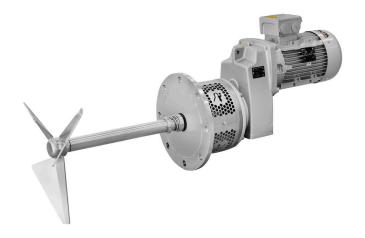


DINAMIX SMX

Side Entry Agitator



OPERATING PRINCIPLE

Side entry agitators DINAMIX SMX are used for the homogenization of liquids stored in large volume tanks. They are powered by means of a geared motor and are installed inclined in the lower part of the shell of the tank. The rotation of the propeller creates a flow that pushes the product towards the bottom of the tank, making it rise to the surface of the liquid through the tank wall on the opposite side of the agitator. This effect is favoured if the closure has a dished head. Likewise, the agitator is installed off-centre with respect to the tank to favour a circular flow in the radial plane. In this way, a complete homogenization of the product is ensured.

APPLICATIONS

Lateral agitators are an economical and effective solution for storage tanks in the food, pharmaceutical and cosmetic industries.

The most important application is the maintenance and homogenization in large volume tanks of low viscosity products such as wine, oil, milk, beer, alcohol, etc.

DESIGN AND FEATURES

Robust and hygienic construction.

Standardised EN 1092 PN 10 flange.

Stainless steel lantern to facilitate the inspection and maintenance of the mechanical seal.

Hygienic design to avoid dead and difficult access spots to easy cleaning.

High-efficiency impeller fixed to the shaft through a threaded hygienic connection.

Different types of IE3 gear motors with food grade oil.

Electric motor, 3 ph, IP55, 1500 rpm.

CONFIGURABLE ELEMENTS

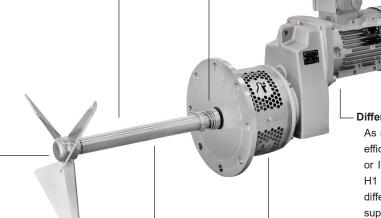
The agitator has a modular design and is fully configurable with different options of motors, sealing system, surface finish, elastomeric materials and, in addition, the possibility of ATEX certification.



Standard surface finish is Ra $\leq 0.8 \ \mu m$. Also available with Ra $\leq 0.4 \mu m$ surface finish for pharmaceutical applications.

Sealing system

As standard with a single mechanical seal. Optional hygienic system. Available with different sealing systems on request.



Different drives

As standard, available with highefficiency IE3 worm gear drives or IE3 parallel shaft drives. With H1 food-grade oil. Available with different frequencies and power supply voltages.

Impeller

High-efficiency design. Hygienic construction: completely welded and connected to the shaft with a view O-ring for easy cleaning.

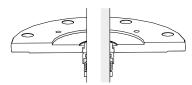
Lantern

Made in stainless steel. Possibility assembly without the lantern.

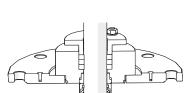
Explosive atmospheres

ATEX certificate option for work in explosive atmospheres using certified gearmotors and mechanical seals..

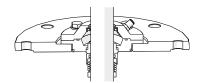
SEALING SYSTEM OPTIONS



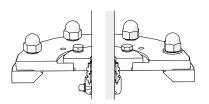
Mechanical seal



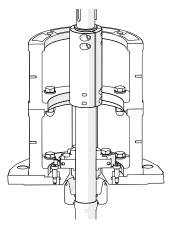
Mechanical seal with safety gland packing



Quenched mechanical seal



Hygienic mechanical seal for CIP and SIP



Shut-off: system to change the mechanical seal without disassembling the agitator and emptying the tank.

OPTIONS

Agitator without the lantern. SiC/SiC mechanical seal.

Gaskets: FPM. Motor with shroud. Hygienic design. ATEX certification.

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product 1.4404 (AISI 316L)
Other steel parts 1.4307 (AISI 304L)

Operating limits

Working pressure -1 to 10 bar Working temperature 5°C to 130°C

Agitators with worm gear drive

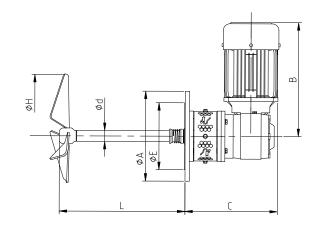
	Flow [m³/h]	Tank [m³]	Speed [rpm]	Power [kW]	Support
SMX-1/W 1.16-27001-250	155	5 - 10	270	0,18	4
SMX-1/W 1.16-27002-300	270	10 - 20	270	0,25	- 1
SMX-2/W 1.16-19005-400	435	20 - 40	190	0,55	
SMX-2/W 1.16-28007-400	645	40 - 70	280	0,75	2
SMX-2/W 1.16-19011-500	855	70 - 100	190	1,1	_

