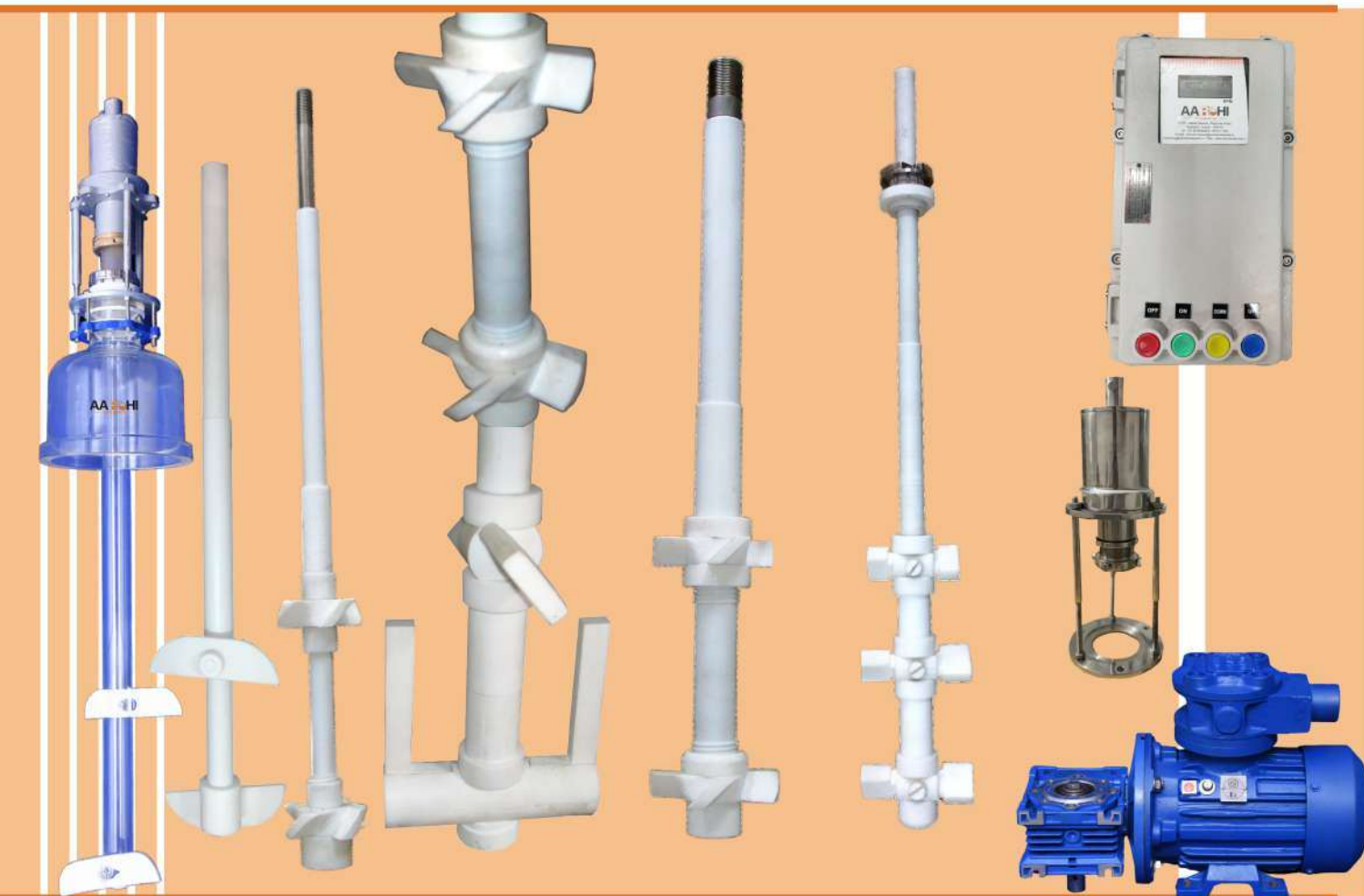




STIRRERS AND DRIVES



A range of stirrers and stirrer drives are available for use in glass vessels configured as agitated reaction equipment:

- MOC: Options include glass, stainless steel, or PTFE lining.
- Stirrer Designs: Available designs include impeller stirrers with blades, vortex stirrers, propeller stirrers, and anchor stirrers.
- Stirring Drives: Choose between non-flameproof or flameproof drives, operating at 192 RPM, with Variable Frequency Drive (VFD) control.
- Stirring Assembly: Assemblies are offered with a bellow seal or a mechanical seal.

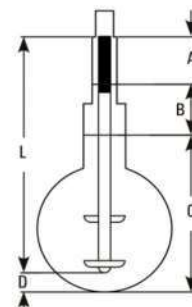
STIRRERS



STIRRERS

Stirrers are assembled in a vessel using a chuck, seal & a reducer. A typical arrangement of stirrer fitted in a vessel is shown in the picture

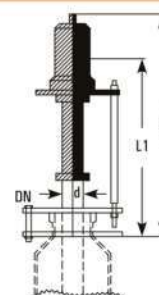
Size	A	B	c	D	L
20 L	250	150	450	25	825
50 L	300	200	600	50	1050
100 L	300	250	700	50	1200
200 L	300	300	900	50	1450
300L	300	25	1000	50	1275



CHUCK AND SEAL

This unit is designed for use in corrosive environments, with only glass and PTFE coming into contact with process fluids. A bellow seal can be used for vacuum conditions as low as 10 mm Hg absolute, while a mechanical seal is suitable for vacuums down to 1 mm Hg absolute or for pressure applications in glass vessels. A reducer is typically needed to connect the chuck and seal to the vessel's top neck.

