Pneumatic atomizing nozzles, wide full cone, pressure principle, internal mixing
Series 136.2
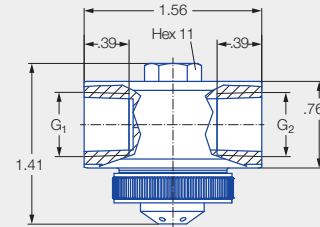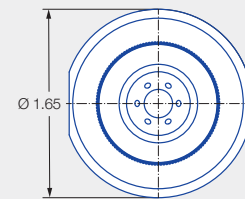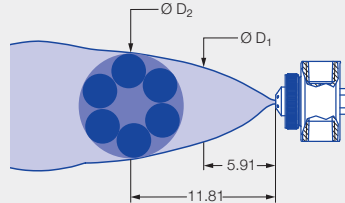
Features:
- Fine full cone atomization
- Liquid pressure principle
- Internal mixing
- Extra wide spray angle of 60°

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 Ø [in]	Liquid pressure p [psi]												Spray dimensions			
	Type	Material number			10			20			40			60						
		1Y	16		p air [psi]	V̇ water [gal/h]	V̇n air [SCFM]	p air [psi]	V̇ water [gal/h]	V̇n air [SCFM]	p air [psi]	V̇ water [gal/h]	V̇n air [SCFM]	p air [psi]	V̇ water [gal/h]	V̇n air [SCFM]	p air [psi]	p water [psi]	Ø D_1 [in]	Ø D_2 [in]
		Stainless steel 316L	Stainless steel 303																	
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
					–	**–**	–	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	–	–	–	–
	136.231.xx.B2	●	●	0.06	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
					–	**–**	–	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 example:	Type	+	Material no.	=	Ordering no.
	136.215.xx.B2	+	1Y	=	136.215.1Y.B2

Pneumatic atomizing nozzles, wide full cone, pressure principle, internal mixing
Series 166.2
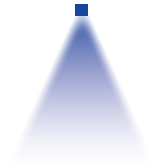
Features:
- Version with magnetic valve
- Fine full cone atomization
- Pressure principle
- Internal mixing
- Extra wide spray angle of 60°
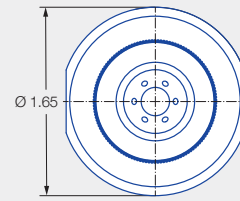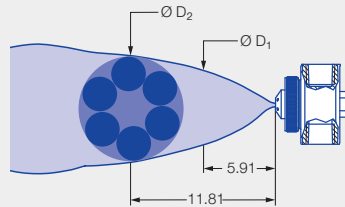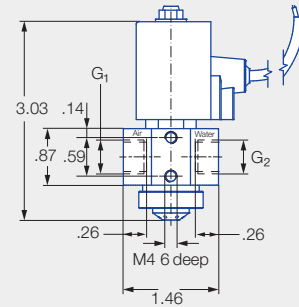
Applications:
- Humidification of air
- Cooling

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

Series 166.2

Air connection G_1	Water connection G_2	Weight [lb]
1/4 NPT	1/4 NPT	0.90

Spray angle	Ordering number Type	Material number 16 Stainless steel 303	Narrowest free cross section Ø [in]	Liquid pressure p [psi]												Spray dimensions			
				10			20			40			60						
				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]	p air [psi]	p water [psi]	Ø D_1 [in]	Ø D_2 [in]
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
				–	–	–	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	–	–	–	–
	166.222.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	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
				–	–	–	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	–	–	–	–
				–	–	–	–	–	–	–	–	–	78	0.8	9.7	–	–	–	–
	166.231.xx.B2	●	0.06	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
				–	–	–	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 example:	Type 166.215.xx.B2	+	Material no. 16	=	Ordering no. 166.215.16.B2

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