STATIC TANKS FOR LNG STORAGE
HORIZONTAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

2200 H SERIES

Designation example "LC6H22-P05": LC: lapesa cryogenic tank, 6: nominal volume 6 m³, H: horizontal installation, 22: diameter 2,200 mm, P05: maximum working pressure 5 bar

### MAIN FEATURES

<table>
<thead>
<tr>
<th>NOMINAL VOLUME m³</th>
<th>LC5H22-P.*</th>
<th>LC6H22-P.*</th>
<th>LC11H22-P.*</th>
<th>LC16H22-P.*</th>
<th>LC20H22-P.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,0</td>
<td>6,0</td>
<td>11,0</td>
<td>16,0</td>
<td>20,0</td>
<td></td>
</tr>
<tr>
<td>4,9</td>
<td>6,2</td>
<td>10,9</td>
<td>15,7</td>
<td>19,9</td>
<td></td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE bar</td>
<td><em>P</em>: 05, 09, 13, 16, 22, 28, 35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-196</td>
<td>-196</td>
<td>-196</td>
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<tr>
<td>DESIGN TEMPERATURE ºC</td>
<td>-196</td>
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<tr>
<td>STANDARDS EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INNER TANK material</th>
<th>austenitic stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTER TANK material</td>
<td>carbon steel</td>
</tr>
<tr>
<td>INSULATION</td>
<td>Perlite insulating material, vacuum &lt; 5 * 10⁻²</td>
</tr>
<tr>
<td>INTERNAL FINISH</td>
<td>Particle free</td>
</tr>
<tr>
<td>EXTERNAL FINISH</td>
<td>SA 2 1/2 blasting 60 micron polyamide epoxy primer / 60 micron white polyurethane finish</td>
</tr>
</tbody>
</table>

### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>LNG USEFUL CAPACITY (95%, 1 bar) mt</th>
<th>LC5H22-P.*</th>
<th>LC6H22-P.*</th>
<th>LC11H22-P.*</th>
<th>LC16H22-P.*</th>
<th>LC20H22-P.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2</td>
<td>2,7</td>
<td>4,8</td>
<td>6,9</td>
<td>8,7</td>
<td></td>
</tr>
</tbody>
</table>

| PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) Nm³/h | 400         | 400         | 400         | 400         | 400         |

(1) Please consult us for other flow and/or pressure requirements.

### EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

### OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve.
- High point: double.
### 3000 H SERIES

**Designation example “LC20H30-P16”:**
- **LC:** lapesa cryogenic tank,
- **20:** nominal volume 20 m³,
- **H:** horizontal installation,
- **30:** diameter 3,000 mm,
- **P16:** maximum working pressure 16 bar

#### MAIN FEATURES

<table>
<thead>
<tr>
<th>Nominal Volume</th>
<th>LC20H30-P.*</th>
<th>LC30H30-P.*</th>
<th>LC40H30-P.*</th>
<th>LC50H30-P.*</th>
<th>LC60H30-P.*</th>
<th>LC80H30-P.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³</td>
<td>20,0</td>
<td>30,0</td>
<td>40,0</td>
<td>50,0</td>
<td>60,0</td>
<td>80,0</td>
</tr>
<tr>
<td>Net Volume</td>
<td>19</td>
<td>30,6</td>
<td>39,9</td>
<td>49,9</td>
<td>59,8</td>
<td>79,2</td>
</tr>
<tr>
<td>Maximum Working Pressure</td>
<td><em>P</em>: 05, 09, 16, 20, 24, 30, 38</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design Temperature</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
</tbody>
</table>

**STANDARDS**
- EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1
- Inner tank material: austenitic stainless steel
- Outer tank material: carbon steel
- Insulation: Perlite insulating material, vacuum < 5 * 10^-2

**Internal Finish:** Particle free

**External Finish:** SA 2 1/2 blasting / 60 micron polyamide epoxy primer / 60 micron white polyurethane finish

#### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>LNG Useful Capacity (95%, 1 bar)</th>
<th>LC20H30-P.*</th>
<th>LC30H30-P.*</th>
<th>LC40H30-P.*</th>
<th>LC50H30-P.*</th>
<th>LC60H30-P.*</th>
<th>LC80H30-P.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>mt</td>
<td>8,3</td>
<td>13,4</td>
<td>17,4</td>
<td>21,8</td>
<td>26,1</td>
<td>34,6</td>
</tr>
</tbody>
</table>

