

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

Applications:

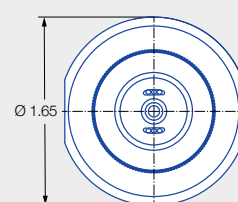
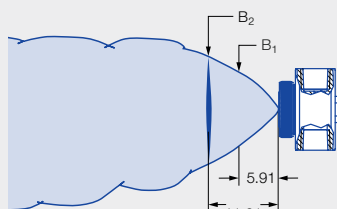
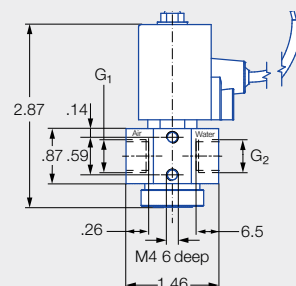
- Belt humidification
- Cooling
- Humidification of goods
- Atomization of viscous liquids

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

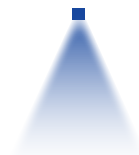


Series 166.6



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			
	Type	Material number		10				20				0.30				0.35			
		16		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°	166.616.xx.B2	●	0.02	12	0.4	1.5		12	0.6	1.4		12	0.9	1.5		15	1.0	1.6	
				17	0.5	1.8		15	0.6	1.7		17	0.9	1.8		20	1.0	2.0	
				23	0.5	2.2		20	0.7	2.1		23	0.9	2.2		26	1.0	2.4	
				29	0.6	2.5		26	0.7	2.5		29	1.0	2.5		32	1.0	2.7	
				35	0.5	2.9		32	0.7	2.8		35	1.0	2.9		38	1.0	3.1	
				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	
	166.654.xx.B2	●	0.03	12	1.4	1.4		12	1.9	1.4		17	2.7	1.8		23	2.9	2.2	
				17	1.5	1.8		17	2.0	1.8		23	2.7	2.2		29	3.0	2.5	
				23	1.5	2.2		23	2.0	2.2		29	2.7	2.5		35	3.0	2.9	
				29	1.6	2.5		29	2.1	2.5		35	2.8	2.9		41	3.0	3.2	
				35	1.6	2.9		35	2.1	2.9		41	2.8	3.2		46	3.0	3.6	
				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		Narrowest free cross section Ø [in]	Liquid pressure p [psi]												Spray dimensions			
	Type	Material number																	
		16																	
		Stainless steel 303		p air [psi]	ṽ water [gal/h]	ṽ air [SCFM]	p air [psi]	ṽ water [gal/h]	ṽ air [SCFM]	p air [psi]	ṽ water [gal/h]	ṽ air [SCFM]	p air [psi]	ṽ water [gal/h]	ṽ air [SCFM]	p air [psi]	p water [bar]	B ₁ [in]	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