Claims

1. A manifold assembly comprising:

a first segment for receiving vapourised natural gas from at least one storage system;

a second segment coupled to the first segment at an interface point for fluid communication therewith, the second segment for conveying the vapourised natural gas from the first segment to a downstream system;

a first pressure relief valve configured parallel the interface point for intercoupling the first segment and the second segment, the first pressure relief valve having a first pressure limit; and

a second pressure relief valve configured along the first segment for interposing the interface point and the at least one storage system, the second pressure relief valve having a second pressure limit, the second pressure limit being higher than the first pressure limit,

wherein the vapourised natural gas in the first segment is vented to the second segment when the pressure thereof is at least at the first pressure limit, fluid communication between the first segment and the segment via the first pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the first pressure limit, and

wherein the vapourised natural gas in the first segment is vented to the atmosphere by the second pressure relief valve when the pressure thereof is at least at the second pressure limit, venting of the vapourised natural gas from the first segment to the atmosphere by the second pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the second pressure limit.

2. The manifold assembly as in claim 1, further comprising:

a first pressure step down regulator configured at the interface point for interposing the first segment and the second segment, the first pressure step down regulator for lowering the pressure of the vapourised natural gas communicated to the second segment from the first segment.

3. The manifold assembly as in claim 2, further comprising:

a second pressure step down regulator configured to interpose the first pressure relief valve and the second segment, the second pressure step down regulator for lowering the pressure of the vapourised natural gas vented to the second segment from the first pressure relief valve.

4. The manifold assembly as in claim 1, each of the first segment and the second segment being formed from at least one pipe structure.

5. The manifold assembly as in claim 1, the downstream system comprising at least one of a downstream manifold, a natural gas operated system and a natural gas processing system, and a natural gas consuming system.

6. The manifold assembly as in claim 1, each of the at least one storage system comprising a plurality of insulative vessels.

7. The manifold assembly as in claim 6, each of the plurality of insulative vessels having an internal vapouriser and a gas outlet, the at least one storage system further comprising:

a gas withdrawal valve; and

a pipe assembly for removably intercoupling and fluid communicating the plurality of insulative vessels and the gas withdrawal valve,

wherein each of the plurality of insulative vessels is for storing liquefied natural gases and the internal vapouriser is for vapourizing the liquefied natural gas into vapourised natural gas at the gas outlet thereof for provision to the pipe assembly, the pipe assembly for providing the vapourised natural gas for dispensing from the gas withdrawal valve to the first segment of the manifold assembly.

8. The manifold assembly as in claim 6, each of the plurality of insulative vessels having less than 1000 litres in storage capacity.

9. A manifold assembly comprising:

a first segment for receiving vapourised natural gas from at least one storage system;

a second segment coupled to the first segment at an interface point for fluid communication therewith, the second segment for conveying the vapourised natural gas from the first segment to a downstream system;

a first pressure relief valve configured parallel the interface point for intercoupling the first segment and the second segment, the first pressure relief valve having a first pressure limit;

a first pressure step down regulator configured at the interface point for interposing the first segment and the second segment, the first pressure step down regulator for lowering the pressure of the vapourised natural gas communicated to the second segment from the first segment;

a second pressure step down regulator configured to interpose the first pressure relief valve and the second segment, the second pressure step down regulator for lowering the pressure of the vapourised natural gas vented to the second segment from the first pressure relief valve; and

a second pressure relief valve configured along the first segment for interposing the interface point and the at least one storage system, the second pressure relief valve having a second pressure limit, the second pressure limit being higher than the first pressure limit,

wherein the vapourised natural gas in the first segment is vented to the second segment when the pressure thereof is at least at the first pressure limit, fluid communication between the first segment and the segment via the first pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the first pressure limit, and

wherein the vapourised natural gas in the first segment is vented to the atmosphere by the second pressure relief valve when the pressure thereof is at least at the second pressure limit, venting of the vapourised natural gas from the first segment to the atmosphere by the second pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the second pressure limit.

10. The manifold assembly as in claim 9, each of the first segment and the second segment being formed from at least one pipe structure.

11. A manifold assembly comprising:

a first segment for receiving vapourised natural gas from at least one storage system, each of the at least one storage system comprising at least one at least one storage system comprising a plurality of insulative vessels, each of the plurality of insulative vessels having less than 1000 litres in storage capacity;

a second segment coupled to the first segment at an interface point for fluid communication therewith, the second segment for conveying the vapourised natural gas from the first segment to a downstream system;

a first pressure relief valve configured parallel the interface point for intercoupling the first segment and the second segment, the first pressure relief valve having a first pressure limit; and

a second pressure relief valve configured along the first segment for interposing the interface point and the at least one storage system, the second pressure relief valve having a second pressure limit, the second pressure limit being higher than the first pressure limit,

wherein the vapourised natural gas in the first segment is vented to the second segment when the pressure thereof is at least at the first pressure limit, fluid communication between the first segment and the segment via the first pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the first pressure limit, and

wherein the vapourised natural gas in the first segment is vented to the atmosphere by the second pressure relief valve when the pressure thereof is at least at the second pressure limit, venting of the vapourised natural gas from the first segment to the atmosphere by the second pressure relief valve is impeded when pressure of the vapourised natural gas in the first segment is below the second pressure limit.

12. The manifold assembly as in claim 11, each of the first segment and the second segment being formed from at least one pipe structure.