**Pressure Build up Unit (PBU) Capacity (for NG consumption at 3 bar)**

<table>
<thead>
<tr>
<th>Nm³/h</th>
<th>LC20H30-P.*</th>
<th>LC30H30-P.*</th>
<th>LC40H30-P.*</th>
<th>LC50H30-P.*</th>
<th>LC60H30-P.*</th>
<th>LC80H30-P.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Please consult us for other flow and/or pressure requirements.

### EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

### OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.
# STATIC TANKS FOR LNG STORAGE

**lapesa** reserves the right to carry out technical changes without prior notice.

## DETAILS FOR HANDLING AND TRANSPORT

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. tare when empty (tank with full equipment) mt</td>
<td>9.3</td>
<td>10.5</td>
<td>12.9</td>
<td>15.4</td>
<td>17.6</td>
<td>22.4</td>
</tr>
<tr>
<td>L: total length including valves mm</td>
<td>5,384</td>
<td>7,744</td>
<td>9,744</td>
<td>11,744</td>
<td>13,744</td>
<td>17,744</td>
</tr>
<tr>
<td>D: total width mm</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
</tr>
<tr>
<td>H: total height including vent pipe mm</td>
<td>3,350</td>
<td>3,350</td>
<td>3,350</td>
<td>3,350</td>
<td>3,350</td>
<td>3,350</td>
</tr>
<tr>
<td>P: distance between supports mm</td>
<td>2,400</td>
<td>4,800</td>
<td>6,800</td>
<td>8,800</td>
<td>10,800</td>
<td>14,800</td>
</tr>
</tbody>
</table>

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**SCHEMATIC DIAGRAM**

(Example with Internal Economizer)

3000 H SERIES

- **VG**: Gas phase filling valve
- **VL**: Liquid phase filling valve
- **VC**: Consumption valve
- **VR**: Overflow valve
- **PPR**: Vaporizer (Build Up Unit)
- **VEP**: Input valve PBU
- **VSP**: Output valve PBU
- **RP**: Pressure regulator
- **F**: Filter
- **VE**: Economiser valve
- **VEE**: Economiser Input Valve
- **VAS**: Economiser Output Valve
- **VAG**: Auxiliary valve – Gas phase
- **IN**: Level
- **IP**: Manometer
- **vn**: Level gate valve
- **re**: By-pass valve
- **ni**: Bottom level valve
- **rt**: Top level valve
- **TP**: Pressure transmitter (according to model)
- **TN**: Level transmitter (according to model)
- **CS**: J-way valve (safety)
- **VS**: Safety valve
- **SL**: Line safety valve
- **VA**: Pressure relief valve
- **Pe**: Casing safety device
- **Tv**: Vacuum connection
- **Mv**: Vacuum gauge device

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**STATIC TANKS FOR LNG STORAGE**

**HORIZONTAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS**

**3800 H SERIES**

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### 3800 H SERIES

**Designation example:** "LC80H38-P16": LC: Lapesa cryogenic tank, 80: nominal volume 80 m³, H: horizontal installation, 38: diameter 3,000 mm, P16: maximum working pressure 16 bar

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL VOLUME</td>
<td>m³</td>
<td>80,0</td>
<td>107,0</td>
<td>120,0</td>
<td>150,0</td>
<td>200,0</td>
<td>226,0</td>
</tr>
<tr>
<td>NET VOLUME</td>
<td>m³</td>
<td>79,9</td>
<td>107,4</td>
<td>118,6</td>
<td>154,6</td>
<td>199,6</td>
<td>226,0</td>
</tr>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>m³</td>
<td>34,9</td>
<td>46,9</td>
<td>51,8</td>
<td>67,6</td>
<td>87,2</td>
<td>99,8</td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE</td>
<td>bar</td>
<td>*(P) : 05, 10, 14, 17, 22, 27, 30, 34</td>
<td>*(P) : 05, 10, 14, 17, 22, 27, 30, 34</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESIGN TEMPERATURE</td>
<td>°C</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
</tbody>
</table>

