



Liquid Transfer Srl

LOADING ARM LINED WITH TEFLON™ (PTFE) 1201T Series

Technical specifications

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The top loading arms series 1201T 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. This type of arms, in particular, are designed for the transfer of highly corrosive chemical products and food liquids subject to strict hygiene rules. It can be made of carbon steel or Aisi 316, and, in both cases, it is internally lined in PTFE. The swivels, provided with an only one ball-bearing race, are also lined internally in PTFE with a double PTFE seal.

Standard configuration

- **Right-hand layout, bottom inlet, ANSI 150 connecting flange.**
- **Base swivel T-20 style:** It is used for horizontal handling It is provided with a ball-bearing race and is internally lined with PTFE with PTFE seals.
- **Swivel Section:** It is used to extend the range of action of the loading arm and is internally coated in PTFE.
- **Double base swivel T-50 style:** It is used for horizontal and vertical handling. It is made with two swivels, provided with a ball-bearing race, and is internally lined with PTFE with PTFE seals.
- **Spring piston:** It is used to balance the weight of the cantilever part of the loading arm
- **Support tube:** made of carbon steel or Aisi316, lined in PTFE.
- **Safety butterfly valve:** It is used to stop loading in the event of a malfunction during the supply. Body and plate are made of stainless steel coated in PTFE.
- **Terminal swivel T-40 style:** It is used to hold the drop pipe upright; it can be equipped with a handle to make the movement of the arm easier.
- **Drop pipe:** it consists of a section made of steel or Aisi316, internally lined in PTFE, and a section in PTFE only which is put into the manhole it can be equipped with a splash guard disc or a cone made of Aisi316 or PTFE.
- **Drip pan**

Standards and Regulations

- Conformity Declaration of current Directive ATEX (for equipment used in Potentially explosive atmospheres)
- Conformity Declaration of current Directive PED (for pressure equipment)
- Customs Declaration of certification for Russia, Kazakhstan, Belarus, EAC certification
- Standard **API-ASTM-ANSI-TTMA**



Technical features

Technical features			
Nominal diameter		3"	4" (Upon request)
Fluid Type		Highly corrosive acids / Food liquids	
Nominal flow rate [flow speed: 4.5 m/s]	m ³ /h	70	120
	l/min	1200	2000
Max flow rate* [flow speed: 5.3 m/s]	m ³ /h	82	150
	l/min	1400	2500
Design temperature		-15°C / +65°C	
Weight (Kg)		120	150
Design Pressure		10 bar	
Test pressure		15 bar	

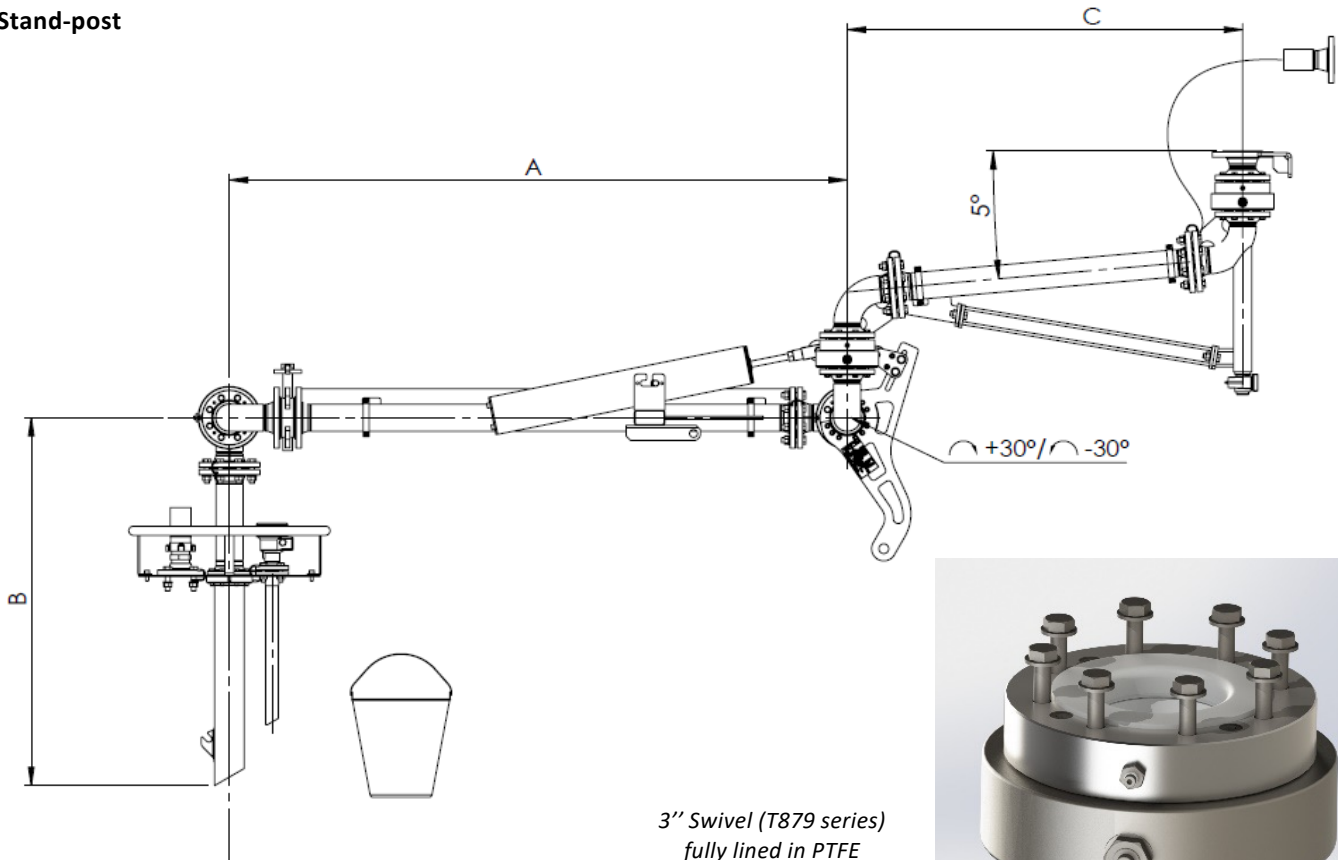
* as recommended by the regulation CEI CLC/TR 50404.

Accessories

- Micro switch for indication of the position of loading valve
- Microswitch to indicate vertical position
- Microswitch 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 upon request

- **Arm material options:** carbon steel, steel for low temperatures, stainless steel AISI 304 or AISI 316
- **Upward inlet flange**
- **Base swivel inlet flange PN16**
- **Loading ball valve:** made of AISI 316 lined internally in PTFE
- **Special configurations for extreme temperatures** (-40/+200 °C)



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
- **Quality complete plan (QCP):**
 - Welding dossier (WB)
 - Materials identification map (MIM)
 - Manufacturing plan