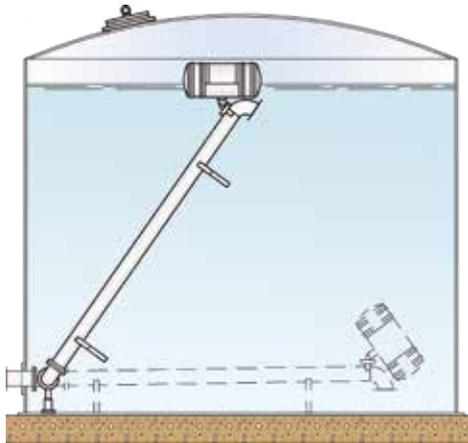


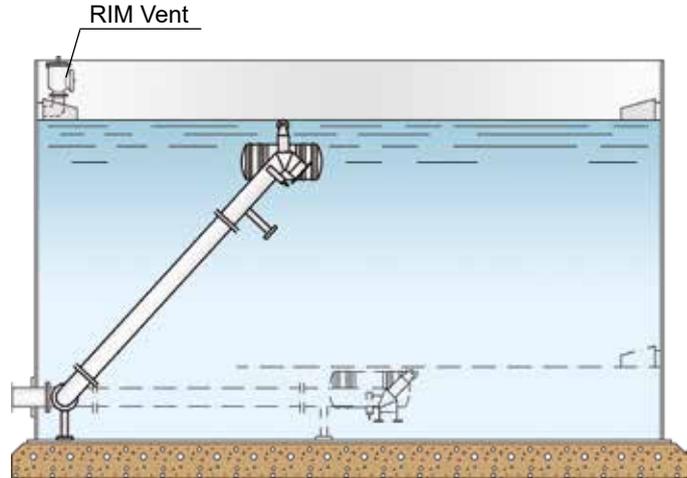


## Floating Suction Unit

PROTEGO® SA/S



PROTEGO® SA/S for fixed roof tanks



PROTEGO® SA/S for floating roof tanks

### Function and Description

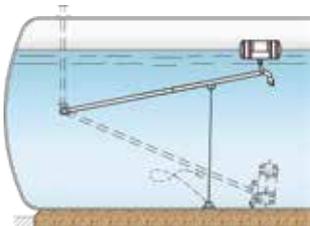
PROTEGO® Floating Suction Units, FSU, are used in storage tanks with very high purity requirements of the substances, e.g., aviation or fossil fuels. They are designed to ensure that product in a storage tank is drawn off just below the surface of the liquid where it is cleanest. This prevents the settled water and residuals at the bottom of the tank from being sucked in.

### 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 long-term operation in full contact with the substances used. We use carbon steel or stainless steel for highly loaded components or aggressive substances.

Sizes 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 are the result of extensive experience and are well-conceived solutions for the end-user. This includes easy installation, assembly, and full project documentation with design drawings taking into account tank installations.

Essential for the design of the PROTEGO® Floating Suction Unit is the Heavy Duty Swivel Joint, which is designed to work maintenance-free for many years in full contact with the substances used. This design provides the tank operator with operational reliability, and unforeseen and expensive repairs are prevented.

The Swivel Joints are:

- made of carbon steel or stainless steel;
- lubricated with a maintenance-free lifetime lubrication system; and
- equipped with a double row ball bearing with larger sizes to optimize reliability.

PROTEGO® Floating Suction Units are equipped with a suction opening which prevents a vortex from forming and the suction of air.

Floats are all made exclusively of high-quality 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:  
Customer:  
\*End user:  
\*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 design of floating suction unit:		

**Product details**

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

**Tank details**

*Suction line size: DN	
**Height of connection flange / length of connection piece (inside): mm	
*Manhole size: DN	
Bottom slope: <input type="checkbox"/>	Slope direction:
*Are there any obstructions? (supports, heating pipes, etc.) <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 provided upon request.  
Fill in and  check, if applicable.

