

➤ 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:

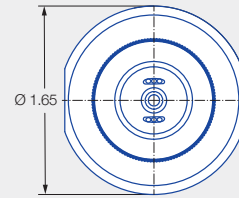
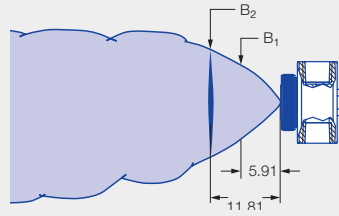
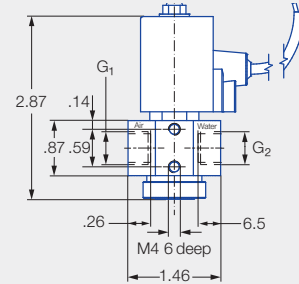
- Belt humidification
- Cooling
- Humidification of goods
- Atomization of viscous liquids

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



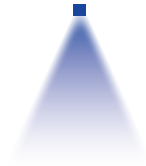
Series 166.6



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				p _{air} [psi]	p _{water} [bar]	B ₁ [in]	B ₂ [mm]
		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	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	-	-	-	-				
				45°	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	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		Narrowest free cross section \varnothing [in]	Liquid pressure p [psi]												Spray dimensions				
	Type	Material number		10			20			0.30			0.35			p air [psi]	p water [bar]	B ₁ [in]	B ₂ [mm]	
		16		p air [psi]	V water [gal/h]	V _i air [SCFM]	p air [psi]	V water [gal/h]	V _i air [SCFM]	p air [psi]	V water [gal/h]	V _i air [SCFM]	p air [psi]	V water [gal/h]	V _i air [SCFM]					
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

