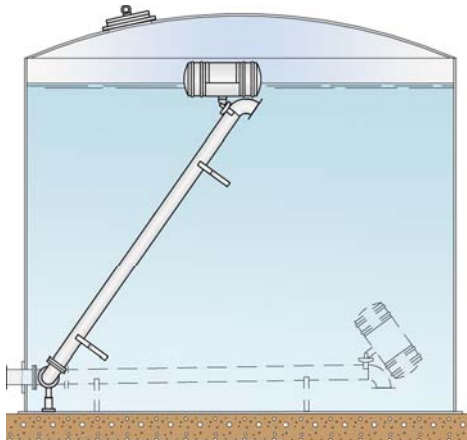


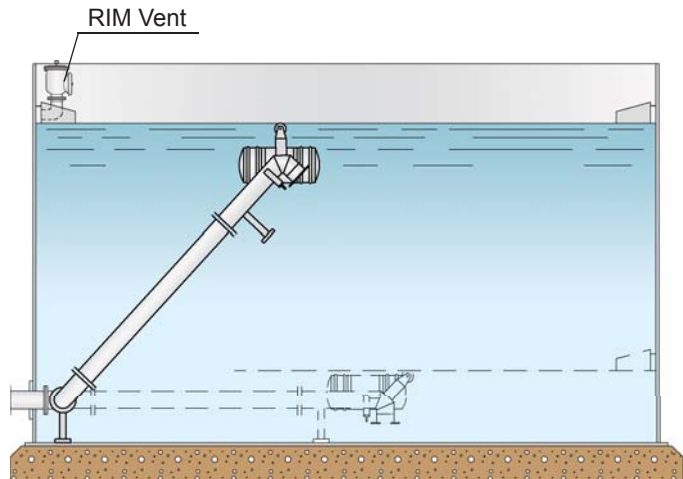


## Floating Suction Unit

### PROTEGO® SA/S



PROTEGO® SA/S for fixed roof tanks



PROTEGO® SA/S for floating roof tanks

### Function and Description

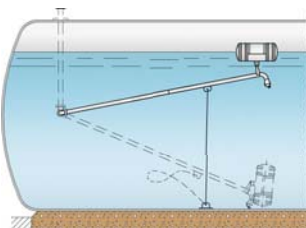
PROTEGO® Floating Suction Units - FSU - are designed to ensure that product in a storage tank is drawn off just below the surface of the liquid where it is cleanest, preventing the suction point being at the bottom of the tank where water and residuals will settle down.

### Design Types and Specifications

PROTEGO® Floating Suction Units are designed and sized to suit the individual tank specifications and customer requirements.

PROTEGO® Floating Suction Units are designed for a long life in service. We use carbon steel or stainless steel for highly loaded components or aggressive media.

Solutions are available from 1" to 36" for horizontal or vertical tanks with fixed or floating roofs. Custom designs for unusual stored products are available.



PROTEGO® SA/S for horizontal tanks

### Selection and Design

PROTEGO® Floating Suction Units offer experienced technology for a complete solution for the end-user. This includes easy installation and assembly and full documentation with an arrangement drawing showing the FSU placed in the tank with regards to all internals.

Essential for the design of the PROTEGO® Floating Suction Unit is the Heavy Duty Swivel Joint which fulfils the requirement for an in-service installation to avoid high costs of repairs and to extend the tank maintenance to the planned interval.

The Swivel Joint comes with/in

- a sturdy design made of carbon or stainless steel
- maintenance-free greased for a life-time with aviation approved grease
- large sized ball bearings with two races to cover all side-flow forces during operation.

PROTEGO® Floating Suction Units have an intake designed to avoid any forming of vortex. The intake is able to release trapped air.

Floats are all made of stainless steel and are 100 % pressure tested.

Options upon request:

- Sampling pipes
- Function indicator
- Stress calculation due to liquid movement
- On-site support

**PROTEGO® Floating Suction Units are „Made in Germany“ and will provide many years of trouble free tank operation.**

\*Project:  
Location:  
Client:  
\*Enduser:  
\*Engineering:

**Tank Main Details**

*Fixed roof tank	<input type="checkbox"/>	*Fixed roof tank with internal floating roof	<input type="checkbox"/>
*Floating roof tank	<input type="checkbox"/>		
*Horizontal tank	<input type="checkbox"/>		
Tank-No.:		*Tank height:	mm
		*Tank diameter:	mm
*Maximum filling height:	mm		
*Material request of floating suction unit:			

**Product details**

*Stored product:	
*Product specific gravity:	
Maximum product temperature:	°C

**Tank details**

*Suction line size: DN	
*Shell nozzle centreline height / inwards projection:	mm
*Manhole size: DN	
Bottom slope:	<input type="checkbox"/> Slope direction:
*Are there any obstructions? (columns, heating coils,...)	<input type="checkbox"/> if <input checked="" type="checkbox"/> - please specify
*Tank drawing / sketch?	<input type="checkbox"/> if <input checked="" type="checkbox"/> - specify request

\* This information must be indicated on request!  
Fill in and  tick off, if applicable.

