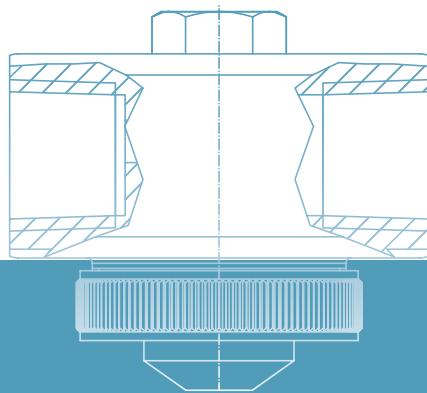




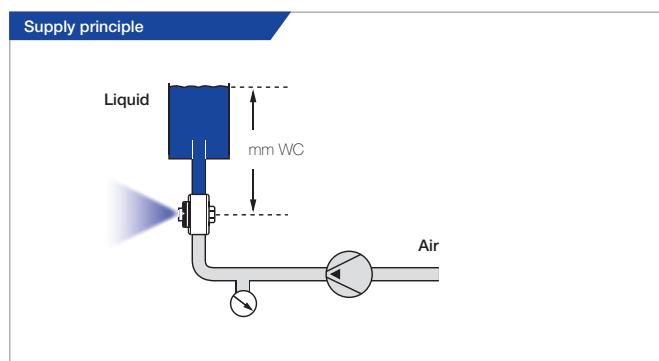
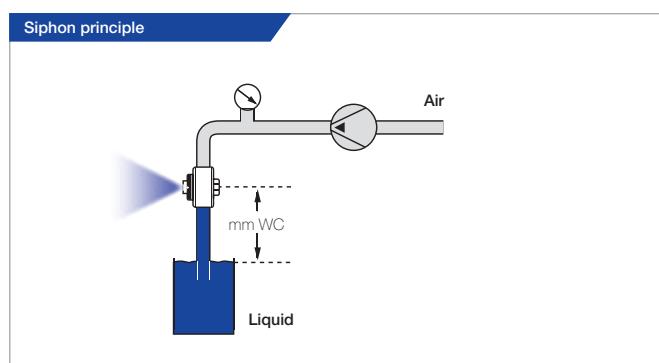
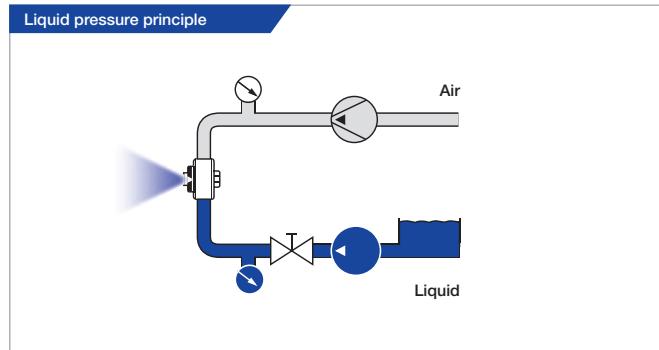
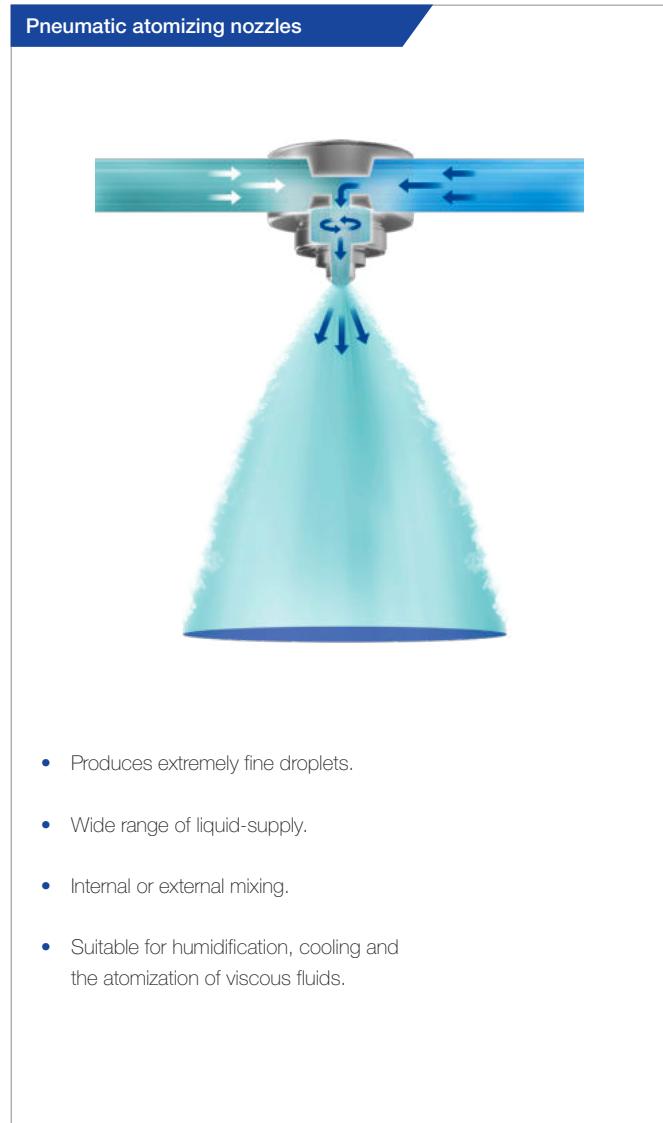
➤ PNEUMATIC ATOMIZING NOZZLES





PNEUMATIC ATOMIZING NOZZLES GENERAL INFORMATION

Pneumatic atomizing nozzles produce extremely fine droplets with a small droplet size. There are two options available: Internal Mixing (for lower viscosity fluids) where the mixing of gas and liquid happens inside the nozzle and External Mixing (for higher viscosity fluids) where the mixing of gas and liquid happens outside the nozzle. Depending on the option chosen, the liquid can be gravity/siphon fed or pressurized. Flat fan, full cone and solid stream spray patterns are available.





Pneumatic atomizing nozzles

Series		136.1	136.2	136.3	136.4
Information on page		115	117	118	121
Spray pattern	Full cone	•	•	•	
	Flat fan				•
	Solid stream				
Type of liquid supply	Pressure principle	•	•		•
	Siphon and/or supply principle			•	
Type of mixing	Internal mixing	•	•		•
	External mixing			•	
	gal/h	0.11–24.62	0.11–35.11	0.08–17.63	0.03–20.10
	Small (15°–30°)	•		•	
	Medium (45°)				•
	Large (60°–80°)		•		•

					
136.5	136.6	166.1	166.2	166.4	166.6
123	125	131	133	134	136
•	•	•	•	•	•
•	•				
•	•	•	•	•	•
•		•	•	•	
0.21–0.85	0.44–26.97	0.11–24.62	0.11–35.11	0.03–20.10	0.44–26.97
•	•	•			
•	•			•	•
•	•		•	•	•





PNEUMATIC ATOMIZING NOZZLES

OVERVIEW OF SERIES



Pneumatic atomizing nozzles



Series	176 ViscoMist	140	170	150
Information on page	139	138	on request	on request
Spray pattern	Full cone	•	•	•
	Flat fan	•		
	Solid stream	•		
Type of liquid supply	Pressure principle	•		•
	Siphon and/or supply principle		•	
Type of mixing	Internal mixing		•	•
	External mixing	•		•
Flow rate	gal/h	2.06–81.10	1.19–3.17	2.25–76.61 [gal/min] 0.04–16.64 [gal/min]
Spray angle	Small (15°–30°)	•	•	•
	Medium (45°)			
	Large (60°–80°)			



Pneumatic atomizing nozzles, full cone, pressure principle, internal mixing

Series 136.1

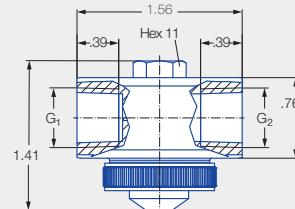


Features:

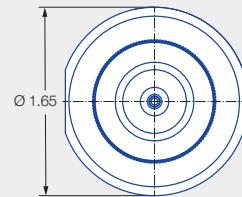
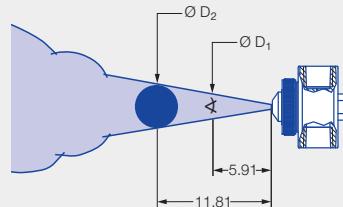
- Fine full cone atomization
- Liquid pressure principle
- Internal mixing

Applications:

- Humidification of air
- Cooling



Series 136.1



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]	Liquid pressure p [psi]								Spray dimensions							
	Type		Material number		10		20		40		60									
					p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]				
20°	136.115.xx.B2	●	Stainless steel 316L	0.2	6	1.6	0.18	20	1.5	.47	35	2.4	0.6	44	2.9	0.7	12	10	2	4
					12	1.0	0.35	26	1.1	.59	41	2.0	0.7	49	2.5	0.8	26	22	2	4
					17	.45	0.53	32	.58	.82	46	1.6	0.9	55	2.2	0.9	38	29	2	4
					—	—	—	38	.32	1.0	52	1.2	1.1	61	1.8	1.1	46	44	2	4
					—	—	—	—	—	58	0.8	1.2	67	1.5	1.3	64	58	2	4	
					—	—	—	—	—	64	0.5	1.5	73	1.1	1.5	—	—	—	—	—
					—	—	—	—	—	70	0.3	1.6	78	0.8	1.6	—	—	—	—	—
					—	—	—	—	—	76	0.1	1.8	84	0.6	1.8	—	—	—	—	—
	136.125.xx.B2	●	Stainless steel 303	0.5	12	1.3	0.9	17	1.8	1.1	41	2.4	1.9	49	2.8	2.3	20	10	2	4
					17	1.2	1.1	23	1.7	1.3	46	2.3	2.2	55	2.7	2.5	32	22	2	4
40°	136.115.xx.B2	●	Stainless steel 316L	0.2	23	1.1	1.4	29	1.6	1.5	52	2.2	2.4	61	2.6	2.7	41	29	2	4
					29	0.9	1.5	35	1.5	1.8	58	2.1	2.6	67	2.5	2.9	49	44	2	4
					35	0.8	1.8	41	1.4	2.0	64	2.0	2.8	73	2.4	3.2	61	58	2	4
					41	0.7	1.9	46	1.3	2.2	70	1.9	3.1	78	2.3	3.4	—	—	—	—
					46	0.5	2.2	52	1.2	2.4	75	1.8	3.3	84	2.2	3.6	—	—	—	—
					52	0.4	2.4	58	1.0	2.6	81	1.7	3.5	—	—	—	—	—	—	—
	136.125.xx.B2	●	Stainless steel 303	0.5	58.0	0.3	3	63.8	0.9	3	87	1.6	4	—	—	—	—	—	—	—
					63.8	0.3	3	69.6	0.8	3	—	—	—	—	—	—	—	—	—	—
					69.6	0.2	3	75.4	0.7	3	—	—	—	—	—	—	—	—	—	—
					—	—	—	81.2	0.6	3	—	—	—	—	—	—	—	—	—	—
					—	—	—	87.0	0.5	4	—	—	—	—	—	—	—	—	—	—





Spray angle	Ordering number			Narrowest free cross section \emptyset [in]	Liquid pressure p [psi]								Spray dimensions								
	Material number		1Y		10		20		40		60										
	Type	Stainless steel 316L	Stainless steel 303		p air [psi]	\dot{V} water [gal/h]	\dot{V}_n air [SCFM]	p air [psi]	\dot{V} water [gal/h]	\dot{V}_n air [SCFM]	p air [psi]	\dot{V} water [gal/h]	\dot{V}_n air [SCFM]	p air [psi]	\dot{V} water [gal/h]	\dot{V}_n air [SCFM]					
20°	136.134.xx.B2	●	●	0.03	17	3.5	1.6	29	5.1	2.3	44	7.5	3.1	55	9.6	3.6	26	10	2	4	
					23	3.3	1.9	35	4.8	2.6	49	7.2	3.4	61	8.4	4.0	41	22	2	4	
					29	3.1	2.3	41	4.6	2.9	55	7.0	3.7	67	8.2	4.3	55	29	2	4	
					35	3.0	2.6	46	4.4	3.2	61	6.8	4.0	73	8.1	4.6	75	44	3	4	
					41	2.9	2.9	52	4.2	3.5	67	6.6	4.3	78	7.9	4.9	87	58	3	4	
					46	2.8	3.2	58	4.1	3.8	73	6.4	4.6	84	7.7	5.2	—	—	—	—	—
					52	2.8	3.5	64	4.0	4.1	78	6.2	4.9	—	—	—	—	—	—	—	—
					58	2.7	3.8	70	3.9	4.5	84	6.1	5.2	—	—	—	—	—	—	—	—
					64	2.6	4.1	75	3.8	4.8	—	—	—	—	—	—	—	—	—	—	—
					70	2.6	4.5	81	3.7	5.1	—	—	—	—	—	—	—	—	—	—	—
					75	2.5	4.8	87	3.6	5.4	—	—	—	—	—	—	—	—	—	—	—
					81	2.4	5.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
					87	2.2	5.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20°	136.142.xx.B2	●	●	0.10	20	6.4	3.0	23	14.1	2.8	46	18.7	4.7	55	24.6	5.4	12	10	2	4	
					26	5.4	3.7	29	11.2	3.5	52	16.5	5.4	61	22.0	5.9	23	22	3	4	
					32	5.3	4.2	35	9.3	4.2	58	14.7	6.2	67	19.9	6.7	44	29	2	4	
					38	5.1	4.8	41	8.0	4.9	64	13.0	6.9	73	18.2	7.4	58	44	3	4	
					44	4.6	5.5	46	7.5	5.6	70	11.8	7.6	78	16.8	8.1	87	58	3	4	
					49	4.3	6.1	52	7.4	6.2	75	11.1	8.3	84	15.2	8.8	—	—	—	—	—
					55	4.5	6.7	58	7.2	6.8	81	10.7	8.9	—	—	—	—	—	—	—	—
					61	4.3	7.3	64	6.8	7.4	87	10.5	9.5	—	—	—	—	—	—	—	—
					67	3.9	7.8	70	6.4	7.9	—	—	—	—	—	—	—	—	—	—	—
					73	3.7	8.4	75	5.9	8.6	—	—	—	—	—	—	—	—	—	—	—
					78	3.4	9.0	81	5.7	9.2	—	—	—	—	—	—	—	—	—	—	—
					84	3.3	9.5	87	5.6	9.8	—	—	—	—	—	—	—	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 136.134.xx.B2 + 1Y = 136.134.1Y.B2



