

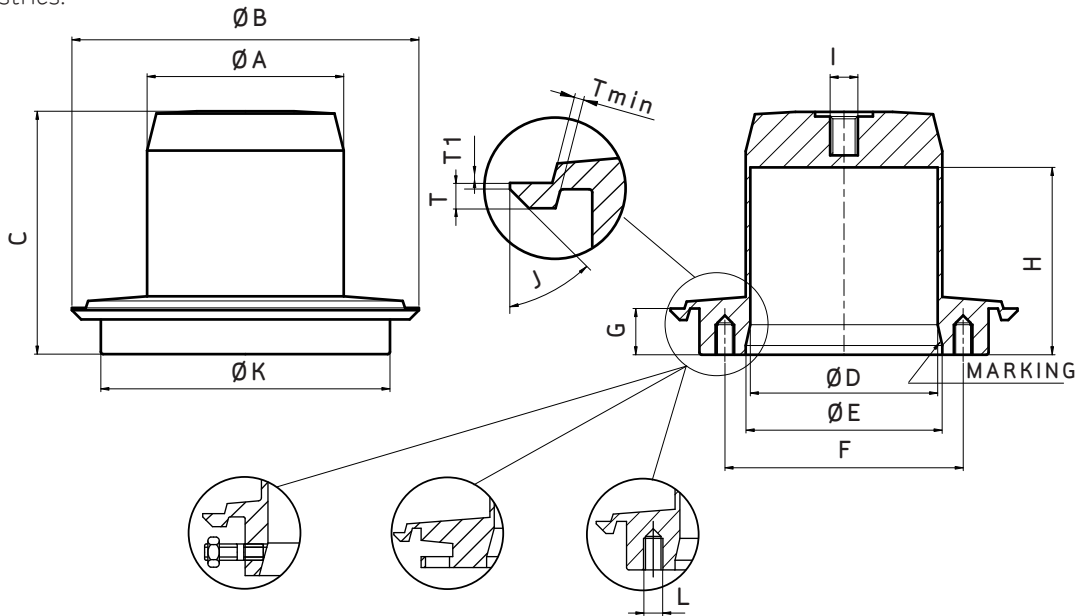
NovAseptic® MIXER, TANK PLATE, GMP AND HS

PRODUCT DESCRIPTION

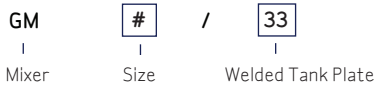
The NovAseptic mixers offer a complete solution for mixing throughout the process line and are designed for a wide variety of mixing applications in the pharmaceutical and biotechnology industries.

Catalogue Numbers:

GM#/33



Catalogue Number Structure



Nominal Dimensions in mm (in.)

Catalogue Number	A	B	C	D	E	F	G	H	I	J	K	L	T	T1	Tmin	Compatible Mixer
GM05/33	32 (1.26)	72 (2.83)	56 (2.20)	28 (1.10)	-	-	18 (0.71)	44 (1.73)	M6	45°	50 (1.97)	-	3 (0.12)	1 (0.04)	2.5 (0.10)	GMP 50 & HS T10
GM1/33	54 (2.13)	90 (3.54)	58 (2.28)	50 (1.97)	-	-	19 (0.75)	46 (1.81)	M6	45°	64 (2.52)	-	4 (0.16)	1 (0.04)	1.8 (0.07)	GMP100
GM5/33	54 (2.13)	90 (3.54)	68 (2.68)	50 (1.97)	-	-	19 (0.75)	56 (2.20)	M6	45°	64 (2.52)	-	4 (0.16)	1 (0.04)	1.8 (0.07)	GMP500
GM10/33	62 (2.44)	150 (5.91)	69 (2.72)	58 (2.28)	65 (2.56)	110 (4.33)	17 (0.67)	56 (2.20)	M6	45°	125 (4.92)	-	4 (0.16)	1 (0.04)	2.2 (0.09)	GMP1000
GM20/33	85 (3.35)	150 (5.91)	73 (2.87)	81 (3.19)	85 (3.35)	110 (4.33)	20 (0.79)	58 (2.28)	M10	45°	125 (4.92)	-	4 (0.16)	1 (0.04)	2.3 (0.09)	GMP2000

<i>Catalogue Number</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>T</i>	<i>T1</i>	<i>Tmin</i>	<i>Compatible Mixer</i>
GM50/33	104 (4.09)	160 (6.30)	73 (2.87)	100 (3.94)	104 (4.09)	116 (4.57)	13 (0.52)	54 (2.13)	M12	45°	128 (5.04)	M8	6 (0.24)	1.5 (0.06)	4.2 (0.17)	GMP5000
GM100/33	85 (3.35)	150 (5.91)	105 (4.13)	81 (3.19)	85 (3.35)	105 (4.13)	20 (0.79)	81 (3.19)	M12	45°	125 (4.92)	M8	5 (0.20)	1 (0.04)	2.4 (0.09)	GMP10000
GM200/33	168 (6.61)	240 (9.45)	94 (3.70)	164 (6.46)	168 (6.61)	187 (7.36)	25 (0.98)	69 (2.72)	M12	45°	207 (8.15)	M10	6 (0.24)	1 (0.04)	5.4 (0.21)	GMP20000
GM300/33	168 (6.61)	240 (9.45)	119 (4.69)	164 (6.46)	168 (6.61)	187 (7.36)	29 (1.14)	94 (3.70)	M12	30°	207 (8.15)	M10	12 (0.47)	2 (0.08)	7.8 (0.31)	GMP30000

Specifications

Net Weight (approximate)

Tank Plate	GM05/33	GM1/33	GM5/33	GM10/33	GM20/33	GM50/33	GM100/33	GM200/33	GM300/33
Weight kg (lb)	0.5 (1.1)	0.5 (1.1)	0.6 (1.3)	2 (4.4)	2 (4.4)	2.5 (5.51)	3 (6.6)	8 (18)	8 (18)

Welding Diameter

Tank Plate	GM05/33	GM1/33	GM5/33	GM10/33	GM20/33	GM50/33	GM100/33	GM200/33	GM300/33
Diameter mm (in)	Ø72 (Ø2.83)	Ø90 (Ø3.54)	Ø90 (Ø3.54)	Ø150 (Ø5.91)	Ø150 (Ø5.91)	Ø160 (Ø6.30)	Ø150 (Ø5.91)	Ø240 (Ø9.45)	Ø240 (Ø9.45)

Material

	Bar Stainless Steel in Compliance with	
Material Code	316L	EN 1.4435
Technical Requirements	ASME® SA-479	EN 10272

Specifications

Additional Information	
Surface Roughness:	Surface Ra \leq 0.5 μ m (20 μ in) (Optional: Ra \leq 0.25 μ m (10 μ in))
Surface Treatment:	Liquid contact surface, manually polished. No polishing compounds of animal origin used.
Design Temperature, Tank Plate*:	-80 to 200 °C (-112 to 392 °F)
Design Pressure, Tank Plate*:	-1 to 10 bar(g) (-14.5 to 145 psi(g))
Labeling:	Each Tank Plate is individually labeled for full traceability and heat No. according to Millipore QA procedures.
Packaging:	The Tank Plate is packaged in a closed box.
Quality Control:	Millipore Quality Assurance system ensure the quality and traceability at all stages of the process.
In Compliance with:	The NovAseptic Mixer is classified in Europe, for PED Directive 97/23/EC Category IV and approved by Notified Body.
Requirements:	The Tank Plate is designed to meet requirements for USA, ASME VIII Div 2. Stresses in Tank Plate due to internal pressure have been analyzed by FEM.
Options:	For non-standard NovAseptic Mixer Options, please contact Millipore for information.

**Note: The assembled NovAseptic Mixer may have different design temperature and/or pressure limits. The weakest part in the assembled product determines the maximum design temperature and pressure limits.*



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