



Pneumatic atomizing nozzles, Flat fan, pressure principle, external mixing Series 166.6

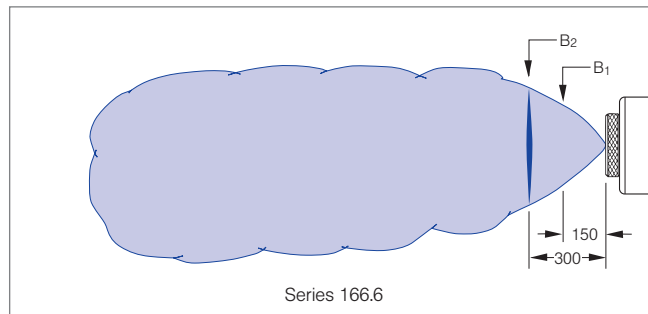
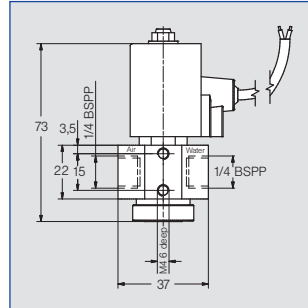


Version with magnetic valve.
Fine flat fan atomization
with the aid of air or gas.
Liquid pressure principle.
External mixing of fluids.

Applications:
Web dampening, cooling,
humidification of goods,
atomization of viscous liquids.

Technical Data:

- Service pressure: 0-6 bar
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency:
ca. 500/min
- Protective system: IP 67
- Ambient temperature:
10°C / +50°C
- Cable length: 1.000 mm
- Material of gasket: EPDM



Accessories for series 166
please refer to page 1.29

Spray angle	Ordering no.		E ∅ [mm]	Liquid pressure p [bar]												Spray dimensions				
	Type	Mat- no.		0.07			0.15			0.30			0.35			p Air [bar]	p Water [bar]	B ₁ [mm]	B ₂ [mm]	
				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]					
45°	166. 616. xx. A2	○	0.4	0.80	1.68	2.50	0.80	2.43	2.40	0.80	3.42	2.50	1.00	3.69	2.80	1.40	0.07	80	115	
				1.20	1.80	3.10	1.00	2.46	2.90	1.20	3.48	3.10	1.40	3.81	3.40	2.20	0.15	90	130	
				1.60	1.92	3.70	1.40	2.58	3.60	1.60	3.51	3.70	1.80	3.87	4.00	3.20	0.20	90	135	
				2.00	2.10	4.30	1.80	2.61	4.20	2.00	3.63	4.30	2.20	3.84	4.60	4.00	0.30	95	145	
				2.40	2.07	4.90	2.20	2.76	4.80	2.40	3.63	4.90	2.60	3.90	5.20	5.00	0.35	100	145	
				2.80	2.19	5.50	2.60	2.73	5.40	2.80	3.63	5.50	3.00	3.93	5.80					
				3.20	2.19	6.10	3.00	2.73	6.00	3.20	3.63	6.10	3.40	3.90	6.40					
				3.60	2.22	6.70	3.60	2.76	6.70	3.60	3.66	6.70	3.80	3.93	7.00					
				4.00	2.22	7.30	4.00	2.76	7.30	4.00	3.69	7.30	4.20	3.96	7.60					
				4.40	2.22	7.90	4.40	2.76	7.90	4.40	3.69	7.90	4.60	3.93	8.20					
				4.80	2.22	8.50	4.80	2.76	8.50	4.80	3.69	8.40	5.00	3.93	8.80					
				5.20	2.22	9.10	5.20	2.76	9.10	5.20	3.66	9.10	5.40	3.93	9.40					
				5.60	2.22	9.60	5.60	2.76	9.70	5.60	3.66	9.60	5.80	3.87	10.00					
				6.00	2.22	10.20	6.00	2.73	10.20	6.00	3.66	10.20	6.00	3.87	10.20					
		166. 654. xx. A2	○	0.7	0.80	5.25	2.40	0.80	7.29	2.40	1.20	10.11	3.10	1.60	11.07	3.70	1.40	0.07	95	135
	1.20				5.64	3.10	1.20	7.44	3.10	1.60	10.23	3.70	2.00	11.22	4.30	2.20	0.15	100	150	
	1.60				5.79	3.70	1.60	7.62	3.70	2.00	10.38	4.30	2.40	11.28	4.90	3.20	0.20	105	160	
	2.00				6.18	4.30	2.00	7.86	4.30	2.40	10.47	4.90	2.80	11.31	5.50	4.00	0.30	105	160	
	2.40				6.24	4.90	2.40	7.92	4.90	2.80	10.59	5.50	3.20	11.43	6.10	5.00	0.35	105	160	
	2.80				6.27	5.50	2.80	8.04	5.50	3.20	10.59	6.10	3.60	11.46	6.60					
	3.20				6.39	6.10	3.20	8.13	6.10	3.60	10.62	6.70	4.00	11.43	7.20					
	3.60				6.42	6.60	3.60	8.13	6.70	4.00	10.62	7.20	4.40	11.37	7.80					
	4.00				6.45	7.20	4.00	8.13	7.20	4.40	10.62	7.80	4.80	11.37	8.40					
	4.40				6.42	7.80	4.40	8.07	7.80	4.80	10.59	8.40	5.20	11.34	9.00					
	4.80				6.30	8.40	4.80	8.04	8.40	5.20	10.56	9.00	5.60	11.22	9.60					
	5.20				6.24	9.00	5.20	7.86	9.00	5.60	10.50	9.60	6.00	11.16	10.10					
	5.60				6.09	9.60	5.60	7.83	9.60	6.00	10.35	10.20	-	-	-					
	6.00				5.85	10.20	6.00	7.59	10.20	-	-	-	-	-	-					