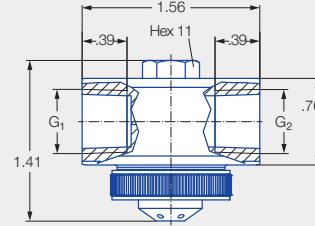
Pneumatic atomizing nozzles, wide full cone, pressure principle, internal mixing

Series 136.2



Features:

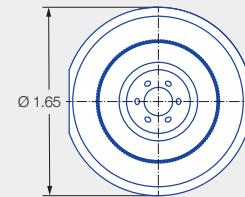
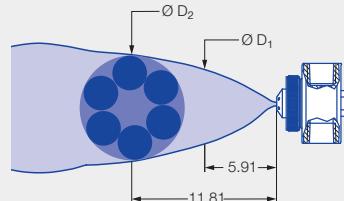
- Fine full cone atomization
- Liquid pressure principle
- Internal mixing
- Extra wide spray angle of 60°



Applications:

- Humidification
- Cooling

Series 136.2



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 \emptyset [in]	Liquid pressure p [psi]								Spray dimensions								
	Type	Material number		10				20				40				60				
				1Y	16	p air [psi]	V _w water [gal/h]	V _n air [SCFM]	p air [psi]	V _w water [gal/h]	V _n air [SCFM]	p air [psi]	V _w water [gal/h]	V _n air [SCFM]	p air [psi]	p water [psi]	Ø D ₁ [in]	Ø D ₂ [in]		
60°	136.215.xx.B2	● ●	0.02	15	0.8	0.8	23	1.5	1.0	41	2.2	1.4	55	2.5	1.8	15	10	8	13	
				17	0.5	0.9	26	1.3	1.1	46	1.9	1.6	61	2.2	2.1	23	22	9	15	
				20	0.2	1.1	29	1.0	1.2	52	1.5	1.9	67	1.8	2.3	35	29	9	15	
				–	–	–	32	0.7	1.4	58	1.1	2.1	73	1.4	2.5	46	44	10	15	
				–	–	–	35	0.4	1.5	64	0.6	2.4	78	1.0	2.8	61	58	10	16	
				–	–	–	38	0.2	1.6	70	0.2	2.6	84	0.6	3.1	–	–	–	–	
				–	–	–	–	–	–	73	0.1	2.7	87	0.4	3.3	–	–	–	–	
	136.222.xx.B2	● ●	0.04	12	4.6	1.6	23	6.8	2.4	44	10.7	3.4	55	14.5	3.8	12	10	10	18	
				15	1.6	2.5	26	3.9	3.1	46	8.3	4.1	58	12.0	4.3	23	22	10	18	
				–	–	–	29	1.8	3.9	49	5.9	4.8	61	9.9	5.0	33	29	10	18	
	136.231.xx.B2	● ●	0.06	–	–	–	32	0.5	4.8	52	3.9	5.6	64	7.8	5.7	46	44	10	18	
				–	–	–	–	–	–	55	2.2	6.5	67	5.7	6.6	61	58	10	18	
				–	–	–	–	–	–	58	1.2	7.2	70	4.0	7.3	–	–	–	–	
				–	–	–	–	–	–	–	–	–	73	2.6	8.1	–	–	–	–	
				–	–	–	–	–	–	–	–	–	75	1.6	8.9	–	–	–	–	
				–	–	–	–	–	–	–	–	–	78	0.8	9.7	–	–	–	–	
				23	6.8	3.0	38	11.7	4.1	52	24.8	4.6	61	35.1	4.3	29	10	9	15	

Ordering Type + Material no. = Ordering no.
example: 136.215.xx.B2 + 1Y = 136.215.1Y.B2

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

Series 136.3

Features:

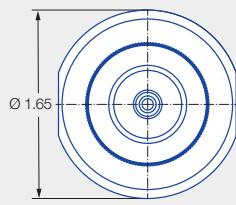
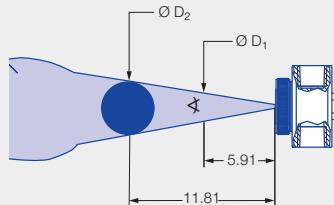
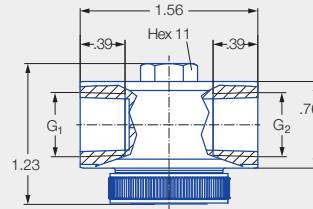
- Particularly fine full cone atomization
- Gravity/Siphon principle
- External mixing

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		V water [gal/h]							Spray dimensions					
	Type	Material number		Ø [in]	p [psi]	V _w [SCFM]	Water column [in WC]			Aspiration height [in WC]								
		1Y					6	12	18	4	8	12	24	35	p air [psi]	Aspiration height [in WC]	Ø D ₁ [in]	Ø D ₂ [in]
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		V water [gal/h]							Spray dimensions				
	Type	Material number					Water column [in WC]			Aspiration height [in WC]								
		1Y	16							4	8	12	24	35	p air [psl]	Aspiration height [in WS]	Ø D ₁ [in]	
		Stainless steel 316L	Stainless steel 303		p [psl]	V _n [SCFM]	6	12	18	4	8	12	24	35				
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	—	—	—	—	—
20°	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	—	—	—	—

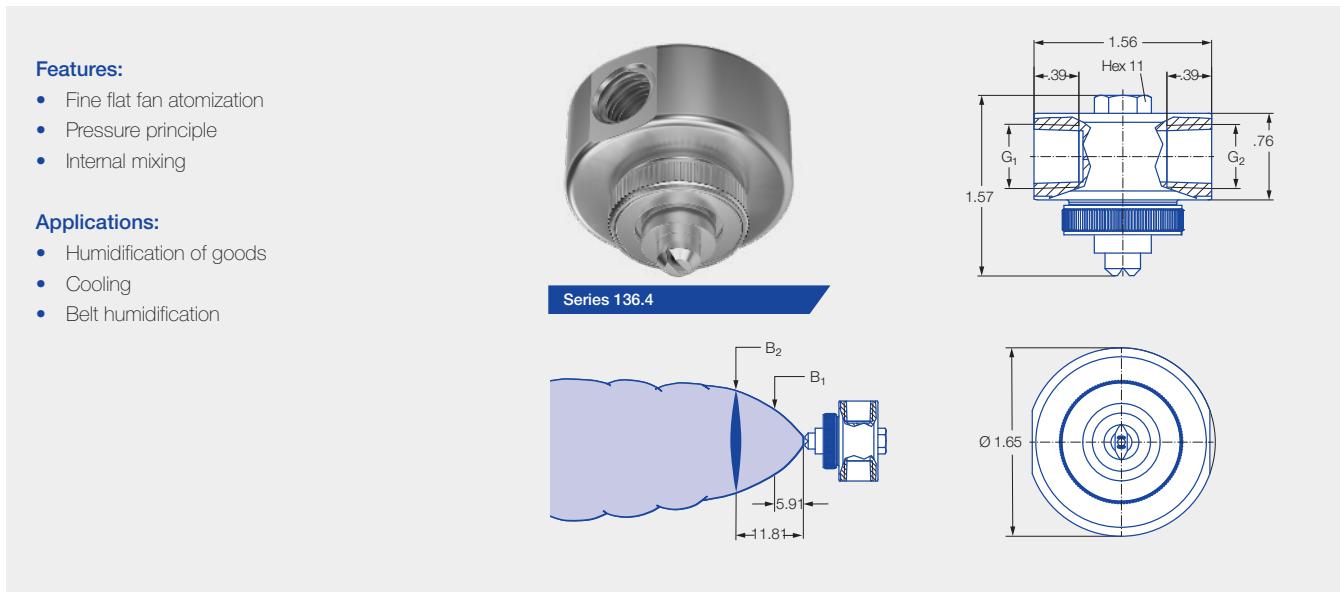




Spray angle	Ordering number			Narrowest free cross section Ø [in]	Air		V water [gal/h]							Spray dimensions				
	Type	Material number					Water column [in WC]			Aspiration height [in WC]								
		1Y	16							4	8	12	24	35	p air [psi]	Aspiration height [in WS]	Ø D ₁ [in]	
		Stainless steel 316L	Stainless steel 303				p [psi]	V _n [SCFM]	6	12	18	4	8	12	24	35		
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	—	—	—	—
				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

➤ Pneumatic atomizing nozzles, wide flat fan, pressure principle, internal mixing
Series 136.4



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



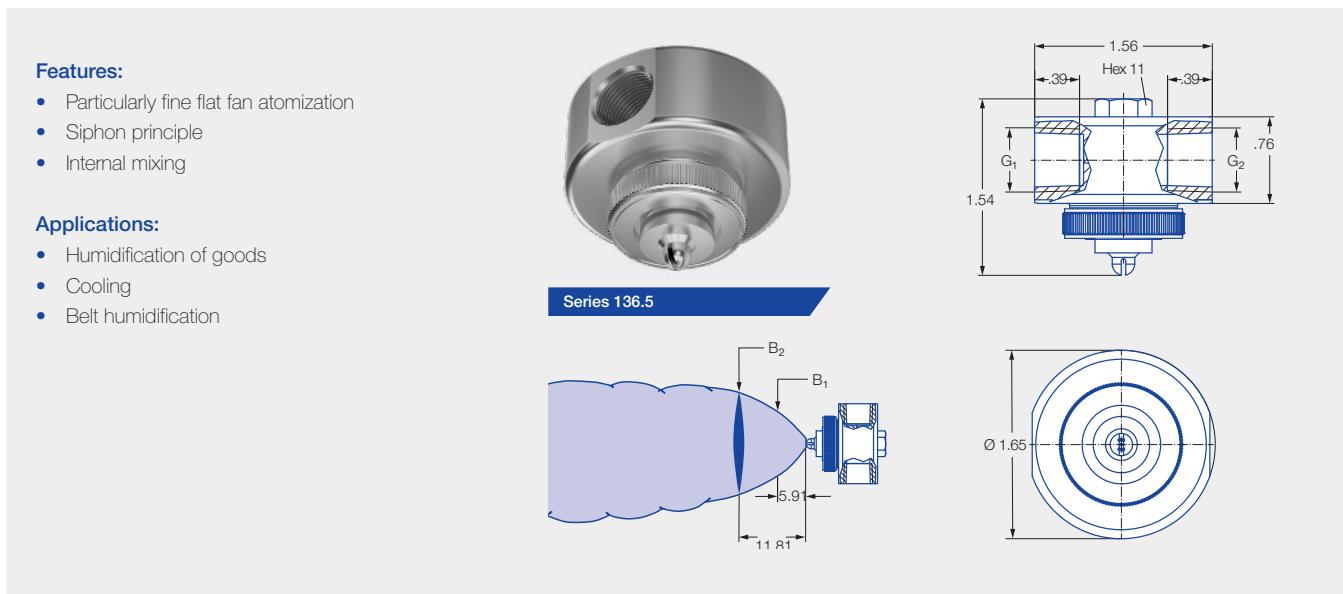


Spray angle	Ordering number			Narrowest free cross section Ø [in]	Liquid pressure p [psi]								Spray dimensions							
	Material number		1Y		10		20		40		60									
	Type	Stainless steel 316L	Stainless steel 303		p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]				
45°					17	5.0	1.5	29	5.8	1.2	44	16.3	2.4	55	20.1	2.7	17	10	5	6
136.462.xx.B2	●	●	0.06	23	3.2	2.0	35	4.8	1.4	49	13.7	2.8	58	18.6	3.0	35	22	5	7	
				29	2.5	2.4	41	3.8	1.6	55	11.8	3.4	61	17.3	3.2	46	29	5	7	
				35	1.9	2.8	46	3.0	1.9	61	10.3	3.9	64	16.2	3.5	55	44	6	8	
				41	1.5	3.2	52	2.3	2.1	67	8.8	4.4	67	15.1	3.8	87	58	6	8	
				46	1.3	3.5	58	2.1	2.3	73	7.8	4.8	70	14.3	3.9	—	—	—	—	
				52	1.0	3.9	64	1.64	2.5	78	6.74	5.2	73	13.6	4.2	—	—	—	—	
				58	0.8	4.2	70	1.2	2.7	84	5.8	5.7	75	13.0	4.5	—	—	—	—	
				64	0.6	4.6	75	0.8	2.9	87	5.4	5.8	78	12.3	4.8	—	—	—	—	
				—	—	—	81	0.4	3.1	—	—	—	81	11.5	5.1	—	—	—	—	
				—	—	—	84	0.2	3.2	—	—	—	84	10.9	5.2	—	—	—	—	
				—	—	—	—	—	—	—	—	—	87	10.3	5.5	—	—	—	—	
60°					12	1.7	0.7	20	2.5	1.0	35	3.5	1.5	35	4.3	1.5	17	10	6	8
136.425.xx.B2	●	●	0.02	17	1.5	0.9	26	2.3	1.2	38	3.4	1.6	41	4.1	1.7	32	22	6	10	
				23	1.2	1.1	32	2.1	1.4	44	3.2	1.8	46	4.0	1.9	44	29	7	10	
				29	1.1	1.4	38	1.9	1.6	49	3.1	2.0	52	3.8	2.1	49	44	8	13	
				35	0.8	1.5	44	1.7	1.8	55	2.9	2.2	58	3.7	2.2	81	58	8	13	
				41	0.7	1.7	49	1.5	2.0	61	2.7	2.4	64	3.5	2.4	—	—	—	—	
				44	0.6	1.8	55	1.3	2.2	67	2.6	2.5	70	3.4	2.6	—	—	—	—	
				—	—	—	58	1.3	2.3	73	2.4	2.7	75	3.2	2.8	—	—	—	—	
				—	—	—	64	1.1	2.5	78	2.3	2.9	81	3.1	3.0	—	—	—	—	
				—	—	—	70	1.0	2.6	84	2.1	3.1	87	3.0	3.2	—	—	—	—	
				—	—	—	75	0.7	2.8	87	2.1	3.2	—	—	—	—	—	—	—	
136.452.xx.B2	●	●	0.06	—	—	—	81	0.6	3.0	—	—	—	—	—	—	—	—	—	—	
				—	—	—	87	0.4	3.2	—	—	—	—	—	—	—	—	—	—	
				15	5.0	2.3	26	8.2	3.1	46	13.2	4.5	55	18.7	4.8	15	10	5	7	
				20	2.3	3.4	29	6.7	3.7	52	10.4	5.5	61	15.5	5.7	26	22	6	9	
				26	2.0	4.1	32	5.3	4.2	58	8.3	6.6	67	12.8	6.6	38	29	6	10	
				32	1.1	4.9	35	4.1	4.7	64	6.3	7.6	73	10.9	7.7	52	44	7	11	
				38	0.3	5.8	38	3.3	5.2	70	4.7	8.5	78	8.9	8.7	73	58	7	11	
136.433.xx.B2	●	●	0.06	41	0.03	6.1	41	2.7	5.7	75	3.5	9.4	84	7.3	9.7	—	—	—	—	
				—	—	—	—	—	—	81	2.8	10.3	87	6.4	10.1	—	—	—	—	
				—	—	—	—	—	—	87	2.3	11.1	—	—	—	—	—	—	—	
				15	3.1	1.2	26	4.8	1.6	44	8.2	2.2	55	9.9	2.6	20	10	6	8	
				17	2.1	1.4	29	4.0	1.9	49	6.7	2.6	61	8.6	2.9	32	22	7	10	
				20	1.4	1.6	32	3.2	2.1	55	5.4	3.0	67	7.3	3.4	44	29	8	12	
				23	1.0	1.9	35	2.6	2.4	61	4.3	3.5	73	6.2	3.8	55	58	12	19	
80°	136.433.xx.B2	●	0.02	—	—	—	38	2.0	2.5	67	3.3	3.9	78	5.1	4.2	75	58	10	16	
				—	—	—	41	1.6	2.8	73	2.5	4.3	84	4.2	4.6	—	—	—	—	
				—	—	—	44	1.2	2.9	78	1.7	4.7	87	3.8	4.9	—	—	—	—	
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Ordering Type + Material no. = Ordering no.
 example: 136.462.xx.B2 + 1Y = 136.462.1Y.B2

