



## Hose Loader – LA210 series

# BOTTOM LOADING ARM

Bottom Loading Arms are articulated, self-supported pipelines used to transfer fluids from stocking depots to road or railway tankers while standing on the ground, frequently through an API RP 1004 valve. LA210 series is compression spring balanced, with flexible vertical arm.

### COMPONENTS DESCRIPTION (STANDARD VERSION):

- Right hand layout, bottom inlet, ANSI150 inlet flange.
- Double base swivel style F-50 in 42CrMo4 carbon steel + FKM seals.
- Compression spring balancing unit.
- Primary pipe in carbon steel.
- Swivel style F-40 in aluminum alloy + FKM seals.
- Vertical flexible hose, conductive type, according to EN 12115.
- Swivel style F-30 in aluminum alloy + FKM seals, with handle.
- 4" API RP 1004 dry break coupler in aluminum alloy + FKM seals.

**DOUBLE SWIVEL in  
42CRMO4 CARBON STEEL  
HIGHER RELIABILITY**



Custom color coding

### OPTIONS:

- Different pipes length.
- **Diameters:** from 3" to 4".
- **Other materials:** CS (42CrMo4) - KCS - SS.
- **Other seals:** HNBR - FFKM - PTFE - VMFQ.
- **Base flange:** PN16 or other standards.
- **Layout:** Left-hand.
- **Inlet:** Top vertical.
- Split type swivels.
- Custom color coding.
- Rigid vertical tube with double swivel.
- Special configurations for extended temperature (-60/+200 °C).
- Vapour recovery version, with vapor recovery coupler API RP1004.
- Semi-automatic coupler.
- Stanag 3756 hose unit.
- Jet fuel version, with hose EN1361 type C.

### ACCESSORIES:

- Coupler switch.
- Emergency release valve.
- Back-check valve.
- Parking device.
- Parking switch.
- Sight glass.
- Stainless steel protection sleeve for flexible hose.
- Standpost.



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## STANDARDS AND REGULATIONS:

- 94/9/EC Directive (ATE X).
- 2006/42/EC Directive (Machinery).
- 97/23/EC Directive (PED).
- API - ASTM - ANSI - TTMA standards.

## DIMENSIONS (mm):

- A = 1100-2000 (std 1400).
- B = 1500-4500 (std 2300).

## STANDARD DOCUMENTATION:

- Declaration of conformity to applicable directives.
- Final Test report.
- Owner manual including BOM and spare part lists.

## DOCUMENTATION ON REQUEST:

### A) Welding book (WB) including:

- Welding Map (WM).
- Welding qualifications (PQR).
- Welding Procedures (WPS).
- Welder Qualification (WQ).
- Dye penetrant test on socket welds.
- X-ray on butt welds.

### B) Material Identification Map (MIM) including:

- 3.1 EN 10204 Certifications for steel.
- 2.2 EN 10204 Certifications for aluminum and rubber materials.

### C) Complete Quality Control Plan (QCP) including:

- Welding book (WB).
- Material Identification Map (MIM).
- Manufacturing Plan.

## TECHNICAL SPECIFICATIONS:

- Design temperature: -15 / +65°C.
- Design pressure: 10 bar.
- Test pressure: 15 bar.
- Flow rate @ 6 m/s: 3" } 82 m<sup>3</sup>/h – 4" } 150 m<sup>3</sup>/h.

