



The 1050 serie of loading arms is used on road tankers top loading, when the loading point is always at the same distance from the loading rack. Silea 1050 arms are balanced with an adjustable torsion spring which allows an arm inclination with the horizontal axis of 55°- 60° upward and 20°- 30° downward. Optionlly the 1050 can be also balanced with a compressed spring piston

#### Components (standard configuration)

- **Right version with ANSI 150 flow connecting flange from the bottom**
- **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.
- **Main 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**



#### Laws and regulations

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

#### Technical features

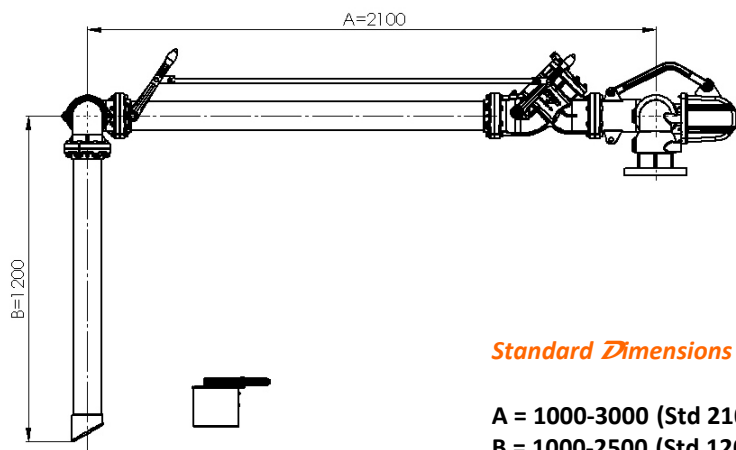
Nominal diameter		2"	3"	4"	6"
Fluid type		Hydrocarbons			
Nominal flow rate <i>[flow speed: 4.5 m/s ]</i>	m <sup>3</sup> /h	30	70	120	280
	l/min	500	1200	2000	4700
Max flow rate <i>[flow speed: 5.3 m/s ]</i>	m <sup>3</sup> /h	38	82	150	310
	l/min	650	1400	2500	5200
Design temperature		-15°C / +65°C			
Weight (Kg)		65	73	88	153
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
- 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 in-let flange
- Base swivel in-let 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
- Special configurations for extreme temperatures (-60/+200 °C) Heating system



### Standard Dimensions (mm)

A = 1000-3000 (Std 2100)  
B = 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 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 Control plan (QCP):
  - Welding dossier (WB)
  - Materials identification map (MIM)
  - Manufacturing plan