HENALINE

A complete line of single-stage rotary vane pumps for low and medium vacuum applications. Safe. Reliable. Powerful.
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HenaLine

HenaLine is a complete line of oil-sealed rotary vane pumps that are suitable for both industrial applications as well as research & development environments. These pumps offer pumping speeds of between 25 and 1,920 m³/h.

Where are the advantages?

Whether as a stand-alone pump or as a backing pump for our OktaLine in connection with medium vacuum applications: HenaLine means top quality at all times. Used as backing pumps in our CombiLine Roots pumping stations, these pumps are the ideal solution for your applications in metallurgy, helium leak detection or vacuum drying and degassing.

Efficient

Their reliability, performance and compact size round out the outstanding features of the HenaLine pumps. Moreover, the principle of operation of the HenaLine pumps assures low operating temperatures. This increases the service life of the oil while eliminating the need for additional water cooling for the pump in most applications.

Safe

Oil mist separator, oil return and safety valves are integrated as standard equipment in this line of pumps. They prevent contamination of the ambient air and safeguard both the pump as well as your system. In addition, the gas ballast valve assures pump-down of steam and other process vapors. In every respect, the HenaLine simply shines!

Customer benefits

- Integrated oil mist separator for clean exhaust air
- Compact, reliable and powerful
- Easy to service
- Operating and process reliability
- Flanges in industrial version with pipe thread:
  - Connection flanges in DN ISO-KF/K, easily adaptable
- Quiet, low-vibration operation
**HENALINE**

**Pumping speed**

Hena 26

Hena 61

Hena 101

Hena 201
Hena 301

Hena 631

Hena 1000

Hena 1600
Applications

Industrial
- Electron beam welding
- Lithium ionen batteries
- Surface coating
- Vacuum drying and degassing
- Leak detection
- Metallurgy
- Gas recovery
- Load locks/transfer chambers
- General process technology

Research & development
- Simulation chambers
  (Air conditioning, aerospace)

Coating
- Optical coating
- Wear protection coating
## HENALINE

### Technical data

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<thead>
<tr>
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<th>Hena 26</th>
<th>Hena 61</th>
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<tr>
<td><strong>Flange (out)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Female thread G 1 ¼”</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flange (in)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Female thread G 1 ¼”</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Exhaust pressure, max.</strong></td>
<td>Atmospheric pressure</td>
<td>Atmospheric pressure</td>
<td>Atmospheric pressure</td>
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<tr>
<td><strong>Exhaust pressure, min.</strong></td>
<td>Atmospheric pressure</td>
<td>Atmospheric pressure</td>
<td>Atmospheric pressure</td>
</tr>
<tr>
<td><strong>Operating fluid</strong></td>
<td>P3</td>
<td>P3</td>
<td>P3</td>
</tr>
<tr>
<td><strong>Operating fluid filling</strong></td>
<td>1 l</td>
<td>2 l</td>
<td>2 l</td>
</tr>
<tr>
<td><strong>Rotation speed at 50 Hz</strong></td>
<td>1,500 min⁻¹</td>
<td>1,500 min⁻¹</td>
<td>1,500 min⁻¹</td>
</tr>
<tr>
<td><strong>Rotation speed at 60 Hz</strong></td>
<td>1,800 min⁻¹</td>
<td>1,800 min⁻¹</td>
<td>1,800 min⁻¹</td>
</tr>
<tr>
<td><strong>Emission sound pressure level with gas ballast at 50 Hz</strong></td>
<td>≤ 60 dB (A)</td>
<td>≤ 64 dB (A)</td>
<td>≤ 65 dB (A)</td>
</tr>
<tr>
<td><strong>Emission sound pressure level without gas ballast at 60 Hz</strong></td>
<td>≤ 63 dB (A)</td>
<td>≤ 66 dB (A)</td>
<td>≤ 68 dB (A)</td>
</tr>
<tr>
<td><strong>Ultimate pressure with gas ballast</strong></td>
<td>1.5 hPa</td>
<td>≤ 1.5 hPa</td>
<td>≤ 1.5 hPa</td>
</tr>
<tr>
<td><strong>Ultimate pressure without gas ballast</strong></td>
<td>0.3 hPa</td>
<td>≤ 0.3 hPa</td>
<td>≤ 0.3 hPa</td>
</tr>
<tr>
<td><strong>Gas ballast</strong></td>
<td>Yes, without shut-off valve</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>35 kg</td>
<td>68 kg</td>
<td>77 kg</td>
</tr>
<tr>
<td><strong>Mains requirement: voltage (range)</strong></td>
<td>±5 %</td>
<td>± 5 %</td>
<td>±5 %</td>
</tr>
<tr>
<td><strong>Mains cable</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Pumping speed at 50 Hz</strong></td>
<td>25 m³/h</td>
<td>63 m³/h</td>
<td>100 m³/h</td>
</tr>
<tr>
<td><strong>Pumping speed at 60 Hz</strong></td>
<td>30 m³/h</td>
<td>76 m³/h</td>
<td>120 m³/h</td>
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<tr>
<td><strong>Switch</strong></td>
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</tr>
<tr>
<td><strong>Protection category</strong></td>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
</tr>
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## Order numbers

