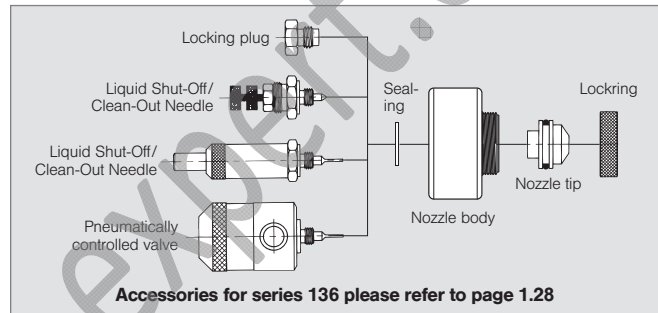
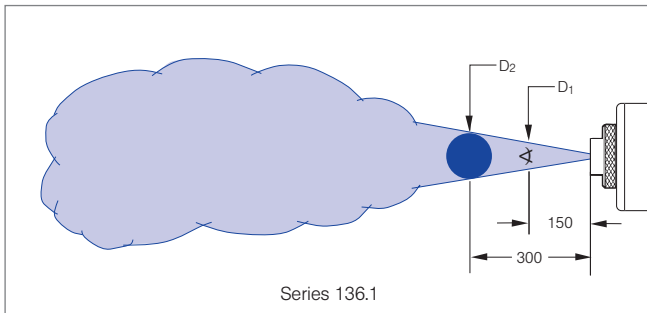
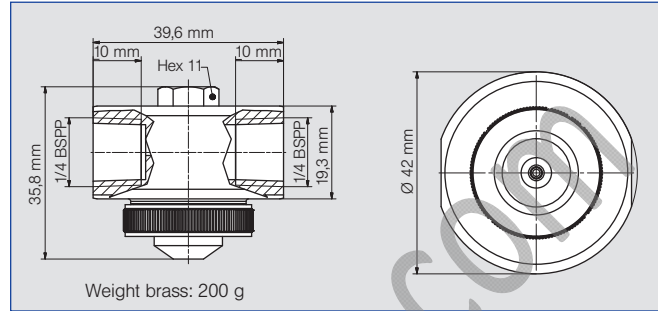




Pneumatic atomizing nozzles, Full cone, pressure principle, internal mixing Series 136.1

Fine full cone atomization and fogging with air or gas. Liquid pressure principle. Internal mixing of fluids.
 Applications:
 Humidification of air, cooling.



Spray angle Δ	Ordering no.		E Ø [mm]	Liquid pressure p [bar]												Spray dimensions							
	Type	Mat. no.		0.7				1.5				3.0				4.0				p Air [bar]	p Water [bar]	D ₁ [mm]	D ₂ [mm]
				1Y	35	p Air [bar]	V̇ Water [l/h]	V̇ _v Air [m ³ /h]	p Air [bar]	V̇ Water [l/h]	V̇ _v Air [m ³ /h]	p Air [bar]	V̇ Water [l/h]	V̇ _v Air [m ³ /h]	p Air [bar]	V̇ Water [l/h]	V̇ _v Air [m ³ /h]						
20°	136. 115. xx. A2	○	○	0.50	0.40	5.90	0.30	1.40	5.80	0.80	2.40	9.10	1.10	3.00	11.00	1.20	0.80	0.70	60	100			
					0.80	3.80	0.60	1.80	4.10	1.00	2.80	7.50	1.20	3.40	9.60	1.40	1.80	1.50	60	95			
		1.20	1.70		0.90	2.20	2.20	1.40	3.20	5.90	1.50	3.80	8.20	1.60	2.60	2.00	60	100					
		-	-		-	2.60	1.20	1.70	3.60	4.40	1.80	4.20	6.80	1.90	3.20	3.00	55	95					
		-	-		-	-	-	-	4.40	2.00	2.50	5.00	4.10	2.50	4.40	4.00	55	100					
		-	-		-	-	-	-	4.80	1.10	2.80	5.40	2.90	2.80	-	-	-	-	-				
		-	-		-	-	-	-	5.20	0.40	3.00	5.80	2.10	3.10	-	-	-	-	-				
		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	136. 125. xx. A2	○	○	0.50	0.80	4.70	1.50	1.20	7.00	1.80	2.80	9.10	3.30	3.40	10.60	3.90	1.40	0.70	55	90			
					1.20	4.40	1.90	1.60	6.60	2.20	3.20	8.70	3.70	3.80	10.30	4.30	2.20	1.50	55	95			
		1.60	4.00		2.30	2.00	6.20	2.60	3.60	8.40	4.10	4.20	9.90	4.60	2.80	2.00	55	100					
		2.00	3.50		2.60	2.40	5.80	3.00	4.00	8.00	4.50	4.60	9.60	5.00	3.40	3.00	60	100					
		2.40	3.00		3.00	2.80	5.40	3.40	4.40	7.70	4.80	5.00	9.30	5.40	4.20	4.00	60	100					
		2.80	2.70		3.20	3.20	4.90	3.70	4.80	7.30	5.20	5.40	8.90	5.80	-	-	-	-					
		3.20	2.00		3.70	3.60	4.40	4.10	5.20	7.00	5.60	5.80	8.60	6.10	-	-	-	-					
		3.60	1.60		4.10	4.00	3.90	4.50	5.60	6.60	5.90	-	-	-	-	-	-	-	-				
		4.00	1.30		4.50	4.40	3.50	4.80	6.00	6.20	6.30	-	-	-	-	-	-	-	-				
		4.40	1.00		4.90	4.80	3.10	5.20	-	-	-	-	-	-	-	-	-	-	-				
4.80	0.60	5.20	5.20	2.70	5.60	-	-	-	-	-	-	-	-	-	-	-							
-	-	-	5.60	2.30	5.90	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	6.00	1.90	6.30	-	-	-	-	-	-	-	-	-	-	-	-						

