

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

Features:

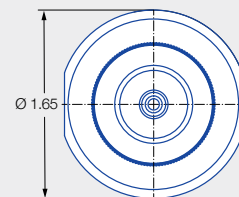
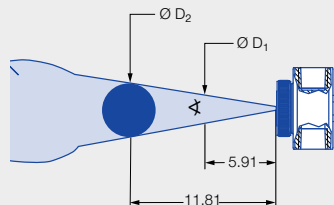
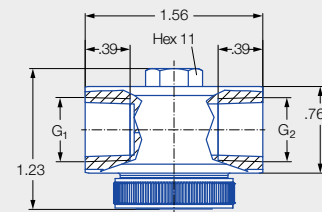
- Particularly fine full cone atomization
- Gravity/Siphon principle
- External mixing

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 [lb] (Stainless steel 303)
1/4 NPT	1/4 NPT	5/16-24 UNF-2A	0.5

Spray angle	Ordering number			Narrowest free cross section Ø [in]	Air		V̇ water [gal/h]									Spray dimensions			
	Type	Material number					Water column [in WC]			Aspiration height [in WC]									
		1Y	16				p [psf]	V̇ _n [SCFM]	6	12	18	4	8	12	24	35	p air [psf]	Aspiration height [in WS]	Ø D ₁ [in]
		Stainless steel 316L	Stainless steel 303																
20°	136.316.xx.B2	●	●	0.02	9	0.4	—	0.4	0.3	—	—	—	—	—	20	12	2	4	
12					0.5	0.3	0.4	0.4	—	—	—	—	—	46	12	2	5		
17					0.6	0.4	0.4	0.4	0.3	0.2	—	—	—	70	12	3	5		
20					0.7	0.4	0.4	0.4	0.3	0.3	0.2	—	—	87	12	3	5		
26					0.8	0.4	0.5	0.5	0.3	0.3	0.2	—	—	—	—	—	—		
29					0.9	0.4	0.5	0.5	0.3	0.3	0.3	—	—	—	—	—	—		
35					1.1	0.5	0.5	0.5	0.4	0.3	0.3	0.1	—	—	—	—	—		
38					1.1	0.5	0.5	0.5	0.4	0.3	0.3	0.2	—	—	—	—	—		
44					1.2	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	—	—	—	—		
46					1.3	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.1	—	—	—	—		
52					1.4	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	—	—	—	—		
55					1.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.2	—	—	—	—		
61					1.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	—	—	—	—		
64					1.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	—	—	—	—		
70					1.8	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	—	—	—	—		
73					1.9	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.2	—	—	—	—		
78					2.0	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.1	—	—	—	—		
81					2.1	0.5	0.6	0.6	0.5	0.4	0.4	0.2	—	—	—	—	—		
87					2.2	0.5	0.6	0.5	0.4	0.4	0.3	—	—	—	—	—	—		





Spray angle	Ordering number			Narrowest free cross section Ø [in]	Air		V̇ water [gal/h]										Spray dimensions			
	Type	Material number					Water column [in WC]					Aspiration height [in WC]								
		1Y	16																	
		Stainless steel 316L	Stainless steel 303		p [psi]	V̇ _i [SCFM]	6	12	18	4	8	12	24	35	p air [psi]	Aspiration height [in WS]	Ø D ₁ [in]	Ø D ₂ [in]		
20°	136.324.xx.B2	●	●	0.03	12	0.5	–	–	–	0.7	0.5	–	–	–	17	12	2	5		
					17	0.6	–	–	–	0.8	0.7	0.5	–	–	46	12	3	5		
					20	0.7	–	–	–	0.9	0.7	0.6	–	–	70	12	3	5		
					26	0.9	–	–	–	1.0	0.9	0.7	–	–	87	12	3	5		
					29	0.9	–	–	–	1.0	0.9	0.8	0.2	–	–	–	–	–		
					35	1.1	–	–	–	1.1	1.0	0.8	0.4	–	–	–	–	–		
					38	1.1	–	–	–	1.2	1.0	0.9	0.4	–	–	–	–	–		
					44	1.2	1.4	–	–	1.2	1.1	1.0	0.5	–	–	–	–	–		
					46	1.3	1.5	–	–	1.3	1.1	1.0	0.6	–	–	–	–	–		
					52	1.4	1.5	–	–	1.3	1.2	1.1	0.7	–	–	–	–	–		
					55	1.5	1.6	–	–	1.4	1.2	1.2	0.8	0.6	–	–	–	–		
					61	1.6	1.7	1.8	–	1.5	1.4	1.2	0.8	0.8	–	–	–	–		
					64	1.7	1.7	1.8	1.9	1.6	1.4	1.3	1.0	0.8	–	–	–	–		
					70	1.8	1.7	1.7	1.8	1.6	1.4	1.4	1.0	0.5	–	–	–	–		
					73	1.9	1.6	1.7	1.8	1.6	1.4	1.3	1.1	–	–	–	–	–		
					78	2.0	1.5	1.6	1.7	1.5	1.3	1.2	1.0	–	–	–	–	–		
					81	2.1	1.5	1.6	1.7	1.4	1.3	1.2	1.0	–	–	–	–	–		
					87	2.2	1.4	1.5	1.6	1.3	1.2	1.1	0.5	–	–	–	–	–		
	136.334.xx.B2	●	●	0.03	9	0.7	–	–	–	0.6	–	–	–	–	12	12	65	5		
					12	0.8	–	–	–	0.7	0.6	0.4	–	–	46	12	65	5		
					17	1.1	–	–	–	0.9	0.8	0.7	0.2	–	70	12	70	5		
					20	1.2	–	–	–	1.0	0.9	0.8	0.3	–	87	12	75	5		
					26	1.4	1.4	–	–	1.1	1.0	0.9	0.6	–	–	–	–	–		
					29	1.5	1.4	1.6	1.7	1.2	1.1	1.0	0.7	0.2	–	–	–	–		
					35	1.6	1.5	1.7	1.8	1.3	1.2	1.1	0.9	0.4	–	–	–	–		
					38	1.8	1.6	1.7	1.8	1.3	1.2	1.2	0.9	0.5	–	–	–	–		
					44	2.0	1.7	1.8	1.9	1.4	1.3	1.2	1.0	0.6	–	–	–	–		
					46	2.1	1.7	1.8	1.9	1.5	1.4	1.3	1.1	0.7	–	–	–	–		
					52	2.3	1.8	1.9	2.0	1.5	1.5	1.4	1.1	0.9	–	–	–	–		
					55	2.4	1.8	1.9	2.1	1.6	1.5	1.4	1.2	1.0	–	–	–	–		
					61	2.6	1.9	2.1	2.2	1.7	1.6	1.5	1.3	1.1	–	–	–	–		
					64	2.7	2.0	2.2	2.3	1.8	1.7	1.6	1.4	1.2	–	–	–	–		
					70	2.9	2.2	2.3	2.4	1.9	1.8	1.8	1.5	1.3	–	–	–	–		
					73	3.0	2.3	2.3	2.4	2.0	1.9	1.9	1.6	1.4	–	–	–	–		
					78	3.2	2.2	2.3	2.3	2.0	2.0	1.9	1.7	1.5	–	–	–	–		
					81	3.3	2.2	2.2	2.3	2.0	2.0	1.9	1.7	1.5	–	–	–	–		
					87	3.5	2.1	2.2	2.2	1.9	1.9	1.8	1.6	1.5	–	–	–	–		





