PRODUCT DATA SHEET

EMCO WHEATON
A Gardner Denver Product

C0001-C0013, C0015-C0093 | FLOATING SUCTIONS

Floating suctions compared with permanently fixed bleeding nozzles have the following advantages:

ADVANTAGES OF FLOATING SUCTIONS

* The product always is transferred in a defined distance under the liquid level
* Contamination dirt/sediments/solid particles and heavy fluids remain on the tank bottom
* Therefore constant quality independent from liquid level
* Ease of steering and long lifetime due to ball bearing of swivel joints
* Easy mounting due to internal swivel joint flanging
* Robustness against pressure conditions (pressure variations) in tank and tube
* Minimal vortex formation through optimized inlet with anti-vortex suction
* Pressure-proof floats

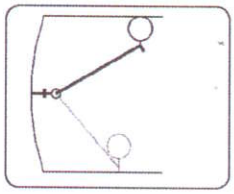
DESIGN FEATURES

* Internally fixed at unloading tube
* Consisting of an elbow-tube-system with a suction opening which is held close to the liquid level by a float (see drawing)
* Various designs, depending on the tank dimensions and types
* Sizes: DN 50 to DN 500

C0001-C0013
C0015, C0093

C0001-C0013, C0015-C0093 | FLOATING SUCTIONS

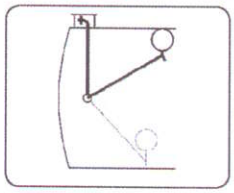
TYPES C0001 - C0003



FOR USE IN SEMI-BURIED TANKAGE
WITH LATERAL OUTLET ON THE CENTRE-LINE

single arm	C0001 right hand design C0002 left hand design C0003 centre design

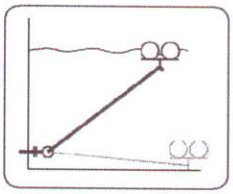
TYPES C0004 - C0008



FOR USE IN BURIED TANKAGE
WITH THE OUTLET THROUGH THE MANHOLE

single arm	C0004 connection at pos. I C0005 connection at pos. II C0006 connection at pos. III C0007 connection at pos. IV C0008 connection at pos. V

TYPES C0009 - C0011

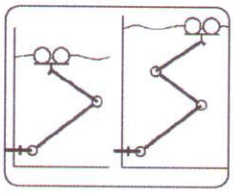


FOR USE IN ABOVE GROUND TANKAGE
WITH LATERAL OUTLET NEAR THE BOTTOM

single arm	C0009 right hand design C0010 left hand design C0011 centre design at Pos. V

The tank diameter must be bigger than the maximum fluid level.

TYPES C0012 - C0013

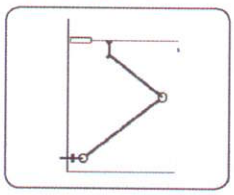


FOR USE IN VERTICAL STORAGE TANKS
WITH LATERAL OUTLET NEAR THE BOTTOM

double arm	C0012 left hand design
triple arm	C0013 left hand design

At fluid levels bigger than the tank diameter double or triple arm floating suctions must be foreseen depending on the relation between and height.

TYPE C0015

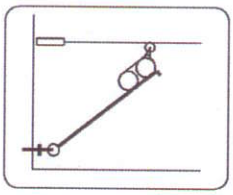


FOR ARTICULATED DRAINAGE UNITS
WITH FLOATING CEILING/FLOATING ROOF

double arm	C0015 left hand design "hanging"

The loads resulting from the weight of the floating suction must be absorbed by the floating ceiling/roof.

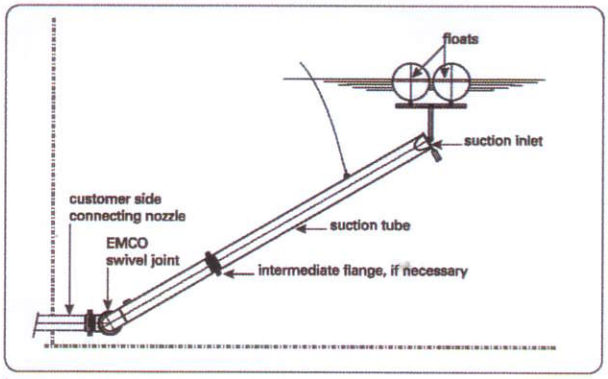
TYPE C0093



FOR ARTICULATED DRAINAGE UNITS
WITH FLOATING CEILING/FLOATING ROOF

single arm	C0093 right hand design with roll

For the roll a bearing has to be provided, which can absorb the pressure force (of the roll).



Typical single arm Floating Suction C0009

MATERIALS AND TECHNICAL DATA

Materials of product carrying parts	Aluminium, steel or stainless steel
Materials of seals	Buna, Viton or PTFE (other seals available)
Design pressure	Pressureless
Design temperature	-10 °C up to +50 °C

Alternative configurations on request.

* The exact size is depending on the required suction speed. The flow velocity should not exceed 1 m/s.
* Design and length(s) of floating suction will be determined by kind of tank and all relevant dimensions.
* For optimizing the design of the floating suction for an individual situation please fill in our „datasheet floating suctions".
* If there are no special instructions the floating suction will be designed that all parts can be installed through a manhole size DN 600. The floating suction will be delivered in parts.

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Better by Design

ISO 9001

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