

Alfa Laval Side mounted agitators Type ALS

Efficient Mixing and Agitation

Application

Application	Typical examples
Maintain media homogeneous	Milk storage tanks, cream tanks, mixed product tanks,
	UHT product storage tanks, etc.
Mixing and Solutions (dissolves)	Fluid and fluid mixing, i.e. drinking yoghurt and fruit mix
	tanks, flavoured milk mix tanks, syrup mix tanks, etc.
Solid Dispersion	Powder protein + oil mix tanks, micro salt + milk product
	mix tanks, etc.
Suspension	Fluids with particles, i.e. juice tanks, crystallising tanks
	etc.
Heat transmission	Circulation of media in tanks with dimple jacket (cooling
	or heating)
Dairy Fermentation (break coagula +	Yoghurt tanks, cheese culture tanks, crème fraîche, etc.



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, 50Hz - 3x440V to 480V, 60Hz 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.

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

Available materials:

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.

Mechanical seal parts: Carbon Carbon (FDA)

Silicon carbide

Certificates

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

Dimensions

Propeller standard diameter range: \varnothing 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 side mounted propeller agitators is designed to meet almost every customer requirement. Due to their modular build, the agitators can be designed for every kind of application within 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 ALS 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.

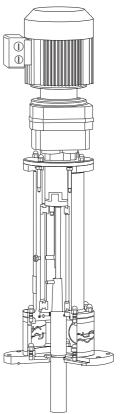
Advantageous and profitable design

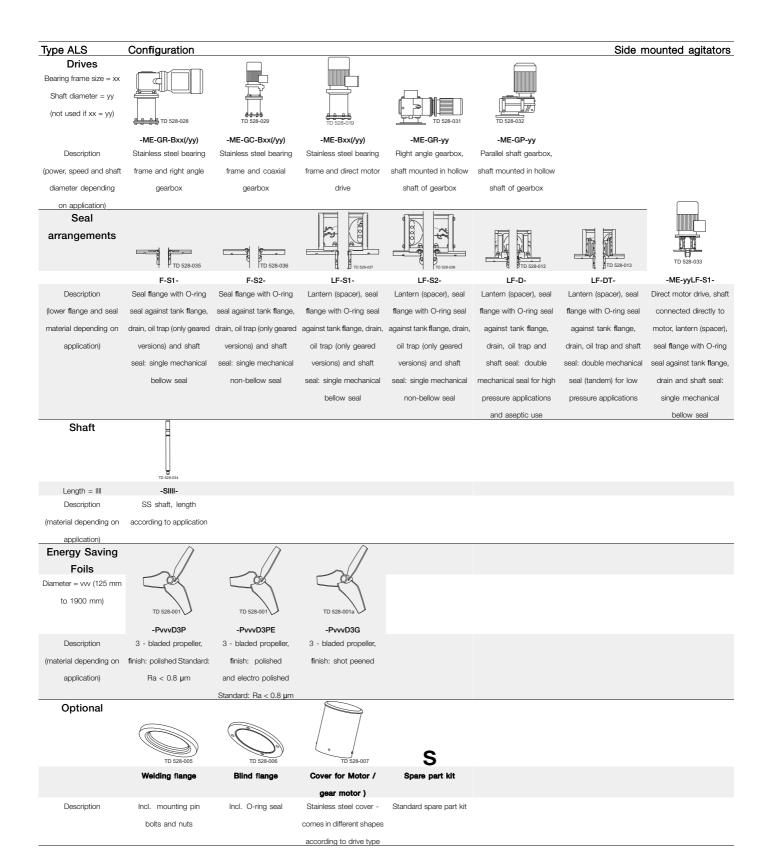
Each configuration offers a number of advantages, which are shown in the examples below:

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 O-ring seal (for wash down)
Connections inside the tank (risk	bearing frame drives with drive
zones) can be avoided	shaft 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
wear parts such as shaft seals,	detachable shaft which can
bearings etc.) can be done from	be dismounted from outside of the
outside of the tank	tank
Easy dismantling	use of spider type coupling and

stainless steel parts (no corrosion)









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

How to contact Alfa Laval