E = narrowest free cross section (water)

Continued on next page.

Example **Type** + **Material no. (xx)** = **Ordering no.**
for ordering: 136. 115. xx. A2 + 1Y = 136. 115. 1Y. A2



**Pneumatic atomizing nozzles,
 Full cone, pressure principle, internal mixing
 Series 136.1**

Spray angle	Ordering no.		E ∅ [mm]	Liquid pressure p [bar]												Spray dimensions						
	Type	Mat. no.		0.7			1.5			3.0			4.0			p Air [bar]	p Water [bar]	D ₁ [mm]	D ₂ [mm]			
		1Y		35	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]		
	AISI 316L	Brass plated																				
20°	136. 134. xx. A2	○	○	0.7	1.20	13.20	2.70	2.00	19.40	3.90	3.00	28.30	5.20	3.80	32.60	6.20	1.80	0.70	55	95		
					1.60	12.40	3.30	2.40	18.10	4.40	3.40	27.50	5.70	4.20	32.00	6.80	2.80	1.50	60	105		
					2.00	11.80	3.90	2.80	17.30	4.90	3.80	26.70	6.30	4.60	31.30	7.30	3.80	2.00	60	105		
					2.40	11.40	4.40	3.20	16.70	5.50	4.20	25.90	6.80	5.00	30.60	7.80	5.20	3.00	65	110		
					2.80	11.10	4.90	3.60	16.10	6.00	4.60	25.00	7.30	5.40	29.90	8.40	6.00	4.00	65	110		
					3.20	10.80	5.50	4.00	15.60	6.50	5.00	24.20	7.80	5.80	29.30	8.90	-	-	-	-	-	
					3.60	10.60	6.00	4.40	15.20	7.00	5.40	23.60	8.40	-	-	-	-	-	-	-	-	-
					4.00	10.40	6.50	4.80	15.00	7.60	5.80	23.10	8.90	-	-	-	-	-	-	-	-	-
					4.40	10.10	7.00	5.20	14.60	8.10	-	-	-	-	-	-	-	-	-	-	-	-
					4.80	9.90	7.60	5.60	14.10	8.60	-	-	-	-	-	-	-	-	-	-	-	-
	5.20	9.50	8.10	6.00	13.80	9.10	-	-	-	-	-	-	-	-	-	-	-	-				
	5.60	9.00	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	6.00	8.50	9.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	136. 142. xx. A2	○	○	2.5	1.40	24.20	5.10	1.60	53.40	4.70	3.20	70.80	8.00	3.80	93.20	9.20	0.80	0.70	60	100		
					1.80	20.40	6.30	2.00	42.60	5.90	3.60	62.50	9.20	4.20	83.10	10.10	1.60	1.50	65	105		
					2.20	20.00	7.20	2.40	35.30	7.20	4.00	55.70	10.60	4.60	75.30	11.30	3.00	2.00	60	105		
					2.60	19.30	8.20	2.80	30.40	8.40	4.40	49.30	11.70	5.00	69.00	12.50	4.00	3.00	65	110		
					3.00	17.60	9.30	3.20	28.60	9.50	4.80	44.60	12.90	5.40	63.40	13.70	6.00	4.00	65	110		
					3.40	16.50	10.40	3.60	28.20	10.50	5.20	41.90	14.10	5.80	57.50	14.90	-	-	-	-	-	
					3.80	17.00	11.40	4.00	27.30	11.50	5.60	40.40	15.10	-	-	-	-	-	-	-	-	-
4.20					16.30	12.40	4.40	25.90	12.50	6.00	39.70	16.10	-	-	-	-	-	-	-	-	-	
4.60					15.10	13.30	4.80	24.30	13.50	-	-	-	-	-	-	-	-	-	-	-	-	
5.00					14.00	14.30	5.20	22.30	14.60	-	-	-	-	-	-	-	-	-	-	-	-	
5.40	13.10	15.30	5.60	21.80	15.70	-	-	-	-	-	-	-	-	-	-	-	-					
5.80	12.40	16.20	6.00	21.40	16.70	-	-	-	-	-	-	-	-	-	-	-	-					

E = narrowest free cross section (water)

Example Type + Material no. (xx) = Ordering no.
for ordering: 136. 134. xx. A2 + 1Y = 136. 134. 1Y. A2

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