**STANDARDS**
- EC marking: European directive 2014/68/EU, (optional)
- ASME stamp: ASME VIII, div.1

<table>
<thead>
<tr>
<th>INNER TANK</th>
<th>material</th>
<th>austenitic stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTER TANK</td>
<td>material</td>
<td>carbon steel</td>
</tr>
<tr>
<td>INSULATION</td>
<td></td>
<td>Perlite insulating material, vacuum &lt; 5 * 10⁻²</td>
</tr>
</tbody>
</table>

**INTERNAL FINISH**
- Particle free

**EXTERNAL FINISH**
- SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish

### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th></th>
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<tr>
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<td>34,9</td>
<td>46,9</td>
<td>51,8</td>
<td>67,6</td>
<td>87,2</td>
</tr>
<tr>
<td>PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar)</td>
<td>Nm³/h</td>
<td>1.000</td>
<td>1.000</td>
<td>1.000</td>
<td>1.000</td>
<td>1.000</td>
</tr>
</tbody>
</table>

(1) Please consult us for other flow and/or pressure requirements.

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### EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

### OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.
STATIC TANKS FOR LNG STORAGE

**Details for Handling and Transport**

<table>
<thead>
<tr>
<th>Model</th>
<th>Approx. tare when empty (tank with full equipment)</th>
<th>L: total length including valves</th>
<th>D: total width</th>
<th>H: total height including vent pipe</th>
<th>P: distance between supports</th>
</tr>
</thead>
</table>

**Schematic Diagram 3800 H Series**

- VG Gas phase filling valve
- VL Liquid phase filling valve
- VC Consumption valve
- VR Overflow valve
- PPR Vaporiser (Build Up Unit)
- VEP Input valve PBU
- VSP Output valve PBU
- RP Pressure regulator
- F Filter
- VAG Auxiliary valve – Gas phase
- IN Level
- IP Manometer
- Vn Level gate valve
- re By-pass valve
- ri Bottom level valve
- rs Top level valve
- TP Pressure transmitter (according to model)
- TN Level transmitter (according to model)
- CS 3-way valve (safety)
- VS Safety valve
- SL Line safety valve
- VA Pressure relief valve
- Pe Casing safety device
- Tv Vacuum connection
- Mv Vacuum gauge device
STATIC TANKS FOR LNG STORAGE
HORIZONTAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

4200 H SERIES

Designation example: "LC240H42-P16": LC: Iapesa cryogenic tank, 240: nominal volume 240 m³, H: horizontal installation, 42: diameter 4,200 mm, P16: maximum working pressure 16 bar

### MAIN FEATURES

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL VOLUME</td>
<td>m³</td>
<td>195,0</td>
<td>240,0</td>
<td>285,0</td>
<td>307,0</td>
</tr>
<tr>
<td>NET VOLUME</td>
<td>m³</td>
<td>195,0</td>
<td>240,0</td>
<td>285,0</td>
<td>307,0</td>
</tr>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>mt</td>
<td>85,2</td>
<td>104,9</td>
<td>124,5</td>
<td>134,2</td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE</td>
<td>bar *(P) : 05, 09, 13, 16, 22, 28, 35</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
<tr>
<td>DESIGN TEMPERATURE</td>
<td>ºC</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
<tr>
<td>INNER TANK</td>
<td>material</td>
<td>austenitic stainless steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OUTER TANK</td>
<td>material</td>
<td>carbon steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INSULATION</td>
<td></td>
<td>Perlite insulating material, vacuum &lt; 5 * 10^-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERNAL FINISH</td>
<td></td>
<td>Particle free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXTERNAL FINISH</td>
<td></td>
<td>SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish</td>
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</tbody>
</table>

### TECHNICAL DETAILS

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>mt</td>
<td>85,2</td>
<td>104,9</td>
<td>124,5</td>
<td>134,2</td>
</tr>
<tr>
<td>PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar)</td>
<td>Nm³/h</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
</tr>
</tbody>
</table>

(1) Please consult us for other flow and/or pressure requirements.