<table>
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<th>Hena 26</th>
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<tbody>
<tr>
<td><strong>50/60 Hz</strong></td>
<td>PK D03 200</td>
<td>PK D03 300</td>
<td>PK D03 350</td>
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<td><strong>50 Hz</strong></td>
<td>PK D03 700</td>
<td>PK D03 810</td>
<td>PK D03 350</td>
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<tr>
<td><strong>60 Hz</strong></td>
<td>PK D03 701</td>
<td>PK D03 811</td>
<td>PK D03 350</td>
</tr>
<tr>
<td>Hena 201</td>
<td>Hena 301</td>
<td>Hena 631</td>
<td>Hena 1000</td>
</tr>
<tr>
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<td>-----------</td>
</tr>
<tr>
<td><strong>Female thread G 2”</strong></td>
<td><strong>Female thread G 3”</strong></td>
<td>DN 100 ISO-K (2 x)</td>
<td></td>
</tr>
<tr>
<td><strong>Flange (out)</strong></td>
<td><strong>Flange (in)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female thread G 1 ¼”</td>
<td>Female thread G 1 ¼”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female thread G 2”</td>
<td>Female thread G 2”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female thread G 3”</td>
<td>Female thread G 3”</td>
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</tr>
<tr>
<td>DN 100</td>
<td>DN 160</td>
<td>ISO-K</td>
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</tr>
</tbody>
</table>

**Exhaust pressure. max.**
- Atmospheric pressure
  - max. 1,000 abs.

**Exhaust pressure. min.**
- Atmospheric pressure
  - min. 1,000 abs.

**Operating fluid**
- P3
- P3
- P3
- P3
- P3

**Operating fluid filling**
- 1 l
- 2 l
- 6.5 l
- 6.5 l
- 15 l
- 30 l
- 36 l
- 6.5 l
- 6.5 l
- 15 l
- 30 l
- 36 l

**Rotation speed at 50 Hz**
- 1,500 min⁻¹
- 1,500 min⁻¹
- 1,500 min⁻¹
- 1,500 min⁻¹
- 1,500 min⁻¹
- 1,500 min⁻¹
- 1,200 min⁻¹
- 1,200 min⁻¹

**Rotation speed at 60 Hz**
- 1,800 min⁻¹
- 1,800 min⁻¹
- 1,800 min⁻¹
- 1,800 min⁻¹
- 1,800 min⁻¹
- 1,800 min⁻¹
- 1,200 min⁻¹
- 1,200 min⁻¹

**Emission sound pressure level with gas ballast at 50 Hz**
- ≤ 60 dB (A)
- ≤ 64 dB (A)
- ≤ 65 dB (A)
- ≤ 72 dB (A)
- ≤ 74 dB (A)
- ≤ 82 dB (A)
- ≤ 74 dB (A)
- ≤ 82 dB (A)

**Emission sound pressure level without gas ballast at 60 Hz**
- ≤ 63 dB (A)
- ≤ 66 dB (A)
- ≤ 68 dB (A)
- ≤ 74 dB (A)
- ≤ 76 dB (A)
- ≤ 83 dB (A)

**Ultimate pressure with gas ballast**
- 1.5 hPa
- 1.5 hPa
- 1.5 hPa
- 1.2 hPa
- 1.2 hPa
- 1.2 hPa
- 1.2 hPa
- 1.2 hPa

**Ultimate pressure without gas ballast**
- 0.3 hPa
- 0.3 hPa
- 0.3 hPa
- 0.3 hPa
- 0.3 hPa
- 0.3 hPa
- 1 hPa
- 0.7 hPa

**Gas ballast**
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes
- Yes

**Weight**
- 35 kg
- 68 kg
- 77 kg
- 182 kg
- 227 kg
- 670 kg
- 1,200 (1,230) kg
- 1,474 (1,484) kg

**Cooling method**
- Standard Air
- Air
- Air
- Air
- Air
- Air
- Water
- Water

**Leak rate safety valve**
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s
- ≤ 8 · 10⁻³ Pa m³/s

**Motor protection**
- No
- 3TF
- 3TF
- 3TF
- 3TF
- 3TF
- 3TF
- 3TF

**Rated power 50 Hz**
- 1 kW
- 2 kW
- 2.7 kW
- 5.5 kW
- 7.5 kW
- 15 kW
- 22 kW
- 30 kW

**Rated power 60 Hz**
- 1.2 kW
- 2.4 kW
- 3.4 kW
- 6.6 kW
- 9.2 kW
- 18.5 kW
- 22 kW
- 30 kW

**Mains requirement: voltage 50 Hz**
- 190–208/380–415 V
- 190–208/380–415 V
- 190–208/380–415 V
- 200/220–240/380–415 V
- 200/220–240/380–415 V
- 200/220–240/380–415 V
- 380–415/690 V
- 400/690 V

**Mains requirement: voltage 60 Hz**
- 220–230/440–460 V
- 220–230/440–460 V
- 220–230/440–460 V
- 220–230/440–460 V
- 220–230/440–460 V
- 220–230/440–460 V
- 220–380 V
- 220–380 V

**Pumping speed at 50 Hz**
- 25 m³/h
- 63 m³/h
- 100 m³/h
- 200 m³/h
- 300 m³/h
- 630 m³/h
- 1,000 m³/h
- 1,600 m³/h

**Switch**
- No
- No
- No
- No
- No
- No
- No
- No

**Protection category**
- IP55
- IP55
- IP55
- IP55
- IP55
- IP55
- IP55
- IP55

**Order numbers**
- Hena 26
- Hena 61
- Hena 101
- Hena 201
- Hena 301
- Hena 631
- Hena 1000
- Hena 1600

**50/60 Hz**
- PK D03 200
- PK D03 300
- PK D03 350
- PK D03 400
- PK D03 450
- PK D03 600
- PK D02 700
- PK D02 810
- PK D02 701
- PK D02 811

**60 Hz**
- PK D02 701
- PK D02 811
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