Netter Pneumatic Linear Vibrators
Series NTS

- Linear vibration
- Resistant against aggressive environmental conditions
- Nominal frequency from 827 min\(^{-1}\) to 9.040 min\(^{-1}\)
- Centrifugal force 32 N to 21.808 N
- Frequency and amplitude can be adjusted separately
- Synchronous operation possible (NTS 350 and higher)
- Available in ATEX version or in stainless steel
# Netter Pneumatic Linear Vibrators

## Series NTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Housing material</th>
<th>Working moment [cm·kg]</th>
<th>Nominal frequency [min⁻¹]</th>
<th>Centrifugal force [N]</th>
<th>Air consumption [l/min]</th>
<th>Noise level [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTS 120 HF</td>
<td>AL</td>
<td>0.18, 0.18, 0.18</td>
<td>6.28, 7.92, 8.96</td>
<td>40, 63, 81</td>
<td>10, 36</td>
<td>68, 73</td>
</tr>
<tr>
<td>NTS 120 NF</td>
<td>AL</td>
<td>0.038, 0.046, 0.046</td>
<td>3.871, 4.510, 5.095</td>
<td>32, 52, 66</td>
<td>7, 19</td>
<td>68, 72</td>
</tr>
<tr>
<td>NTS 180 HF</td>
<td>AL</td>
<td>0.035, 0.045, 0.046</td>
<td>5.520, 6.880, 9.040</td>
<td>59, 116, 207</td>
<td>15, 67</td>
<td>68, 73</td>
</tr>
<tr>
<td>NTS 180 NF</td>
<td>AL</td>
<td>0.138, 0.149, 0.163</td>
<td>3.000, 4.160, 4.880</td>
<td>68, 141, 212</td>
<td>14, 57</td>
<td>66, 72</td>
</tr>
<tr>
<td>NTS 250 HF</td>
<td>AL</td>
<td>0.152, 0.190, 0.190</td>
<td>3.654, 4.756, 5.773</td>
<td>111, 235, 346</td>
<td>21, 105</td>
<td>68, 74</td>
</tr>
<tr>
<td>NTS 250 NF</td>
<td>AL</td>
<td>0.402, 0.475, 0.542</td>
<td>3.228, 3.100, 3.894</td>
<td>119, 251, 451</td>
<td>20, 99</td>
<td>68, 72</td>
</tr>
<tr>
<td>NTS 350 HF</td>
<td>AL</td>
<td>0.208, 0.308, 0.349</td>
<td>3.868, 4.754, 5.579</td>
<td>179, 399, 594</td>
<td>37, 135</td>
<td>66, 74</td>
</tr>
<tr>
<td>NTS 350 NF</td>
<td>AL</td>
<td>0.756, 0.932, 0.992</td>
<td>2.412, 3.077, 3.663</td>
<td>241, 486, 733</td>
<td>26, 110</td>
<td>65, 70</td>
</tr>
</tbody>
</table>

The technical data can vary depending on application. Please request comparative values.