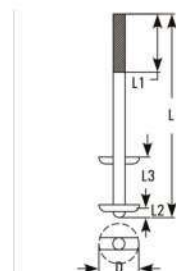
Cat.Ref. Bellow Seal	Cat.Ref. Mechanical Seal	Vessel	DN	L
CSA1	CSM1	20 L	50	300
CSA1.5	CSM1.5	50L, 100L, 200 L	80	360



STIRRER WITH TEFLON BLADES

These stirrers are used with liquid of low viscosity.

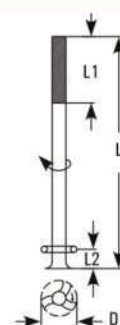
Cat.Ref.	Vessel	L	L1	L2	L3	d	D
STB10	10	600	300	15	175	25	100
STB20	20	825	300	25	200	25	100
STB50	50	1050	300	25	200	47	150
STB100	100	1200	300	30	250	47	175
STB200	200	1450	300	30	325	47	200
STB300	300	1550	350	30	425	59	275



VORTEX STIRRER

These stirrers are used with liquid of low viscosity containing small solid particles.

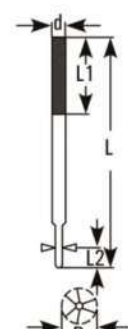
Cat.Ref.	Vessel	L	L1	L2	d
STV50	50	1050	300	50	47
STV100	100	1200	300	65	47
STV200	200	1450	300	65	47



PROPELLER STIRRER

These stirrers are used with liquid of high viscosity or liquid with big solid particles.

Cat.Ref.	Vessel	L	L1	L2	d	D
STP50	50	1050	300	50	47	95
STP100	100	1200	300	65	47	145
STP200	200	1450	300	65	47	210



STIRRERS

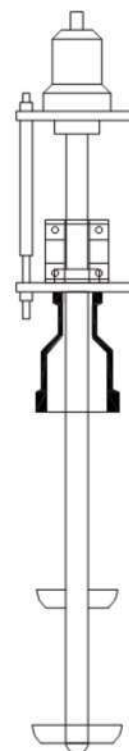


STIRRING ASSEMBLY WITH MECHANICAL SEAL

A Stirrer is assembled in chuck with mechanical seal and appropriate glass reducer. The assembly is convenient to install on a vessel. The assembly consist of:

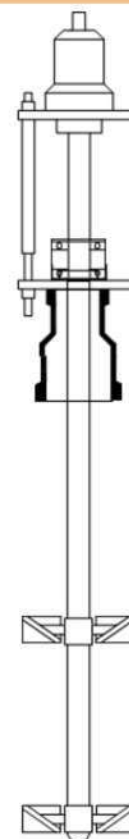
- Glass Stirrer STB/STV/STP
- Chuck and mechanical seal CSM
- Glass Reducer PR

Cat. Ref.	For Vessel	Stirrer	Chuck & Seal	Glass Reducer
STBM20	20L	STB20	CSA1	PR4/2
STBM50	50L	STB50	CSA1.5	PR6/3
STBM100	100L	STB100	CSA1.5	PR9/3
STBM200	200L	STB200	CSA1.5	PR12/3
STBM300	300L	STB300	CSA2	PR16/4
STVM50	50L	STV50	CSA1.5	PR6/3
STVM100	100L	STV100	CSA1.5	PR9/3
STVM200	200L	STV200	CSA1.5	PR12/3
	300L	STV300	CSA2	PR16/4
STPM50	50L	STP50	CSA1.5	PR6/3
STPM100	100L	STP100	CSA1.5	PR9/3
STPM200	200L	STP200	CSA1.5	PR12/3
STPM300	300L	STP300	CSA2	PR16/4



STIRRER WITH TEFLON BLADES

Cat. Ref.	For Vessel	Stirrer	Chuck & Seal	Glass Reducer
STBM20/P	20L	SS PTFE LINED	CSA1	PR4/2
STBM50/P	50L	SS PTFE LINED	CSA1.5	PR6/3
STBM100/P	100L	SS PTFE LINED	CSA1.5	PR9/3
STBM200/P	200L	SS PTFE LINED	CSA1.5	PR12/3
STBM300/P	300L	SS PTFE LINED	CSA2	PR16/4
STVM50/P	50L	SS PTFE LINED	CSA1.5	PR6/3
STVM100/P	100L	SS PTFE LINED	CSA1.5	PR9/3
STVM200/P	200L	SS PTFE LINED	CSA1.5	PR12/3
STVM300/P	300L	SS PTFE LINED	CSA2	PR16/4
STPM50/P	50L	SS PTFE LINED	CSA1.5	PR6/3
STPM100/P	100L	SS PTFE LINED	CSA1.5	PR9/3
STPM200/P	200L	SS PTFE LINED	CSA1.5	PR12/3
STPM300/P	300L	SS PTFE LINED	CSA2	PR16/4



DRIVES



FLAMEPROOF STIRRER DRIVE

- A 1400 RPM 3 Phase flameproof motor coupled with reduction gear is supplied along with a flexible shaft. Motor is mounted on a metal base frame, which is designed to install easily with a Glass Assembly.

Cat.Ref.	HP	RPM
FSD 0.5	0.5	192
FSD 1	1	192



VARIABLE FREQUENCY DRIVE

3 Phase non-flameproof regulators and Flameproof VFD Type regulator are available to control the speed of stirrer drives.

Cat.Ref.	Phase	Type
VFD 0.5	3	VFD



EXPLOSION PROOF STIRRER DRIVE

We also offer Ex certified motor coupled with bonfiglioli gearbox for better safety and performance.

Cat.Ref.	HP	RPM
FSD 0.5/ Ex	0.5	192

