



## Series 7100: Tanker Decanting Systems

Legal Metrology approved system for accurate decanting/loading of commercial tankers carrying Oils, Diesel , Fuel Oils / Solvents



### Introduction

The Series 7100 is specially designed for accurate decanting of petroleum products and chemicals to above ground or underground storage tanks. Accurate flow measurement using PD meters is the only way to minimize pilferage which is inevitable due to dipstick method.

The Fluidyne unloading system comes with built-in strainer air-eliminator and Non-return valve/vacuum breaker valve that eliminates air due to emptying of tanker compartments prior to measurement. Accuracy of better than  $\pm 0.1\%$  of reading is achieved via this method.

### Features

- Consists of high-capacity Air eliminator, PD meter and Non-Return valve and optional Centrifugal/Gear pump for fast decanting
- Decanting accuracy of  $\pm 0.1\%$  of reading and repeatability better than  $\pm 0.1\%$  of reading
- Standard hose connectors for connection in the fuel system
- Sturdy mounting Fabricated Skid to withstand vibrations
- Weatherproof and Flameproof enclosures for display with RS485/Modbus output
- Gravity unloading option with self-powered Flowmeter, Air eliminator and Vacuum Breaker Valve
- Easy to use interface with backlight LCD
- SS316 and WCB build options

### Technical Specifications

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| <b>Duties</b>             | Rate of decanting                                                                    |
|                           | 10,000 LPH                                                                           |
|                           | 20,000 LPH                                                                           |
|                           | 30,000 LPH                                                                           |
| <b>Air separation</b>     | • Built-in Air eliminator, non-return valve and vacuum breaker for gravity unloading |
| <b>Accuracy</b>           | • $\pm 0.1\%$ of reading.                                                            |
| <b>Repeatability</b>      | • Better than $\pm 0.1\%$ of reading.                                                |
| <b>Service</b>            | • Petroleum products, chemicals                                                      |
| <b>Power Supply</b>       | • Self powered or AC power option                                                    |
| <b>Display Parameters</b> | • Resettable Batch Totalizer                                                         |
|                           | • Non-resettable Totalizer                                                           |
| <b>Output Options</b>     | • RS485 MODBUS RTU                                                                   |
|                           | • 4-20 mA                                                                            |
| <b>Pump Option</b>        | • Double helical gear, centrifugal, FLP motors IP55/65 rated                         |

### Applications

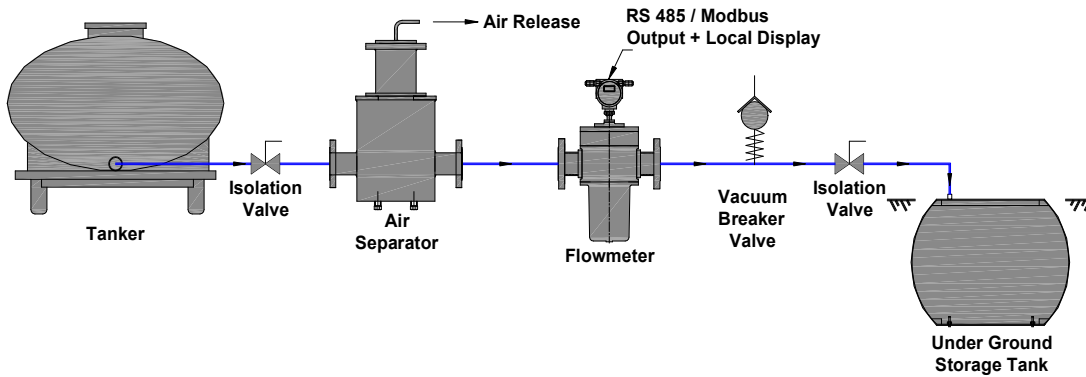
- Data centers
- Power plants, refineries
- Petrochemicals
- Edible oils
- Upstream oil and gas

