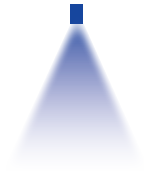


# ➤ Pneumatic atomizing nozzles, flat fan, pressure principle, external mixing Series 166.6



### Features:

- Version with magnetic valve
- Fine flat fan atomization
- Liquid pressure principle
- External mixing

### Applications:

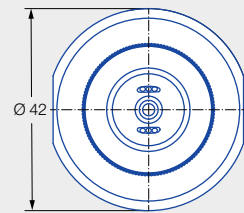
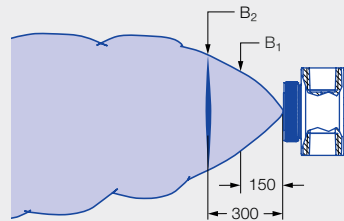
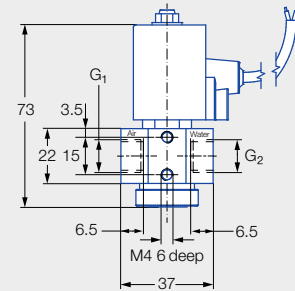
- Belt humidification
- Cooling
- Humidification of goods
- Atomization of viscous liquids

### Technical data:

- Operating pressure: 0–6 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 166.6



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.		0.07				0.15				0.30				0.35				p air [bar]	p water [bar]	B <sub>1</sub> [mm]	B <sub>2</sub> [mm]
		16		Stainless steel 303	p air [bar]	v water [l/h]	v <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	v water [l/h]	v <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	v water [l/h]	v <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	v water [l/h]	v <sub>n</sub> air [m <sup>3</sup> /h]							
45°	166.616.xx.A2	●	0.40	0.80	<b>1.68</b>	2.50	0.80	<b>2.43</b>	2.40	0.80	<b>3.42</b>	2.50	1.00	<b>3.69</b>	2.80	1.40	0.07	80	115				
				1.20	<b>1.80</b>	3.10	1.00	<b>2.46</b>	2.90	1.20	<b>3.48</b>	3.10	1.40	<b>3.81</b>	3.40	2.20	0.15	90	130				
				1.60	<b>1.92</b>	3.70	1.40	<b>2.58</b>	3.60	1.60	<b>3.51</b>	3.70	1.80	<b>3.87</b>	4.00	3.20	0.20	90	135				
				2.00	<b>2.10</b>	4.30	1.80	<b>2.61</b>	4.20	2.00	<b>3.63</b>	4.30	2.20	<b>3.84</b>	4.60	4.00	0.30	95	145				
				2.40	<b>2.07</b>	4.90	2.20	<b>2.76</b>	4.80	2.40	<b>3.63</b>	4.90	2.60	<b>3.90</b>	5.20	5.00	0.35	100	145				
				2.80	<b>2.19</b>	5.50	2.60	<b>2.73</b>	5.40	2.80	<b>3.63</b>	5.50	3.00	<b>3.93</b>	5.80	-	-	-	-	-			
				3.20	<b>2.19</b>	6.10	3.00	<b>2.73</b>	6.00	3.20	<b>3.63</b>	6.10	3.40	<b>3.90</b>	6.40	-	-	-	-	-			
				3.60	<b>2.22</b>	6.70	3.60	<b>2.76</b>	6.70	3.60	<b>3.66</b>	6.70	3.80	<b>3.93</b>	7.00	-	-	-	-	-			
				4.00	<b>2.22</b>	7.30	4.00	<b>2.76</b>	7.30	4.00	<b>3.69</b>	7.30	4.20	<b>3.96</b>	7.60	-	-	-	-	-			
