

I Application

The range of the FMI agitators presents vertical direct motor-driven agitators. They are used in the processes of mixing, dissolution, dispersion and maintenance, whenever a powerful and high-speed agitation is required, in the food-processing, cosmetics, pharmaceutical or chemical industries. The most adequate finish is selected for every process.

The agitators are normally fitted to tanks of up to 20.000 L for work with low-viscosity products.

I Operating principle

The agitators are normally installed inside the tank either centrally with current deflectors, or offset so that the offsetting itself prevents the rotation of the stirred product.

The rotation of the propeller makes the fluid flow to the bottom and then up to the surface along the walls of the tank. The effect is promoted if the bottom of the tank is curved.

I Design and features

Vertical agitator.

Sealing: V-ring.

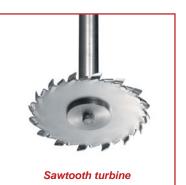
Bearing support.

Propeller attached to the shaft by Allen studbolts, and the shaft attached to the drive by means of a rigid coupling plate.

IEC B5 motor, 1500 rpm, IP 55, F-class insulation.

Max. power 75 kW.

Marine propeller (Type 10).



I Materials

Parts in contact with the product AISI 316
V-ring NBR
Lantern Aluminium
Bearing support GG-15
Surface finish $Ra \le 1,6 \ \mu m$



Double flushed mechanical seal.

Retainer: FPM.

Shaft and propeller lined with plastic material for use with corrosive products.

Welded propeller with $Ra \le 0.4 \mu m$ and $Ra \le 0.8 \mu m$ surface finish.

Sawtooth turbine (cowles).

Motor shroud.

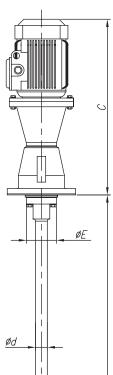
Motors with other protections. Motors: 950 or 750 rpm.

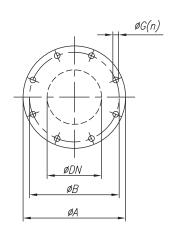


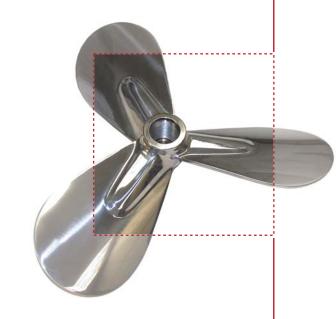




I Technical specifications and dimensions

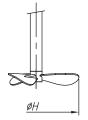






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								Agitator shaft		Type			
	ver									10	4		
Agitator	Motor power	Speed	Support	Dimensions						Marine propeller	Sawtooth propeller		
	[kW]	[rpm]		C ØE Flange ØA ØB ØDN ØG(Ød	L _{max}	ØH	ØH		
FMI-B-1.10-4022-200	2,2				105	240	200	125	- - 18 (8)	40	1800	200	
FMI-B-1.10-4030-200	3		В	625									
FMI-C-1.10-4040-225	4		С	685		125 265	225	150		45	2000	225	
FMI-C-1.10-4055-250	5,5			750	125							050	
FMI-D-1.10-4075-250	7,5	•		835	140	40 320	280	200		55	2200	250	
FMI-D-1.10-4110-275	11		D	1005 140								275	
FMI-D-1.10-4150-300	15				140							300	
FMI-D-1.10-4185-300	18,5			1060	1060								
FMI-E-1.10-4220-325	22	1450	ш	1165	160	375	335	250	18(12)	65	2400	325	
FMI-B-1.4-4022-150	2,2		C 685 750 125 265 225 1	125	40	40	1800		150				
FMI-C-1.4-4040-200	4			685	125	265	225	150	18 (8)	45	2000		200
FMI-C-1.4-4055-200	5,5			750	123	203	223	130					200
FMI-D-1.4-4075-255	7,5			835		320		200		55	2200		255
FMI-D-1.4-4110-290	11			1005			280						290
FMI-D-1.4-4150-330	15			1003			200						
FMI-D-1.4-4185-330	18,5			1060									330
FMI-E-1.4-4220-330	22		Е	1165	160	375	335	250	18(12)	65	2400		
FMI-F-1.4-4300-390	30		F	1285	220	490	445	350	23(12)	80	2500		390



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