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**EQUIPMENT INCLUDED**

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

**OPTIONAL EQUIPMENT**

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve.
- High point: double.
STATIC TANKS FOR LNG STORAGE

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DETAILS FOR HANDLING AND TRANSPORT

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. tare when empty (tank with full equipment)</td>
<td>mt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P05</td>
<td>46,2</td>
<td>54,9</td>
<td>63,5</td>
<td>67,9</td>
<td>70,3</td>
</tr>
<tr>
<td>P09</td>
<td>46,2</td>
<td>54,9</td>
<td>63,5</td>
<td>67,9</td>
<td>70,3</td>
</tr>
<tr>
<td>P13</td>
<td>49,8</td>
<td>59,2</td>
<td>68,5</td>
<td>73,3</td>
<td>75,9</td>
</tr>
<tr>
<td>P16</td>
<td>53,3</td>
<td>63,5</td>
<td>73,5</td>
<td>78,7</td>
<td>81,4</td>
</tr>
<tr>
<td>P22</td>
<td>58,3</td>
<td>69,6</td>
<td>80,8</td>
<td>86,5</td>
<td>89,5</td>
</tr>
<tr>
<td>P28</td>
<td>63,8</td>
<td>76,2</td>
<td>88,6</td>
<td>94,8</td>
<td>98,1</td>
</tr>
<tr>
<td>P35</td>
<td>67,3</td>
<td>80,5</td>
<td>93,6</td>
<td>100,2</td>
<td>103,7</td>
</tr>
</tbody>
</table>

L: total length including valves mm: 19,070 23,070 37,070 29,700 30,070
D: total width mm: 4,200 4,200 4,200 4,200 4,200
H: total height including vent pipe mm: 4,300 4,300 4,300 4,300 4,300
P: distance between supports mm: 15,500 19,500 23,500 25,500 26,500

SCHEMATIC DIAGRAM

4200 H SERIES

VG  Gas phase filling valve
VL  Liquid phase filling valve
VC  Consumption valve
VR  Overflow valve
PPR Vaporizer (Build Up Unit)
VEP Input valve PBU
VSP Output valve PBU
RP  Pressure regulator
F  Filter
VAG Auxiliary valve – Gas phase
IN  Level
IP  Manometer
vn  Level gate valve
re  By-pass valve
rl  Bottom level valve
rs  Top level valve
TP  Pressure transmitter (according to model)
TN  Level transmitter (according to model)
CS  3-way valve (safety)
VS  Safety valve
SL  Line safety valve
VA  Pressure relief valve
Pe  Casing safety device
Tv  Vacuum connection
Mv  Vacuum gauge device
STATIC TANKS FOR LNG STORAGE
VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

2200 V SERIES

EQUIPMENT INCLUDED
- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT
- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

2200 V SERIES
Designation example "LC6V22-P05": LC: dlapesa cryogenic tank, 6: nominal volume 6 m³, V: vertical installation, 22: diameter 2,200 mm, P05: maximum working pressure 5 bar

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL VOLUME</td>
<td>m³</td>
<td>5,0</td>
<td>6,0</td>
<td>11,0</td>
<td>16,0</td>
</tr>
<tr>
<td>NET VOLUME</td>
<td>m³</td>
<td>4,9</td>
<td>6,2</td>
<td>10,9</td>
<td>15,7</td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE</td>
<td>bar</td>
<td>*(P) : 05, 09, 13, 16, 22, 28, 35</td>
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<tr>
<td>DESIGN TEMPERATURE</td>
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<td>-196</td>
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</thead>
<tbody>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>mt</td>
<td>2,1</td>
<td>2,7</td>
<td>4,8</td>
<td>6,9</td>
</tr>
<tr>
<td>PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar)</td>
<td>Nm³/h</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
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</table>

(1) Please consult us for other flow and/or pressure requirements.
## STATIC TANKS FOR LNG STORAGE

