



Liquid Transfer Srl

RUSSIAN STYLE UNLOADING ARM

Series 1701

Technical specifications



The 1701 serie bottom unloading arms are used to unload railcars carrying hydrocarbons and othe industrial liquids in Russia and surrounding ex USSR Replubics. The 1701 serie carries a specially designed unloading coupler that attaches the bottom unloading valve of the railcar. The unloading arm is equipped with swivels that allow a flexile and wide working area to allow easy conection to therailcar unloading valve.

Standard design

- Right side flow with ANSI 150 flange
- F-20 in-let swivel in carbon steel with HNBR seals for horizontal rotation
- Boom pipe in carbon steel which allows to extend the working area
- Doppio snodo di base style F-50 style double base swivel in carbon steel which allows the horizontal and vertical movement of the coupler
- Compressed spring piston balancing system Tubo portante in lega di alluminio
- F-40 style auminium swivel with horizontal rotaton to allows connection of the coupler
- Special design coupler to match the Russian style Railcar 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		

Laws and regulations

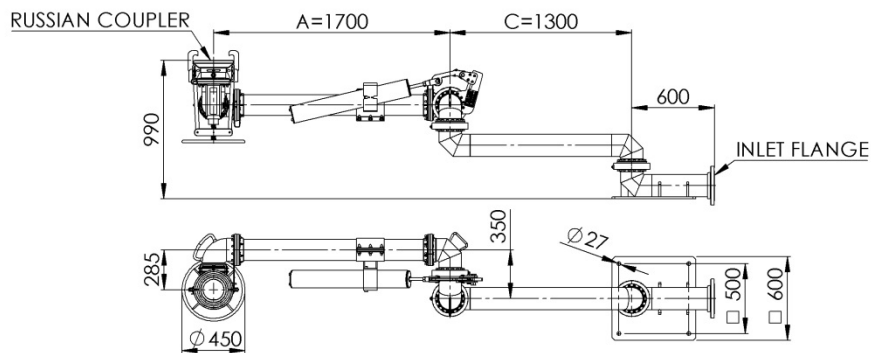
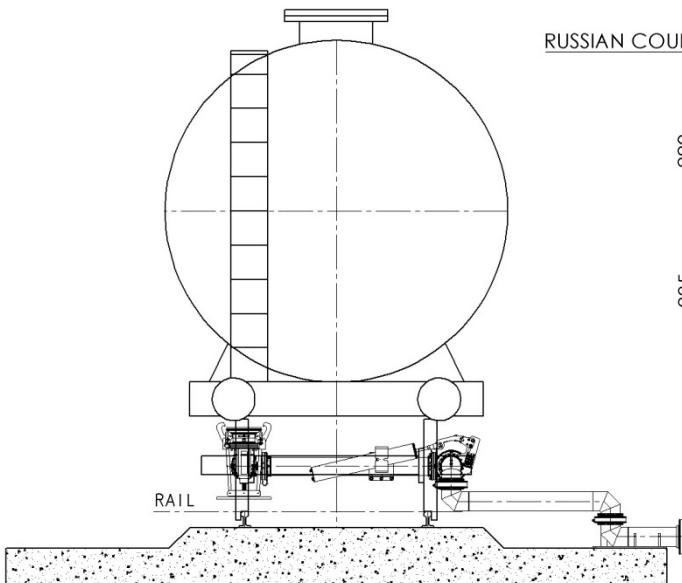
- 94/9/CE Directive, named **ATEX**.
- 97/23/CE Directive, named **PED**.
- Customs declaration for Russia, Kazakhstan, Belarus, **EAC certification**.
- Standard **API-ASTM-ANSI-TTMA**.

➤ Accessories

- Sightglass
- Unloading valve proximity switch
- Mechanical parkStand-post

➤ Options on request

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

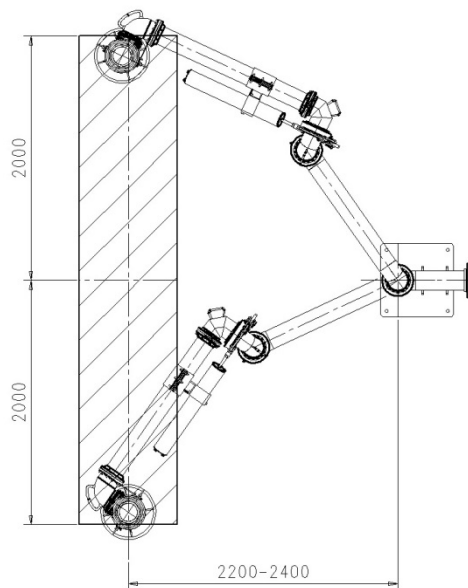


Working area 4Mt
Dimensionis in mm

Working area 6Mt
Dimensionis in mm

A = 1700
C = 1300

A = 2900
C = 1500



4Mt 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 file (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