

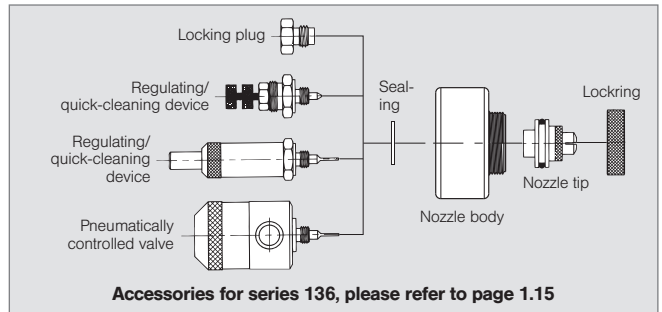
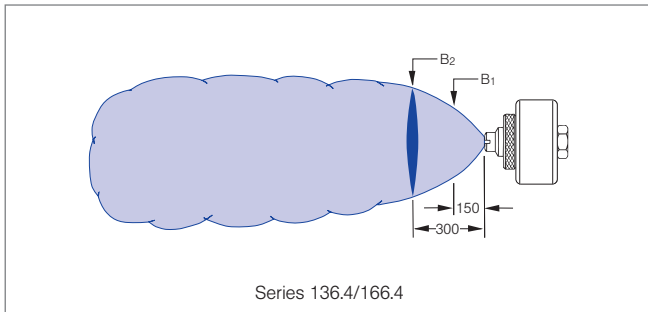
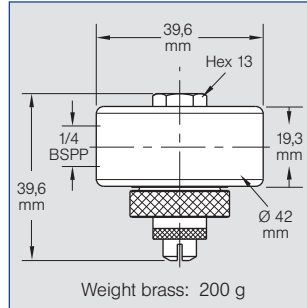


# Pneumatic atomizing nozzles, Flat fan, pressure principle, internal mixing Series 136.4 / 166.4



**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 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]	B <sub>1</sub> [mm]	B <sub>2</sub> [mm]	
				p Air [bar]	ṽ Water [l/h]	ṽ <sub>n</sub> Air [m <sup>3</sup> /h]	p Air [bar]	ṽ Water [l/h]	ṽ <sub>n</sub> Air [m <sup>3</sup> /h]	p Air [bar]	ṽ Water [l/h]	ṽ <sub>n</sub> Air [m <sup>3</sup> /h]	p Air [bar]	ṽ Water [l/h]	ṽ <sub>n</sub> Air [m <sup>3</sup> /h]					
	16	35																		
45°	136. 417. xx. 14 166. 417. xx. 14	○ ○	0,70	1,00	7,40	1,30	1,50	12,50	1,60	3,00	16,40	2,60	4,50	16,40	3,80	1,40	0,70	60	110	
				1,10	6,70	1,40	1,80	10,70	1,90	3,30	14,90	2,90	4,80	15,20	4,10	2,30	1,50	100	150	
				1,20	6,10	1,50	2,10	9,10	2,20	3,70	13,10	3,30	5,20	13,60	4,50	3,20	2,00	100	170	
				1,40	4,80	1,70	2,30	8,00	2,40	4,10	11,40	3,70	5,50	12,50	4,90	3,70	3,00	150	230	
				1,90	2,50	2,30	2,90	5,20	3,00	5,90	4,90	5,50	-	-	-	-	-	-	-	-
				2,20	1,60	2,50	3,30	3,50	3,40	-	-	-	-	-	-	-	-	-	-	-
	136. 416. xx. 14 166. 416. xx. 14	○ ○	0,60	1,20	4,20	1,40	2,10	6,90	2,00	3,80	10,10	3,20	5,20	10,60	4,30	1,50	0,70	90	140	
				1,40	2,80	1,60	2,30	5,60	2,20	4,10	8,60	3,50	5,50	9,20	4,60	2,60	1,50	130	180	
				1,50	2,20	1,80	2,50	4,40	2,50	4,50	6,60	4,00	5,90	7,60	5,00	3,20	2,00	180	230	
				1,70	1,30	2,00	2,60	3,80	2,60	4,80	5,10	4,30	6,20	6,10	5,20	4,10	3,00	240	400	
				1,80	1,00	2,10	2,80	2,80	2,80	5,20	3,30	4,70	-	-	-	-	5,50	4,00	300	480
				1,90	0,30	2,20	2,90	2,40	2,90	-	-	-	-	-	-	-	-	-	-	-
	136. 415. xx. 13 166. 415. xx. 13	○ ○	1,00	1,00	15,90	1,20	2,10	20,40	2,10	3,80	26,90	3,30	5,20	29,00	4,30	1,10	0,70	80	130	
				1,10	14,90	1,30	2,30	18,60	2,30	4,10	24,60	3,60	5,50	27,00	4,60	2,10	1,50	80	130	
				1,20	14,00	1,40	2,50	16,60	2,40	4,50	21,60	3,90	5,90	24,20	4,90	2,80	2,00	90	130	
				1,40	11,80	1,60	2,60	15,60	2,50	4,80	19,30	4,20	-	-	-	3,60	3,00	130	190	
				-	-	-	2,80	13,70	2,70	5,20	16,50	4,50	-	-	-	4,80	4,00	140	220	
				-	-	-	2,90	12,70	2,80	-	-	-	-	-	-	-	-	-	-	-

E = narrowest free cross section (water)

Continued on next page.

**Example**      **Type**      **+ Material no. (xx)**      **= Ordering no.**  
**for ordering:**      **136. 416. xx. 14 + 16**      **= 136. 416. 16. 14**