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				p Air [bar]	V Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]	V Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]	V Water [l/h]	ṽ _n Air [m ³ /h]	p Air [bar]	V Water [l/h]	ṽ _n Air [m ³ /h]				
				16	AISI 303														
60°	166. 626. xx. A2	○	0.4	0.80	1.83	2.80	0.80	2.49	2.80	0.80	3.48	2.80	0.80	3.78	2.80	1.60	0.07	85	135
				1.20	1.98	3.60	1.20	2.58	3.50	1.20	3.60	3.50	1.20	3.87	3.60	2.40	0.15	90	140
				1.60	2.10	4.30	1.60	2.70	4.20	1.60	3.66	4.30	1.60	3.90	4.20	3.20	0.20	90	140
				2.00	2.16	4.90	2.00	2.82	4.90	2.00	3.69	4.90	2.00	3.96	4.90	4.00	0.30	100	145
				2.40	2.25	5.60	2.40	2.85	5.60	2.40	3.69	5.60	2.40	3.96	5.60	5.20	0.35	105	150
				2.80	2.34	6.30	2.80	2.88	6.30	2.80	3.72	6.30	2.80	4.02	6.30				
				3.20	2.31	7.00	3.20	2.88	7.00	3.20	3.78	7.00	3.20	3.99	7.00				
				3.60	2.34	7.60	3.60	2.88	7.70	3.60	3.78	7.60	3.60	4.02	7.70				
				4.00	2.40	8.40	4.00	2.94	8.40	4.00	3.81	8.30	4.00	4.05	8.30				
				4.40	2.40	9.00	4.40	2.91	9.00	4.40	3.81	9.00	4.40	4.02	9.00				
				4.80	2.40	9.70	4.80	2.97	9.70	4.80	3.81	9.70	4.80	4.08	9.70				
				5.20	2.43	10.40	5.20	2.97	10.40	5.20	3.81	10.40	5.20	4.05	10.40				
				5.60	2.43	11.20	5.60	2.97	11.10	5.60	3.81	11.10	5.60	4.05	11.00				
				6.00	2.43	11.80	6.00	2.97	11.80	6.00	3.81	11.80	6.00	4.05	11.80				
				166. 682. xx. A2	○	1.5	1.00	22.41	7.50	1.40	28.95	9.30	1.80	41.22	11.10	2.00	44.04	11.80	1.60
	1.40	20.19	9.30				1.80	26.07	10.90	2.20	34.92	12.60	2.40	39.09	13.40	2.40	0.15	120	155
	1.80	18.75	11.00				2.20	23.94	12.50	2.60	33.18	14.20	2.80	35.16	15.10	3.20	0.20	120	160
	2.20	17.88	12.50				2.60	22.23	14.30	3.00	30.45	15.90	3.20	32.22	16.70	4.00	0.30	120	165
	2.60	17.10	14.20				3.00	21.12	15.90	3.40	28.29	17.50	3.60	30.18	18.30	5.20	0.35	120	175
	3.00	16.47	15.90				3.40	20.10	17.50	3.80	26.64	19.10	4.00	28.32	19.90				
	3.40	16.08	17.50				3.80	19.44	19.10	4.20	25.35	20.70	4.40	26.94	21.50				
	3.80	15.90	19.10				4.20	18.99	20.70	4.60	24.24	22.30	4.80	25.59	23.10				
	4.20	15.90	20.70				4.60	18.45	22.30	5.00	23.13	24.00	5.20	24.36	24.80				
	4.60	15.81	22.30				5.00	18.18	24.00	5.40	22.14	25.50	5.60	23.28	26.40				
	5.00	15.21	23.90				5.40	17.25	25.40	5.80	21.12	27.20	6.00	22.17	28.00				
	5.40	13.92	25.50				5.80	15.72	27.20	6.00	20.67	28.00	-	-	-				
	5.80	12.09	27.20				6.00	14.91	28.00	-	-	-	-	-	-				
	6.00	11.07	28.00				-	-	-	-	-	-	-	-	-				
	166. 691. xx. A2	○	2.5				1.40	52.00	13.80	2.00	67.30	17.50	2.60	92.30	21.20	2.60	102.10	21.20	1.60
				1.80	50.00	16.30	2.40	64.60	20.10	3.00	87.70	23.60	3.00	97.20	23.70	2.40	0.15	160	205
2.20				48.60	18.80	2.80	62.00	22.50	3.40	84.30	26.00	3.40	92.50	26.10	3.20	0.20	160	205	
2.60				47.50	21.30	3.20	60.40	24.90	3.80	80.70	28.50	3.80	88.40	28.50	4.00	0.30	160	210	
3.00				46.50	23.70	3.60	58.00	27.30	4.20	77.00	30.90	4.20	85.20	31.00	5.20	0.35	150	210	
3.40				45.40	26.10	4.00	56.20	29.80	4.60	74.40	33.40	4.60	81.30	33.40					
3.80				44.40	28.60	4.40	54.20	32.10	5.00	71.10	35.90	5.00	78.20	35.80					
4.20				42.90	31.00	4.80	52.40	34.70	5.40	68.10	38.30	5.40	74.30	38.20					
4.60				41.50	33.40	5.20	49.90	37.10	5.80	64.30	40.80	5.80	71.10	40.70					
5.00				39.90	35.80	5.60	48.10	39.50	6.00	63.20	42.00	6.00	68.90	41.90					
5.40				38.90	38.30	6.00	46.40	42.00	-	-	-	-	-	-					
5.60				38.50	39.40	-	-	-	-	-	-	-	-	-					

E = narrowest free cross section (water)

Example **Type** + **Material no. (xx)** = **Ordering no.**
for ordering: **166. 654. xx. A2** + **16** = **166. 654. 16. A2**