**lapesa reserves the right to carry out technical changes without prior notice.**

### DETAILS FOR HANDLING AND TRANSPORT

<table>
<thead>
<tr>
<th></th>
<th>LC5V22-P.*</th>
<th>LC6V22-P.*</th>
<th>LC11V22-P.*</th>
<th>LC16V22-P.*</th>
<th>LC20V22-P.*</th>
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</thead>
<tbody>
<tr>
<td>Approx. tare when empty (tank with full equipment)</td>
<td>mt</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>P05</td>
<td>3,0</td>
<td>3,5</td>
<td>4,8</td>
<td>6,0</td>
<td>7,3</td>
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<td>3,5</td>
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<td>7,3</td>
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<td>P13</td>
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<td>8,9</td>
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<td>P28</td>
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<td>7,9</td>
<td>9,7</td>
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<td>P35</td>
<td>4,1</td>
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<td>8,5</td>
<td>10,5</td>
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</table>

<table>
<thead>
<tr>
<th>Approx. tare when empty (tank without full equipment)</th>
<th>mt</th>
</tr>
</thead>
<tbody>
<tr>
<td>L: total length including valves</td>
<td>mm</td>
</tr>
<tr>
<td>D: total width</td>
<td>mm</td>
</tr>
<tr>
<td>H: total height including vent pipe</td>
<td>mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approx. tare when empty (tank with full equipment)</th>
<th>mt</th>
</tr>
</thead>
<tbody>
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<tr>
<td>D: total width</td>
<td>mm</td>
</tr>
<tr>
<td>H: total height including vent pipe</td>
<td>mm</td>
</tr>
</tbody>
</table>

### Diagram of Equipment

- **VG**: Gas phase filling valve
- **VL**: Liquid phase filling valve
- **VC**: Consumption valve
- **VR**: Overflow valve
- **PPR**: Vaporiser (Build Up Unit)
- **VEP**: Input valve PBU
- **VSP**: Output valve PBU
- **RP**: Pressure regulator
- **F**: Filter
- **VAG**: Auxiliary valve – Gas phase
- **Vd**: Level
- **IP**: Manometer
- **Mv**: Vacuum gauge device
- **Gas phase filling valve**: VG
- **Liquid phase filling valve**: VL
- **Consumption valve**: VC
- **Overflow valve**: VR
- **Vaporiser (Build Up Unit)**: PPR
- **Input valve PBU**: VEP
- **Output valve PBU**: VSP
- **Pressure regulator**: RP
- **Filter**: F
- **Auxiliary valve – Gas phase**: VAG
- **Level**: Vd
- **Manometer**: IP
- **Vacuum gauge device**: Mv

### Diagram of Equipment

- **CHAMBER OVERPRESSURE PROTECTION SYSTEM**
- **LIFTING LUGS (with tank empty)**
- **PRESSURE AND LEVEL INDICATOR (1)**
- **Diagram of Equipment**
- **NAMEPLATE**
- **SAFETY SYSTEM**
- **Unified Filling Connection (ND50 NP10)**
- **VA**: Vacuum gauge
- **VS**: Safety valve
- **SL**: Line safety valve
- **VA**: Pressure relief valve
- **P**: Casing safety device
- **Tv**: Vacuum connection

### Diagram of Equipment

- **95% OVERFLOW PRESSURE AND LEVEL INDICATOR (1)**
- **P05 3,0 3,5 4,8 6,0 7,3**
- **P09 3,0 3,5 4,8 6,0 7,3**
- **P13 3,1 3,6 5,0 6,2 7,7**
- **P16 3,2 3,7 5,2 6,5 8,0**
- **P22 3,6 4,1 5,8 7,3 8,9**
- **P28 3,8 4,4 6,3 7,9 9,7**
- **P35 4,1 4,7 6,7 8,5 10,5**

### Diagram of Equipment

- **LIFTING LUGS (with tank empty)**
- **VACUUM CONNECTION**
- **VENT PIPE WITH FLAME ARRESTER (directional from ground)**
- **Support line for transport**
- **Diagram of Equipment**
- **NAMEPLATE**
- **SAFETY SYSTEM**
- **Unified Filling Connection (ND50 NP10)**
- **VA**: Vacuum gauge
- **VS**: Safety valve
- **SL**: Line safety valve
- **VA**: Pressure relief valve
- **P**: Casing safety device
- **Tv**: Vacuum connection

