Pneumatic atomizing nozzles, full cone, pressure principle, internal mixing
Series 166.2

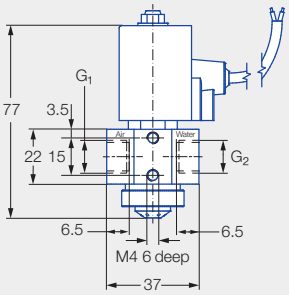
Features:
- Version with magnetic valve
- Fine full cone atomization
- Pressure principle
- Internal mixing
- Espacially wide spray angle of 60°

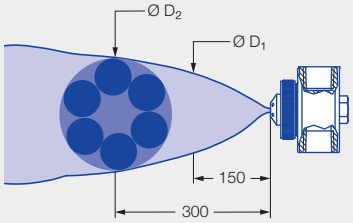
Applications:
- Humidification of air
- Cooling

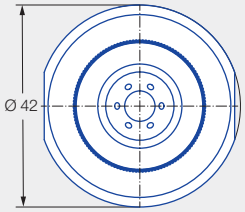
Technical data:
- Operating pressure: 0–6 bar
- Voltage: 24 V DC
- Power: 8 W
- Switching frequency: Approx. 500/min
- Protective system: IP 67
- Ambient temperature: +10 °C /+50 °C
- Cable length: 1,000 mm
- Material of gasket: EPDM



Series 166.2







Air connection G_1	Water connection G_2	Weight [g]
1/4 BSPP	1/4 BSPP	410

Spray angle	Ordering no. Type	Mat. no. 16 Stainless steel 303	Narrowest free cross section Ø [mm]	Liquid pressure p [bar] 0.7 p air [bar]	0.7 V̇ water [l/h]	0.7 V̇n air [m³/h]	1.5 p air [bar]	1.5 V̇ water [l/h]	1.5 V̇n air [m³/h]	3.0 p air [bar]	3.0 V̇ water [l/h]	3.0 V̇n air [m³/h]	4.0 p air [bar]	4.0 V̇ water [l/h]	4.0 V̇n air [m³/h]	Spray dimensions p air [bar]	p water [bar]	Ø D1 [mm]	Ø D2 [mm]
60°	166.215.xx.A2	●	0.5	1.0	**3.0**	1.3	1.6	**5.8**	1.7	2.8	**8.5**	2.4	3.8	**9.4**	3.1	1.0	0.7	200	330
				1.2	**1.8**	1.5	1.8	**4.9**	1.9	3.2	**7.2**	2.8	4.2	**8.2**	3.5	1.6	1.5	230	380
				1.4	**0.7**	1.8	2.0	**3.8**	2.1	3.6	**5.7**	3.2	4.6	**6.9**	3.9	2.4	2.0	230	385
				–	**–**	–	2.2	**2.8**	2.3	4.0	**4.0**	3.6	5.0	**5.4**	4.2	3.2	3.0	245	390
				–	**–**	–	2.4	**1.7**	2.5	4.4	**2.2**	4.1	5.4	**3.8**	4.7	4.2	4.0	250	410
				–	**–**	–	2.6	**0.8**	2.8	4.8	**0.8**	4.5	5.8	**2.3**	5.2	–	–	–	–
				–	**–**	–	–	**–**	–	5.0	**0.4**	4.6	6.0	**1.4**	5.6	–	–	–	–
	166.222.xx.A2	●	1.0	0.8	**17.5**	2.8	1.6	**25.9**	4.0	3.0	**40.4**	5.8	3.8	**54.9**	6.4	0.8	0.7	250	450
				1.0	**6.0**	4.3	1.8	**14.7**	5.3	3.2	**31.5**	6.9	4.0	**45.6**	7.3	1.6	1.5	245	465
				–	**–**	–	2.0	**6.7**	6.7	3.4	**22.2**	8.2	4.2	**37.6**	8.5	2.3	2.0	245	465
				–	**–**	–	2.2	**1.9**	8.1	3.6	**14.6**	9.5	4.4	**29.6**	9.7	3.2	3.0	250	465
				–	**–**	–	–	**–**	–	3.8	**8.5**	11.0	4.6	**21.6**	11.2	4.2	4.0	245	465
				–	**–**	–	–	**–**	–	4.0	**4.5**	12.3	4.8	**15.3**	12.4	–	–	–	–
				–	**–**	–	–	**–**	–	–	**–**	–	5.0	**9.7**	13.8	–	–	–	–
				–	**–**	–	–	**–**	–	–	**–**	–	5.2	**6.0**	15.2	–	–	–	–
				–	**–**	–	–	**–**	–	–	**–**	–	5.4	**2.9**	16.5	–	–	–	–
	166.231.xx.A2	●	1.4	1.6	**25.6**	5.1	2.6	**44.2**	7.0	3.6	**93.7**	7.9	4.2	**132.9**	7.3	2.0	0.7	235	380
				2.0	**17.8**	6.2	3.0	**33.0**	8.2	4.0	**78.3**	9.3	4.6	**117.2**	9.0	2.6	1.5	245	415
				2.4	**11.3**	7.2	3.4	**24.7**	9.2	4.4	**65.8**	10.6	5.0	**101.1**	10.4	2.4	2.0	255	420
				2.8	**6.9**	8.1	3.8	**18.1**	10.2	4.8	**54.9**	11.9	5.4	**87.9**	11.8	3.6	3.0	255	425
				–	**–**	–	4.2	**13.2**	11.2	5.2	**45.6**	13.0	5.8	**76.6**	13.2	4.2	4.0	265	430
				–	**–**	–	4.6	**9.3**	12.0	5.6	**38.0**	14.1	6.0	**71.2**	13.8	–	–	–	–
				–	**–**	–	–	**–**	–	6.0	**36.1**	14.4	–	**–**	–	–	–	–	–

Ordering example:	Type	+	Material no.	=	Ordering no.
	166.215.xx.A2	+	16	=	166.215.16.A2