➤ Pneumatic atomizing nozzles, wide flat fan, siphon principle, internal mixing

Series 136.5



Liquid connection G ₁	Air connection G ₂	Screw plug thread (size 11)	Weight [lb] (Stainless steel 303 SS)
1/4 NPT	1/4 NPT	5/16-24 UNF-2A	0.5

Spray angle	Ordering number			Narrowest free cross section Ø [in]	Air		V water [gal/h]							Spray dimensions					
	Material number		Type		Air		Water column [in WC]				Aspiration height [in WC]								
	1Y	16			p [psi]	V _n [SCFM]	6	12	18	4	8	12	24	35	p air [psi]	Aspiration height [in WC]	B ₁ [in]	B ₂ [in]	
60°	136.516.xx.B2	●	0.02		12	1.1	—	—	—	0.4	0.4	—	1.17	0.3	15	12	5	6	
					17	1.3	0.5	0.6	0.6	0.5	0.5	0.4	1.41	0.4	44	12	6	8	
					20	1.5	0.5	0.6	0.6	0.5	0.5	0.4	1.47	0.4	67	12	7	9	
					26	1.7	0.5	0.6	0.6	0.5	0.5	0.5	1.53	0.4	87	12	7	9	
					29	1.8	0.5	0.6	0.6	0.5	0.5	0.4	1.50	0.4	—	—	—	—	
					35	2.1	0.5	0.6	0.6	0.5	0.5	0.4	1.47	0.4	—	—	—	—	
					38	2.2	0.5	0.6	0.6	0.5	0.5	0.4	1.44	0.4	—	—	—	—	
					44	2.5	0.5	0.5	0.6	0.5	0.4	0.4	1.44	0.4	—	—	—	—	
					46	2.6	0.5	0.5	0.6	0.4	0.4	0.4	1.59	0.4	—	—	—	—	
					52	2.8	0.5	0.5	0.6	0.5	0.5	0.5	1.68	0.4	—	—	—	—	
					55	2.9	0.5	0.5	0.6	0.5	0.5	0.5	1.71	0.5	—	—	—	—	
					61	3.2	0.5	0.5	0.6	0.5	0.5	0.5	1.68	0.4	—	—	—	—	
					64	3.4	0.5	0.5	0.6	0.5	0.5	0.5	1.74	0.5	—	—	—	—	
					70	3.6	0.5	0.5	0.6	0.5	0.5	0.5	2.04	0.5	—	—	—	—	
					73	3.7	0.6	0.6	0.6	0.6	0.6	0.6	2.10	0.6	—	—	—	—	
					78	4.0	0.6	0.6	0.6	0.6	0.6	0.6	2.04	0.5	—	—	—	—	
					81	4.1	0.6	0.6	0.6	0.6	0.6	0.6	2.01	0.5	—	—	—	—	
					87	4.4	0.6	0.6	0.6	0.6	0.6	0.5	1.92	0.5	—	—	—	—	

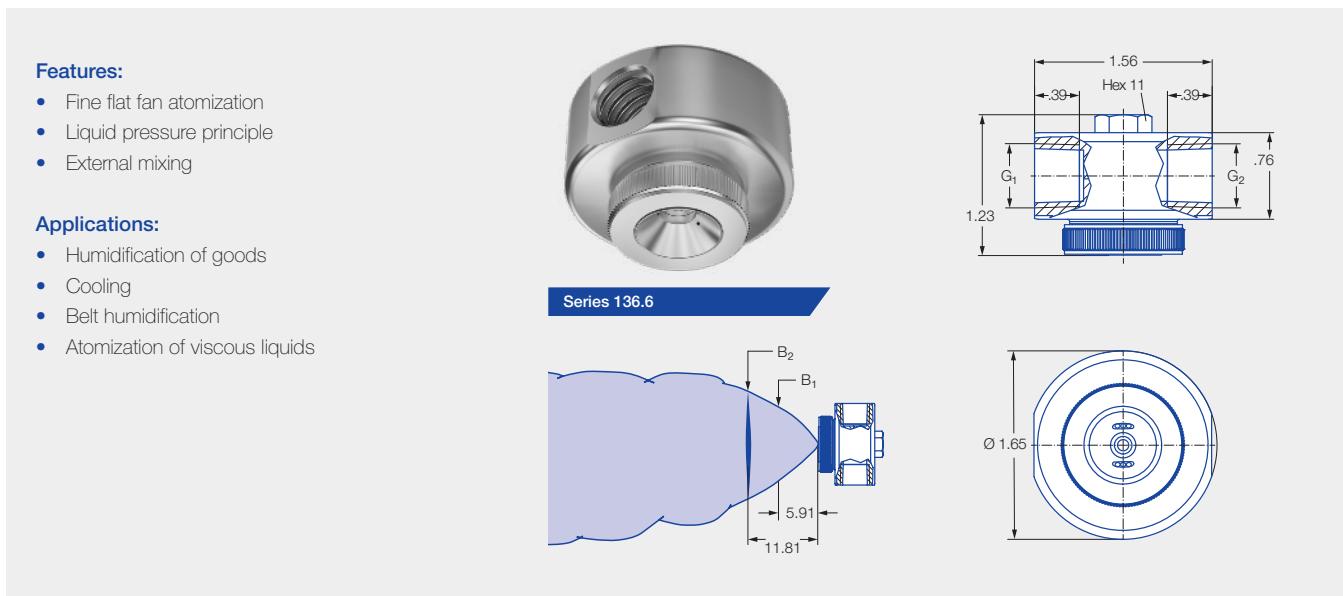


Spray angle	Ordering number			Narrowest free cross section \emptyset [in]	Air		V water [gal/h]							Spray dimensions				
	Material number		1Y				Water column [in WC]			Aspiration height [in WC]								
	1Y	16	1Y		6	12	18	4	8	12	24	35	p air [psi]	Aspiration height [in WS]	B ₁ [in]	B ₂ [in]		
Type	Stainless steel 316L	Stainless steel 303																
60°	136.525.xx.B2	●	●	0.02	9	0.9	—	—	—	0.5	—	—	—	—	15	12	6	9
					12	1.1	—	—	—	0.6	0.6	0.5	—	—	44	12	8	12
					17	1.4	0.7	0.8	—	0.7	0.6	0.6	0.5	0.4	67	12	8	13
					20	1.5	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	87	12	10	16
					26	1.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	—	—	—	—
					29	1.9	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	—	—	—	—
					35	2.2	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	—	—	—	—
					38	2.3	0.7	0.8	0.8	0.7	0.6	0.6	0.5	0.4	—	—	—	—
					44	2.6	0.7	0.7	0.8	0.6	0.6	0.5	0.5	0.5	—	—	—	—
					46	2.7	0.7	0.7	0.7	0.6	0.5	0.5	0.5	0.5	—	—	—	—
					52	3.0	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.5	—	—	—	—
					55	3.1	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.5	—	—	—	—
					61	3.4	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	—	—	—	—
					64	3.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	—	—	—	—
					70	3.8	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	—	—	—	—
					73	3.9	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	—	—	—	—
					78	4.2	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.5	—	—	—	—
					81	4.3	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.5	—	—	—	—
					87	4.6	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 136.525.xx.B2 + 1Y = 136.525.1Y.B2

➤ Pneumatic atomizing nozzles, flat fan, pressure principle, external mixing

Series 136.6



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]	Liquid pressure p [psi]										Spray dimensions					
	Material number		Type		10			20			40			60						
	1Y	16			p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	B ₁ [in]	B ₂ [in]
45°	136.616.xx.B2	●	0.02	12	0.4	1.5	1.4	12	0.6	1.7	1.2	0.9	1.5	15	1.0	1.6	20	1	3	5
				17	0.5	1.8	1.7	15	0.6	2.1	17	0.9	1.8	20	1.0	2.0	32	2	4	5
				23	0.5	2.2	2.1	20	0.7	2.5	23	0.9	2.2	26	1.0	2.4	46	3	4	5
				29	0.6	2.5	2.5	26	0.7	2.9	29	1.0	2.5	32	1.0	2.7	58	4	4	6
				35	0.5	2.9	2.8	32	0.7	3.5	35	1.0	2.9	38	1.0	3.1	73	5	4	6
				41	0.6	3.2	3.2	38	0.7	4.1	41	1.0	3.2	44	1.0	3.4	–	–	–	–
				46	0.6	3.6	3.5	44	0.7	4.6	46	1.0	3.6	49	1.0	3.8	–	–	–	–
				52	0.6	3.9	3.9	52	0.7	5.2	52	1.0	3.9	55	1.0	4.1	–	–	–	–
				58	0.6	4.3	4.3	58	0.7	5.8	58	1.0	4.3	61	1.0	4.5	–	–	–	–
				64	0.6	4.6	4.6	64	0.7	6.4	64	1.0	4.6	67	1.0	4.8	–	–	–	–
				70	0.6	5.0	5.0	70	0.7	7.0	70	1.0	4.9	73	1.0	5.2	–	–	–	–
				75	0.6	5.4	5.4	75	0.7	7.5	75	1.0	5.4	78	1.0	5.5	–	–	–	–
				81	0.6	5.7	5.7	81	0.7	81	81	1.0	5.7	84	1.0	5.9	–	–	–	–
				87	0.6	6.0	6.0	87	0.7	87	87	1.0	6.0	87	1.0	6.0	–	–	–	–





Spray angle	Ordering number			Narrowest free cross section \emptyset [in]	Liquid pressure p [psi]										Spray dimensions					
	Type	Material number			10					20					40					
		Stainless steel 316L	Stainless steel 303		p air [psi]	V_n water [gal/h]	V_n air [SCFM]	p air [psi]	V_n water [gal/h]	V_n air [SCFM]	p air [psi]	V_n water [gal/h]	V_n air [SCFM]	p air [psi]	V_n water [gal/h]	V_n air [SCFM]	p air [psi]	B_1 [in]	B_2 [in]	
45°	136.635.xx.B2	●	●	0.02	12	0.63	1.5	12	0.91	1.4	12	1.3	1.4	15	1.4	1.6	20	1	3	5
					17	0.69	1.8	17	0.94	1.8	17	1.3	1.8	20	1.4	2.0	32	2	4	5
					23	0.8	2.2	23	1.0	2.2	23	1.3	2.2	26	1.4	2.4	46	3	4	5
					29	0.8	2.5	29	1.0	2.5	30	1.3	2.5	32	1.4	2.7	58	4	4	6
					35	0.8	2.9	35	1.0	2.9	35	1.4	2.9	38	1.5	3.1	73	5	4	6
					41	0.8	3.2	41	1.0	3.2	41	1.4	3.2	44	1.5	3.4	—	—	—	—
					46	0.8	3.6	46	1.0	3.6	46	1.4	3.6	49	1.5	3.8	—	—	—	—
					52	0.8	3.9	52	1.0	3.9	52	1.4	3.9	55	1.5	4.1	—	—	—	—
					58	0.8	4.3	58	1.0	4.2	58	1.4	4.3	61	1.5	4.5	—	—	—	—
					64	0.8	4.6	64	1.0	4.6	64	1.4	4.6	67	1.5	4.8	—	—	—	—
					70	0.8	4.9	70	1.0	4.9	70	1.4	4.9	73	1.5	5.1	—	—	—	—
					75	0.8	5.3	75	1.0	5.3	75	1.4	5.3	78	1.5	5.5	—	—	—	—
					81	0.8	5.7	81	1.0	5.7	81	1.4	5.7	84	1.5	5.8	—	—	—	—
					87	0.8	6.0	87	1.0	6.0	87	1.4	6.0	87	1.5	6.0	—	—	—	—
60°	136.654.xx.B2	●	●	0.03	12	1.4	1.4	12	1.9	1.4	17	2.7	1.8	23	2.9	2.2	20	1	4	5
					17	1.5	1.8	17	2.0	1.8	23	2.7	2.2	29	3.0	2.5	32	2	4	6
					23	1.5	2.2	23	2.0	2.2	29	2.7	2.5	35	3.0	2.9	46	3	4	6
					29	1.6	2.5	29	2.1	2.5	35	2.8	2.9	41	3.0	3.2	58	4	4	6
					35	1.6	2.9	35	2.1	2.9	41	2.8	3.2	46	3.0	3.6	73	5	4	6
					41	1.7	3.2	41	2.1	3.2	46	2.8	3.6	52	3.0	3.9	—	—	—	—
					46	1.7	3.6	46	2.1	3.6	52	2.8	3.9	58	3.0	4.2	—	—	—	—
					52	1.7	3.9	52	2.1	3.9	58	2.8	4.2	64	3.0	4.6	—	—	—	—
					58	1.7	4.2	58	2.1	4.2	64	2.8	4.6	70	3.0	4.9	—	—	—	—
					64	1.7	4.6	64	2.1	4.6	70	2.8	4.9	75	3.0	5.3	—	—	—	—
					70	1.7	4.9	70	2.1	4.9	75	2.8	5.3	81	3.0	5.7	—	—	—	—
					75	1.6	5.3	75	2.1	5.3	81	2.8	5.7	87	2.9	5.9	—	—	—	—
					81	1.6	5.7	81	2.1	5.7	87	2.7	6.0	—	—	—	—	—	—	—
					87	1.5	6.0	87	2.0	6.0	—	—	—	—	—	—	—	—	—	—
60°	136.626.xx.B2	●	●	0.02	12	0.5	1.6	12	0.7	1.6	12	0.9	1.6	12	1.0	1.6	23	1	3	5
					17	0.5	2.1	17	0.7	2.1	17	1.0	2.1	17	1.0	2.1	35	2	4	6
					23	0.6	2.5	23	0.7	2.5	23	1.0	2.5	23	1.0	2.5	46	3	4	6
					29	0.6	2.9	29	0.7	2.9	29	1.0	2.9	29	1.0	2.9	58	4	4	6
					35	0.6	3.3	35	0.8	3.3	35	1.0	3.3	35	1.0	3.3	75	5	4	6
					41	0.6	3.7	41	0.8	3.7	41	1.0	3.7	41	1.1	3.7	—	—	—	—
					46	0.6	4.1	46	0.8	4.1	46	1.0	4.1	46	1.1	4.1	—	—	—	—
					52	0.6	4.5	52	0.8	4.5	52	1.0	4.5	52	1.1	4.5	—	—	—	—
					58	0.6	4.9	58	0.8	4.9	58	1.0	4.9	58	1.1	4.9	—	—	—	—
					64	0.6	5.3	64	0.8	5.3	64	1.0	5.3	64	1.1	5.3	—	—	—	—
					70	0.6	5.7	70	0.8	5.7	70	1.0	5.7	70	1.1	5.7	—	—	—	—
					75	0.6	6.1	75	0.8	6.1	75	1.0	6.1	75	1.1	6.1	—	—	—	—
					81	0.6	6.6	81	0.8	6.5	81	1.0	6.5	81	1.1	6.5	—	—	—	—
					87	0.6	6.9	87	0.8	6.9	87	1.0	6.9	87	1.1	6.9	—	—	—	—





