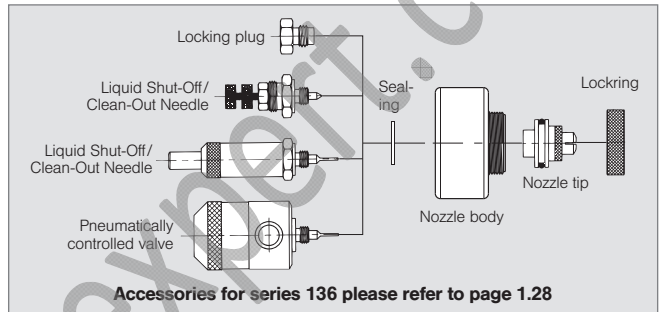
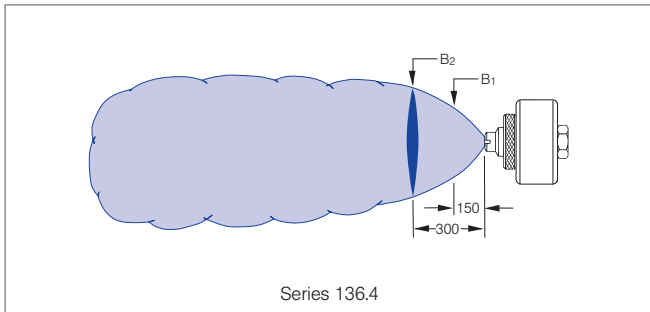
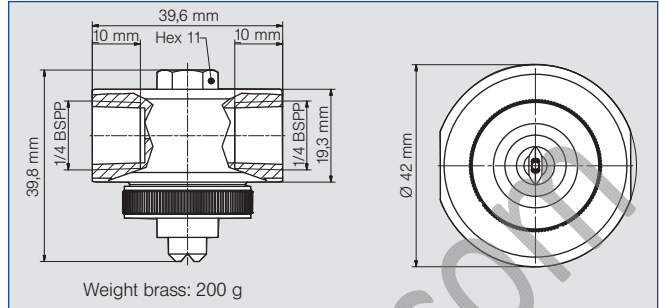




Pneumatic atomizing nozzles, Flat fan, pressure principle, internal mixing Series 136.4

Particularly fine flat fan atomization with air or gas.
Siphon principle.
Internal mixing of fluids.

Applications:
Web dampening, cooling,
humidification of goods.