				4.40	<b>2.22</b>	7.90	4.40	<b>2.76</b>	7.90	4.40	<b>3.69</b>	7.90	4.60	<b>3.93</b>	8.20	-	-	-	-	-			
	4.80	<b>2.22</b>	8.50	4.80	<b>2.76</b>	8.50	4.80	<b>3.69</b>	8.40	5.00	<b>3.93</b>	8.80	-	-	-	-	-						
	5.20	<b>2.22</b>	9.10	5.20	<b>2.76</b>	9.10	5.20	<b>3.66</b>	9.10	5.40	<b>3.93</b>	9.40	-	-	-	-	-						
	5.60	<b>2.22</b>	9.60	5.60	<b>2.76</b>	9.70	5.60	<b>3.66</b>	9.60	5.80	<b>3.87</b>	10.00	-	-	-	-	-						
	6.00	<b>2.22</b>	10.20	6.00	<b>2.73</b>	10.20	6.00	<b>3.66</b>	10.20	6.00	<b>3.87</b>	10.20	-	-	-	-	-						
	0.80	<b>5.25</b>	2.40	0.80	<b>7.29</b>	2.40	1.20	<b>10.11</b>	3.10	1.60	<b>11.07</b>	3.70	1.40	0.07	95	135							
	1.20	<b>5.64</b>	3.10	1.20	<b>7.44</b>	3.10	1.60	<b>10.23</b>	3.70	2.00	<b>11.22</b>	4.30	2.20	0.15	100	150							
	1.60	<b>5.79</b>	3.70	1.60	<b>7.62</b>	3.70	2.00	<b>10.38</b>	4.30	2.40	<b>11.28</b>	4.90	3.20	0.20	105	160							
	2.00	<b>6.18</b>	4.30	2.00	<b>7.86</b>	4.30	2.40	<b>10.47</b>	4.90	2.80	<b>11.31</b>	5.50	4.00	0.30	105	160							
	2.40	<b>6.24</b>	4.90	2.40	<b>7.92</b>	4.90	2.80	<b>10.59</b>	5.50	3.20	<b>11.43</b>	6.10	5.00	0.35	105	160							
	2.80	<b>6.27</b>	5.50	2.80	<b>8.04</b>	5.50	3.20	<b>10.59</b>	6.10	3.60	<b>11.46</b>	6.60	-	-	-	-	-						
3.20	<b>6.39</b>	6.10	3.20	<b>8.13</b>	6.10	3.60	<b>10.62</b>	6.70	4.00	<b>11.43</b>	7.20	-	-	-	-	-							
3.60	<b>6.42</b>	6.60	3.60	<b>8.13</b>	6.70	4.00	<b>10.62</b>	7.20	4.40	<b>11.37</b>	7.80	-	-	-	-	-							
4.00	<b>6.45</b>	7.20	4.00	<b>8.13</b>	7.20	4.40	<b>10.62</b>	7.80	4.80	<b>11.37</b>	8.40	-	-	-	-	-							
4.40	<b>6.42</b>	7.80	4.40	<b>8.07</b>	7.80	4.80	<b>10.59</b>	8.40	5.20	<b>11.34</b>	9.00	-	-	-	-	-							
4.80	<b>6.30</b>	8.40	4.80	<b>8.04</b>	8.40	5.20	<b>10.56</b>	9.00	5.60	<b>11.22</b>	9.60	-	-	-	-	-							
5.20	<b>6.24</b>	9.00	5.20	<b>7.86</b>	9.00	5.60	<b>10.50</b>	9.60	6.00	<b>11.16</b>	10.10	-	-	-	-	-							
5.60	<b>6.09</b>	9.60	5.60	<b>7.83</b>	9.60	6.00	<b>10.35</b>	10.20	-	-	-	-	-	-	-	-							
6.00	<b>5.85</b>	10.20	6.00	<b>7.59</b>	10.20	-	-	-	-	-	-	-	-	-	-	-							