Spray angle	Ordering number			Narrowest free cross section Ø [in]	Liquid pressure p [psi]										Spray dimensions					
	Type	Material number			10					20					40		60			
		Stainless steel 316L	Stainless steel 303		p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	B ₁ [in]	B ₂ [in]	
60°	136.645.xx.B2	●	●	0.02	12	40	1.6	12	0.97	1.6	15	1.4	1.9	1.00	1.5	1.8	23	1	4	6
					17	41	2.1	17	1.02	2.1	20	1.4	2.3	1.40	1.5	2.3	35	2	4	6
					23	45	2.5	23	1.1	2.5	26	1.4	2.7	1.80	1.5	2.7	46	3	5	6
					29	47	2.9	29	1.1	2.9	32	1.4	3.1	2.20	1.5	3.1	58	4	5	6
					35	49	3.3	35	1.1	3.3	38	1.4	3.5	2.60	1.5	3.5	75	5	5	6
					41	49	3.6	41	1.1	3.7	44	1.5	3.9	3.00	1.5	3.9	—	—	—	—
					46	50	4.1	46	1.1	4.1	49	1.5	4.2	3.40	1.6	4.3	—	—	—	—
					52	50	4.5	52	1.1	4.5	55	1.5	4.7	3.80	1.6	4.7	—	—	—	—
					58	51	4.9	58	1.1	4.9	61	1.5	5.1	4.20	1.6	5.1	—	—	—	—
					64	51	5.3	64	1.1	5.3	67	1.5	5.5	4.60	1.6	5.5	—	—	—	—
					70	52	5.7	70	1.2	5.7	73	1.5	5.9	5.00	1.6	5.9	—	—	—	—
					75	52	6.1	75	1.1	6.1	78	1.5	6.3	5.40	1.6	6.3	—	—	—	—
					81	52	6.5	81	1.1	6.5	84	1.5	6.7	5.80	1.6	6.7	—	—	—	—
					87	52	6.9	87	1.2	6.9	87	1.5	6.9	6.00	1.6	6.9	—	—	—	—
					12	79	1.6	15	2.0	1.9	15	2.8	1.9	1.00	3.0	1.9	23	1	4	6
					17	86	2.1	20	2.1	2.3	20	2.8	2.3	1.40	3.0	2.3	35	2	5	6
					23	89	2.5	26	2.1	2.7	26	2.9	2.7	1.80	3.1	2.6	46	3	6	7
					29	93	2.9	32	2.2	3.1	32	2.9	3.1	2.20	3.1	3.1	58	4	6	7
					35	96	3.3	38	2.2	3.5	38	2.9	3.5	2.60	3.1	3.5	75	5	6	8
					41	98	3.7	44	2.3	3.9	44	2.9	3.9	3.00	3.1	3.9	—	—	—	—
					46	101	4.1	49	2.3	4.3	49	3.0	4.3	3.40	3.2	4.3	—	—	—	—
					52	101	4.5	55	2.3	4.7	55	3.0	4.7	3.80	3.2	4.7	—	—	—	—
					58	102	4.9	61	2.3	5.1	61	3.0	5.1	4.20	3.2	5.1	—	—	—	—
					64	103	5.3	67	2.3	5.5	67	3.0	5.5	4.60	3.2	5.5	—	—	—	—
					70	103	5.7	73	2.3	5.9	73	3.0	5.9	5.00	3.2	5.9	—	—	—	—
					75	104	6.1	78	2.3	6.3	78	3.0	6.3	5.40	3.2	6.3	—	—	—	—
					81	103	6.5	84	2.3	6.7	84	3.0	6.7	5.80	3.2	6.7	—	—	—	—
					87	104	6.9	87	2.3	6.9	87	3.0	6.9	6.00	3.2	6.9	—	—	—	—
					9	201	3.3	15	4.89	4.5	23	6.6	10.20	2.00	7.0	6.9	23	1	5	6
					15	207	4.5	20	4.89	5.5	29	6.5	11.70	6.9	7.0	7.9	35	2	5	6
					20	207	5.5	26	4.8	6.5	35	6.5	13.30	7.8	6.8	8.9	46	3	5	6
					26	205	6.5	32	4.7	7.5	41	6.2	15.10	8.9	6.5	9.8	58	4	5	6
					32	198	7.4	38	4.6	8.4	46	5.9	16.60	9.8	6.2	10.8	75	5	5	7
					38	198	8.4	44	4.4	9.4	52	5.6	18.40	10.8	5.8	11.7	—	—	—	—
					44	193	11.1	49	4.2	10.2	58	5.3	19.80	11.7	5.4	12.7	—	—	—	—
					49	187	10.2	55	4.0	11.2	64	5.0	21.50	12.7	5.1	13.6	—	—	—	—
					55	182	11.2	61	3.9	12.2	70	4.6	23.20	13.7	4.8	14.5	—	—	—	—
					61	177	12.2	67	3.7	13.1	75	4.4	24.80	14.6	4.5	15.5	—	—	—	—
					67	171	13.2	73	3.5	14.1	81	4.1	26.40	15.5	4.2	16.5	—	—	—	—
					73	159	14.1	78	3.2	15.1	84	4.0	27.30	16.1	—	—	—	—	—	—
					78	151	15.1	84	3.0	16.0	87	3.9	28.00	16.5	—	—	—	—	—	—
					84	139	16.0	87	2.9	16.5	—	—	—	—	—	—	—	—	—	—
					87	130	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—





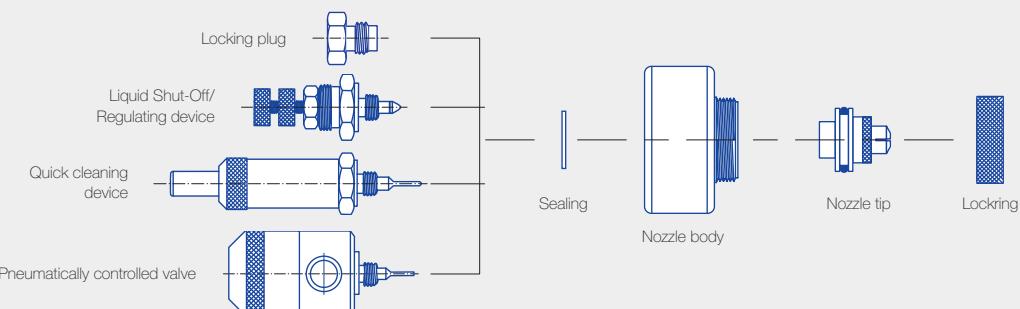
Spray angle	Ordering number			Narrowest free cross section Ø [in]	Liquid pressure p [psi]										Spray dimensions						
	Type	Material number			10					20					40			60			
		Stainless steel 316L	Stainless steel 303		p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	B ₁ [in]	B ₂ [in]		
60°	136.682.xx.B2	●	●	0.06	15	5.9	4.4	20	7.6	5.5	26	10.9	6.5	29	11.6	6.9	23	1	4	6	
					20	5.3	5.5	26	6.9	6.4	32	9.2	7.4	35	10.3	7.9	35	2	5	6	
					26	5.0	6.5	32	6.3	7.4	38	8.8	8.4	41	9.3	8.9	46	3	5	6	
					32	4.7	7.4	38	5.9	8.4	44	8.0	9.4	46	8.5	9.8	58	4	5	6	
					38	4.5	8.4	44	5.6	9.4	49	7.5	10.3	52	8.0	10.8	75	5	5	7	
					44	4.4	9.4	49	5.3	10.3	55	7.0	11.2	58	7.5	11.7	—	—	—	—	
					49	4.2	10.3	55	5.1	11.2	61	6.7	12.2	64	7.1	12.7	—	—	—	—	
					55	4.2	11.2	61	5.0	12.2	67	6.4	13.1	70	6.8	13.6	—	—	—	—	
					61	4.2	12.2	67	4.9	13.1	73	6.1	14.1	75	6.4	14.6	—	—	—	—	
					67	4.2	13.1	73	4.8	14.1	78	5.8	15.0	81	6.2	15.5	—	—	—	—	
					73	4.0	14.1	78	4.6	14.9	84	5.6	16.0	87	5.9	16.5	—	—	—	—	
					78	3.7	15.0	84	4.2	16.0	87	5.5	16.5	—	—	—	—	—	—	—	
					84	3.2	16.0	87	3.9	16.5	—	—	—	—	—	—	—	—	—	—	
					87	2.9	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	
60°	136.691.xx.B2	●	●	0.10	20	13.7	8.1	29	17.8	10.3	38	24.4	12.5	38	27.0	12.5	23	1	6	8	
					26	13.2	9.6	35	17.1	11.8	44	23.2	13.9	44	25.7	13.9	35	2	6	8	
					32	12.8	11.1	41	16.4	13.2	49	22.3	15.3	49	24.4	15.4	46	3	6	8	
					38	12.5	12.5	46	16.0	14.7	55	21.3	16.8	55	23.4	16.8	58	4	6	8	
					44	12.3	13.9	52	15.3	16.1	61	20.3	18.2	61	22.5	18.2	75	5	6	8	
					49	12.0	15.4	58	14.8	17.5	67	19.7	19.7	67	21.5	19.7	—	—	—	—	
					55	11.7	16.8	64	14.3	18.9	73	18.8	21.1	73	20.7	21.1	—	—	—	—	
					61	11.3	18.2	70	13.8	20.4	78	18.0	22.5	78	19.6	22.5	—	—	—	—	
					67	11.0	19.7	75	13.2	21.8	84	17.0	24.0	84	18.8	24.0	—	—	—	—	
					73	10.5	21.1	81	12.7	23.2	87	16.7	24.7	87	18.2	24.7	—	—	—	—	
					78	10.3	22.5	87	12.3	24.7	—	—	—	—	—	—	—	—	—	—	
					81	10.2	23.2	—	—	—	—	—	—	—	—	—	—	—	—	—	

Ordering Type + Material no. = Ordering no.
example: 136.682.xx.B2 + 1Y = 136.682.1Y.B2

Accessories for pneumatic atomizing nozzles

Series 136.1 to 136.6

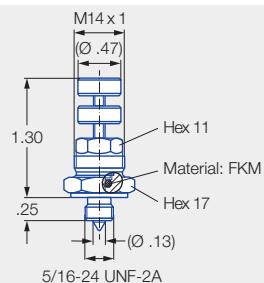
Overview of accessories



Regulating device and shut-off needle

Enables manual regulation of the flow rate and closing of the nozzle.

Material: Stainless steel 303
Weight: .07 lb



Ordering no.

Type

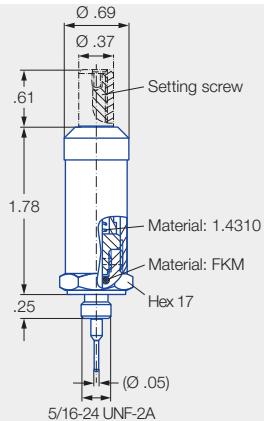
015.600.16

Suitable for all nozzles of series 136

Regulating device with quick-cleaning needle

Enables manual regulation of the flow rate and cleaning of the nozzle orifice.

Material: Stainless steel 303
Weight: .17 lb



Ordering number

Type

For nozzles

Needle diameter D [in]

013.601.16.30

136.xx1

0.08

013.602.16.30

136.xx2

0.05

013.603.16.30

136.xx3

0.03

013.604.16.30

136.xx4

0.02

013.605.16.30

136.xx5

0.02

013.606.16.30

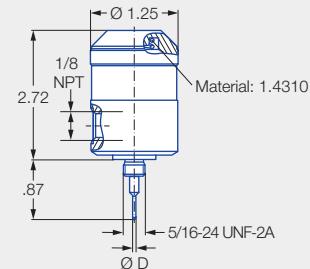
136.xx6

0.01

Pneumatically controlled valve. Opening pressure 30 psi, max. 180 cycles/min.

External control system via separate compressed air connection for switching the nozzle on and off.

