RAIL TANK UNLOADING ARM
Series 1701
Technical Specifications

silea Liquid Transfer Srl

DOC: 1701_01_EN **REV:** 01-09/2017

MADE IN ITALY

The series 1701 bottom unloading arms are designed to unload rail tanks carrying hydrocarbons and other industrial liquids in Russia and ex USSR Republics. The series 1701 carries a specially designed unloading coupler that matches the bottom unloading valve of the railcar. The unloading arm is equipped with swivels that permits a flexible and wide working area to allow easy connection to the rail tank unloading valve.

Components (standard configuration)

- **Right-hand layout, lateral inlet flow with ANSI 150 flange**
- **F-20 inlet swivel in carbon steel with HNBR seals for horizontal rotation**
- **Boom pipe in carbon steel which allows to extend the working area**
- **F-50 style double base swivel in carbon steel which allows the horizontal and vertical movement of the coupler**
- **Compressed spring piston balancing system**
- **Secondary Pipe made of aluminium alloy TTMA flanged**
- **F-40 style auminium swivel with vertical rotation to allows connection of the coupler**
- **Special design coupler to match the Russian style Rail tank wagon's bottom loading valve**

Technical specifications			
Diameter	3”	4”	6”
Type of liquids	Hydrocarbons		
Working area in meters	4 / 6		
Design temperature	-40°C / +65°C		
Weight (Kg)	130	160	300
Design pressure	6 bar		
Test pressure	9 bar		

Standards and Regulations

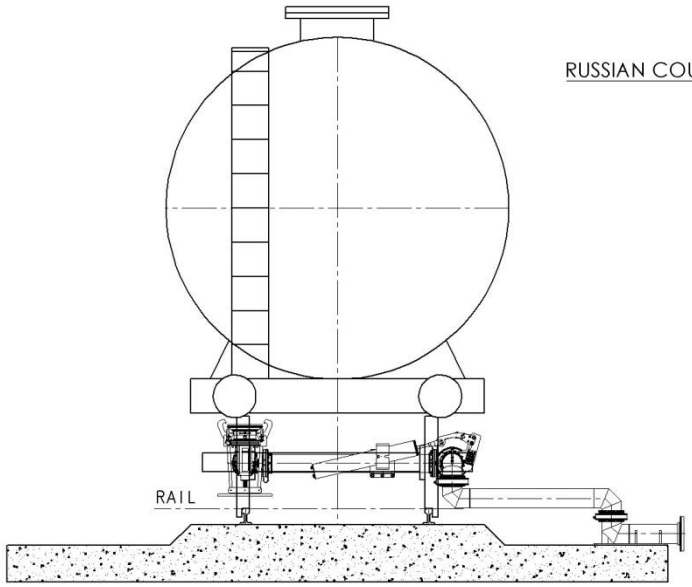
- Conformity Declaration of current Directive **ATEX** for Equipment used in Potentially explosive atmospheres
- Conformity Declaration of current Directive **MACHINERY**
- Customs Declaration of certification for Russia, Kazakhstan, Belarus, **EAC certification**.
- Standard **API-ASTM-ANSI-TTMA.**

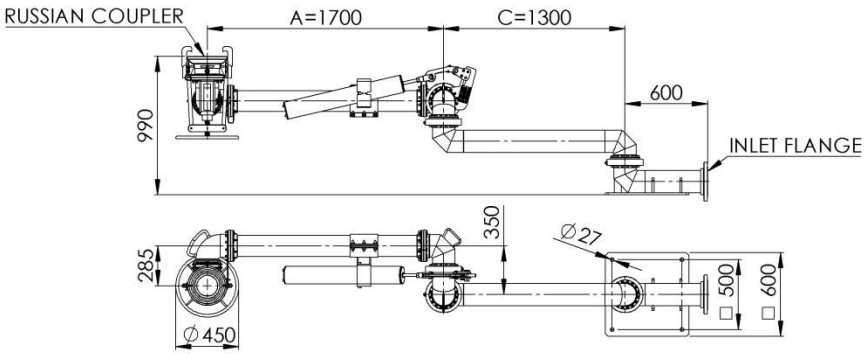
Accessories

- **Sightglass**
- **Unloading valve proximity switch**
- **Mechanical park**
- **Parking position switch**
- **Stand-post**

Options on request

- **Materials of construction:** low temperature carbon steel, 304 or 316 Stainless-steel
- **Seals in HNBR, FFKM, PTFE, FVMQ**
- **Left side inlet**
- **Bottom inlet**
- **PN16 inlet flange**
- **Steam jackets or Electrical tracing**
- ***Split Tipe swivels*:** three piece semplified maintenance
- **Specisl configuration for extremely low temperatures** (-60/+200 °C)



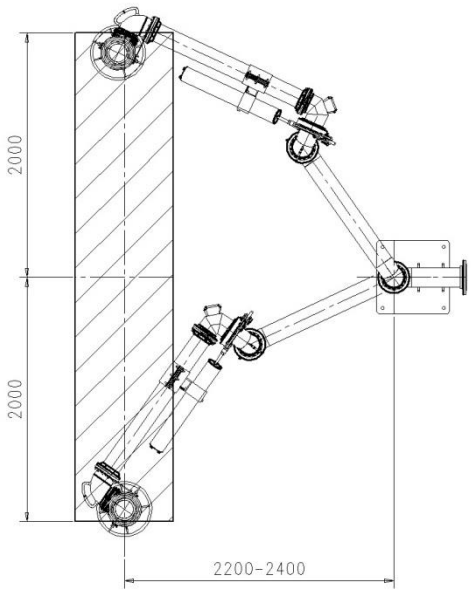


Working area 4 mt
Dimensionis in mm

A = 1700
C = 1300

Working area 6 mt
Dimensions in mm

A = 2900
C = 1500



4 mt Working area

Standard documentation

- Declaration of conformity to regulations
- Declaration of material conformities and functional test (CCC)
- Operation and maintenance manual (MUM**)**

Documentation on request

- **Welding book (WB):**
  - Welding map (WM)
  - Welding qualification (PQR)
  - Welding specifications (WPS)
  - Welder qualification (WQ)
  - Penetrant liquids test
  - Radiographs of welding heads
- **Materials specifications map (MIM):**
  - Certification 3.1 EN 10204 for steel
  - Certification 2.2 EN 10204 for aluminium
- **Quality complete plan (QCP):**
  - Welding dossier (WB)
  - Materials identification map (MIM)
  - Manufacturing plan

Silea Liquid Transfer Srl
Via 1° Maggio, 19- 40064 Ozzano Emilia (Bo) **p.iva:** 03193311200 **tel.:** +39 051 791411 **fax:** +39 051 796295 **email:** info@silea.it **web:** www.silea.it