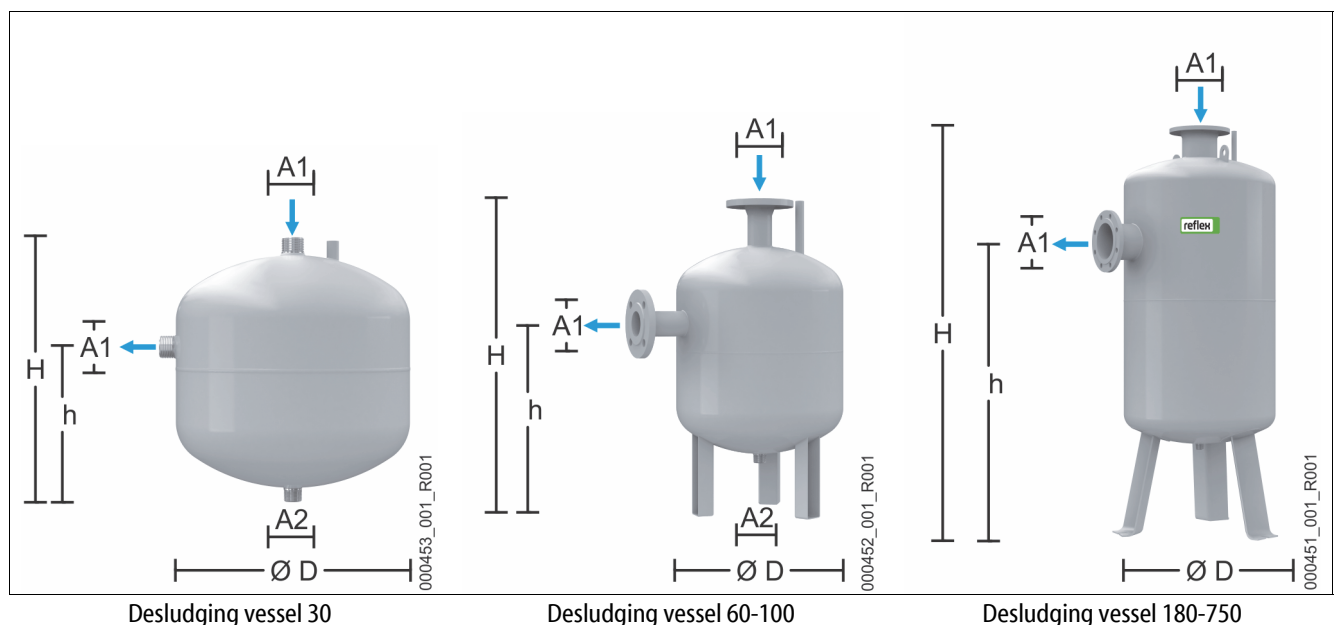


1 Quick Guide Reflex Desludging Vessel

Only specialist personnel or specifically trained personnel may install and operate the equipment.

- Modifications of the equipment are not permitted.
 - For example, welding at other points than the connection piece (in equipment with welded connection)
 - For example, mechanical deformations
- All required inspections must be ordered by the operator pursuant to the provisions of the applicable industrial safety regulations. Required inspections and tests are:
 - Inspections and tests prior to commissioning
 - Inspections and tests after significant modifications of the installation
 - Recurring inspections
- The devices to be installed and operated must not exhibit any visible exterior damage at the pressure component.
- Ignoring this manual and the safety information in particular, may cause the destruction and defects of the equipment, endanger persons and adversely affect the functioning. Any contravention voids the guarantee and liability.
- Local guidelines and laws must be adhered to.

2 Overview



- Useful for installation in fluid circuits, in the return for protection against deposits in heat generators.
- Reducing the flow rate and creation of still zones for the deposition of fine sludge and suspended solids.

Type	Max. op. temperature [°C]	Max. op. pressure [bar]	Connection (DN)		Ø D [mm]	H [mm]	h [mm]	Weight [kg]
			A1	A2				
EB 30	110	10	R1¼	R1	409	455	270	8.7
EB 60	110	10	DN50/PN16	R1	409	770	465	18.3
EB 80	110	10	DN65/PN16	R1	480	765	468	23.8
EB 100	110	10	DN80/PN16	R1	480	870	535	30
EB 180	110	6	DN100/PN6	R1	600	1110	726	64.5
EB 300	110	6	DN125/PN6	R1	600	1600	1141	103
EB 400	110	6	DN150/PN6	R1	750	1500	1027	139.5
EB 750	110	6	DN250/PN6	R1	750	2215	1677	229.2

