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

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>2”</th>
<th>3”</th>
<th>4”</th>
<th>6”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid type</td>
<td>Hydrocarbons</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal flow rate [flow speed: 4.5 m/s]</td>
<td>m³/h</td>
<td>30</td>
<td>70</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>l/min</td>
<td>500</td>
<td>1200</td>
<td>2000</td>
</tr>
<tr>
<td>Max flow rate [flow speed: 5.3 m/s]</td>
<td>m³/h</td>
<td>38</td>
<td>82</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>l/min</td>
<td>650</td>
<td>1400</td>
<td>2500</td>
</tr>
<tr>
<td>Design temperature</td>
<td>-15°C / +65°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>100</td>
<td>120</td>
<td>150</td>
<td>320</td>
</tr>
<tr>
<td>Design pressure</td>
<td>10 bar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test pressure</td>
<td>15 bar</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 inside 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.

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