



Liquid Transfer Srl

LONG REACH TOP LOADING ARM

Series 1201

Technical specifications

DOC: 1201_01_EN REV: 01-09/2017



The top loading arms series 1201 are designed to fill the tankers from above where it is necessary to have a wide range of action available. This allows maximum covering of the loading points.

Components (standard configuration)

- **Right-hand layout, bottom inlet, ANSI 150 connecting flange**
- **Carbon steel high resistance swivel style F-20 with carbon steel boom pipe**
- **Double swing base swivel style F-50:** It is used for horizontal and vertical rotations. It is made with two swivel joints with double ball bearing rows and FKM seals.
- **Torsion Spring Balancing unit:** It is used to balance the loading arm.
- **Loading Valve "stay open" or "Hold Open" type** opens and closes flow and has a double stage easy opening and adjustable valve closure velocity, in relation to specific pressure and viscosity of the product being loaded.
- **Secondary Pipe made of aluminium alloy TTMA flanged**
- **Valve Remote Control**
- **Drop Pipe Swivel style F-40:** It is used to keep the drop pipe in vertical position. It is supplied with a handle to facilitate the movement of the arm.
- **Drop Pipe made of aluminium alloy TTMA flanged Can have deflector or end pipe**
- **Drip pan made of aluminium alloy**

Standards and Regulations

- Conformity Declaration of current Directive **PED** for Pressure Equipment
- 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**.



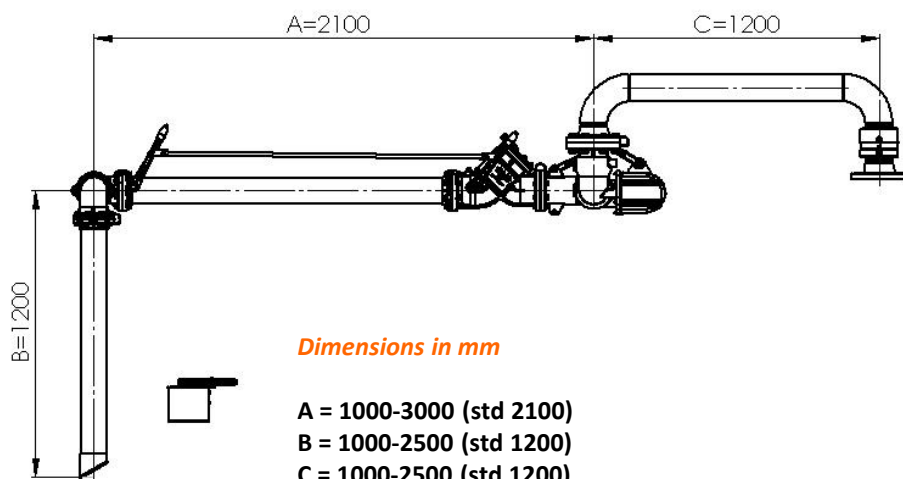
Technical features					
Nominal diameter		2"	3"	4"	6"
Fluid type		Hydrocarbons			
Nominal flow rate [flow speed: 4.5 m/s]	m ³ /h	30	70	120	280
	l/min	500	1200	2000	4700
Max flow rate [flow speed: 5.3 m/s]	m ³ /h	38	82	150	310
	l/min	650	1400	2500	5200
Design temperature		-15°C / +65°C			
Weight (Kg)		100	120	150	320
Design pressure		10 bar			
Test pressure		15 bar			

Accessories

- Check valve
- Vacuum breaker valve
- Flow indicator
- Micro switch for indication of the position of loading valve
- Micro switch to indicate vertical position
- Micro switch to indicate rest position
- Mechanical lock "Hold Down" in working position
- Mechanical Park lock in rest position
- Overfill sensor with handle
- Up/Down pneumatic actuation
- Pneumatic Valve Actuation
- Pump start/stop buttons
- Stand-post

Options on request

- **Arm material options:** all made of carbon steel, stainless steel AISI 304 or AISI 316.
- **Seals in HNBR, FFKM, PTFE**
- **Left version**
- **Upward inlet flange**
- **Base swivel inlet flange PN16**
- **Split Type swivels:** 3-pieces to facilitate maintenance.
- **Compressed spring piston balancing**
- **Loading valve with "hold open"** operation which closes automatically when the lever is released.
- **Chromium plated loading valve insidel** for jet fuels.
- **"T" deflector end-pipe** in aluminium alloy
- **Steam Jackets or electric tracing**
- **Special configurations** for extreme temperatures (-60/+200 °C)



Dimensions in mm

A = 1000-3000 (std 2100)
B = 1000-2500 (std 1200)
C = 1000-2500 (std 1200)

Dimensions can be customized.



0560 serie Loading Valve.

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