FLUSSMANN

FSEA BOTTOM SIDE ENTRY AGITATORS

YOUR SOLUTION PARTNER

FSEA BOTTOM SIDE ENTRY AGITATORS

APPLICATION

Side entry agitators with direct coupled motor or geared motors and cast iron bearing house, propeller and single mechanical seal.

Suitable for mixing low viscosity in many chemical and food & pharma applications like wine, oil, milk, beer, alcohol in large volume tanks

WORKING PRINCIPLE

- Side entry agitators are installed inclined position
- Propeller creates a flow that pushes the bottom of the tank
- Flow raises up to surface throughout the wall opposite of agitator
- The effect is encouraged if the bottom is curved
- The agigator is distributed centrally to increase the circular flow
- This ensures complete homogenization of the product

DESIGN AND FEATURES

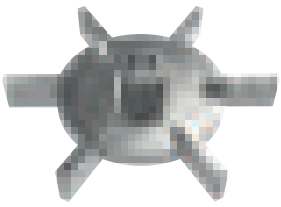
- Internal Mechanical seal
- Different type propeller
- Sanitary design
- Easy maintenance
- Easy assembly of propeller fixed to shaft with threaded connection
- 3 phaze motor 230/400 V, 50 Hz, IP 55
- Motor Speed 1500, 1000 rpm
- Motor gear speed 200, 300, 400 rpm

MATERIALS

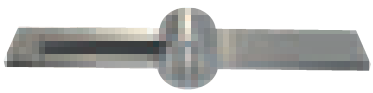
- Parts in contact with the product : A.316L
- Lantern and bearing support : GG 22
- Mechanical seal : Sic/Sic/EPDM
- Gaskets : EPDM

OPTIONS

- Double Mechanical seal
- Gaskets : FKM
- Different Propeller type
- Stainless steel Motor cover
- ATEX motor

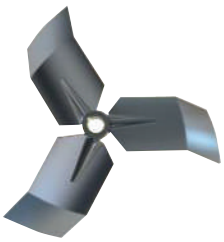


Radial Flow Turbine

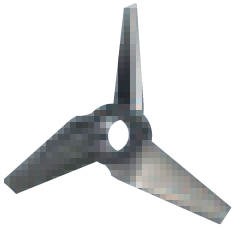


Inclined Blade

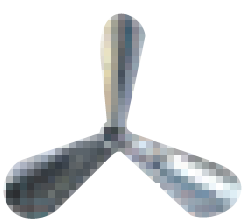
Saw Tooth



High Fow



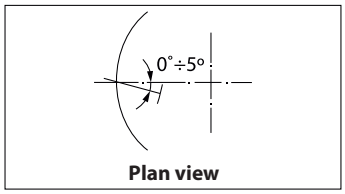
LineFlux

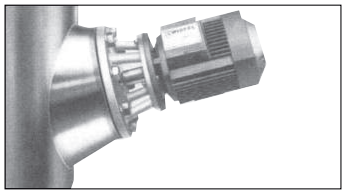


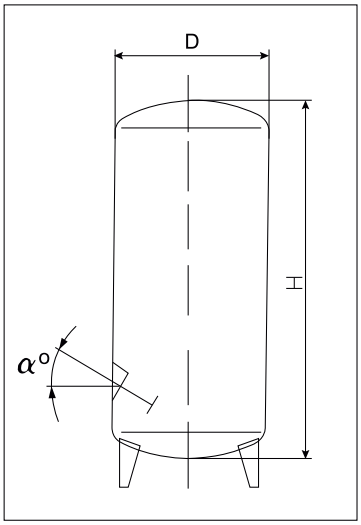
Marine

ASSEMBLY DIAGRAMS

VERTICAL TANKS (position angles)

