3.00	3.40	6.30	6.75	7.14	5.37	5.07	4.71	3.87	2.31	–	–	–	–	
				3.20	3.50	6.42	6.90	7.29	5.52	5.19	4.89	4.02	2.52	–	–	–	–	
				3.60	3.90	6.75	7.17	7.59	5.82	5.55	5.19	4.29	3.42	–	–	–	–	
				3.80	4.00	6.87	7.32	7.80	6.03	5.73	5.37	4.47	3.81	–	–	–	–	
				4.20	4.40	7.29	7.80	8.34	6.39	6.09	5.79	4.83	4.17	–	–	–	–	
				4.40	4.60	7.62	8.16	8.73	6.69	6.39	6.09	5.13	4.38	–	–	–	–	
				4.80	4.90	8.37	8.85	9.21	7.32	6.99	6.69	5.76	4.86	–	–	–	–	
				5.00	5.10	8.52	8.85	9.15	7.71	7.32	7.05	6.06	5.19	–	–	–	–	
				5.40	5.40	8.34	8.64	8.88	7.71	7.53	7.29	6.48	5.67	–	–	–	–	
				5.60	5.60	8.19	8.49	8.76	7.59	7.41	7.20	6.45	5.73	–	–	–	–	
6.00	5.90	7.86	8.16	8.43	7.26	7.05	6.84	6.15	5.64	–	–	–	–					

Spray angle	Ordering no.			Narrowest free cross section Ø [mm]	Air		V̇ water [l/h]								Spray dimensions			
	Type	Mat. no.					Water column [mm WS]			Aspiration height [mm WS]								
		1Y	16		150	300	450	100	200	300	600	900	p air [bar]	Aspiration height [mm WS]	Ø D ₁ [mm]	Ø D ₂ [mm]		
		Stainless steel 316L	Stainless steel 303															
20°	136.342.xx.A2	●	●	1.50	1.40	3.60	–	–	–	8.82	–	–	3.93	–	1.80	300	70	120
1.80					4.20	–	–	–	9.45	8.49	7.50	5.22	3.39	3.00	300	70	120	
2.00					4.50	11.97	–	–	9.75	8.91	7.95	5.76	4.05	4.20	300	70	120	
2.40					5.20	12.18	–	–	10.26	9.51	8.73	6.75	5.19	6.00	300	70	120	
2.60					5.50	12.27	13.32	–	10.47	9.75	9.03	7.14	5.58	–	–	–	–	
3.00					6.10	12.27	13.23	14.16	10.65	10.05	9.42	7.74	6.39	–	–	–	–	
3.20					6.40	12.30	13.17	14.07	10.74	10.23	9.63	8.13	6.81	–	–	–	–	
3.60					7.00	12.42	13.20	14.07	11.01	10.53	10.05	8.85	7.86	–	–	–	–	
3.80					7.30	12.54	13.26	14.10	11.28	10.86	10.44	9.30	8.46	–	–	–	–	
4.20					8.00	13.17	13.83	14.49	12.12	11.76	11.40	10.41	9.69	–	–	–	–	
4.40					8.30	13.53	14.13	14.73	12.48	12.15	11.76	10.80	10.08	–	–	–	–	
4.80					8.90	13.98	14.52	15.15	12.99	12.63	12.18	11.19	10.29	–	–	–	–	
5.00					9.20	14.04	14.52	15.15	13.05	12.66	12.30	11.16	10.11	–	–	–	–	
5.40					9.80	13.74	14.31	14.94	12.66	12.24	11.79	10.62	9.21	–	–	–	–	
5.60					10.10	13.35	14.04	14.64	12.27	11.82	11.37	10.08	8.52	–	–	–	–	
6.00					10.80	12.21	12.90	–	10.98	10.50	10.17	8.70	7.05	–	–	–	–	
136.351.xx.A2	●	●	2.50	3.20	11.50	–	–	–	–	38.92	–	–	–	3.80	300	95	135	
				3.60	12.50	–	–	–	45.73	41.94	–	33.17	–	4.60	300	95	145	
				3.80	13.10	–	–	–	47.81	45.14	42.29	35.36	–	5.40	300	100	150	
				4.20	14.20	–	–	–	51.61	49.07	46.46	39.58	29.94	6.00	300	95	150	
				4.40	14.80	–	–	–	53.10	50.87	48.30	41.59	31.59	–	–	–	–	
				4.80	15.90	–	63.39	–	55.30	53.40	51.26	45.06	34.68	–	–	–	–	
				5.00	16.50	–	63.75	66.69	56.05	54.15	52.18	46.29	35.88	–	–	–	–	
				5.40	17.60	61.12	64.17	66.72	56.71	55.04	53.17	47.62	37.83	–	–	–	–	
				5.60	18.10	60.93	63.87	66.48	56.66	55.04	53.22	47.68	38.43	–	–	–	–	
6.00	19.20	59.89	62.88	65.43	55.69	53.98	52.11	45.78	37.05	–	–	–	–					

Ordering Type + Material no. = Ordering no.
example: 136.342.xx.A2 + 1Y = 136.342.1Y.A2