### Diagram of Equipment

- **FILLING SCHEMATIC DIAGRAM 2200 V SERIES**
- **Diagram of Equipment**
- **NAMEPLATE**
- **SAFETY SYSTEM**
- **Unified Filling Connection (ND50 NP10)**
- **VA**: Vacuum gauge
- **VS**: Safety valve
- **SL**: Line safety valve
- **VA**: Pressure relief valve
- **P**: Casing safety device
- **Tv**: Vacuum connection

### Diagram of Equipment

- **FILLING SCHEMATIC DIAGRAM 2200 V SERIES**
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### Diagram of Equipment

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STATIC TANKS FOR LNG STORAGE
VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

3000 V SERIES

EQUIPMENT INCLUDED
- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT
- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

### 3000 V SERIES

**Designation example** "LC20V30-P09": LC: lapesa cryogenic tank, 20: nominal volume 20 m³, V: vertical installation, 30: diameter 3,000 mm, P09: maximum working pressure 9 bar

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL VOLUME m³</td>
<td>20,0</td>
<td>30,0</td>
<td>40,0</td>
<td>50,0</td>
<td>60,0</td>
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<tr>
<td>NET VOLUME m³</td>
<td>19</td>
<td>30,6</td>
<td>39,9</td>
<td>49,9</td>
<td>59,8</td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE bar</td>
<td><em>P</em>: 05, 09, 16, 20, 24, 30, 38</td>
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<td>-196</td>
<td>-196</td>
<td>-196</td>
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<tr>
<td>DESIGN TEMPERATURE ºC</td>
<td>-196</td>
<td>-196</td>
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</tr>
<tr>
<td>STANDARDS</td>
<td>EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1</td>
<td></td>
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</tr>
<tr>
<td>INNER TANK material</td>
<td>austenitic stainless steel</td>
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<tr>
<td>OUTER TANK material</td>
<td>carbon steel</td>
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<tr>
<td>INSULATION</td>
<td>Perlite insulating material, vacuum &lt; 5 * 10^-2</td>
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</tr>
<tr>
<td>INTERNAL FINISH</td>
<td>Particle free</td>
<td></td>
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<tr>
<td>EXTERNAL FINISH</td>
<td>SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**TECHNICAL DETAILS**

<table>
<thead>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar) mt</td>
<td>8,3</td>
<td>13,4</td>
<td>17,4</td>
<td>21,8</td>
<td>26,1</td>
</tr>
<tr>
<td>PRESSURE BUILD UP (for NG consumption at 3 bar) Nm³/h</td>
<td>1,000</td>
<td>1,000</td>
<td>1,000</td>
<td>1,000</td>
<td>1,000</td>
</tr>
</tbody>
</table>

(1) Please consult us for other flow and/or pressure requirements.
STATIC TANKS FOR LNG STORAGE

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DETAILS FOR HANDLING AND TRANSPORT

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>P05</strong></td>
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<td>10,5</td>
<td>13,4</td>
<td>15,9</td>
<td>18,4</td>
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<tr>
<td><strong>P09</strong></td>
<td>9,0</td>
<td>10,5</td>
<td>13,4</td>
<td>15,9</td>
<td>18,4</td>
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<tr>
<td><strong>P16</strong></td>
<td>10,0</td>
<td>11,7</td>
<td>14,9</td>
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<td>20,3</td>
</tr>
<tr>
<td><strong>P20</strong></td>
<td>10,7</td>
<td>12,6</td>
<td>16,1</td>
<td>19,0</td>
<td>22,0</td>
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<td><strong>P24</strong></td>
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<td>17,2</td>
<td>20,4</td>
<td>23,7</td>
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<td><strong>P30</strong></td>
<td>12,3</td>
<td>14,9</td>
<td>18,9</td>
<td>22,4</td>
<td>26,1</td>
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<td><strong>P38</strong></td>
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<td>16,4</td>
<td>20,8</td>
<td>24,7</td>
<td>28,7</td>
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<td><strong>P50</strong></td>
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<td><strong>P90</strong></td>
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<tr>
<td>Approx. tare when empty (tank with full equipment) mt</td>
<td></td>
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<tr>
<td>L: total length including valves mm</td>
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<td>D: total width mm</td>
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<tr>
<td>H: total height including vent pipe mm</td>
<td>3.040</td>
<td>3.040</td>
<td>3.040</td>
<td>3.040</td>
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SCHEMATIC DIAGRAM