Material: Stainless steel 303
Weight: .51 lb

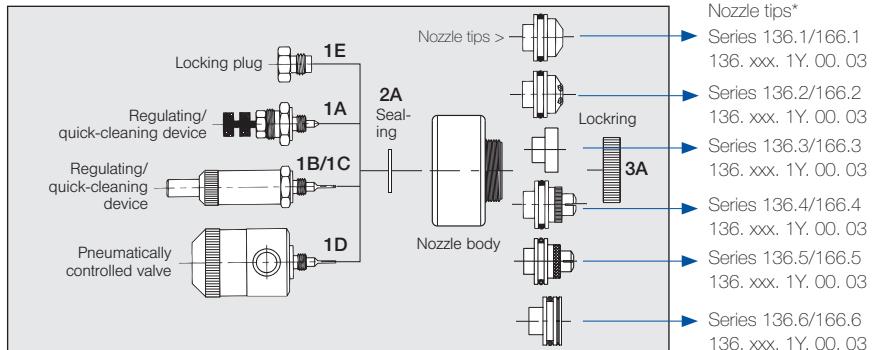


Ordering number	For nozzles	Needle diameter D [in]
Type		
013.601.16.10	136.xx1	0.08
013.602.16.10	136.xx2	0.05
013.603.16.10	136.xx3	0.03
013.604.16.10	136.xx4	0.02
013.605.16.10	136.xx5	0.02
013.606.16.10	136.xx6	0.01

1E for Series 136/166
Locking plug
136. 000. 1Y. 00. 04

2A for Series 136
Seal
095. 015. 7A. 03. 04

3A for Series 136/166
Lockring
136. 000. 1Y. 00. 07



➤ Pneumatic atomizing nozzles, full cone, pressure principle, internal mixing

Series 166.1

Features:

- Version with magnetic valve
- Fine full cone atomization
- Liquid pressure principle
- Internal mixing

Applications:

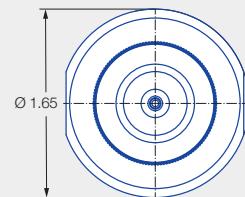
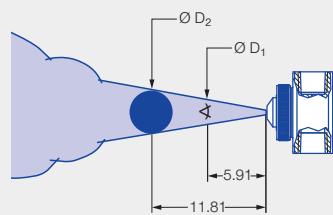
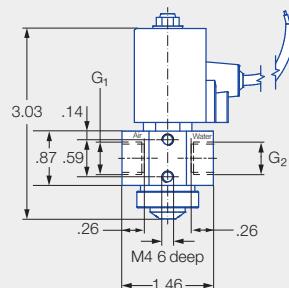
- Humidification
- Cooling

Technical data:

- Operating pressure: 0–87 psi
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency: Approx. 500/min
- Protective system: IP 67
- Ambient temperature: +50 °C/+122 °F
- Cable length: 39.37 in
- Material of gasket: EPDM



Series 166.1



Air connection G ₁	Water connection G ₂	Weight [lb]
1/4 NPT	1/4 NPT	0.91

Spray angle	Ordering number	Narrowest free cross section Ø [in]	Liquid pressure p [psi]								Spray dimensions							
			10		20		40		60									
			p air [psi]	V _w water [gal/h]	p air [SCFM]	V _w water [gal/h]	p air [psi]	V _w water [gal/h]	p air [psi]	V _w water [gal/h]	p air [psi]	p water [psi]	Ø D ₁ [in]	Ø D ₂ [in]				
20°	166.115.xx.B2	0.02	6	1.56	0.3	0.2	1.5	0.5	35	2.4	0.6	44	2.9	0.7	12	10	2	4
			12	1.00	0.6	0.4	1.1	0.6	41	2.0	0.7	49	2.5	0.8	26	22	2	4
			17	0.45	0.9	0.5	0.6	0.8	46	1.6	0.9	55	2.2	0.9	38	29	2	4
			—	—	2.6	0.3	1.0	52	1.2	1.1	61	1.8	1.1	46	44	2	4	
			—	—	—	—	—	58	0.8	1.2	67	1.5	1.3	64	58	2	4	
			—	—	—	—	—	64	0.5	1.5	73	1.1	1.5	—	—	—	—	
			—	—	—	—	—	70	0.3	1.6	78	0.8	1.6	—	—	—	—	
			—	—	—	—	—	75	0.1	1.8	84	0.6	1.8	—	—	—	—	
	166.125.xx.B2	0.02	12	1.24	1.5	0.9	1.8	1.1	41	2.4	1.9	49	2.8	2.3	20	10	2	4
			17	1.16	1.9	1.1	1.7	1.3	46	2.3	2.2	55	2.7	2.5	32	22	2	4
			23	1.06	2.3	1.4	1.6	1.5	52	2.2	2.4	61	2.6	2.7	41	29	2	4
			29	0.92	2.6	1.5	1.5	1.8	58	2.1	2.6	67	2.5	2.9	49	44	2	4
			35	0.79	3.0	1.8	1.4	2.0	64	2.0	2.8	73	2.5	3.2	61	58	2	4
			41	0.71	3.2	1.9	1.3	2.2	70	1.9	3.1	78	2.4	3.4	—	—	—	—
			46	0.53	3.7	2.2	1.2	2.4	75	1.8	3.3	84	2.3	3.6	—	—	—	—
			52	0.42	4.1	2.4	1.0	2.6	81	1.7	3.5	—	—	—	—	—	—	—
			58	0.34	4.5	2.6	0.9	2.8	87	1.6	3.7	—	—	—	—	—	—	—
			64	0.26	4.9	2.9	0.8	3.1	—	—	—	—	—	—	—	—	—	—
			70	0.16	5.2	3.1	0.7	3.3	—	—	—	—	—	—	—	—	—	—
			—	—	3.3	0.6	3.5	—	—	—	—	—	—	—	—	—	—	—
			—	—	—	3.5	0.5	3.7	—	—	—	—	—	—	—	—	—	—





Spray angle	Type	Ordering number Material number 16	Narrowest free cross section Ø [in]	Liquid pressure p [psi]								Spray dimensions							
				10		20		40		60									
				p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	V water [gal/h]	V _n air [SCFM]	p air [psi]	p water [psi]	Ø D ₁ [in]	Ø D ₂ [in]			
20°	166.134.xx.B2	●	0.03	17	3.5	1.6	29	5.1	2.3	44	7.5	3.1	55	8.6	1.6	26	10	2	4
				23	3.3	1.9	35	4.8	2.6	49	7.3	3.4	61	8.5	1.8	41	22	2	4
				29	3.1	2.3	41	4.6	2.9	55	7.1	3.7	67	8.3	1.9	55	29	2	4
				35	3.0	2.6	46	4.4	3.2	61	6.8	4.0	73	8.1	2.1	75	44	3	4
				41	2.9	2.9	52	4.3	3.5	67	6.6	4.3	78	7.9	2.2	87	58	3	4
				46	2.9	3.2	58	4.1	3.8	73	6.4	4.6	84	7.7	2.4	—	—	—	—
				52	2.8	3.5	64	4.0	4.1	78	6.2	4.9	—	—	—	—	—	—	—
				58	2.7	3.8	70	4.0	4.5	84	6.1	5.2	—	—	—	—	—	—	—
				64	2.7	4.1	75	3.9	4.8	—	—	—	—	—	—	—	—	—	—
				70	2.6	4.5	81	3.7	5.1	—	—	—	—	—	—	—	—	—	—
				75	2.5	4.8	87	3.6	5.4	—	—	—	—	—	—	—	—	—	—
				81	2.4	5.1	—	—	—	—	—	—	—	—	—	—	—	—	—
				87	2.2	5.4	—	—	—	—	—	—	—	—	—	—	—	—	—
				20	6.4	3.0	23	14.1	2.8	46	18.7	4.7	55	24.6	2.4	12	10	2	4
				26	5.4	3.7	29	11.3	3.5	52	16.5	5.4	61	22.0	2.7	23	22	3	4
				32	5.3	4.2	35	9.3	4.2	58	14.7	6.2	67	19.9	3.0	44	29	2	4
166.142.xx.B2	●	0.10	0.10	38	5.1	4.8	41	8.0	4.9	64	13.0	6.9	73	18.2	3.3	58	44	3	4
				44	4.6	5.5	46	7.6	5.6	70	11.8	7.6	78	16.8	3.6	87	58	3	4
				49	4.4	6.1	52	7.5	6.2	75	11.1	8.3	84	15.2	3.9	—	—	—	—
				55	4.5	6.7	58	7.2	6.8	81	10.7	8.9	—	—	—	—	—	—	—
				61	4.3	7.3	64	6.8	7.4	87	10.5	9.5	—	—	—	—	—	—	—
				67	4.0	7.8	70	6.4	7.9	—	—	—	—	—	—	—	—	—	—
				73	3.7	8.4	75	5.9	8.6	—	—	—	—	—	—	—	—	—	—
				78	3.5	9.0	81	5.8	9.2	—	—	—	—	—	—	—	—	—	—
				84	3.3	9.5	87	5.7	9.8	—	—	—	—	—	—	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 166.134.xx.B2 + 16 = 166.134.16.B2

Pneumatic atomizing nozzles, wide full cone, pressure principle, internal mixing

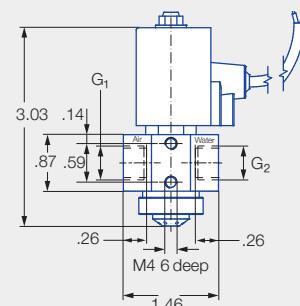
Series 166.2

Features:

- Version with magnetic valve
- Fine full cone atomization
- Pressure principle
- Internal mixing
- Extra wide spray angle of 60°



Series 166.2

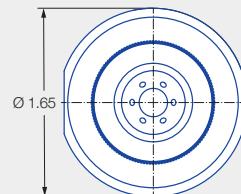
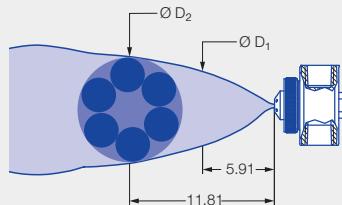


Applications:

- Humidification of air
- Cooling

Technical data:

- Operating pressure: 0–87 psi
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency: Approx. 500/min
- Protective system: IP 67
- Ambient temperature: +50 °C /+122 °F
- Cable length: 39.37 in
- Material of gasket: EPDM



Air connection G ₁	Water connection G ₂	Weight [lb]
1/4 NPT	1/4 NPT	0.90

Spray angle	Ordering number	Narrowest free cross section Ø [in]	Liquid pressure p [psi]												Spray dimensions			
			10			20			40			60						
			p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	
60°	166.215.xx.B2	0.02	15	0.8	0.8	23	1.5	1.0	41	2.2	1.4	55	2.5	1.8	15	10	8	330
			17	0.5	0.9	26	1.3	1.1	46	1.9	1.6	61	2.2	2.1	23	22	9	380
			20	0.2	1.1	29	1.0	1.2	52	1.5	1.9	67	1.8	2.3	35	29	9	385
			—	—	—	32	0.7	1.4	58	1.1	2.1	73	1.4	2.5	46	44	10	390
			—	—	—	35	0.4	1.5	64	0.6	2.4	78	1.0	2.8	61	58	10	410
	166.222.xx.B2	0.04	—	—	—	38	0.2	1.6	70	0.2	2.6	84	0.6	3.1	—	—	—	—
			—	—	—	—	—	73	0.1	2.7	87	0.4	3.3	—	—	—	—	—
			12	4.6	1.6	23	6.8	2.4	44	10.7	3.4	55	14.5	3.8	12	10	10	450
			15	1.6	2.5	26	3.9	3.1	46	8.3	4.1	58	12.0	4.3	23	22	10	465
			—	—	—	29	1.8	3.9	49	5.9	4.8	61	9.9	5.0	33	29	10	465
16°	166.231.xx.B2	0.06	—	—	—	32	0.5	4.8	52	3.9	5.6	64	7.8	5.7	46	44	10	465
			—	—	—	—	—	55	2.2	6.5	67	5.7	6.6	61	58	10	465	
			—	—	—	—	—	58	1.2	7.2	70	4.0	7.3	—	—	—	—	—
			—	—	—	—	—	—	—	—	73	2.6	8.1	—	—	—	—	—
			—	—	—	—	—	—	—	—	75	1.6	8.9	—	—	—	—	—
	166.232.xx.B2	0.06	—	—	—	—	—	—	—	—	78	0.8	9.7	—	—	—	—	—
			23	6.8	3.0	38	11.7	4.1	52	24.8	4.6	61	35.1	4.3	29	10	9	15
			29	4.7	3.6	44	8.7	4.8	58	20.7	5.5	67	31.0	5.3	38	22	10	16
			35	3.0	4.2	49	6.5	5.4	64	17.4	6.2	73	26.7	6.1	35	29	10	17
			41	1.8	4.8	55	4.8	6.0	70	14.5	7.0	78	23.2	6.9	52	44	10	17
	166.233.xx.B2	0.06	—	—	—	61	3.5	6.6	75	12.0	7.7	84	20.2	7.8	61	58	10	17
			—	—	—	67	2.5	7.1	81	10.0	8.3	87	18.8	8.1	—	—	—	—
			—	—	—	—	—	87	9.5	8.5	—	—	—	—	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 166.215.xx.B2 + 16 = 166.215.16.B2

Pneumatic atomizing nozzles, flat fan, pressure principle, internal mixing

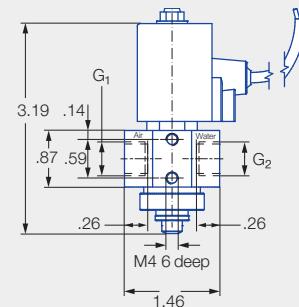
Series 166.4

Features:

- Version with magnetic valve
- Fine flat fan atomization
- Liquid pressure principle
- Internal mixing



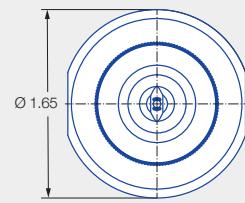
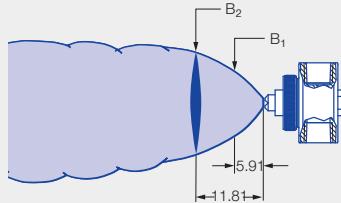
Series 166.4

**Applications:**

- Belt humidification
- Cooling
- Humidification of goods

Technical data:

- Operating pressure: 0–87 psi
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency: Approx. 500/min
- Protective system: IP 67
- Ambient temperature: +50 °C /+122 °F
- Cable length: 39.37 in
- Material of gasket: EPDM