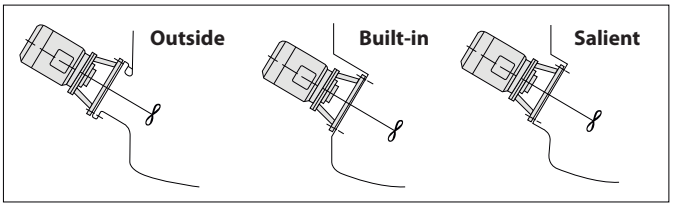






LOCATION OF THE SUPPORTS

Vertical ones



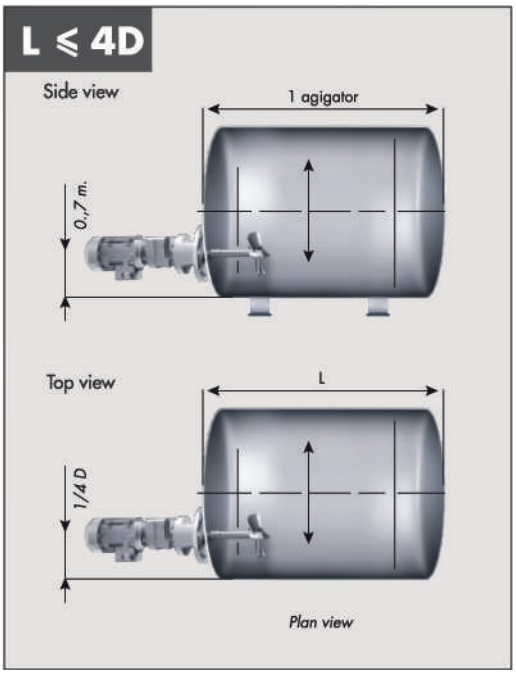
Horizontal ones

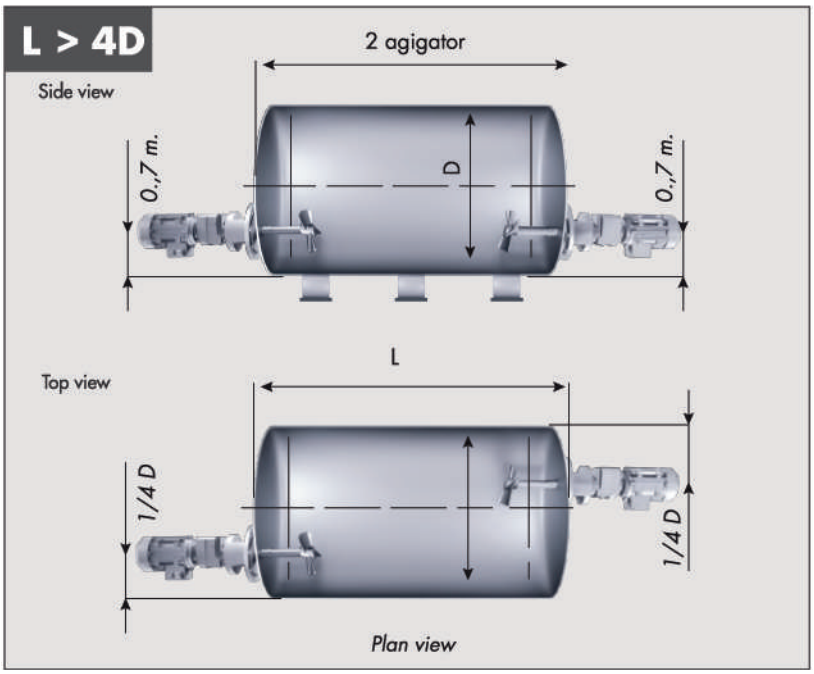
ANGLES OF ATTACK

H/D Ratio		0,5	1	1,5	2	2,5	3	4	5
α^{o}		0°	8°	14°	18°	25°	30°	40°	50°
Max. visc. cps.		3000	3000	1500	1500	500	300	150	100
BOTTOMS		●	●	●	●				
		●	●	●	●	●	●	●	●
		●	●	●	●	●	●	●	●

