

# 2018 GPI Transloader

## 1.1.1 Commercial Specification - General Description

### a) Transfer Equipment

1 Corken 691-107 compressor powered with 25 HP, 440 volt, three-phase, explosion-proof electric motor and controls as follows:

- 1 Explosion proof starter, disconnect switch with start stop push buttons in the face of the cabinet
- 2 One (1) High gas pressure switch
- 3 One (1) Low gas pressure switch
- 4 One (1) Low Oil pressure switch

2 MTU 50 KW generator w/ diesel engine

### b) Operating Controls

Elevated and ground level operation controls for operating systems. Emergency controls located at strategic locations on unit as follows

- 1 Pneumatic control station for all the pneumatic valves and ESV rail car valves located at the loading bulkhead at ground level
- 2 Motor Start Stop push button station lower level for the pump and compressor
- 3 Civicon interlock electronic grounding system for truck and rail car with indicator light.

### c) Transfer Hoses

System includes unloading hoses as follows

- 1 Two (2) 2" rail car liquid hoses with hose end ball valves and acme connection.
- 2 Two (2) 2" truck liquid hoses with hose end ball valves and acme connection
- 3 One (2) 2" rail car vapor hose with hose end ball valves and acme connection
- 4 One (2) 2" Truck vapor hose with hose end ball valves and acme connection

### d) Piping and Valves

Piping system is provided to meet ASME B31 standard and utilized welded and flanged construction throughout. Screwed piping is schedule 80. The system includes:

- 1 One (1) 3" flanged site flow indicator liquid transfer
- 2 Two (2) 3" flanged full port pneumatic ball valves liquid transfer truck bulkhead
- 3 Two (2) 3" flanged full port manual isolation ball valves liquid transfer
- 4 One (1) 1 1/4" screwed pneumatic full port ball valve Vapor transfer
- 5 One (1) 1 1/4" screwed manual isolation full port ball valve Vapor transfer

### e) Emergency Product Controls

All pneumatically operated shut off valves on liquid lines are operated through the pneumatic control station to open and close valves during normal operation and automatically closed by the ESD station electro mechanically, at the base of the tower and by the remote shutdown switch ( required by code) as follows:

- 1 Electro pneumatically remote ESD (emergency shutdown) station with portable stand and 50' cable assembly. Required by NFPA Code
- 2 Electro pneumatically ESD station at the main control panel ground level
- 3 Pull away protection as follows;
  - a Two (1) 3" Squib Taylor Tripod safety coupler truck loading & unloading liquid
  - b One (1) 3" Squib Taylor Tripod safety coupler truck unloading & loading Vapor
  - c Two (2) 3" Squib Taylor Tripod safety coupler rail Unloading & loading liquid
  - d One (1) 3" Squib Taylor Tripod safety coupler rail Unloading & loading vapor
- 4 Three (3) Fisher pneumatic rail car ESV valves with acme connectors and fire link. NFPA Required
- 5 Three (3) Rail car thread adapters 2" -18" long schedule 80 pipe TOE one end with 90° elbow and bleeder adapter & acme connector to the Rail Car ESV valve
- 6 Ground interlock permissive system

All break away connectors can be reassembled in the event of a pull away and all flow is checked when activated

**f) Hose Assemblies**

Hoses are provided as follows:

- 1 Three (3) 2" 24' long LPG hoses with Red guard and armadillo hose protection & 2" full port hose end ball valve & acme adapter rail car connection liquid & vapor
- 2 Three (3) 2" 24' long LPG hoses with Red guard and armadillo hose protection & 2" full port hose end ball valve & acme adapter truck connection liquid & vapor

Contact Kenton Sonnenburg at 651-355-8429 or [kenton.sonnenburg@chsinc.com](mailto:kenton.sonnenburg@chsinc.com) for more information and pricing.

