



The BLA-403 Articulated Bottom Loading Arm is used for loading and unloading liquid tankers at ground level. It can be used in a range of industries including Chemical, petroleum and for a multitude of other products. It is designed to provide maximum coverage for the side or back loading points of a tanker.

### Features and Benefits

- Bottom loading/ unloading removes the need to work at height on top of the tanker, creating a safer work environment
- Spring balancing makes it easy to handle and maneuver by a single operator
- Horizontal swivel joints allow the arms to extend out to their full range and fold away into a small parking envelope.
- Vertical swivel joints allow the arms to move up and down within a set range.
- Arms designed to suit specific liquids, with wetted materials including aluminium, carbon steel, stainless steel and PTFE lined versions.
- Heated arms are available with thermal insulation and trace heating to maintain product at a constant temperature

### Uses Include

- Can be used for loading or unloading operations.
- Transfer of all types of liquid including chemicals, solvents, acids, fuels, bitumen, HFO, and other heated products, alcohols, sprits, highly flammable and highly corrosive liquids, inorganics, etc.
- Particularly suitable for liquids that are deemed hazardous to health and/or the environment.
- Ideal for the loading of liquids that require very high or very low temperatures.

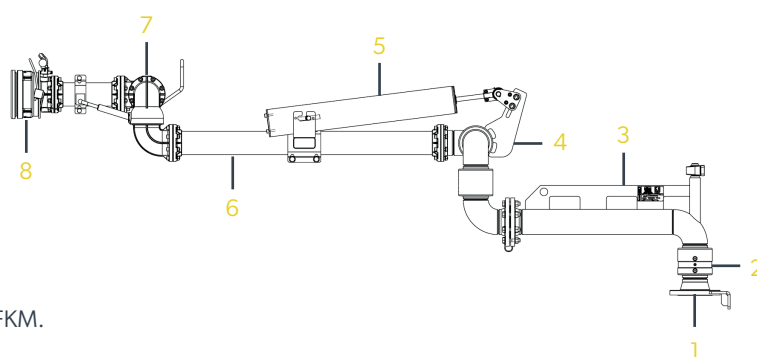
### Safety by Design

## Specifications

Technical Features				
Nominal diameter		3"	4"	6"
Fluid Type		Chemicals / Hydrocarbons		
Nominal Flow Rate	m <sup>3</sup> /h	70	120	280
	l/min	1200	2000	4700
Max Flow Rate	m <sup>3</sup> /h	82	150	310
	l/min	1400	2500	5200
Design Temperature		-15°C / +65°C		
Weight (kg)		130	160	300
Design Pressure		10 bar		
Test Pressure		15 bar		

## Standard Model Shown

- 1 Right-hand layout, bottom inlet, ANSI 150 flange connection
- 2 Carbon steel high performance flanged inlet swivel with double row of ball bearings.
- 3 Carbon steel boom pipe
- 4 Double base swivel: for horizontal and vertical rotation.
- 5 Compressed spring balancing system
- 6 Secondary pipe in aluminium
- 7 End Double swivel for lining up coupler correctly
- 8 End coupler connection- 4" API RP 1004 in aluminium alloy with seals in FKM.



## Options & Accessories

### Options

- Arm materials: liquid line made of carbon steel, stainless steel AISI 304 or AISI 316 with seals in HNBR, FFKM or PTFE. PTFE lined arms also available
- Configurations include left handed and upward and side inlet flange with PN16 base swivel
- Torsion spring balancing
- Split Type swivels: 3-pieces to facilitate maintenance.
- Electric trace or steam jacketed heating with thermal insulation and stainless-steel cladding
- Special configurations for extreme temperatures (-60/+200 °C)

### Accessories

- Check valve
- Dry-break emergency valve
- Flow indicator
- Loading position Micro Switch
- Park position Micro Switch
- Mechanical parking lock
- Stand-post

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