

Alfa Laval Bottom mounted agitators Type ALB

Efficient Mixing and Agitation

Applications

Application	Typical examples
Maintain media	Milk storage tanks, mixed product tanks,
homogeneous	UHT storage tanks etc.
Mixing and Solutions	Fluid and fluid mixing, i.e. drinking yoghurt
(dissolves)	and fruit mix tanks, flavoured milk mix tanks,
	syrup mix tanks, etc.
Solid Dispersion	Powder + fluid mix tanks, etc.
Suspension	Fluids with particles, i.e. juice tanks
Heat transmission	Circulation of media in tanks with dimple
	jacket (cooling or heating)



TECHNICAL DATA

Motor

Motor size and speed as required for duty. As standard with IEC motor IP55, other types on request. As standard painted RAL5010.

Voltage and frequency

As standard for 3x380 to 420V, $50{\rm Hz}$ - $3x440{\rm V}$ to $480{\rm V}$, $60{\rm Hz}$. All motor voltages and frequencies are available.

Gears

Different gear types available according to configuration. As standard filled with normal synthetic or mineral oil, optional: Food approved oil. As standard painted RAL5010.

ATEX - option

Agitators can be delivered approved for use in an ATEX environment with declaration of conformity.

Ordering

The following information is required to ensure correct sizing and configuration for ordering:

- Tank geometry
- Product properties
- Task of agitator
- Enquiry forms are available



PHYSICAL DATA

Materials

List the range of materials available for wetted parts:

Steel parts: AISI 316L (standard)

Other materials on request.

Seal rubber parts

(o-rings or bellows): EPDM

FPM/FEP (only for stationary

O-rings) FPM

Other materials on request.

Specific selection of materials will depend on the actual configuration selected.

Material certificate - option

3.1 Material certificates/FDA conformity statement according to 21 CFR177 on steel/elastomer parts in contact with media

Dimensions

Standard propeller diameter range: \emptyset 125 mm to 1900 mm. Specific dimensions on the drive unit and propeller(s) will depend on the actual configuration selected.

Standard design

The Alfa Laval range of bottom mounted propeller agitators is designed to meet almost every customer requirement. Due to their modular build the agitators can be designed for every type of application with the hygienic industry. The modular construction is designed with the aim to meet both European and American standards and regulations, such as EHEDG, USDA, FDA, 3A etc.

Configurable design

Type ALB agitator design is fully configurable divided in the following elements:

- Drives (drive + shaft support + shaft diameter)
- Seal arrangements (oil trap + shaft seal type)
- Shaft (length)
- Energy Saving Foils (propeller type + surface finish)
- Options

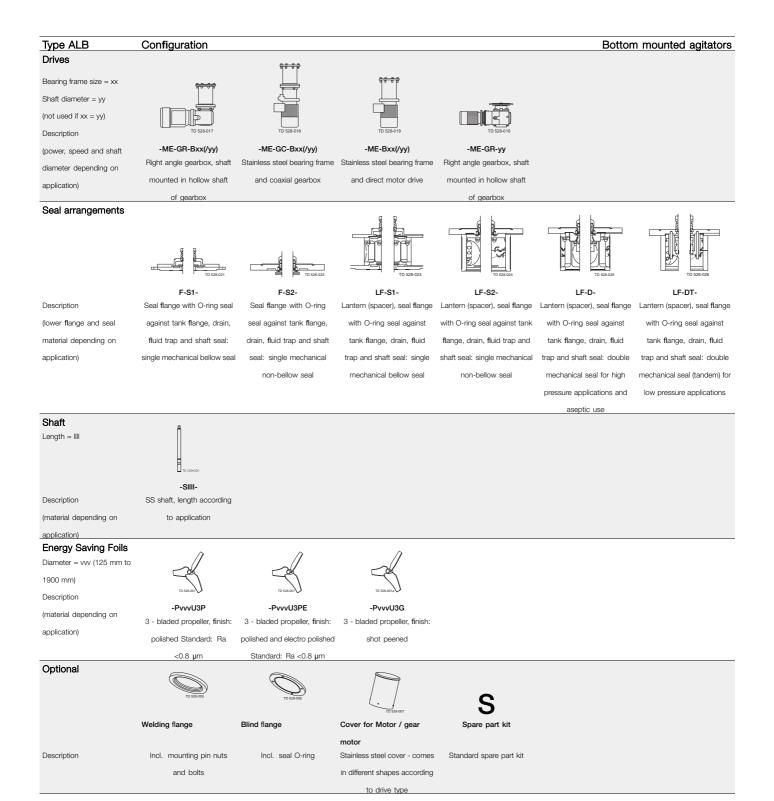
Each element has a broad range of different characteristics which makes it possible to size the agitator for all applications and requirements.

Advantageous and profitable design

Each configuration offers a number of advantages, which are shown in the examples below:

Operation features	Due to
Low energy consumption	the wide range of high efficiency
	propellers and drive units makes it
	possible to design for low operational
	costs
Gentle product treatment	the wide range of high efficiency
	propellers makes it possible to design
	for low shear operation
Hygienic features	Due to
Easy external cleaning	stainless steel bearing frame design
	with seal O-rings (for washing)
Connections inside the tank	bearing frame drives with drive shaft
(risk zones) can be minimised	and special internal shaft connection
	without having a flange coupling
	inside the tank
Good drip off properties	no plane surfaces or grooves on
	internal parts
Easy cleaning	no interior shadow sides between the
	blades and smooth surfaces
Maintenance features	Due to
All service (replacement of	bearing frame drives with detachable
wearing parts such as shaft	shaft which can be dismounted from
seals, bearings etc.) can be	outside the tank
done from outside the tank	
Easy dismantling	use of spider type coupling and

stainless steel parts



Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval