### TECHNICAL FEATURES
- Compatible with Cold Converter and Thermosyphon storage tanks
- Easy installation thanks to 360° rotating inlet and outlet connections
- High efficiency
- Low operating noise
- Quick maintenance thanks to the integrated cartridge seal system

### APPLICATIONS
- L-CNG refueling stations for cars/trucks/buses, cylinders and buffer filling

### CRANKDRIVE LUBRICATION
- TW 6.5 - Oil lubrication

### TRANSFERRED FLUIDS
- LNG

## PERFORMANCES

<table>
<thead>
<tr>
<th>Model</th>
<th>Piston Bore</th>
<th>Piston Stroke</th>
<th>Flow-rate Min 80 rpm</th>
<th>Flow-rate Max 450 rpm</th>
<th>Maximum allowable suction pressure (MASP)</th>
<th>Maximum allowable working pressure (MAWP)</th>
<th>Power installed Referred to MAWP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>lpm</td>
<td>gpm</td>
<td>bar psi</td>
<td>bar psi</td>
<td>kW</td>
</tr>
<tr>
<td>VT-1 32 25</td>
<td>32</td>
<td>25</td>
<td>1.4</td>
<td>0.4</td>
<td>20 290</td>
<td>420 6092</td>
<td>3 - 15</td>
</tr>
<tr>
<td>VT-1 32 35</td>
<td>32</td>
<td>35</td>
<td>2.0</td>
<td>0.5</td>
<td>20 290</td>
<td>420 6092</td>
<td>4 - 22</td>
</tr>
<tr>
<td>VT-1 34 35</td>
<td>34</td>
<td>35</td>
<td>2.3</td>
<td>0.6</td>
<td>20 290</td>
<td>500 7252</td>
<td>5.5 - 30</td>
</tr>
<tr>
<td>VT-1 36 35</td>
<td>36</td>
<td>35</td>
<td>2.6</td>
<td>0.7</td>
<td>20 290</td>
<td>420 6092</td>
<td>5.5 - 30</td>
</tr>
<tr>
<td>VT-1 40 35</td>
<td>40</td>
<td>35</td>
<td>3.2</td>
<td>0.8</td>
<td>20 290</td>
<td>420 6092</td>
<td>5.5 - 30</td>
</tr>
<tr>
<td>VT-1 45 35</td>
<td>45</td>
<td>35</td>
<td>4.0</td>
<td>1.1</td>
<td>20 290</td>
<td>300 4351</td>
<td>5.5 - 30</td>
</tr>
<tr>
<td>VT-1 48 35</td>
<td>48</td>
<td>35</td>
<td>4.6</td>
<td>1.2</td>
<td>20 290</td>
<td>260 3771</td>
<td>5.5 - 30</td>
</tr>
<tr>
<td>VT-1 45 40</td>
<td>45</td>
<td>40</td>
<td>4.6</td>
<td>1.2</td>
<td>20 290</td>
<td>300 4351</td>
<td>7.5 - 37</td>
</tr>
<tr>
<td>VT-1 48 40</td>
<td>48</td>
<td>40</td>
<td>5.2</td>
<td>1.4</td>
<td>20 290</td>
<td>260 3771</td>
<td>5.5 - 37</td>
</tr>
</tbody>
</table>

NPSH required: 1.5 - 1.7 m

Data can be subjected to change

---

**www.vanzettiengineering.com**
STANDARD SUPPLY
- Painted steel frame
- Cryogenic pump
- Electric motor
- Transmission with belts and pulleys
- Double Pulsation damper

STANDARD ACCESSORIES
- Suction flexible hose
- Return flexible hose
- Low pressure safety valve
- High pressure safety valve
- High pressure pneumatic valve for venting
- Check valve
- Pressure gauge
- Pressure switch
- Temperature sensor for cool down
- Temperature sensor for cavitation
- Temperature sensor for leaks detection

OPTIONAL ACCESSORIES
- Flushing system with nitrogen gas
- Electrical control panel
- 2 speed electric motor
- Motor suitable for VFD
- Complete automatic system available on demand

STANDARDS
- Designed according to:
  - European Directive Machinery
  - European Directive PED
  - European Directive ATEX*
  - EIGA/IGC/CGA guidelines

*VT-1 Skids are ATEX certified.