Air connection G ₁	Water connection G ₂	Weight [lb]
1/4 NPT	1/4 NPT	0.90

Spray angle	Ordering number Material number	Narrowest free cross section Ø [in]	Liquid pressure p [psi]								Spray dimensions							
			10		20		40		60									
			p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gal/h]	V _{air} [SCFM]				
45°	166.414.xx.B2	0.03	15	2.0	0.8	20	3.8	0.9	32	5.9	1.2	44	6.6	1.5	20	10	3	5
			17	1.6	0.9	23	3.4	0.9	38	5.3	1.4	49	6.1	1.6	35	22	4	6
			20	1.1	1.0	26	3.1	1.1	44	4.7	1.5	55	5.5	1.8	46	29	4	6
			23	0.7	1.1	29	2.7	1.2	49	4.1	1.8	61	5.0	2.1	55	44	5	7
			26	0.3	1.2	32	2.4	1.3	55	3.5	2.0	67	4.5	2.2	67	58	5	8
			—	—	—	35	2.0	1.4	61	2.9	2.2	73	3.9	2.5	—	—	—	—
			—	—	—	38	1.6	1.5	67	2.3	2.4	78	3.4	2.7	—	—	—	—
			—	—	—	41	1.2	1.6	73	1.7	2.6	84	2.9	2.9	—	—	—	—
			—	—	—	44	0.8	1.8	78	1.1	2.9	87	2.6	3.1	—	—	—	—
			—	—	—	46	0.6	1.9	84	0.7	3.1	—	—	—	—	—	—	—
			—	—	—	49	0.3	2.0	87	0.4	3.2	—	—	—	—	—	—	—
45°	166.462.xx.B2	0.06	17	5.0	1.5	29	5.8	1.2	44	16.3	2.4	55	20.1	2.7	17	10	5	6
			23	3.2	2.0	35	4.8	1.4	49	13.7	2.8	58	18.6	3.0	35	22	5	7
			29	2.5	2.4	41	3.8	1.6	55	11.8	3.4	61	17.3	3.2	46	29	5	7
			35	1.9	2.8	46	3.0	1.9	61	10.3	3.9	64	16.2	3.5	55	44	6	8
			41	1.5	3.2	52	2.3	2.1	67	8.8	4.4	67	15.1	3.8	87	58	6	8
			46	1.3	3.5	58	2.1	2.3	73	7.8	4.8	70	14.3	3.9	—	—	—	—
			52	1.0	3.9	64	1.6	2.5	78	6.7	5.2	73	13.6	4.2	—	—	—	—
			58	0.8	4.2	70	1.2	2.7	84	5.8	5.7	75	13.0	4.5	—	—	—	—
			64	0.6	4.6	75	0.8	2.9	87	5.4	5.8	78	12.3	4.8	—	—	—	—
			—	—	—	81	0.4	3.1	—	—	—	81	11.5	5.1	—	—	—	—
			—	—	—	84	0.2	3.2	—	—	—	84	10.9	5.2	—	—	—	—
			—	—	—	—	—	—	—	—	—	87	10.3	5.5	—	—	—	—





Spray angle	Ordering number Material number	Narrowest free cross section Ø [in]	Liquid pressure p [psi]												Spray dimensions				
			10			20			40			60							
			p _{air} [psi]	ṁ _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	ṁ _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	ṁ _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	ṁ _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	ṁ _{water} [gai/h]	B ₁ [m]	B ₂ [m]	
60°	166.425.xx.B2	●	0.02	12	1.7	0.7	20	2.5	1.0	35	3.5	1.5	35	16.1	4.3	17	10	6	8
				17	1.5	0.9	26	2.3	1.2	38	3.4	1.6	41	15.5	4.1	32	22	6	10
				23	1.2	1.1	32	2.1	1.4	44	3.2	1.8	46	15.0	4.0	44	29	7	10
				29	1.1	1.4	38	1.9	1.6	49	3.1	2.0	52	14.5	3.8	49	44	8	13
				35	0.8	1.5	44	1.7	1.8	55	2.9	2.2	58	13.9	3.7	81	58	8	13
				41	0.7	1.7	49	1.5	2.0	61	2.7	2.4	64	13.4	3.5	—	—	—	—
				44	0.6	1.8	55	1.3	2.2	67	2.6	2.5	70	12.8	3.4	—	—	—	—
				—	—	—	58	1.3	2.3	73	2.4	2.7	75	12.2	3.2	—	—	—	—
				—	—	—	64	1.1	2.5	78	2.3	2.9	81	11.7	3.1	—	—	—	—
				—	—	—	70	1.0	2.6	84	2.1	3.1	87	11.2	3.0	—	—	—	—
				—	—	—	75	0.7	2.8	87	2.1	3.2	—	—	—	—	—	—	—
				—	—	—	81	0.6	3.0	—	—	—	—	—	—	—	—	—	—
				—	—	—	87	0.4	3.2	—	—	—	—	—	—	—	—	—	—
166.452.xx.B2		●	0.06	15	5.0	2.3	26	8.2	3.1	46	13.2	4.5	55	18.7	4.8	15	10	5	7
				20	2.3	3.4	29	6.7	3.7	52	10.4	5.5	61	15.5	5.7	26	22	6	9
				26	2.0	4.1	32	5.3	4.2	58	8.3	6.6	67	12.8	6.6	38	29	6	10
				32	1.1	4.9	35	4.1	4.7	64	6.3	7.6	73	10.9	7.7	52	44	7	11
				38	0.3	5.8	38	3.3	5.2	70	4.7	8.5	78	8.9	8.7	73	58	7	11
				41	0.03	6.1	41	2.7	5.7	75	3.5	9.4	84	7.3	9.7	—	—	—	—
				—	—	—	—	—	—	81	2.8	10.3	87	6.4	10.1	—	—	—	—
				—	—	—	—	—	—	87	2.3	11.1	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
80°	166.433.xx.B2	●	0.02	15	3.1	1.2	26	4.8	1.6	44	8.2	2.2	55	9.9	2.6	20	10	6	8
				17	2.1	1.4	29	4.0	1.9	49	6.7	2.6	61	8.6	2.9	32	22	7	10
				20	1.4	1.6	32	3.2	2.1	55	5.4	3.0	67	7.3	3.4	44	29	8	12
				23	1.0	1.9	35	2.6	2.4	61	4.3	3.5	73	6.2	3.8	55	58	12	19
				—	—	—	38	2.0	2.5	67	3.3	3.9	78	5.1	4.2	75	58	10	16
				—	—	—	41	1.6	2.8	73	2.5	4.3	84	4.2	4.6	—	—	—	—
				—	—	—	44	1.2	2.9	78	1.7	4.7	87	3.8	4.9	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 166.425.xx.B2 + 16 = 166.425.16.B2

Pneumatic atomizing nozzles, flat fan, pressure principle, external mixing

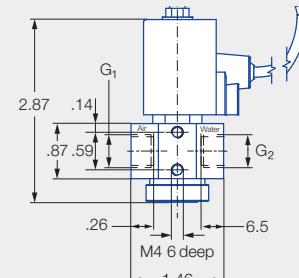
Series 166.6

Features:

- Version with magnetic valve
- Fine flat fan atomization
- Liquid pressure principle
- External mixing



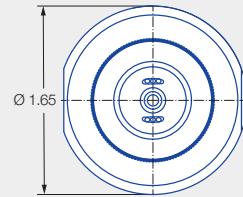
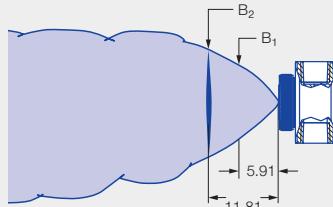
Series 166.6

**Applications:**

- Belt humidification
- Cooling
- Humidification of goods
- Atomization of viscous liquids

Technical data:

- Operating pressure: 0–8 psi
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency: Approx. 500/min
- Protective system: IP 67
- Ambient temperature: +50 °C /+122 °F
- Cable length: 39.37 in
- Material of gasket: EPDM



Air connection G ₁	Water connection G ₂	Weight [lb]
1/4 NPT	1/4 NPT	0.90

Spray angle	Ordering number Material number 16	Type Stainless steel 303	Narrowest free cross section Ø [in]	Liquid pressure p [psi]								Spray dimensions							
				10		20		0.30		0.35									
				p _{air} [psi]	V _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gai/h]	V _{air} [SCFM]	p _{air} [psi]	p _{water} [bar]	B ₁ [in]	B ₂ [mm]			
45°	166.616.xx.B2	●	0.02	12	0.4	1.5	12	0.6	1.4	12	0.9	1.5	15	1.0	1.6	20	1	3	5
				17	0.5	1.8	15	0.6	1.7	17	0.9	1.8	20	1.0	2.0	32	2	4	5
				23	0.5	2.2	20	0.7	2.1	23	0.9	2.2	26	1.0	2.4	46	3	4	5
				29	0.6	2.5	26	0.7	2.5	29	1.0	2.5	32	1.0	2.7	58	4	4	6
				35	0.5	2.9	32	0.7	2.8	35	1.0	2.9	38	1.0	3.1	73	5	4	6
				41	0.6	3.2	38	0.7	3.2	41	1.0	3.2	44	1.0	3.4	—	—	—	—
				46	0.6	3.6	44	0.7	3.5	46	1.0	3.6	49	1.0	3.8	—	—	—	—
				52	0.6	3.9	52	0.7	3.9	52	1.0	3.9	55	1.0	4.1	—	—	—	—
				58	0.6	4.3	58	0.7	4.3	58	1.0	4.3	61	1.0	4.5	—	—	—	—
				64	0.6	4.6	64	0.7	4.6	64	1.0	4.6	67	1.0	4.8	—	—	—	—
				70	0.6	5.0	70	0.7	5.0	70	1.0	4.9	73	1.0	5.2	—	—	—	—
				75	0.6	5.4	75	0.7	5.4	75	1.0	5.4	78	1.0	5.5	—	—	—	—
				81	0.6	5.7	81	0.7	5.7	81	1.0	5.7	84	1.0	5.9	—	—	—	—
				87	0.6	6.0	87	0.7	6.0	87	1.0	6.0	87	1.0	6.0	—	—	—	—
				12	1.4	1.4	12	1.9	1.4	17	2.7	1.8	23	2.9	2.2	20	1	3	5
				17	1.5	1.8	17	2.0	1.8	23	2.7	2.2	29	3.0	2.5	32	2	4	5
				23	1.5	2.2	23	2.0	2.2	29	2.7	2.5	35	3.0	2.9	46	3	4	5
				29	1.6	2.5	29	2.1	2.5	35	2.8	2.9	41	3.0	3.2	58	4	4	6
				35	1.6	2.9	35	2.1	2.9	41	2.8	3.2	46	3.0	3.6	73	5	4	6
				41	1.7	3.2	41	2.1	3.2	46	2.8	3.6	52	3.0	3.9	—	—	—	—
				46	1.7	3.6	46	2.1	3.6	52	2.8	3.9	58	3.0	4.2	—	—	—	—
				52	1.7	3.9	52	2.1	3.9	58	2.8	4.2	64	3.0	4.6	—	—	—	—
				58	1.7	4.2	58	2.1	4.2	64	2.8	4.6	70	3.0	4.9	—	—	—	—
				64	1.7	4.6	64	2.1	4.6	70	2.8	4.9	75	3.0	5.3	—	—	—	—
				70	1.7	4.9	70	2.1	4.9	75	2.8	5.3	81	3.0	5.7	—	—	—	—
				75	1.6	5.3	75	2.1	5.3	81	2.8	5.7	87	2.9	5.9	—	—	—	—
				81	1.6	5.7	81	2.1	5.7	87	2.7	6.0	—	—	—	—	—	—	—
				87	1.5	6.0	87	2.0	6.0	—	—	—	—	—	—	—	—	—	—
				12	1.4	1.4	12	1.9	1.4	17	2.7	1.8	23	2.9	2.2	20	1	3	5
				17	1.5	1.8	17	2.0	1.8	23	2.7	2.2	29	3.0	2.5	32	2	4	5
				23	1.5	2.2	23	2.0	2.2	29	2.7	2.5	35	3.0	2.9	46	3	4	5
				29	1.6	2.5	29	2.1	2.5	35	2.8	2.9	41	3.0	3.2	58	4	4	6
				35	1.6	2.9	35	2.1	2.9	41	2.8	3.2	46	3.0	3.6	73	5	4	6
				41	1.7	3.2	41	2.1	3.2	46	2.8	3.6	52	3.0	3.9	—	—	—	—
				46	1.7	3.6	46	2.1	3.6	52	2.8	3.9	58	3.0	4.2	—	—	—	—
				52	1.7	3.9	52	2.1	3.9	58	2.8	4.2	64	3.0	4.6	—	—	—	—
				58	1.7	4.2	58	2.1	4.2	64	2.8	4.6	70	3.0	4.9	—	—	—	—
				64	1.7	4.6	64	2.1	4.6	70	2.8	4.9	75	3.0	5.3	—	—	—	—
				70	1.7	4.9	70	2.1	4.9	75	2.8	5.3	81	3.0	5.7	—	—	—	—
				75	1.6	5.3	75	2.1	5.3	81	2.8	5.7	87	2.9	5.9	—	—	—	—
				81	1.6	5.7	81	2.1	5.7	87	2.7	6.0	—	—	—	—	—	—	—
				87	1.5	6.0	87	2.0	6.0	—	—	—	—	—	—	—	—	—	—





Spray angle	Ordering number Material number 16	Narrowest free cross section Ø [in] Stainless steel 303	Liquid pressure p [psi]												Spray dimensions				
			10			20			0.30			0.35							
			p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [psi]	V _{water} [gali/h]	V _{air} [SCFM]	p _{air} [bar]	B ₁ [m]	B ₂ [mm]		
60°	166.626.xx.B2	●	0.02	12	0.5	1.6	12	0.7	1.6	12	0.9	1.6	0.80	12	1.6	23	1	3	5
				17	0.5	2.1	17	0.7	2.1	17	1.0	2.1	1.20	17	2.1	35	2	4	6
				23	0.6	2.5	23	0.7	2.5	23	1.0	2.5	1.60	23	2.5	46	3	4	6
				29	0.6	2.9	29	0.7	2.9	29	1.0	2.9	2.00	29	2.9	58	4	4	6
				35	0.6	3.3	35	0.8	3.3	35	1.0	3.3	2.40	35	3.3	75	5	4	6
				41	0.6	3.7	41	0.8	3.7	41	1.0	3.7	2.80	41	3.7	—	—	—	—
				46	0.6	4.1	46	0.8	4.1	46	1.0	4.1	3.20	46	4.1	—	—	—	—
				52	0.6	4.5	52	0.8	4.5	52	1.0	4.5	3.60	52	4.5	—	—	—	—
				58	0.6	4.9	58	0.8	4.9	58	1.0	4.9	4.00	58	4.9	—	—	—	—
				64	0.6	5.3	64	0.8	5.3	64	1.0	5.3	4.40	64	5.3	—	—	—	—
				70	0.6	5.7	70	0.8	5.7	70	1.0	5.7	4.80	70	5.7	—	—	—	—
				75	0.6	6.1	75	0.8	6.1	75	1.0	6.1	5.20	75	6.1	—	—	—	—
				81	0.6	6.6	81	0.8	6.5	81	1.0	6.5	5.60	81	6.5	—	—	—	—
				87	0.6	6.9	87	0.8	6.9	87	1.0	6.9	6.00	87	6.9	—	—	—	—
	166.682.xx.B2	●	0.06	15	5.9	4.4	20	7.6	5.5	26	10.9	6.5	2.00	29	6.9	23	1	4	6
				20	5.3	5.5	26	6.9	6.4	32	9.2	7.4	2.40	35	7.9	35	2	5	6
				26	5.0	6.5	32	6.3	7.4	38	8.8	8.4	2.80	41	8.9	46	3	5	6
				32	4.7	7.4	38	5.9	8.4	44	8.0	9.4	3.20	46	9.8	58	4	5	6
				38	4.5	8.4	44	5.6	9.4	49	7.5	10.3	3.60	52	10.8	75	5	5	7
				44	4.4	9.4	49	5.3	10.3	55	7.0	11.2	4.00	58	11.7	—	—	—	—
				49	4.2	10.3	55	5.1	11.2	61	6.7	12.2	4.40	64	12.7	—	—	—	—
				55	4.2	11.2	61	5.0	12.2	67	6.4	13.1	4.80	70	13.6	—	—	—	—
				61	4.2	12.2	67	4.9	13.1	73	6.1	14.1	5.20	75	14.6	—	—	—	—
				67	4.2	13.1	73	4.8	14.1	78	5.8	15.0	5.60	81	15.5	—	—	—	—
				73	4.0	14.1	78	4.6	14.9	84	5.6	16.0	6.00	87	16.5	—	—	—	—
				78	3.7	15.0	84	4.2	16.0	87	5.5	16.5	—	—	—	—	—	—	—
				84	3.2	16.0	87	3.9	16.5	—	—	—	—	—	—	—	—	—	—
				87	2.9	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—
	166.691.xx.B2	●	0.10	20	13.7	8.1	29	17.8	10.3	38	24.4	12.5	2.60	38	12.5	23	1	6	8
				26	13.2	9.6	35	17.1	11.8	44	23.2	13.9	3.00	44	13.9	35	2	6	8
				32	12.8	11.1	41	16.4	13.2	49	22.3	15.3	3.40	49	15.4	46	3	6	8
				38	12.5	12.5	46	16.0	14.7	55	21.3	16.8	3.80	55	16.8	58	4	6	8
				44	12.3	13.9	52	15.3	16.1	61	20.3	18.2	4.20	61	18.2	75	5	6	8
				49	12.0	15.4	58	14.8	17.5	67	19.7	19.7	4.60	67	19.7	—	—	—	—
				55	11.7	16.8	64	14.3	18.9	73	18.8	21.1	5.00	73	21.1	—	—	—	—
				61	11.3	18.2	70	13.8	20.4	78	18.0	22.5	5.40	78	22.5	—	—	—	—
				67	11.0	19.7	75	13.2	21.8	84	17.0	24.0	5.80	84	24.0	—	—	—	—
				73	10.5	21.1	81	12.7	23.2	87	16.7	24.7	6.00	87	24.7	—	—	—	—
				78	10.3	22.5	87	12.3	24.7	—	—	—	—	—	—	—	—	—	—
				81	10.2	23.2	—	—	—	—	—	—	—	—	—	—	—	—	—

