

# ➤ 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
- Especially wide spray angle of 60°

### Applications:

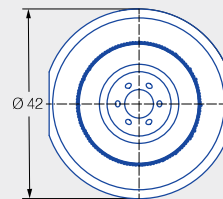
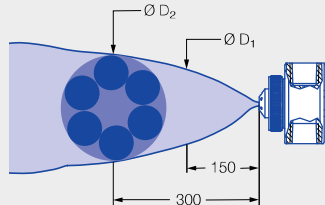
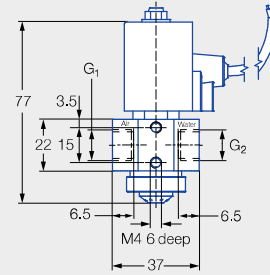
- Humidification of air
- Cooling

### 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 <sub>1</sub>	Water connection G <sub>2</sub>	Weight [g]
1/4 BSPP	1/4 BSPP	410

Spray angle	Ordering no.		Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions							
	Type	Mat. no.		0.7				1.5				3.0				4.0				p air [bar]	p water [bar]	Ø D <sub>1</sub> [mm]	Ø D <sub>2</sub> [mm]
		16		p air [bar]	v̇ water [l/h]	v̇ air [m <sup>3</sup> /h]	p air [bar]	v̇ water [l/h]	v̇ air [m <sup>3</sup> /h]	p air [bar]	v̇ water [l/h]	v̇ air [m <sup>3</sup> /h]	p air [bar]	v̇ water [l/h]	v̇ air [m <sup>3</sup> /h]								
60°	166.215.xx.A2	●	0.5	1.0	<b>3.0</b>	1.3	1.6	<b>5.8</b>	1.7	2.8	<b>8.5</b>	2.4	3.8	<b>9.4</b>	3.1	1.0	0.7	200	330				
				1.2	<b>1.8</b>	1.5	1.8	<b>4.9</b>	1.9	3.2	<b>7.2</b>	2.8	4.2	<b>8.2</b>	3.5	1.6	1.5	230	380				
				1.4	<b>0.7</b>	1.8	2.0	<b>3.8</b>	2.1	3.6	<b>5.7</b>	3.2	4.6	<b>6.9</b>	3.9	2.4	2.0	230	385				
				-	-	-	2.2	<b>2.8</b>	2.3	4.0	<b>4.0</b>	3.6	5.0	<b>5.4</b>	4.2	3.2	3.0	245	390				
				-	-	-	2.4	<b>1.7</b>	2.5	4.4	<b>2.2</b>	4.1	5.4	<b>3.8</b>	4.7	4.2	4.0	250	410				
				-	-	-	2.6	<b>0.8</b>	2.8	4.8	<b>0.8</b>	4.5	5.8	<b>2.3</b>	5.2	-	-	-	-	-			
	166.222.xx.A2	●	1.0	0.8	<b>17.5</b>	2.8	1.6	<b>25.9</b>	4.0	3.0	<b>40.4</b>	5.8	3.8	<b>54.9</b>	6.4	0.8	0.7	250	450				
				1.0	<b>6.0</b>	4.3	1.8	<b>14.7</b>	5.3	3.2	<b>31.5</b>	6.9	4.0	<b>45.6</b>	7.3	1.6	1.5	245	465				
				-	-	-	2.0	<b>6.7</b>	6.7	3.4	<b>22.2</b>	8.2	4.2	<b>37.6</b>	8.5	2.3	2.0	245	465				
				-	-	-	2.2	<b>1.9</b>	8.1	3.6	<b>14.6</b>	9.5	4.4	<b>29.6</b>	9.7	3.2	3.0	250	465				
				-	-	-	-	-	-	3.8	<b>8.5</b>	11.0	4.6	<b>21.6</b>	11.2	4.2	4.0	245	465				
				-	-	-	-	-	-	4.0	<b>4.5</b>	12.3	4.8	<b>15.3</b>	12.4	-	-	-	-				
				-	-	-	-	-	-	-	-	-	5.0	<b>9.7</b>	13.8	-	-	-	-				
				-	-	-	-	-	-	-	-	-	5.2	<b>6.0</b>	15.2	-	-	-	-				
	166.231.xx.A2	●	1.4	1.6	<b>25.6</b>	5.1	2.6	<b>44.2</b>	7.0	3.6	<b>93.7</b>	7.9	4.2	<b>132.9</b>	7.3	2.0	0.7	235	380				
				2.0	<b>17.8</b>	6.2	3.0	<b>33.0</b>	8.2	4.0	<b>78.3</b>	9.3	4.6	<b>117.2</b>	9.0	2.6	1.5	245	415				
				2.4	<b>11.3</b>	7.2	3.4	<b>24.7</b>	9.2	4.4	<b>65.8</b>	10.6	5.0	<b>101.1</b>	10.4	2.4	2.0	255	420				
				2.8	<b>6.9</b>	8.1	3.8	<b>18.1</b>	10.2	4.8	<b>54.9</b>	11.9	5.4	<b>87.9</b>	11.8	3.6	3.0	255	425				
				-	-	-	4.2	<b>13.2</b>	11.2	5.2	<b>45.6</b>	13.0	5.8	<b>76.6</b>	13.2	4.2	4.0	265	430				
				-	-	-	4.6	<b>9.3</b>	12.0	5.6	<b>38.0</b>	14.1	6.0	<b>71.2</b>	13.8	-	-	-	-				
				-	-	-	-	-	-	6.0	<b>36.1</b>	14.4	-	-	-	-	-	-	-				

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