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]	B ₁ [mm]	B ₂ [mm]	
				1Y	35	p Air [bar]	ṽ Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]	ṽ Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]	ṽ Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]					ṽ Water [l/h]
45°	136. 414. xx. A2	○	○	0.7	1.00	7.70	1.30	1.40	14.30	1.50	2.20	22.40	2.00	3.00	25.10	2.50	1.40	0.70	85	125
					1.20	6.00	1.50	1.60	13.00	1.60	2.60	20.00	2.30	3.40	23.00	2.80	2.40	1.50	100	145
					1.40	4.20	1.70	1.80	11.60	1.80	3.00	17.70	2.60	3.80	20.90	3.10	3.20	2.00	105	155
					1.60	2.70	1.90	2.00	10.20	2.00	3.40	15.50	3.00	4.20	18.90	3.50	3.80	3.00	120	170
					1.80	1.30	2.10	2.20	8.90	2.20	3.80	13.30	3.40	4.60	16.90	3.80	4.60	4.00	130	210
					-	-	-	2.40	7.40	2.40	4.20	11.00	3.70	5.00	14.90	4.20	-	-	-	-
		-	-		-	2.60	5.90	2.60	4.60	8.80	4.10	5.40	12.80	4.60	-	-	-	-	-	
		-	-		-	2.80	4.60	2.80	5.00	6.60	4.50	5.80	10.80	5.00	-	-	-	-	-	
		-	-		-	3.00	3.20	3.00	5.40	4.30	4.90	6.00	9.80	5.20	-	-	-	-	-	
		-	-		-	3.20	2.10	3.20	5.80	2.50	5.30	-	-	-	-	-	-	-	-	
		-	-		-	3.40	1.10	3.40	6.00	1.60	5.50	-	-	-	-	-	-	-	-	
		136. 443. xx. A2	○		○	1.0	1.20	13.90	1.50	1.60	26.60	1.60	3.00	37.10	2.60	3.60	45.60	2.90	1.20	0.70
	1.40			11.90			1.70	1.80	24.30	1.80	3.40	33.10	3.00	4.00	41.90	3.30	2.00	1.50	115	190
	1.60			9.50			1.90	2.00	22.00	2.00	3.80	29.50	3.40	4.40	38.30	3.70	2.80	2.00	145	190
	1.80			7.80			2.10	2.20	19.90	2.20	4.20	26.20	3.80	4.80	35.00	4.00	3.80	3.00	150	210
	-			-			-	2.40	18.00	2.40	4.60	23.00	4.20	5.20	31.80	4.50	4.80	4.00	160	230
	-			-			-	2.60	16.20	2.60	5.00	20.20	4.60	5.60	29.00	4.90	-	-	-	-
	-	-	-	2.80	14.40	2.80	5.40	17.60	4.90	6.00	26.20	5.20	-	-	-	-	-			
-	-	-	3.00	12.80	3.00	5.80	14.90	5.30	-	-	-	-	-	-	-	-				
-	-	-	3.20	11.30	3.20	6.00	14.10	5.50	-	-	-	-	-	-	-	-				
-	-	-	3.40	9.90	3.40	-	-	-	-	-	-	-	-	-	-	-				
-	-	-	3.60	8.80	3.60	-	-	-	-	-	-	-	-	-	-	-				

E = narrowest free cross section (water)

Continued on next page.

Example Type + Material no. (xx) = Ordering no.
for ordering: 136. 414. xx. A2 + 1Y = 136. 414. 1Y. A2