3000 V SERIES

Diagram of Equipment

- VG: Gas phase filling valve
- VL: Liquid phase filling valve
- VC: Consumption valve
- VR: Overflow valve
- PPR: Vaporiser (Build Up Unit)
- VEP: Input valve PBU
- VSP: Output valve PBU
- RP: Pressure regulator
- F: Filter
- VAG: Auxiliary valve – Gas phase
- IN: Level
- IP: Manometer
- IN-Vn: Vacuum gauge device
- Level gate valve
- By-pass valve
- Bottom level valve
- Top level valve
- Pressure transmitter (according to model)
- Level transmitter (according to model)
- 3-way valve (safety)
- Safety valve
- Line safety valve
- Pressure relief valve
- Pe: Casing safety device
- Tv: Vacuum connection

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STATIC TANKS FOR LNG STORAGE

VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

3800 V SERIES

EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

### MAIN FEATURES

<table>
<thead>
<tr>
<th></th>
<th>LC80V38-P-*</th>
<th>LC107V38-P-*</th>
<th>LC120V38-P-*</th>
<th>LC150V38-P-*</th>
<th>LC200V38-P-*</th>
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<tbody>
<tr>
<td>NOMINAL VOLUME</td>
<td>m³</td>
<td>80.0</td>
<td>107.0</td>
<td>120.0</td>
<td>150.0</td>
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<tr>
<td>NET VOLUME</td>
<td>m³</td>
<td>79.9</td>
<td>107.4</td>
<td>118.6</td>
<td>154.6</td>
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<td>bar</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

- INNER TANK: austenitic stainless steel
- OUTER TANK: carbon steel
- INSULATION: Perlite insulating material, vacuum < 5 * 10^-2

- INTERNAL FINISH: particle free
- EXTERNAL FINISH: SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish

### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th></th>
<th>LC80V38-P-*</th>
<th>LC107V38-P-*</th>
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<th>LC150V38-P-*</th>
<th>LC200V38-P-*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>mt</td>
<td>34.9</td>
<td>46.9</td>
<td>51.8</td>
<td>67.6</td>
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<tr>
<td>PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar)</td>
<td>Nm³/h</td>
<td>1.000</td>
<td>1.000</td>
<td>1.000</td>
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<th>LC150V38-P.*</th>
<th>LC200V38-P.*</th>
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<tr>
<td>Approx. tare when empty (tank with full equipment)</td>
<td>mt</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>P05</td>
<td>21,9</td>
<td>27,5</td>
<td>30,2</td>
<td>36,6</td>
<td>45,3</td>
</tr>
<tr>
<td>P09</td>
<td>21,9</td>
<td>27,5</td>
<td>30,2</td>
<td>36,6</td>
<td>45,3</td>
</tr>
<tr>
<td>P14</td>
<td>23,7</td>
<td>29,7</td>
<td>32,6</td>
<td>39,7</td>
<td>49,2</td>
</tr>
<tr>
<td>P17</td>
<td>25,4</td>
<td>31,9</td>
<td>35,0</td>
<td>42,8</td>
<td>53,1</td>
</tr>
<tr>
<td>P22</td>
<td>27,9</td>
<td>35,0</td>
<td>38,4</td>
<td>47,3</td>
<td>58,8</td>
</tr>
<tr>
<td>P27</td>
<td>30,7</td>
<td>35,5</td>
<td>42,3</td>
<td>52,1</td>
<td>64,9</td>
</tr>
<tr>
<td>P30</td>
<td>32,4</td>
<td>40,7</td>
<td>44,7</td>
<td>55,2</td>
<td>68,8</td>
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<tr>
<td>P34</td>
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<td>42,9</td>
<td>47,1</td>
<td>58,3</td>
<td>72,8</td>
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<tr>
<td>L: total length including valves</td>
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<td>10,920</td>
<td>13,945</td>
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<td>19,195</td>
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<td>D: total width</td>
<td>mm</td>
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<td>3,810</td>
<td>3,810</td>
<td>3,810</td>
</tr>
<tr>
<td>H: total height including vent pipe</td>
<td>mm</td>
<td>3,810</td>
<td>3,810</td>
<td>3,810</td>
<td>3,810</td>
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</tbody>
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STATIC TANKS FOR LNG STORAGE
VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