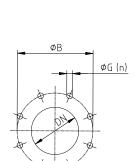
Agitators with parallel shaft drive

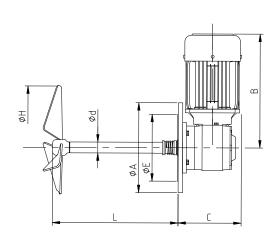
	Flow [m³/h]	Tank [m³]	Speed [rpm]	Power [kW]	Support
SMX-2/P 1.16-29007-400	675	20 - 70	290	0,75	
SMX-2/P 1.16-22015-500	1000	70 - 110	220	1,5	- 2
SMX-2/P 1.16-28030-500	1300	110 - 150	280	3	- 2
SMX-2/P 1.16-36040-500	1650	150 -200	360	4	_
SMX-3/P 1.16-32075-600	2500	200 - 400	320	7,5	3
SMX-4/P 1.16-210110-800	3800	400 - 800	210	11	4
SMX-5/P 1.16-280220-800	5200	800 - 1200	280	22	5

DIMENSIONS

Agitators with worm gear drive







W/O LANTERN

STANDARD

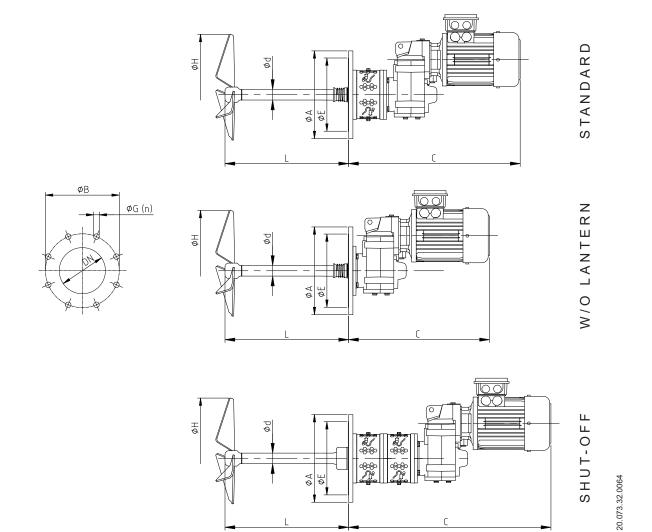
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	kW	-14/	Flange				Shaft			Standard	W/O Lantern
	KVV	ØDN	ØA	ØB	ØE	ØG(n)	Ød	L	Н	С	
SMX-1/W 1.16-27001-250	0,18	- 100	220	180	150	18(8)	25		250	293	203
SMX-1/W 1.16-27002-300	0,25		220		158				300	302	212
SMX-2/W 1.16-19005-400	0,55							400	400	343	243
SMX-2/W 1.16-28007-400	0,75	150	285	85 240	212	22(8)	35	35	400	343	243
SMX-2/W 1.16-19011-500	1,1	-							500	348	248

Dimensions in mm

	=	Weight [kg]			
	_	Standard	W/O Lantern		
SMX-1/W 1.16-27001-250	0,18	16	14		
SMX-1/W 1.16-27002-300	0,25	16	14		
SMX-2/W 1.16-19005-400	0,55	31	28		
SMX-2/W 1.16-28007-400	0,75	32	29		
SMX-2/W 1.16-19011-500	1,1	37	34		

Agitators with parallel shaft drive



	Flange					Shaft			Standard	W/O Lantern	Shut-off					
	kW	ØDN	ØA	ØB	ØE	ØG(n)	Ød	L	Н	С						
SMX-2/P 1.16-29007-400	0,75								400	500	400	-				
SMX-2/P 1.16-22015-500	1,5	450	005	040	040	00(0)	(8) 35 400	400		560	460	-				
SMX-2/P 1.16-28030-500	3	150	285	240	212	22(8)		500	635	515	755					
SMX-2/P 1.16-36040-500	4													685	565	805
SMX-3/P 1.16-32075-600	7,5	200	340	295	268	22(8)	45	000	600	800	-	950				
SMX-4/P 1.16-210110-800	11	250	395	350	320	22(12)	55	— 600 -	000	900	-	1065				
SMX-5/P 1.16-280220-800	22	350	505	460	430	22(16)	65	750	800	1085	-	1265				

Dimensions in mm

	kW		Weight [kg]	
	KVV	Standard	W/O Lantern	Shut-off
SMX-2/P 1.16-29007-400	0,75	33	30	-
SMX-2/P 1.16-22015-500	1,5	42	39	-
SMX-2/P 1.16-28030-500	3	63	57	74
SMX-2/P 1.16-36040-500	4	71	65	82
SMX-3/P 1.16-32075-600	7,5	140	-	165
SMX-4/P 1.16-210110-800	11	209	-	240
SMX-5/P 1.16-280220-800	22	351	-	394