Some typical applications:
Gas and fume scrubbers, filtration of liquids, production of semiconductors and solar cells, use in coating plants, operation of water treatment plants, purging applications, PCB processing equipment, electroplating equipment, general mixing and circulation tasks, Exhaust scrubber for ships, redox flow application, disinfection systems.

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor power kW</th>
<th>Rated current 400V-3ph, 50Hz</th>
<th>Connection pressure side d/DN</th>
<th>Weight kg</th>
<th>Immersion depth mm</th>
<th>Suction extension mm</th>
<th>Q max. m³/h</th>
<th>H max. m LQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-14-13</td>
<td>0,55</td>
<td>1,5</td>
<td>25/20</td>
<td>16</td>
<td>410</td>
<td>up to 1000</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>V-18-14</td>
<td>0,75</td>
<td>1,65</td>
<td>32/25</td>
<td>19</td>
<td>410</td>
<td>up to 1000</td>
<td>18</td>
<td>14</td>
</tr>
<tr>
<td>V-21-15</td>
<td>1,1</td>
<td>2,45</td>
<td>40/32</td>
<td>20</td>
<td>410</td>
<td>up to 1500</td>
<td>21</td>
<td>15</td>
</tr>
<tr>
<td>V-26-17</td>
<td>1,5</td>
<td>3,2</td>
<td>40/32</td>
<td>25</td>
<td>410</td>
<td>up to 1500</td>
<td>26</td>
<td>17</td>
</tr>
<tr>
<td>V-35-19</td>
<td>2,2</td>
<td>4,5</td>
<td>40/32</td>
<td>27</td>
<td>410</td>
<td>up to 1500</td>
<td>35</td>
<td>19</td>
</tr>
<tr>
<td>V-41-22</td>
<td>3</td>
<td>5,75</td>
<td>50/40</td>
<td>32</td>
<td>410</td>
<td>up to 1500</td>
<td>41</td>
<td>22</td>
</tr>
<tr>
<td>V-5-20-HP</td>
<td>1,5 or 2,2</td>
<td>3,2 or 4,5</td>
<td>25/20</td>
<td>25 bis 27</td>
<td>410</td>
<td>up to 1500</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td>V-11-24 HP</td>
<td>2,2 or 3</td>
<td>4,5 or 5,75</td>
<td>25/20</td>
<td>27 bis 32</td>
<td>410</td>
<td>up to 1500</td>
<td>11</td>
<td>24</td>
</tr>
</tbody>
</table>

Material: PP and PVDF
Immersion depth: 410 mm
Flow rate: 1,5 to 41 m³/h
Delivery head: up to 25 m LQ (50 Hz)  
up to 32 m LQ (60 Hz)
Motor power: 0,55 to 3 kW
NEES chemical vertical pumps are used to reliably and safely transfer aggressive or highly corrosive fluids and wastewater. **Ever-growing demands** on the pumps, high runtime expectations, enhanced energy efficiency, and highest product safety: These challenges drive us to constantly improve and redefine the existing standards. **100% product safety** for people and equipment is a principle we will not compromise in the sophisticated design of our pumps.

Thanks to their innovative and proven construction, vertical NEES pumps V-5 to V-41 are very energy efficient, robust, versatile and absolutely dry-run safe. Low-vibration operation, insensitivity to solid particles and very low pressure losses distinguish this pump. The pump can also transfer solid matter directly from pump sumps, wells, containers or basins in wet or dry installation.

**Characteristics:**
- All wetted parts are made of PP or PVDF (no metal-to-liquid contact)
- Without intermediate bearing, therefore absolutely safe to dry run
- Motor with multi-range voltage
- Special paint for use in aggressive atmosphere
- Reinforced motor ball bearings and extended shaft for stability and longevity
- Abrasion-free, therefore suitable for high purity applications
- Energy efficient design
- Low maintenance, therefore cost-effective operation
- The variant made of the material PVDF is carbon fibre reinforced. This reduces the thermal expansion at higher temperatures and ensures high energy efficiency
- Pressure side fittings available with inserts made of PP, PVDF or CPVC

**Optionally available**
- Suction extensions
- Intermediate filter
- Hose connectors
- Customised mounting flange
- Vapour barrier
- FIP fittings
- Special connections
- Dry installation next to the container
- HP variant with higher pressure
- Special designs are always possible

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