**Pneumatic atomizing nozzles,
 Flat fan, pressure principle, internal mixing
 Series 136.4**

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]	B ₁ [mm]	B 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]
	AISI 316L	Brass plated																		
45°	136. 462. xx. A2	○	○	1.5	1.20	19.00	2.60	2.00	22.00	2.00	3.00	61.80	4.00	3.80	76.10	4.60	1.20	0.70	120	140
					1.60	12.20	3.40	2.40	18.00	2.40	3.40	51.90	4.80	4.00	70.40	5.10	2.40	1.50	120	170
					2.00	9.40	4.10	2.80	14.40	2.80	3.80	44.60	5.80	4.20	65.60	5.50	3.20	2.00	120	175
					2.40	7.10	4.80	3.20	11.30	3.20	4.20	39.00	6.60	4.40	61.30	5.90	3.80	3.00	140	205
					2.80	5.70	5.40	3.60	8.80	3.60	4.60	33.40	7.40	4.60	57.30	6.40	6.00	4.00	145	205
					3.20	5.00	6.00	4.00	8.10	3.90	5.00	29.40	8.10	4.80	54.10	6.70				
					3.60	3.60	6.60	4.40	6.20	4.30	5.40	25.50	8.90	5.00	51.30	7.20				
					4.00	3.20	7.20	4.80	4.60	4.60	5.80	22.00	9.60	5.20	49.30	7.70				
					4.40	2.20	7.80	5.20	3.20	4.90	6.00	20.60	9.90	5.40	46.50	8.20				
					-	-	-	5.60	1.60	5.30	-	-	-	5.60	43.70	8.60				
					-	-	-	5.80	0.80	5.40	-	-	-	5.80	41.30	8.90				
					-	-	-	-	-	-	-	-	-	6.00	39.00	9.30				
					60°	136. 425. xx. A2	○	○	0.5	0.80	6.50	1.20	1.40	9.40	1.70	2.40	13.20	2.50	2.40	16.10
1.20	5.50	1.60	1.80	8.70						2.10	2.60	12.90	2.70	2.80	15.50	2.90	2.20	1.50	165	255
1.60	4.70	1.90	2.20	7.90						2.40	3.00	12.30	3.00	3.20	15.00	3.20	3.00	2.00	170	265
2.00	4.00	2.30	2.60	7.20						2.70	3.40	11.80	3.40	3.60	14.50	3.50	3.40	3.00	200	330
2.40	3.20	2.60	3.00	6.40						3.10	3.80	11.10	3.70	4.00	13.90	3.80	5.60	4.00	200	330
2.80	2.60	2.90	3.40	5.70						3.40	4.20	10.40	4.00	4.40	13.40	4.10				
3.00	2.20	3.10	3.80	5.10						3.70	4.60	9.80	4.30	4.80	12.80	4.50				
-	-	-	4.00	4.80						3.90	5.00	9.20	4.60	5.20	12.20	4.80				
-	-	-	4.40	4.20						4.20	5.40	8.60	5.00	5.60	11.70	5.10				
-	-	-	4.80	3.60						4.50	5.80	8.10	5.30	6.00	11.20	5.40				
-	-	-	5.20	2.80		4.80	6.00	7.80	5.40	-	-	-								
-	-	-	5.60	2.20		5.10	-	-	-	-	-	-								
-	-	-	6.00	1.60		5.50	-	-	-	-	-	-								
136. 452. xx. A2	○	○	1.5	1.00		18.80	3.90	1.80	31.00	5.30	3.20	50.10	7.70	3.80	70.70	8.20	1.00	0.70	130	185
				1.40		8.60	5.70	2.00	25.40	6.30	3.60	39.50	9.40	4.20	58.60	9.60	1.80	1.50	150	240
				1.80		7.40	7.00	2.20	20.10	7.20	4.00	31.30	11.20	4.60	48.60	11.20	2.60	2.00	155	245
				2.20		4.10	8.40	2.40	15.50	8.00	4.40	24.00	12.90	5.00	41.20	13.10	3.60	3.00	175	280
				2.60		1.00	9.80	2.60	12.40	8.90	4.80	17.70	14.50	5.40	33.60	14.80	5.00	4.00	180	285
				2.80		0.10	10.30	2.80	10.40	9.60	5.20	13.40	16.00	5.80	27.50	16.40				
				-	-	-	-	-	-	5.60	10.60	17.50	6.00	24.40	17.20					
				-	-	-	-	-	-	6.00	8.60	18.80	-	-	-					
				-	-	-	-	-	-	-	-	-	-	-	-					
80°	136. 433. xx. A2	○	○	0.4	1.00	11.60	2.00	1.80	18.30	2.80	3.00	31.00	3.70	3.80	37.50	4.40	1.40	0.70	150	210
					1.20	8.10	2.40	2.00	15.30	3.20	3.40	25.40	4.40	4.20	32.40	5.00	2.20	1.50	185	255
					1.40	5.30	2.80	2.20	12.20	3.60	3.80	20.60	5.10	4.60	27.70	5.70	3.00	2.00	205	300
					1.60	3.70	3.20	2.40	9.80	4.00	4.20	16.30	5.90	5.00	23.40	6.50	3.80	4.00	300	485
					-	-	-	2.60	7.60	4.30	4.60	12.50	6.60	5.40	19.40	7.20	5.20	4.00	260	395
					-	-	-	2.80	5.90	4.70	5.00	9.30	7.30	5.80	15.90	7.90				
					-	-	-	3.00	4.40	5.00	5.40	6.50	8.00	6.00	14.20	8.30				
					-	-	-	-	-	-	-	-	-	-	-	-				

E = narrowest free cross section (water)

Example **Type** + **Material no. (xx)** = **Ordering no.**
for ordering: **136. 462. xx. A2** + **1Y** = **136. 462. 1Y. A2**