Spray angle	Ordering no.		Narrowest free cross section Ø [mm]	Liquid pressure p [bar]												Spray dimensions			
	Type	Mat. no.		0.07			0.15			0.30			0.35			p air [bar]	p water [bar]	B <sub>1</sub> [mm]	B <sub>2</sub> [mm]
		16		p air [bar]	V water [l/h]	V <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	V water [l/h]	V <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	V water [l/h]	V <sub>n</sub> air [m <sup>3</sup> /h]	p air [bar]	V water [l/h]	V <sub>n</sub> air [m <sup>3</sup> /h]				
60°	166.626.xx.A2	●	0.40	0.80	<b>1.83</b>	2.80	0.80	<b>2.49</b>	2.80	0.80	<b>3.48</b>	2.80	0.80	<b>3.78</b>	2.80	1.60	0.07	85	135
				1.20	<b>1.98</b>	3.60	1.20	<b>2.58</b>	3.50	1.20	<b>3.60</b>	3.50	1.20	<b>3.87</b>	3.60	2.40	0.15	90	140
				1.60	<b>2.10</b>	4.30	1.60	<b>2.70</b>	4.20	1.60	<b>3.66</b>	4.30	1.60	<b>3.90</b>	4.20	3.20	0.20	90	140
				2.00	<b>2.16</b>	4.90	2.00	<b>2.82</b>	4.90	2.00	<b>3.69</b>	4.90	2.00	<b>3.96</b>	4.90	4.00	0.30	100	145
				2.40	<b>2.25</b>	5.60	2.40	<b>2.85</b>	5.60	2.40	<b>3.69</b>	5.60	2.40	<b>3.96</b>	5.60	5.20	0.35	105	150
				2.80	<b>2.34</b>	6.30	2.80	<b>2.88</b>	6.30	2.80	<b>3.72</b>	6.30	2.80	<b>4.02</b>	6.30	-	-	-	-
				3.20	<b>2.31</b>	7.00	3.20	<b>2.88</b>	7.00	3.20	<b>3.78</b>	7.00	3.20	<b>3.99</b>	7.00	-	-	-	-
				3.60	<b>2.34</b>	7.60	3.60	<b>2.88</b>	7.70	3.60	<b>3.78</b>	7.60	3.60	<b>4.02</b>	7.70	-	-	-	-
				4.00	<b>2.40</b>	8.40	4.00	<b>2.94</b>	8.40	4.00	<b>3.81</b>	8.30	4.00	<b>4.05</b>	8.30	-	-	-	-
				4.40	<b>2.40</b>	9.00	4.40	<b>2.91</b>	9.00	4.40	<b>3.81</b>	9.00	4.40	<b>4.02</b>	9.00	-	-	-	-
	4.80	<b>2.40</b>	9.70	4.80	<b>2.97</b>	9.70	4.80	<b>3.81</b>	9.70	4.80	<b>4.08</b>	9.70	-	-	-	-			
	5.20	<b>2.43</b>	10.40	5.20	<b>2.97</b>	10.40	5.20	<b>3.81</b>	10.40	5.20	<b>4.05</b>	10.40	-	-	-	-			
	5.60	<b>2.43</b>	11.20	5.60	<b>2.97</b>	11.10	5.60	<b>3.81</b>	11.10	5.60	<b>4.05</b>	11.00	-	-	-	-			
	6.00	<b>2.43</b>	11.80	6.00	<b>2.97</b>	11.80	6.00	<b>3.81</b>	11.80	6.00	<b>4.05</b>	11.80	-	-	-	-			
	1.00	<b>22.41</b>	7.50	1.40	<b>28.95</b>	9.30	1.80	<b>41.22</b>	11.10	2.00	<b>44.04</b>	11.80	1.60	0.07	110	155			
	1.40	<b>20.19</b>	9.30	1.80	<b>26.07</b>	10.90	2.20	<b>34.92</b>	12.60	2.40	<b>39.09</b>	13.40	2.40	0.15	120	155			
	1.80	<b>18.75</b>	11.00	2.20	<b>23.94</b>	12.50	2.60	<b>33.18</b>	14.20	2.80	<b>35.16</b>	15.10	3.20	0.20	120	160			
	2.20	<b>17.88</b>	12.50	2.60	<b>22.23</b>	14.30	3.00	<b>30.45</b>	15.90	3.20	<b>32.22</b>	16.70	4.00	0.30	120	165			