Spray angle	Ordering number			Narrowest free cross section Ø [in]	Air		V̇ water [gal/h]								Spray dimensions			
	Type	Material number					Water column [in WC]				Aspiration height [in WC]							
		1Y	16															
		Stainless steel 316L	Stainless steel 303		p [psi]	V̇ _i [SCFM]	6	12	18	4	8	12	24	35	p air [psi]	Aspiration height [in WS]	Ø D ₁ [in]	Ø D ₂ [in]
20°	136.342.xx.B2	●	●	0.06	20	2.1	–	–	–	2.3	–	–	1.0	–	26	300	3	5
					26	2.5	–	–	–	2.5	2.2	2.0	1.4	0.9	44	300	3	5
					29	2.6	3.2	–	–	2.6	2.4	2.1	1.5	1.1	61	300	3	5
					35	3.1	3.2	–	–	2.7	2.5	2.3	1.8	1.4	87	300	3	5
					38	3.2	3.2	3.5	–	2.8	2.6	2.4	1.9	1.5	–	–	–	–
					44	3.6	3.2	3.5	3.7	2.8	2.7	2.5	2.0	1.7	–	–	–	–
					46	3.8	3.2	3.5	3.7	2.8	2.7	2.5	2.1	1.8	–	–	–	–
					52	4.1	3.3	3.5	3.7	2.9	2.8	2.7	2.3	2.1	–	–	–	–
					55	4.3	3.3	3.5	3.7	3.0	2.9	2.8	2.5	2.2	–	–	–	–
					61	4.7	3.5	3.7	3.8	3.2	3.1	3.0	2.8	2.6	–	–	–	–
					64	4.9	3.6	3.7	3.9	3.3	3.2	3.1	2.9	2.7	–	–	–	–
					70	5.2	3.7	3.8	4.0	3.4	3.3	3.2	3.0	2.7	–	–	–	–
					73	5.4	3.7	3.8	4.0	3.4	3.3	3.2	2.9	2.7	–	–	–	–
					78	5.8	3.6	3.8	3.9	3.3	3.2	3.1	2.8	2.4	–	–	–	–
					81	5.9	3.5	3.7	3.9	3.2	3.1	3.0	2.7	2.3	–	–	–	–
					87	6.4	3.2	3.4	–	2.9	2.8	2.7	2.3	1.9	–	–	–	–
	136.351.xx.B2	●	●	0.10	46	6.8	–	–	–	–	10.3	–	–	–	55	12	4	5
					52	7.4	–	–	–	12.1	11.1	–	8.8	–	67	12	4	6
					55	7.7	–	–	–	12.6	11.9	11.2	9.3	–	78	12	4	6
					61	8.4	–	–	–	13.6	13.0	12.3	10.5	7.9	87	12	4	6
					64	8.7	–	–	–	14.0	13.4	12.8	11.0	8.3	–	–	–	–
					70	9.4	–	16.7	–	14.6	14.1	13.5	11.9	9.2	–	–	–	–
					73	9.7	–	16.8	17.6	14.8	14.3	13.8	12.2	9.5	–	–	–	–
					78	10.4	16.1	17.0	17.6	15.0	14.5	14.0	12.6	10.0	–	–	–	–
					81	10.7	16.1	16.9	17.6	15.0	14.5	14.1	12.6	10.2	–	–	–	–
					87	11.3	15.8	16.6	17.3	14.7	14.3	13.8	12.1	9.8	–	–	–	–

Ordering Type + Material no. = Ordering no.
example: 136.342.xx.B2 + 1Y = 136.342.1Y.B2