Millipore®

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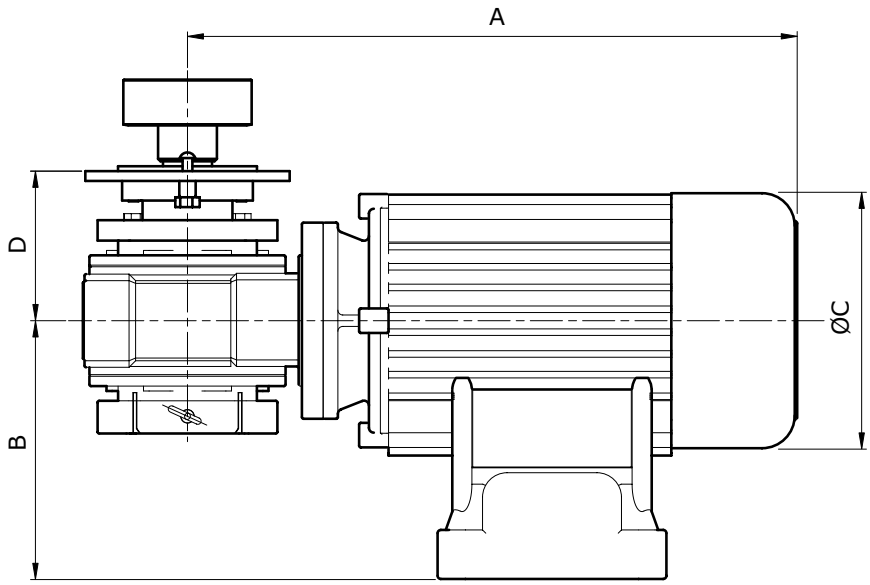
Catalogue Number:
AX##/41-E#-###

Specification Sheet

NovAseptic® Mixer Drive Unit, GMP ATEX

Product Description

NovAseptic® mixers offer a complete solution for mixing throughout the process line and are designed for a wide variety of mixing applications in the pharmaceutical and biotechnology industries.



Nominal Dimensions in mm (in.)

AX##/ 41-E#-###	A	B	C	D -E0-###		D -E1-###		D -E2-###		NovAseptic® ATEX Mixer assembly type
AX05/41	281 (11.06)	145 (5.71)	123 (4.84)	83 (3.27)	–055	125 (4.92)	–056	—	—	GMP50 ATEX
AX1/41	281 (11.06)	145 (5.71)	123 (4.84)	71 (2.80)	–057	131 (5.16)	–058	171 (6.73)	–059	GMP100 ATEX
AX5/41	281 (11.06)	145 (5.71)	123 (4.84)	71 (2.80)	–060	131 (5.16)	–061	171 (6.73)	–062	GMP500 ATEX
AX10/41	317 (12.48)	155 (6.10)	140 (5.51)	75 (2.95)	–063	—	—	175 (6.89)	–064	GMP1000 ATEX
AX20/41	363 (14.29)	181 (7.13)	181 (7.13)	92 (3.62)	–065	—	—	192 (7.56)	–066	GMP2000 ATEX

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Specifications

Drive Unit Net Weight (approximate)					
Mixer Size	**AX05/41**	**AX1/41**	**AX5/41**	**AX10/41**	**AX20/41**
Weight kg (lb)	18 (39.7)	18 (39.7)	18 (39.7)	23.5 (51.81)	31 (68.3)

General Motor Data	
Voltage	230/400 V ~ 50 Hz
Number of Poles	2
Degree of Protection	IP 65
Insulating Class	CLF
Ventilation	IC411 (TEFC)
Variable Speed Duty	Quadratic Torque 5–50Hz
Thermostat	2 (PTC 110 °C), (PTC 120 °C)
Color	White
Oil	Food grade synthetic, complies with the Code of Federal Regulations (FDA), US 21 CFR 178.3570, 178.3620 and 182

General Revolution Counter Data	
Manufacturer	Pepperl - Fuchs
Catalogue No.	NCB1.5-8GM25-N0-V1
Standard	Namur
Component Labeling	Ex II 1G Ex ia IIC T6...T1 Ga
Degree of Protection	IP 67
Pulses/revolution	1
Cable Length (Detachable)	2 m

Drive Unit Specifications

	MOTOR						
	Type CEMP	**Marking**	**Max Effect (kW)**	**Frequency (Hz)**	**Max Current (A) 230/400 V AC ***	**Speed (rpm) 50 Hz**	**Frame (IEC)**
AX05/41	AC75 63B-2	II 2G Ex db eb IIC T4 Gb*	0.25	50	1.49/0.86	2858	63/B14
AX1/41	AC75 63B-2	II 2G Ex db eb IIC T4 Gb*	0.25	50	1.49/0.86	2858	63/B14
AX5/41	AC75 63B-2	II 2G Ex db eb IIC T4 Gb*	0.25	50	1.49/0.86	2858	63/B14
AX10/41	AC75 71B·2	II 2G Ex db eb IIC T4 Gb*	0.55	50	2.42/1.40	2856	72/B14
AX20/41	E3AC75 80MA 2	II 2G Ex db eb IIC T4 Gb*	0.75	50	2.77/1.60	2865	80/B14
	GEARBOX						
	Type Varvel	**Marking**	**Ratio (i)**	**Outer Driving Head Torque (Nm)**		**Design Speed (rpm)***	
AX05/41	FRS 28/FA	II 2GD	7	1		50–400	
AX1/41	FRS 28/FA	II 2GD	7	2		50–400	
AX5/41	FRS 28/FA	II 2GD	7	6		50–400	
AX10/41	FRS 40/PA	II 2GD	7	8		50–400	
AX20/41	FRS 50/PA	II 2GD	7	13		50–400	

* Inverter rated

Note: Design Speed is the mechanical limit.

Specifications

Additional Information		
Technical Data	**GMP50 up to GMP100**	**GMP500 up to GMP2000**
	Ⓔx II 1/2 G Ex h IIC T6…T3 (*)/T4 Ga Gb	Ⓔx II 1/2 G EX h IIC T4…T2*/T3 Ga Gb
Ambiant Temperature	0 °C to 40 °C (32 to 104 °F)	
Operating Speed	Maximum operating speed has to be validated for each process individually, depending on volume, viscosity.	
Operating Temperature	5 °C to 135 °C (41 to 275 °F)	
Note	The assembled NovAseptic® ATEX Mixer may have different design temperature and/or pressure limits. The weakest component in the assembled product determines the maximum temperature and pressure limits.	
Labeling	Each drive unit is individually labeled for full traceability according to our QA routines.	
Packaging	Each drive unit is packaged in a closed box.	
Quality Control	Our quality assurance system guarantees the control and traceability of the product.	
Liquid viscosity	1 to 800 cP max	

The Drive unit must be used with the appropriate male bearing, mixing head and tank plate to comply with the marking of the GMP ATEX mixer assembly.

* depends of the inside vessel process fluid temperature

Technical Assistance

For more information, please visit **SigmaAldrich.com**
for up-to-date worldwide contact information

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