Ordering Type + Material no. = Ordering no.
example: 166.626.xx.B2 + 16 = 166.626.16.B2

Pneumatic atomizing nozzles, full cone, siphon principle, internal mixing

Series 140

Features:

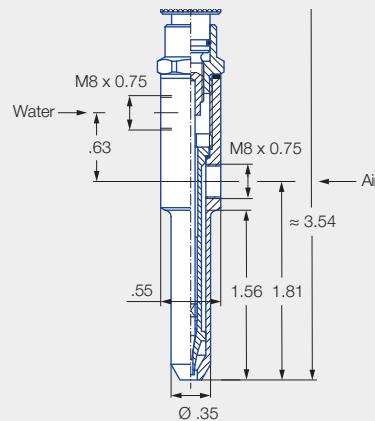
- Particularly fine full cone atomization
- Siphon principle
- Internal mixing
- Integrated regulating device
- Material: Brass

Applications:

- Lubrication
- Cooling
- Humidification

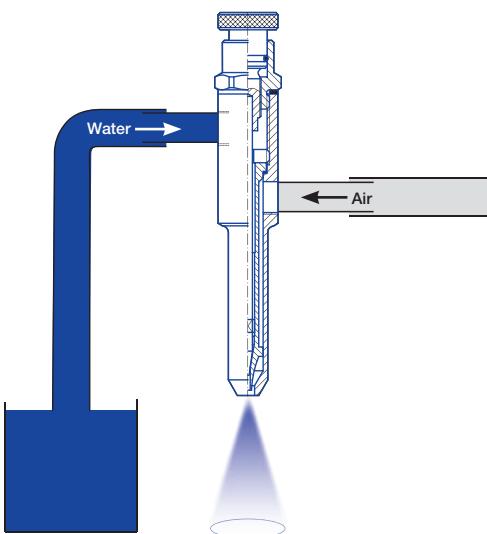


Series 140

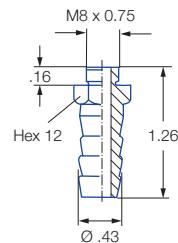


Material	Weight [lb]
Brass	0.07

Spray angle	Ordering number Type	Narrowest free cross section Ø [in]		Hs Aspiration height [in WS]	Flow rate						
					7		15		30		45
		Water [gal/h]	Air [SCFM]		Water [gal/h]	Air [SCFM]	Water [gal/h]	Air [SCFM]	Water [gal/h]	Air [SCFM]	Water [gal/h]
20°–30°	140.252.30.01	0.02	0.03	20	–	–	1.2	2.4	2.1	3.5	2.8
		0.02	0.03	8	1.2	1.50	1.8	2.4	2.6	3.5	3.2

Assembly scheme/Accessories**Accessories:**

- Gasket
014.040.72
7.8 x 12 x 1 (EWP 210)
- Nipple
014.010.30.04
(Material: Brass)
Weight: .04 lb



➤ Pneumatic atomizing nozzles for atomizing viscous media

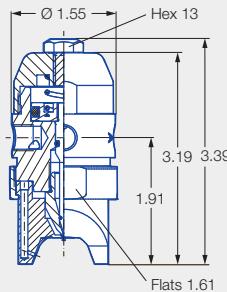
Series 176 ViscoMist

The ViscoMist™ series offers independent regulation of both atomizing air and fan air, which provides the user with infinite control over the viscous fluid's spray pattern and droplet size.

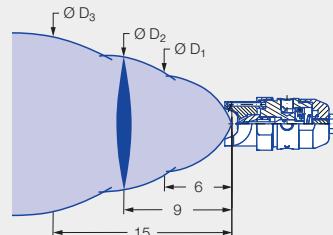
The ViscoMist™ nozzle features a standard 'Liquid Shut-Off/Clean-Out Needle' function. This design element activates and deactivates the liquid supply, while simultaneously removing excess fluid from the fluid nozzle preventing clogging. This feature is especially vital when the viscous liquids are being applied in continuous process environments.

The modular design of the ViscoMist™ allows maximum flexibility to meet the exact spray requirements.

Interchangeable air caps and various flow capacities are available to suit any spraying application needs.



Series 176 ViscoMist



External mixing nozzle for viscous liquids, e.g. for:

- Coating processes
- Moisturising
- Lubrication
- Glazing
- Disinfection

One nozzle – several spray characters:

- Spray characters
 - Solid stream
 - Full cone
 - Flat fan
- Independent regulation of liquid, atomizing air and fan air
- Fluid circulation possible (nozzle body with five connections)

Nozzle sizes:

- Ø 0.01 in to 0.10 in

Valve position:

- Normally closed, fail-safe with loss of air

Signal air pressure:

- Min. 30 psi, max. 45 psi

Cycles per minute:

- 180 cycles/min (short term)

Connection thread:

- 1/8 NPT
- BSPP thread available on request

Weight:

- 1.21 lb

Material:

- 1Y (stainless steel 316L)

Flow rate range:

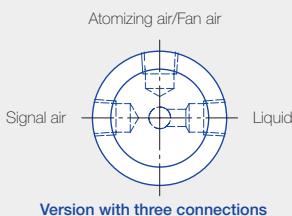
- Water: .55 to 21.4 gal/hr, at 30 psi
- Air 27.5 to 104.12 gal/min in normal condition, at 30 psi

Atomizing air/Signal air/Fan air:

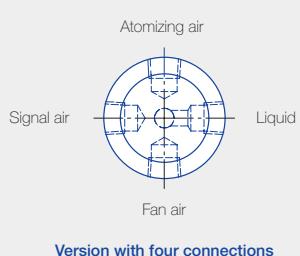
The atomizing air causes the liquid to atomize at the nozzle orifice. The spray character can be adjusted with the fan air to suit the application. The signal air activates the nozzle.

Nozzle body configurations

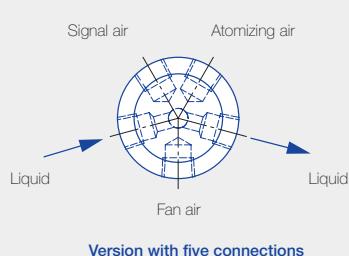
Nozzle body configuration 2



Nozzle body configuration 4



Nozzle body configuration 5





Ordering number	Type	Narrowest free cross section \emptyset [in]	Liquid		Air		Spray dimensions [in] at distance D_1 , D_2 and D_3														
			Liquid pressure p [psi]	V water [galm]	Air pressure p air [psi]	Atomizing air [SCFM]	Fan air [SCFM]	Atomizing air [psi]			Liquid pressure p [psi]			Fan air [psi]			Fan air [psi]				
			0.00*	5	10	15	22	0.00*	5	10	0.00*	5	10	15	22	0.00*	5	10	15	22	
176.201.1Y.01.00 176.401.1Y.01.00 176.501.1Y.01.00	0.01		2	0.5	2	0.2	0.6	4	5	2	2	4	6	7	8	7	9	11	7	9	10
			4	0.7	4	0.4	0.8		10	2	2	3	6	8	11	8	11	13	9	12	13
			10	1.2	10	0.6	1.3		15	—	—	—	7	8	11	8	12	15	9	12	14
			15	1.5	15	0.7	1.7		22	—	—	—	7	8	14	8	10	13	10	12	14
			20	1.7	20	0.8	2.0	15	5	2	2	4	4	5	7	5	7	9	6	8	9
			25	1.9	25	0.9	2.3		10	2	2	4	3	4	7	5	7	9	6	8	9
			29	2.1	29	1.1	2.7		15	1	2	3	3	5	7	5	7	10	6	9	11
			35	2.3	35	1.2	3.0		22	—	—	—	4	6	8	6	7	10	7	9	12
			40	2.4	40	1.4	3.3	40	5	2	2	4	2	3	4	4	5	6	4	6	7
			46	2.6	46	1.5	3.7		10	2	3	4	2	3	4	50	4	4	3	5	7
			51	2.7	51	1.6	4.0		15	2	2	4	2	3	4	70	4	5	4	5	7
			58	3.0	58	1.8	4.5		22	1	2	3	2	3	4	70	4	6	4	6	7
176.202.1Y.01.00 176.402.1Y.01.00 176.502.1Y.01.00	0.02		2	1.1	2	0.3	0.6	4	5	2	2	4	6	7	11	2	10	12	7	9	11
			4	1.6	4	0.4	0.8		10	—	—	—	7	9	10	3	12	14	11	13	16
			10	2.4	10	0.6	1.3		15	—	—	—	6	8	9	3	11	17	12	13	18
			15	3.0	15	0.7	1.7		22	—	—	—	—	—	—	3	11	14	11	13	17
			20	3.5	20	0.8	2.0	15	5	2	2	4	4	6	6	5	7	9	6	7	9
			25	4.0	25	0.9	2.3		10	2	2	4	4	5	7	6	7	9	7	9	10
			29	4.3	29	1.1	2.7		15	—	—	—	4	6	8	7	8	11	7	9	13
			35	4.7	35	1.2	3.0		22	—	—	—	—	—	—	7	8	12	8	10	14
			40	5.1	40	1.4	3.3	40	5	2	2	3	2	3	4	4	5	7	4	6	7
			46	5.4	46	1.5	3.7		10	2	2	3	2	3	4	4	6	7	5	8	9
			51	5.7	51	1.6	4.0		15	1	2	4	3	4	5	4	6	7	4	6	7
			58	6.2	58	1.8	4.5		22	—	—	—	3	4	6	4	6	9	5	7	9
176.203.1Y.01.00 176.403.1Y.01.00 176.503.1Y.01.00	0.03		2	2.2	2	0.2	0.6	4	5	—	—	—	9	12	16	13	16	19	13	16	20
			4	3.3	4	0.2	0.8		6	—	—	—	9	11	13	12	14	20	16	19	24
			10	5.1	10	0.4	1.3		10	—	—	—	—	—	—	13	16	21	16	18	25
			15	6.3	15	0.5	1.7		13	—	—	—	—	—	—	11	14	18	15	18	24
			20	7.3	20	0.6	2.0	16	5	2	2	4	6	8	11	7	9	11	9	12	15
			25	8.2	25	0.6	2.3		10	—	—	—	6	8	10	9	12	15	12	14	18
			—	—	—	—	—		15	—	—	—	—	—	—	9	11	16	12	15	20
			—	—	—	—	—		22	—	—	—	—	—	—	9	11	15	11	15	21

Notice:

The fourth digit in the order number (2, 4 or 5) stands for the housing variant (for details see Page 139).

* A cone-shaped spray pattern is produced without fan air.