TEST AND CHECKS
- Dimensional control of each mechanical component before assembly
- Running test of each pump with LIN before delivery

GENERAL DIMENSIONS

COLD END DETAIL
The innovative seal cartridge allows a very easy maintenance

Vanzetti Engineering s.r.l.
Via dei Mestieri, 3 - 12030 Cavallerleone (CN) - ITALY
Tel. (+39) 0172 913811 - Fax (+39) 0172 913822
www.vanzettiengineering.com
**TECHNICAL FEATURES**
- Compatible with Cold Converter and Thermosyphon storage tanks
- Easy installation due to the 360° rotating inlet and outlet connections
- High efficiency
- Low operating noise
- Quick maintenance thanks to the integrated cartridge seal system

**APPLICATIONS**
- Cylinders filling and high pressure accumulation capacities

**CRANKDRIVE SYSTEM**
- TW 6,5 - Oil lubrication

**TRANSFERRED FLUIDS**
- LIN, LOX, LAR, LCO₂, LN₂O

**PERFORMANCES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Piston Bore</th>
<th>Flow Rate</th>
<th>Maximum allowable suction pressure (MASP)</th>
<th>Maximum allowable working pressure (MAWP)</th>
<th>Power Installed</th>
<th>Referred to MAWP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
<td>lpm</td>
<td>gpm</td>
<td>lpm</td>
<td>gpm</td>
</tr>
<tr>
<td>VT-1 32 25</td>
<td>32</td>
<td>25</td>
<td>1,4</td>
<td>0,4</td>
<td>8,1</td>
<td>2,1</td>
</tr>
<tr>
<td>VT-1 32 35</td>
<td>32</td>
<td>35</td>
<td>2,0</td>
<td>0,5</td>
<td>11,4</td>
<td>3,0</td>
</tr>
<tr>
<td>VT-1 34 35</td>
<td>34</td>
<td>35</td>
<td>2,3</td>
<td>0,6</td>
<td>12,9</td>
<td>3,4</td>
</tr>
<tr>
<td>VT-1 36 35</td>
<td>36</td>
<td>35</td>
<td>2,6</td>
<td>0,7</td>
<td>14,4</td>
<td>3,8</td>
</tr>
<tr>
<td>VT-1 40 35</td>
<td>40</td>
<td>35</td>
<td>3,2</td>
<td>0,8</td>
<td>17,8</td>
<td>4,7</td>
</tr>
<tr>
<td>VT-1 45 35</td>
<td>45</td>
<td>35</td>
<td>4,0</td>
<td>1,1</td>
<td>22,5</td>
<td>5,9</td>
</tr>
<tr>
<td>VT-1 48 35</td>
<td>48</td>
<td>35</td>
<td>4,6</td>
<td>1,2</td>
<td>25,6</td>
<td>6,8</td>
</tr>
<tr>
<td>VT-1 45 40</td>
<td>45</td>
<td>40</td>
<td>4,6</td>
<td>1,2</td>
<td>25,8</td>
<td>6,8</td>
</tr>
<tr>
<td>VT-1 48 40</td>
<td>48</td>
<td>40</td>
<td>5,2</td>
<td>1,4</td>
<td>29,3</td>
<td>7,7</td>
</tr>
</tbody>
</table>

NPSH required: 1,5 - 1,7 m

Data can be subjected to change
STANDARD SUPPLY
- Painted steel frame
- Cryogenic pump
- Electric motor
- Transmission by belts and pulleys
- Double pulsation damper

STANDARD ACCESSORIES
- Suction flexible hose
- Return flexible hose
- Low pressure safety valve
- High pressure safety valve
- High pressure manual valve for venting
- Check valve
- Pressure gauge
- Pressure switch
- Temperature sensor for cool down
- Temperature sensor for cavitation
- Temperature sensor for leaks detection

OPTIONAL ACCESSORIES
- High pressure pneumatic vent valve
- Configurable for breathable LOX
- Flushing system with nitrogen gas
- Electrical control panel
- 2 speed electric motor
- Motor suitable for VFD
- Complete automatic system available on demand

STANDARD SUPPLY
- Painted steel frame
- Cryogenic pump
- Electric motor
- Transmission by belts and pulleys
- Double pulsation damper

STANDARD ACCESSORIES
- Suction flexible hose
- Return flexible hose
- Low pressure safety valve
- High pressure safety valve
- High pressure manual valve for venting
- Check valve
- Pressure gauge
- Pressure switch
- Temperature sensor for cool down
- Temperature sensor for cavitation
- Temperature sensor for leaks detection

OPTIONAL ACCESSORIES
- High pressure pneumatic vent valve
- Configurable for breathable LOX
- Flushing system with nitrogen gas
- Electrical control panel
- 2 speed electric motor
- Motor suitable for VFD
- Complete automatic system available on demand

GENERAL DIMENSIONS

CERTIFIED QUALITY MANAGEMENT SYSTEM

Vanzetti Engineering s.r.l.
Via dei Mestieri, 3 - 12030 Cavallerleone (CN) - ITALY
Tel. (+39) 0172 913811 - Fax (+39) 0172 913822
www.vanzettiengineering.com

STANDARDS
Designed according to:
- European Directive Machinery
- European Directive PED
- EIGA/IGC/CGA guidelines

TESTS AND CHECKS
- Dimensional control of each mechanical component before assembly
- Running test of each pump with LIN before delivery

STANDARDS
Designed according to:
- European Directive Machinery
- European Directive PED
- EIGA/IGC/CGA guidelines

COLD END DETAIL
The innovative seal cartridge allows a very easy maintenance