4200 V SERIES

EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

4200 V SERIES

Designation example "LC240V42-P20": LC = lapesa cryogenic tank, 240 = nominal volume 240 m³, V = vertical installation, 42 = diameter 4,200 mm, P20 = maximum working pressure 20 bar

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>NOMINAL VOLUME</td>
<td>m³</td>
<td>195,0</td>
<td>240,0</td>
<td>285,0</td>
<td>307,0</td>
</tr>
<tr>
<td>NET VOLUME</td>
<td>m³</td>
<td>195</td>
<td>240</td>
<td>285</td>
<td>307</td>
</tr>
<tr>
<td>MAXIMUM WORKING PRESSURE</td>
<td>bar</td>
<td>*(P)</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
<tr>
<td>DESIGN TEMPERATURE</td>
<td>ºC</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
<td>-196</td>
</tr>
<tr>
<td>STANDARDS</td>
<td></td>
<td></td>
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- EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1
- INNER TANK material: austenitic stainless steel
- OUTER TANK material: carbon steel
- INSULATION: Perlite insulating material, vacuum < 5 * 10⁻²
- INTERNAL FINISH: Particle free
- EXTERNAL FINISH: SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish

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<tbody>
<tr>
<td>LNG USEFUL CAPACITY (95%, 1 bar)</td>
<td>mt</td>
<td>85,2</td>
<td>104,9</td>
<td>124,5</td>
<td>134,2</td>
</tr>
<tr>
<td>PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar)</td>
<td>Nm³/h</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
<td>2.000</td>
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(1) Please consult us for other flow and/or pressure requirements.
STATIC TANKS FOR LNG STORAGE

lapesa reserves the right to carry out technical changes without prior notice.

DETAILS FOR HANDLING AND TRANSPORT

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<tbody>
<tr>
<td>Approx. tare when empty</td>
<td>47,0</td>
<td>47,0</td>
<td>55,7</td>
<td>55,7</td>
<td>64,3</td>
</tr>
<tr>
<td></td>
<td>55,7</td>
<td>60,0</td>
<td>69,3</td>
<td>69,3</td>
<td>64,3</td>
</tr>
<tr>
<td></td>
<td>54,1</td>
<td>64,3</td>
<td>74,3</td>
<td>74,3</td>
<td>68,7</td>
</tr>
<tr>
<td></td>
<td>59,1</td>
<td>70,4</td>
<td>81,6</td>
<td>81,6</td>
<td>71,1</td>
</tr>
<tr>
<td></td>
<td>64,6</td>
<td>77,0</td>
<td>89,4</td>
<td>89,4</td>
<td>71,1</td>
</tr>
<tr>
<td></td>
<td>68,1</td>
<td>81,3</td>
<td>94,4</td>
<td>94,4</td>
<td>71,1</td>
</tr>
<tr>
<td></td>
<td>71,6</td>
<td>85,5</td>
<td>99,4</td>
<td>99,4</td>
<td>71,1</td>
</tr>
</tbody>
</table>

L: total length including valves
D: total width
H: total height including vent pipe

Diagram of Equipment

Diagram of Equipment

Schematic Diagram

4200 V SERIES

VG: Gas phase filling valve
VL: Liquid phase filling valve
VC: Consumption valve
VR: Overflow valve
PPR: Vaporiser (Build Up Unit)
VEP: Input valve PBU
VSP: Output valve PBU
BP: Pressure regulator
F: Filter
VAG: Auxiliary valve – Gas phase
IN: Level
IP: Manometer
Mv: Vacuum gauge device

Level gate valve
By-pass valve
Bottom level valve
Top level valve
Pressure transmitter (according to model)
Level transmitter (according to model)
3-way valve (safety)
Safety valve
Line safety valve
Pressure relief valve
Casing safety device
Vacuum connection