Ordering number Type	Narrowest free cross section \emptyset [in]	Liquid		Air		Spray dimensions [in] at distance D_1 , D_2 and D_3																	
		Liquid pressure p [psi]	V water [gai/h]	Air pressure p air [psi]	Atomizing air [SCFM]	Fan air [SCFM]	Atomizing air [psi]		Liquid pressure p [psi]		Fan air [psi]			Fan air [psi]			Fan air [psi]						
							0.00*	5	0.00*	5	0.00*	5	0.00*	5	0.00*	5	0.00*	5					
176.203.1Y.01.00 176.403.1Y.01.00 176.503.1Y.01.00	0.03	29	9.0	29	1.3	2.7	30	5	1	2	3	4	6	7	6	8	9	7	9	12	8	9	11
		35	9.7	35	1.4	3.0		10	-	-	-	5	6	8	7	9	13	9	12	15	10	12	14
		40	10.4	40	1.6	3.3		15	-	-	-	5	7	8	7	9	13	9	12	16	10	13	16
		46	11.1	46	1.7	3.7		22	-	-	-	-	-	-	7	9	13	9	12	17	10	13	17
		51	11.7	46	1.9	4.0	40	5	2	2	4	4	5	7	6	7	9	7	8	11	7	9	12
		58	12.7	51	2.1	4.5		10	-	-	-	4	6	8	6	8	10	7	9	12	9	11	15
								15	-	-	-	-	-	-	7	9	12	8	10	14	9	11	15
								22	-	-	-	-	-	-	7	9	13	9	11	15	9	11	16
176.204.1Y.01.00 176.404.1Y.01.00 176.504.1Y.01.00	0.04	2	4.5	2	1.4	1.2	4	5	-	-	-	6	8	12	12	16	18	13	16	22	12	16	20
		4	6.4	4	2.0	1.7		10	-	-	-	-	-	-	12	15	41	14	17	21	16	19	25
		10	9.8	10	3.3	2.7		15	-	-	-	-	-	-	10	15	20	14	18	23	16	20	27
		15	12.1	15	4.3	3.4		22	-	-	-	-	-	-	10	15	19	13	15	21	16	20	26
		20	14.0	20	5.2	4.1	15	5	2	2	3	4	6	7	6	8	10	8	10	13	10	12	17
		25	15.6	25	6.0	4.7		10	-	-	-	4	6	9	7	8	11	9	11	15	10	13	17
		29	17.2	29	6.8	5.3		15	-	-	-	4	5	7	6	7	12	9	10	15	10	12	19
		35	18.6	35	7.6	6.0		22	-	-	-	-	-	-	6	8	11	8	10	16	9	12	18
		40	19.9	40	8.4	6.6	30	5	2	2	4	3	4	6	4	5	7	4	7	9	6	7	11
		46	21.2	46	9.2	7.2		10	-	-	-	3	4	6	4	5	8	5	7	9	6	8	11
		51	22.4	51	10.1	7.8		15	-	-	-	3	4	6	4	5	7	4	6	10	6	7	12
		58	24.2	58	11.5	8.9		22	-	-	-	3	4	6	4	5	7	4	6	9	6	7	12
176.205.1Y.01.00 176.405.1Y.01.00 176.505.1Y.01.00	0.05	2	6.5	2	1.3	1.2	4	5	-	-	-	9	13	18	14	18	21	16	21	25	18	21	26
		4	9.3	4	1.9	1.7		10	-	-	-	-	-	-	13	18	23	16	20	26	16	19	24
		10	14.3	10	3.0	2.7		15	-	-	-	-	-	-	13	16	19	14	18	22	17	22	29
		15	17.6	15	4.0	3.4		22	-	-	-	-	-	-	-	-	-	15	20	26	18	23	32
		20	20.2	20	4.7	4.1	15	5	-	-	-	5	7	9	7	9	15	9	11	17	7	14	20
		25	22.8	25	5.4	4.7		10	-	-	-	4	7	9	7	9	13	9	11	16	7	14	20
		29	25.0	29	6.1	5.3		15	-	-	-	-	-	-	7	9	14	9	12	17	11	13	19
		35	27.2	35	6.8	6.0		22	-	-	-	-	-	-	7	9	12	9	12	16	10	13	19
		40	29.2	40	7.5	6.6	30	5	2	2	4	3	4	6	4	6	8	6	7	10	7	9	13
		46	31.0	46	8.2	7.2		10	-	-	-	3	4	6	4	5	8	4	6	9	6	7	11
		51	32.8	51	8.9	7.8		15	-	-	-	2	4	5	4	5	8	4	7	10	6	8	12
		58	35.4	58	10.1	8.9		22	-	-	-	2	4	6	4	5	8	4	7	10	6	8	12

Notice:

The fourth digit in the order number (2, 4 or 5) stands for the housing variant (for details see Page 139).

* A cone-shaped spray pattern is produced without fan air.





Ordering number Type	Narrowest free cross section \emptyset [in]	Liquid		Air		Spray dimensions [in] at distance D_1 , D_2 and D_3																
		Liquid pressure p [psi]	V water [gal/min]	Air pressure p [psi]	Atomizing air [SCFM]	Fan air [SCFM]	Atomizing air [psi]	Liquid pressure p [psi]	Fan air [psi]			Fan air [psi]			Fan air [psi]			Fan air [psi]				
									10			15			20			25				
176.206.1Y.01.00 176.406.1Y.01.00 176.506.1Y.01.00	0.04	2	11.0	2	0.9	1.2	15	5	9	13	20	15	$\emptyset D_1 = 6$ in	11	16	24	14	18	26	-	-	-
		4	15.7	4	1.3	1.7		10	9	14	21		$\emptyset D_2 = 9$ in	13	17	26	14	20	30	-	-	-
		10	24.0	10	2.0	2.7		15	10	14	20		$\emptyset D_3 = 15$ in	12	17	24	14	20	27	-	-	-
		15	29.5	15	2.6	3.4	30	5	6	9	13	30	$\emptyset D_1 = 6$ in	8	11	16	9	12	18	9	13	18
		20	34.1	20	3.0	4.1		10	7	9	12		$\emptyset D_2 = 9$ in	8	10	15	9	12	18	10	14	19
		25	38.1	25	3.5	4.7		15	6	9	13		$\emptyset D_3 = 15$ in	7	10	15	9	12	17	10	13	19
		29	41.7	29	3.9	5.3	40	22	-	-	-	40	$\emptyset D_1 = 6$ in	7	10	14	8	11	16	8	11	17
		35	45.0	35	4.4	6.0		5	6	7	11		$\emptyset D_2 = 9$ in	7	9	12	7	10	15	8	11	16
		40	48.2	40	4.9	6.6		10	6	7	11		$\emptyset D_3 = 15$ in	7	9	13	7	9	15	8	11	17
		46	51.1	46	5.3	7.2		15	5	5	7	60	$\emptyset D_1 = 6$ in	6	8	12	7	9	13	7	9	14
		51	53.8	51	5.8	7.8	60	22	5	7	10		$\emptyset D_2 = 9$ in	6	8	12	7	9	13	7	9	14
		58	57.8	58	6.6	8.9		10	-	-	-		$\emptyset D_3 = 15$ in	6	8	12	6	9	14	7	10	15
176.207.1Y.01.00 176.407.1Y.01.00 176.507.1Y.01.00	0.08	2	15.6	2	2.1	2.0	15	5	8	11	16	15	$\emptyset D_1 = 6$ in	11	14	19	13	17	21	13	19	27
		4	22.4	4	3.2	2.9		10	8	11	16		$\emptyset D_2 = 9$ in	11	14	19	12	16	23	14	18	28
		10	34.3	10	5.0	4.6		15	6	9	14		$\emptyset D_3 = 15$ in	9	12	18	11	14	21	12	17	24
		15	42.1	15	6.4	5.9	30	22	-	-	-	30	$\emptyset D_1 = 6$ in	-	-	-	-	-	-	-	-	-
		20	48.8	20	7.6	7.2		5	4	6	9		$\emptyset D_2 = 9$ in	6	7	11	7	9	14	9	11	15
		25	54.6	25	8.8	8.3		10	4	6	9		$\emptyset D_3 = 15$ in	6	7	11	7	10	15	8	11	16
		29	59.9	29	10.0	9.4	45	22	-	-	-	45	$\emptyset D_1 = 6$ in	-	-	-	6	9	13	7	10	15
		35	64.8	35	11.1	10.4		15	4	5	8		$\emptyset D_2 = 9$ in	5	7	10	6	8	12	7	9	14
		40	69.4	40	12.3	11.6		22	4	4	7		$\emptyset D_3 = 15$ in	5	6	10	6	7	12	8	11	16
		46	73.7	46	13.4	12.7	60	5	4	5	7	60	$\emptyset D_1 = 6$ in	4	7	10	6	8	12	7	9	13
		51	77.7	51	14.5	13.7		10	4	4	7		$\emptyset D_2 = 9$ in	4	6	9	5	7	11	6	8	13
		58	83.8	58	16.4	15.5		15	3	4	7		$\emptyset D_3 = 15$ in	4	6	9	5	7	10	6	8	13
		22	-	-	-	-		22	-	-	-		$\emptyset D_1 = 6$ in	4	6	9	5	7	10	7	9	14

Notice:

The fourth digit in the order number (2, 4 or 5) stands for the housing variant (for details see Page 139).

* A cone-shaped spray pattern is produced without fan air.





Ordering number	Narrowest free cross section Ø [in]	Liquid		Air		Spray dimensions [in] at distance D ₁ , D ₂ and D ₃																	
						Fan air [psi]																	
		Type	Liquid pressure P [psi]	V water [gal/h]	Air pressure P _{air} [psi]	Atomizing air [SCFM]	Fan air [SCFM]	Atomizing air [psi]	Liquid pressure P [psi]	10			15			20			25				
										Ø D ₁ = 6 in	Ø D ₂ = 9 in	Ø D ₃ = 15 in	Ø D ₁ = 6 in	Ø D ₂ = 9 in	Ø D ₃ = 15 in	Ø D ₁ = 6 in	Ø D ₂ = 9 in	Ø D ₃ = 15 in	Ø D ₁ = 6 in	Ø D ₂ = 9 in	Ø D ₃ = 15 in		
176.208.1Y.01.00 176.408.1Y.01.00 176.508.1Y.01.00	0.09	2	25.7	2	2.3	2.6	15	5	7	11	17	11	14	24	12	18	28	-	-	-	-	-	
		4	30.3	4	2.7	3.1		10	7	11	17	10	14	24	13	19	30	-	-	-	-	-	
		10	43.1	10	4.0	4.6		15	-	-	-	9	13	22	12	17	27	-	-	-	-	-	
		15	52.6	15	5.1	5.9		22	-	-	-	10	14	21	12	15	23	-	-	-	-	-	
		20	60.7	20	6.0	7.2	30	5	4	7	12	7	10	14	8	11	16	9	13	18	11	18	22
		25	67.7	25	7.0	8.3		10	4	7	10	7	9	14	9	11	16	9	14	20	11	15	21
		29	74.2	29	7.9	9.4		15	4	7	9	6	7	11	7	10	14	8	11	15	10	14	18
		35	80.1	35	8.8	10.4		22	-	-	-	6	8	13	8	11	15	9	12	18	11	15	22
		40	85.6	40	9.6	11.6	40	5	4	7	9	6	7	11	7	9	14	8	11	17	9	13	19
		46	90.7	46	10.6	12.7		10	4	6	9	6	8	12	7	9	14	8	11	17	9	13	19
		51	95.5	51	11.3	13.7		15	4	6	8	5	7	11	7	9	15	8	11	16	9	13	19
		58	102.7	58	12.8	15.5		22	-	-	-	5	7	11	6	9	14	7	11	18	9	13	18
176.209.1Y.01.00 176.409.1Y.01.00 176.509.1Y.01.00	0.10	2	21.7	2	1.1	2.0	15	5	8	12	18	11	15	24	13	18	28	16	21	30	18	26	32
		4	31.6	4	2.2	2.9		10	8	11	17	11	16	24	13	19	27	16	22	29	18	25	32
		10	47.6	10	3.9	4.6		15	-	-	-	-	-	-	12	18	27	16	20	27	17	23	32
		15	58.4	15	5.0	5.9		22	-	-	-	-	-	-	12	18	27	15	21	30	17	23	32
		20	67.5	20	6.0	7.2	30	5	5	8	12	7	10	15	8	11	18	10	13	20	11	14	22
		25	75.4	25	6.8	8.3		10	5	7	11	7	9	14	8	11	18	9	13	22	11	15	24
		29	82.7	29	7.7	9.4		15	4	7	11	7	9	14	8	11	17	9	13	20	11	15	22
		35	89.5	35	8.7	10.4		22	-	-	-	-	-	-	8	10	17	9	12	18	10	15	22
		40	95.8	40	9.6	11.6	40	5	4	6	9	6	8	13	7	9	16	8	11	18	9	14	20
		46	101.7	46	10.4	12.7		10	4	6	9	5	7	10	6	7	11	7	10	14	7	10	16
		51	107.2	51	11.4	13.7		15	4	5	7	4	6	10	6	8	12	7	9	14	8	11	16
		58	115.4	58	12.8	15.5		22	-	-	-	4	6	10	6	7	12	7	9	16	7	11	18

Notice:

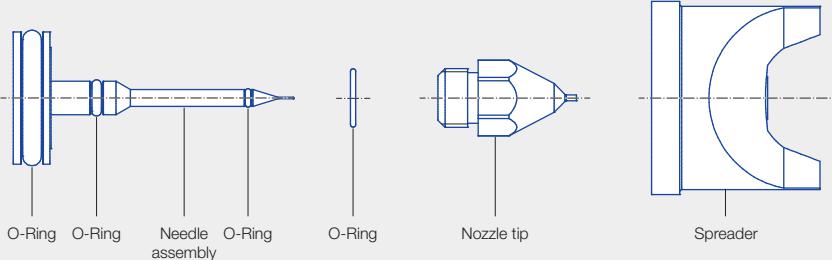
The fourth digit in the order number (2, 4 or 5) stands for the housing variant (for details see Page139).

* A cone-shaped spray pattern is produced without fan air.

➤ Spare parts set for pneumatic atomizing nozzles

Series 176 ViscoMist

Overview of the spare parts set and the power set



Spare parts set

Spare parts set for replacing the main wear parts of the nozzle, consisting of:

- Needle (stainless steel 316L)
- O-rings (Viton)
- Nozzle tip (stainless steel 316L)

Power set

Power set for replacing the main wear parts of the nozzle and the air hood, consisting of:

- Needle (stainless steel 316L)
- O-rings (Viton)
- Nozzle tip (stainless steel 316L)
- Spreader (stainless steel 316L)

Ordering number	Narrowest free cross section Ø [in]	For nozzles
Type		
017.601.1Y.01	0.015	176.xx1.1Y.11.00
017.602.1Y.01	0.023	176.xx2.1Y.11.00
017.603.1Y.01	0.03	176.xx3.1Y.11.00
017.604.1Y.01	0.042	176.xx4.1Y.11.00
017.605.1Y.01	0.052	176.xx5.1Y.11.00
017.606.1Y.01	0.067	176.xx6.1Y.11.00
017.607.1Y.01	0.081	176.xx7.1Y.11.00
017.608.1Y.01	0.093	176.xx8.1Y.11.00
017.609.1Y.01	0.100	176.xx9.1Y.11.00

Notice:

Instructions for replacing individual or all components of the nozzles are included in the scope of delivery of the spare parts sets and the power sets.

Ordering number	Narrowest free cross section Ø [in]	For nozzles
Type		
017.601.1Y.00	0.015	176.xx1.1Y.11.00
017.602.1Y.00	0.023	176.xx2.1Y.11.00
017.603.1Y.00	0.031	176.xx3.1Y.11.00
017.604.1Y.00	0.042	176.xx4.1Y.11.00
017.605.1Y.00	0.052	176.xx5.1Y.11.00
017.606.1Y.00	0.067	176.xx6.1Y.11.00
017.607.1Y.00	0.081	176.xx7.1Y.11.00
017.608.1Y.00	0.093	176.xx8.1Y.11.00
017.609.1Y.00	0.100	176.xx9.1Y.11.00

O-ring set

Type	Ordering number		Consisting of 4 O-rings, suitable for all nozzles of series 176
	Material number	7A	
		6C	
	Viton	EPDM	
017.600.xx.01.03	●	●	

Viton (7A) is the standard O-ring material.
EPDM (6C) is optionally available.

Ordering Type + Material no. = Ordering no.
example: 017.600.xx.01.03 + 7A = 017.600.7A.01.03