	2.60	<b>17.10</b>	14.20	3.00	<b>21.12</b>	15.90	3.40	<b>28.29</b>	17.50	3.60	<b>30.18</b>	18.30	5.20	0.35	120	175			
	3.00	<b>16.47</b>	15.90	3.40	<b>20.10</b>	17.50	3.80	<b>26.64</b>	19.10	4.00	<b>28.32</b>	19.90	-	-	-	-			
	3.40	<b>16.08</b>	17.50	3.80	<b>19.44</b>	19.10	4.20	<b>25.35</b>	20.70	4.40	<b>26.94</b>	21.50	-	-	-	-			
	3.80	<b>15.90</b>	19.10	4.20	<b>18.99</b>	20.70	4.60	<b>24.24</b>	22.30	4.80	<b>25.59</b>	23.10	-	-	-	-			
	4.20	<b>15.90</b>	20.70	4.60	<b>18.45</b>	22.30	5.00	<b>23.13</b>	24.00	5.20	<b>24.36</b>	24.80	-	-	-	-			
	4.60	<b>15.81</b>	22.30	5.00	<b>18.18</b>	24.00	5.40	<b>22.14</b>	25.50	5.60	<b>23.28</b>	26.40	-	-	-	-			
	5.00	<b>15.21</b>	23.90	5.40	<b>17.25</b>	25.40	5.80	<b>21.12</b>	27.20	6.00	<b>22.17</b>	28.00	-	-	-	-			
	5.40	<b>13.92</b>	25.50	5.80	<b>15.72</b>	27.20	6.00	<b>20.67</b>	28.00	-	-	-	-	-	-	-			
	5.80	<b>12.09</b>	27.20	6.00	<b>14.91</b>	28.00	-	-	-	-	-	-	-	-	-	-			
	6.00	<b>11.07</b>	28.00	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1.40	<b>52.00</b>	13.80	2.00	<b>67.30</b>	17.50	2.60	<b>92.30</b>	21.20	2.60	<b>102.10</b>	21.20	1.60	0.07	150	200			
	1.80	<b>50.00</b>	16.30	2.40	<b>64.60</b>	20.10	3.00	<b>87.70</b>	23.60	3.00	<b>97.20</b>	23.70	2.40	0.15	160	205			
2.20	<b>48.60</b>	18.80	2.80	<b>62.00</b>	22.50	3.40	<b>84.30</b>	26.00	3.40	<b>92.50</b>	26.10	3.20	0.20	160	205				
2.60	<b>47.50</b>	21.30	3.20	<b>60.40</b>	24.90	3.80	<b>80.70</b>	28.50	3.80	<b>88.40</b>	28.50	4.00	0.30	160	210				
3.00	<b>46.50</b>	23.70	3.60	<b>58.00</b>	27.30	4.20	<b>77.00</b>	30.90	4.20	<b>85.20</b>	31.00	5.20	0.35	150	210				
3.40	<b>45.40</b>	26.10	4.00	<b>56.20</b>	29.80	4.60	<b>74.40</b>	33.40	4.60	<b>81.30</b>	33.40	-	-	-	-				
3.80	<b>44.40</b>	28.60	4.40	<b>54.20</b>	32.10	5.00	<b>71.10</b>	35.90	5.00	<b>78.20</b>	35.80	-	-	-	-				
4.20	<b>42.90</b>	31.00	4.80	<b>52.40</b>	34.70	5.40	<b>68.10</b>	38.30	5.40	<b>74.30</b>	38.20	-	-	-	-				
4.60	<b>41.50</b>	33.40	5.20	<b>49.90</b>	37.10	5.80	<b>64.30</b>	40.80	5.80	<b>71.10</b>	40.70	-	-	-	-				
5.00	<b>39.90</b>	35.80	5.60	<b>48.10</b>	39.50	6.00	<b>63.20</b>	42.00	6.00	<b>68.90</b>	41.90	-	-	-	-				
5.40	<b>38.90</b>	38.30	6.00	<b>46.40</b>	42.00	-	-	-	-	-	-	-	-	-	-				
5.60	<b>38.50</b>	39.40	-	-	-	-	-	-	-	-	-	-	-	-	-				

Ordering Type + Material no. = Ordering no.  
 example: 166.626.xx.A2 + 16 = 166.626.16.A2