### Ordering Code

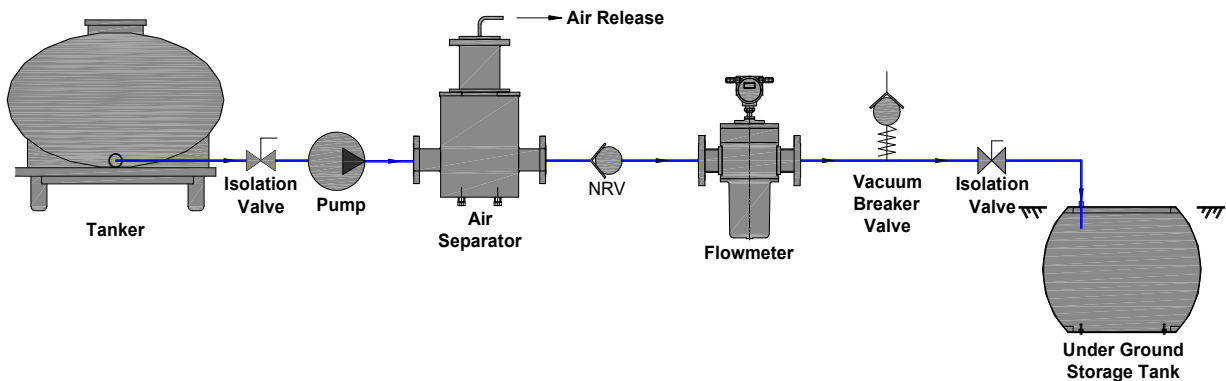
| 7100         | XX                  | XX                  | XX                         | XX |
|--------------|---------------------|---------------------|----------------------------|----|
| <b>Model</b> | <b>Storage Tank</b> | <b>Pump Options</b> | <b>Power Supply Option</b> |    |
| 40           | AG – Above ground   | PP – Pump           | AC– 230 VAC                |    |
| 50           | UG –                | WP – Without Pump   | DC – 24 VDC                |    |
| 80           | Underground         | GG – Gravity        | SP – Self powered          |    |

# Application Variants

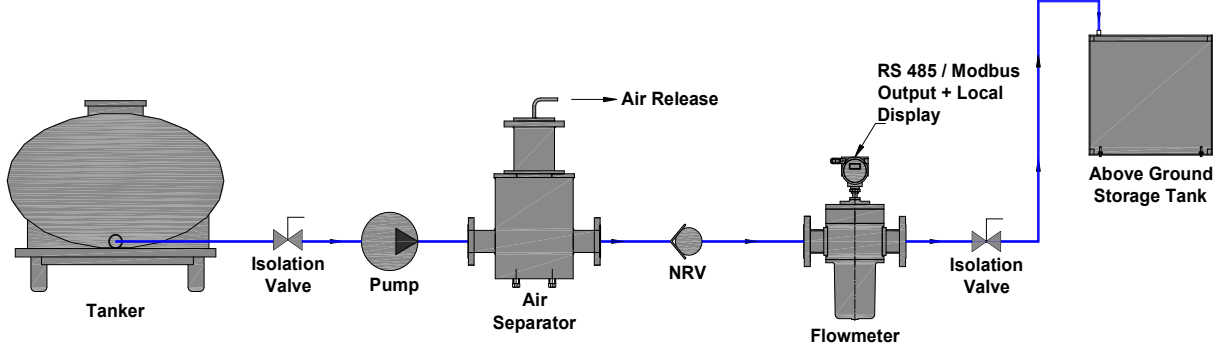
## 1) Unloading By Gravity to Underground Tank



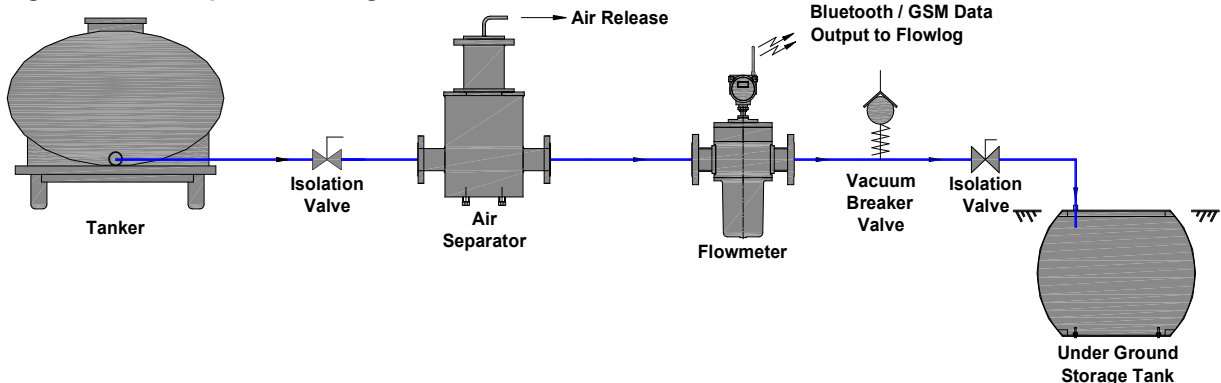
## 2) Unloading through Pump to Underground Tank



## 3) Unloading through Pump to Above Ground Tank



## 4) Unloading with Data Output to Flowlog Cloud Service



R01

