CRYOGENIC RECIPROCATING PUMPS
VT-3 SERIES
FOR INDUSTRIAL GASES

TECHNICAL FEATURES
• Compatible with Cold Converter and Thermosyphon storage tanks
• Modular assembly (from Simplex to Triplex)
• High efficiency
• Low operating noise
• Quick maintenance thanks to the integrated cartridge seal system

APPLICATIONS
• Cylinders filling and high pressure accumulation capacities
• Other industrial applications

CRANKDRIVE SYSTEM
• TW 10 – Oil Lubrication

TRANSFERRED FLUIDS
• LIN, LOX, LAR, LCO₂, LN₂O

VT-3 TW 10 PERFORMANCES

<table>
<thead>
<tr>
<th>Model</th>
<th>Piston Bore</th>
<th>Piston Stroke</th>
<th>Flow-rate Min 150 rpm</th>
<th>Maximum allowable suction pressure (MASP)</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>kW</td>
<td>bar psi</td>
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<tr>
<td>VT-3 55 62 S</td>
<td>55</td>
<td>62</td>
<td>20</td>
<td>5,3</td>
<td>30 – 75</td>
<td></td>
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<tr>
<td>VT-3 55 62 D</td>
<td>55</td>
<td>62</td>
<td>40</td>
<td>10,6</td>
<td>37 – 90</td>
<td></td>
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<tr>
<td>VT-3 55 62 T</td>
<td>55</td>
<td>62</td>
<td>60</td>
<td>15,9</td>
<td>45 – 110</td>
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<td>62</td>
<td>23,7</td>
<td>6,3</td>
<td>45 – 110</td>
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<td>62</td>
<td>47,3</td>
<td>12,5</td>
<td>30 – 75</td>
<td></td>
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<tr>
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<td>60</td>
<td>62</td>
<td>71,0</td>
<td>18,8</td>
<td>55 – 132</td>
<td></td>
</tr>
</tbody>
</table>

*Flow-rate can be reduced by forced oil lubrication system

NPSH required: 1.5 – 1.7 m

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

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

OPTIONAL ACCESSORIES
- Flushing system with nitrogen gas
- Forced oil lubrication system
- High pressure pneumatic valve for venting
- Motor suitable for VFD
- Complete automatic system available on demand

Average SKID weight: 1600 kg
Package overall dimensions: 295 x 118 x 154 cm

TEST AND CHECKS
- Dimensional control of each mechanical component before assembly
- Performance test with LIN available for class and customer

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

Pump skid section