* oil free operation possible
<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>A₁</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>ØE</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>K Outlet</th>
<th>L Inlet</th>
<th>Outlet on side</th>
<th>Housing</th>
<th>Piston</th>
<th>Total</th>
<th>Housing type</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTS 50/08</td>
<td>97,5</td>
<td>70,0</td>
<td>27,5</td>
<td>SW 21</td>
<td>–</td>
<td>M 8</td>
<td>11</td>
<td>16,5</td>
<td>34,5</td>
<td>–</td>
<td>G1/8</td>
<td>G1/8</td>
<td>–</td>
<td>0,086</td>
<td>0,022</td>
<td>0,108</td>
<td>I</td>
</tr>
<tr>
<td>NTS 54/02</td>
<td>125,0</td>
<td>97,5</td>
<td>27,5</td>
<td>SW 21</td>
<td>–</td>
<td>M 8</td>
<td>11</td>
<td>16,5</td>
<td>48,5</td>
<td>–</td>
<td>G1/8</td>
<td>G1/8</td>
<td>–</td>
<td>0,119</td>
<td>0,042</td>
<td>0,161</td>
<td>I</td>
</tr>
<tr>
<td>NTS 180 HF</td>
<td>108,5</td>
<td>73,0</td>
<td>33,5</td>
<td>SW 27</td>
<td>–</td>
<td>M10</td>
<td>10</td>
<td>19,5</td>
<td>35,5</td>
<td>–</td>
<td>G1/4</td>
<td>G1/8</td>
<td>–</td>
<td>0,124</td>
<td>0,050</td>
<td>0,174</td>
<td>I</td>
</tr>
<tr>
<td>NTS 180 NF</td>
<td>146,5</td>
<td>110,5</td>
<td>33,5</td>
<td>SW 27</td>
<td>–</td>
<td>M10</td>
<td>10</td>
<td>19,5</td>
<td>53,8</td>
<td>–</td>
<td>G1/4</td>
<td>G1/8</td>
<td>–</td>
<td>0,192</td>
<td>0,110</td>
<td>0,302</td>
<td>I</td>
</tr>
<tr>
<td>NTS 250 HF</td>
<td>145,5</td>
<td>98,0</td>
<td>41,5</td>
<td>SW 36</td>
<td>–</td>
<td>M12</td>
<td>12</td>
<td>24,0</td>
<td>49,0</td>
<td>–</td>
<td>G3/8</td>
<td>G1/8</td>
<td>–</td>
<td>0,238</td>
<td>0,155</td>
<td>0,393</td>
<td>I</td>
</tr>
<tr>
<td>NTS 250 NF</td>
<td>190,0</td>
<td>141,0</td>
<td>41,5</td>
<td>SW 36</td>
<td>–</td>
<td>M12</td>
<td>12</td>
<td>24,0</td>
<td>70,5</td>
<td>–</td>
<td>G3/8</td>
<td>G1/8</td>
<td>–</td>
<td>0,335</td>
<td>0,290</td>
<td>0,625</td>
<td>I</td>
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<tr>
<td>NTS 350 HF</td>
<td>146,5</td>
<td>99,0</td>
<td>53,0</td>
<td>SW 46</td>
<td>–</td>
<td>M12</td>
<td>12</td>
<td>30,5</td>
<td>49,5</td>
<td>–</td>
<td>G3/8</td>
<td>G1/4</td>
<td>–</td>
<td>0,359</td>
<td>0,325</td>
<td>0,684</td>
<td>I</td>
</tr>
<tr>
<td>NTS 350 NF</td>
<td>193,0</td>
<td>145,0</td>
<td>53,0</td>
<td>SW 46</td>
<td>–</td>
<td>M12</td>
<td>12</td>
<td>30,5</td>
<td>72,5</td>
<td>–</td>
<td>G3/8</td>
<td>G1/4</td>
<td>–</td>
<td>0,505</td>
<td>0,570</td>
<td>1,075</td>
<td>I</td>
</tr>
</tbody>
</table>

**Netter Pneumatic Linear Vibrators**

Series NTS

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**Housing type I**
NTS 120 to 350

**Housing type II**
NTS 100/01 to NTS 50/04

**Housing type III**
NTS 21/04 to NTS 20/40
Netter Pneumatic Linear Vibrators
Series NTS

Applications
The pneumatic linear vibrators series NTS are especially suitable for conveying, compacting and loosening bulk material, due to the completely linear vibration. They are used to empty bins and as drives for conveyor and dosing troughs. A special feature of NTS vibrators is the possibility of the synchronous operation of several NTS when using a coupling kit. Starting from NTS 350 NF to NTS 50/08 this is available as special execution and starting from NTS 50/10 to NTS 20/40 it is standard.

Design and functioning principle
The vibration (sinus-shaped oscillation) is produced by a freely vibrating, self reversing piston. This oscillation supports, expedites or enables a variety of applications. NTS linear vibrators start and stop without delay in any installed position.

A built-in pressure spring provides a reliable start-up of vibrators with aluminium housing up to NTS 50/04 and NTS 50/08. The amplitude is set by means of the optional throttle valve.

An increase of the supply pressure causes a higher frequency. For operation a control valve is required (not included in scope of delivery). ATEX compliant linear vibrators of the NTS series and units with a stainless steel housing are available.

Permissible operating conditions
Drive medium:
Compressed air or nitrogen (Filter ≤ 5 µm), preferably with oil mist
Operating pressure:
2 bar to 6 bar
Ambient temperature:
-10°C to 60°C
Aluminium housing 5°C to 60°C

NetterVibration offers the accessories required for mounting, installation and control of vibrators and interval impactors.

Netter provides solutions. Consults our experienced application technicians.

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