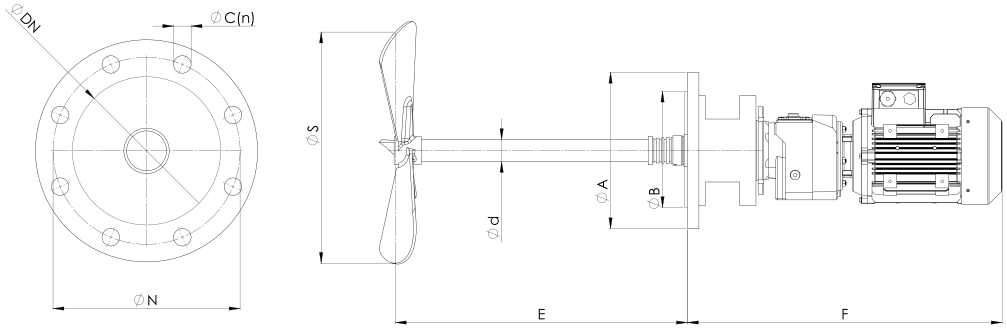
● Recommended

HORIZONTAL TANKS (location of agitators)

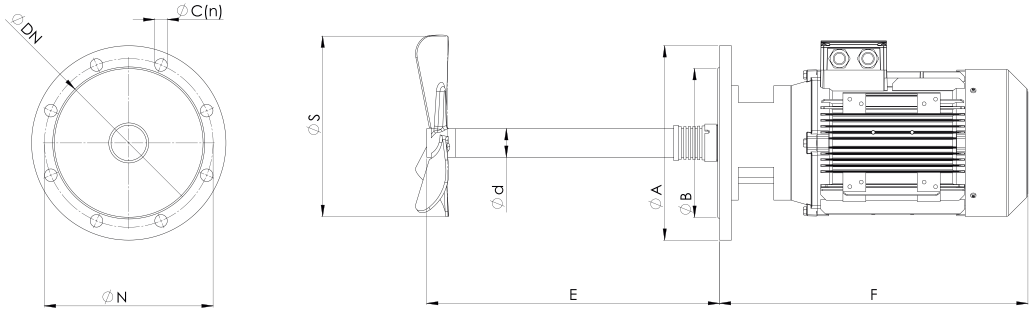




ANGLES OF ATTACK



FSEA.R



DIMENSIONS

TYPE	Ø DN	ØA	ØN	ØB	ØC (n)	Ød	E	F max	S
FSEA.D.15.15.175	150	285	240	212	22 8	40	400	375	175
FSEA.D.15.30.225	150	285	240	212	22 8	40	500	405	225
FSEA.D.15.40.225	200	340	295	259	22 8	50	500	500	225
FSEA.D.15.55.225	200	340	295	259	22 8	50	500	500	225
FSEA.D.15.75.250	200	340	295	259	22 8	50	500	500	250
FSEA.D.15.11.275	250	395	350	312	23 12	60	600	695	275
FSEA.D.10.01.225	150	285	240	212	18 8	40	400	375	225
FSEA.D.10.22.225	150	285	240	212	18 8	40	400	425	225
FSEA.D.10.30.250	200	340	295	259	23 8	50	500	500	250
FSEA.D.10.40.275	200	340	295	259	23 8	50	500	500	275
FSEA.D.10.55.300	250	395	350	312	23 12	60	600	695	300
FSEA.D.10.70.300	250	395	350	312	23 12	60	600	695	300
FSEA.R.02.05.325	150	285	240	212	22 8	40	400	468	325
FSEA.R.02.07.400	150	285	240	212	22 8	40	400	468	400
FSEA.R.02.15.500	150	285	240	212	22 8	40	400	510	500
FSEA.R.02.30.500	200	340	295	259	22 8	50	500	570	500
FSEA.R.02.40.600	250	395	350	312	23 12	60	500	710	500

CAPACITY

Volume (m^3)	Power (kw)	Speed (rpm)
5-20	1,5	1500
20-50	3	1500
50-80	4	1500
80-140	5,5	1500
80-140	7,5	1500
140–200	11	1500
5-20	1,1	1000
20–60	2,2	1000
20–60	3	1000
60–90	4	1000
90–150	5,5	1000
150–200	7,5	1000
5-20	0,55	200
20-50	0,75	200
50-100	1,5	200
100-150	3	200
150-200	4	200