3 Installation

⚠ CAUTION

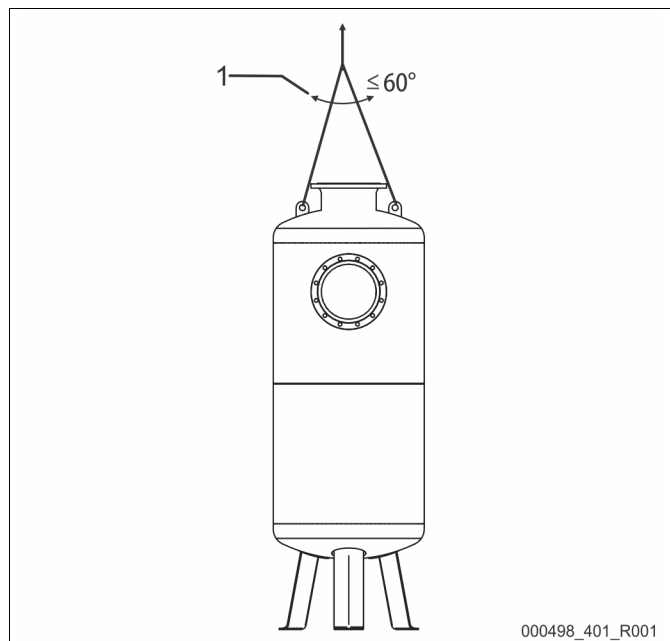
Risk of injury due to pressurised liquid

If installation, removal or maintenance work is not carried out correctly, there is a risk of burns and other injuries at the connection points, if pressurised hot water or hot steam suddenly escapes.

- Ensure proper installation, removal or maintenance work.
- Ensure that the system is de-pressurised before performing installation, removal or maintenance work at the connection points.

The following items must be considered when assembling and installing the equipment:

- Observe the specified direction of flow.
- Ensure a vertical and stress-free installation.
 - Any stresses that may occur in some cases must be countered by appropriate constructive actions. Stresses may be caused by temperature effects, for example.
- Ensure sufficient bearing capability of the installation site.
 - This applies to filling the separator with water in particular.
 - If necessary additional structural measures may be required to ensure adequate load bearing capacity.
- The device is not a load-bearing structural element.
 - By default, the calculation of the vessels does not take lateral acceleration forces into account. Avoid alternating stresses such as pressure shocks, abrupt pressure changes, or strong vibrations.
- Use only approved transport and lifting equipment.
 - The eyes provided on the device are intended solely as installation aids.
- The angle (1) of the lifting tackles must be maximum 60°.
- After attachment of insulation, attach the additional sticker on the outside so that it is readily visible.



4 Operation

Note the following for operation:

- The glycol fraction in the water must not be more than 50 %.
- When dosing additives, comply with the manufacturer specification regarding the permissible dosing quantities. This is important in particular to prevent corrosion.
- Chemical additives such as inhibitors must be used only after an impact assessment in respect to all the materials used in the system.
 - This impact assessment is the responsibility of the user.
- Keep the system free from foaming substances. Foam or dirt beyond a specific portion can cause a temporary leaking at the venting valve.

5 Maintenance

CAUTION

Risk of burns on hot surfaces

Hot surfaces in heating systems can cause burns to the skin.

- Wait until hot surfaces have cooled down or wear protective safety gloves.
- The operating authority is required to place appropriate warning signs in the vicinity of the device.

The intervals between maintenance work are dependent on the add-on components present (e.g. vents, etc.) and their operating conditions.

5.1 Pressure test

During a hydraulic pressure test, the pressure must not exceed 1½ times the maximum working pressure.

5.2 Cleaning

- The cleaning interval depends on the accumulated dirt within the system.
- The manufacturer recommends an initial check after 4 weeks and at least an annual documented service.
- Provide a catching container and a pressure and temperature-resistant drain hose, if required.
- Dependent on the type of medium, ensure you correctly dispose of any collected dirt content.

For cleaning, proceed as follows:

1. Gradually open the desludging valve for a short time until sludge no longer drains off.
 - Make sure that not much water escapes.
2. Subsequently, check the system pressure and add water as required.

6 Annex

6.1 Conformity and standards

This product has been designed and manufactured in accordance with the specifications for sound engineering practice (SEP) as required by the Pressure Equipment Directive (2014/68/EC).

The selected technical specification for the compliance with the underlying safety requirements of the Directive 2014/68/EU is shown on the nameplate.

6.2 Guarantee

The respective statutory guarantee regulations apply.

6.3 Reflex Customer Service

Central customer service

Central telephone number: +49 (0)2382 7069 - 0

Customer Service extension: +49 (0)2382 7069 - 9505

Fax: +49 (0)2382 7069 - 9588

E-mail: service@reflex.de

Technical Hotline

For questions about our products

Telephone number: +49 (0)2382 7069-9546

Monday to Friday 8:00 to 16:30



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