

# BOTTOM LOADING ARM B2100 COH

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.

B2100 COH series is compression spring balanced, with flexible vertical arm.



## Components description (standard version)

- Right hand layout, bottom inlet, ANSI 150 inlet flange
- Double base swivel style F-50 in 42CrMo4, FKM seals
- Compression spring balancing unit
- Primary pipe in carbon steel
- Swivel style F-40 in aluminium alloy, FKM seals
- Vertical flexible hose, conductive type, according to EN 12115
- Swivel style F-30 in aluminium alloy, FKM seals, with handle
- 4" API RP 1004 dry break coupler in aluminium alloy, FKM seals

## Standards and regulations

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

## 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



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## Options

- Different pipes length
- Diameters: From 3" to 4"
- Other materials: Carbon steel (42CrMo4), low temperature carbon steel, stainless steel
- Other seals: HNBR, FFKM, PTFE, VMFQ
- Base flange: PN16 or other standards
- Layout: Left-hand
- Inlet: Top vertical
- Split type swivels
- Rigid vertical tube with double swivel
- Special configurations for extended temperature (-60 °C/+200 °C)
- Vapour recovery version, with vapour recovery coupler API RP 1004
- Semi-automatic coupler
- STANAG 3756 hose unit
- Jet fuel version, with hose EN1361 type C
- Custom colour coding

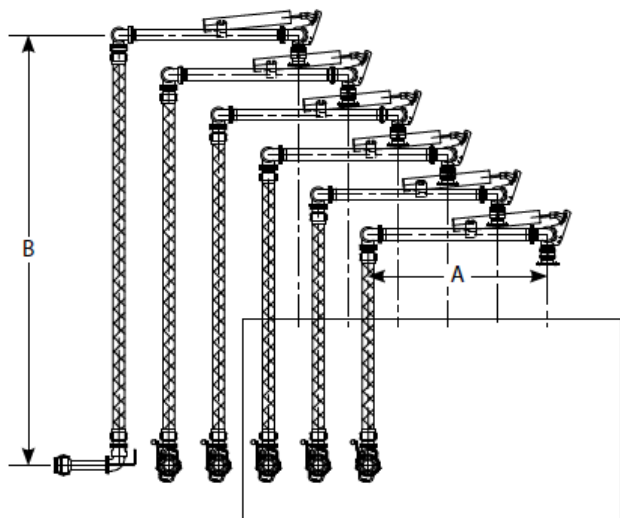
## Dimensions [mm]

A = 1100-2000 (standard 1400)

B = 1500-4500 (standard 2300)

## Accessories

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



## Standard documentation

- Declaration of conformity to applicable directives
- Final test report
- Owner manual including BOM and spare parts



## Documentation on request

### 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

### Material Identification Map (MIM) including:

- 3.1 EN 10204 Certifications for steel
- 2.2 EN 10204 Certifications for aluminium and rubber materials

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

- Welding Book (WB)
- Material Identification Map (MIM)
- Manufacturing Plan